

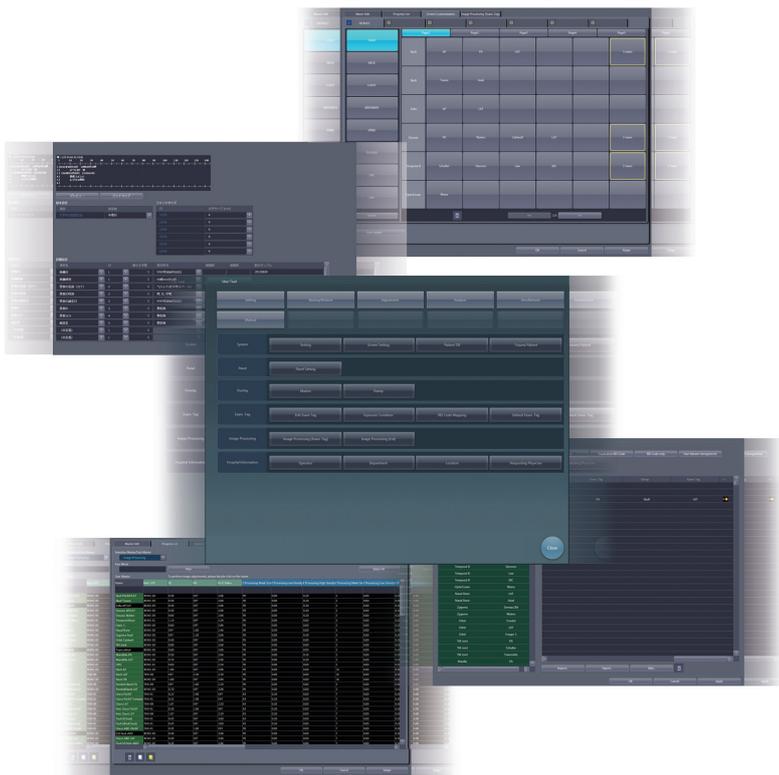


KONICA MINOLTA

DIRECT DIGITIZER

CS-7

Version 1.21



User Tool Operation Manual

CE 0197



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EN

08

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Introduction

Introduction

This user tool operation manual provides instructions on the basic functions for operation of this device. Those operating this device for the first time should read this manual beforehand.

Also, store this manual close to this device after reading it through, so it can be used as a guide to allow optimum operating conditions.

For United States of America and Canada, this device is not intended to use for Mammography.

*** If the pages of the user tool operation manual are smudged and illegible, replace it with a new one. (There is a fee for this service.)**

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Option/license

For certain functions of this device, separate options and licenses are needed. For details regarding options and licenses, contact Konica Minolta service representatives.

Term description

The meanings of terms used in this operation manual are as follows:

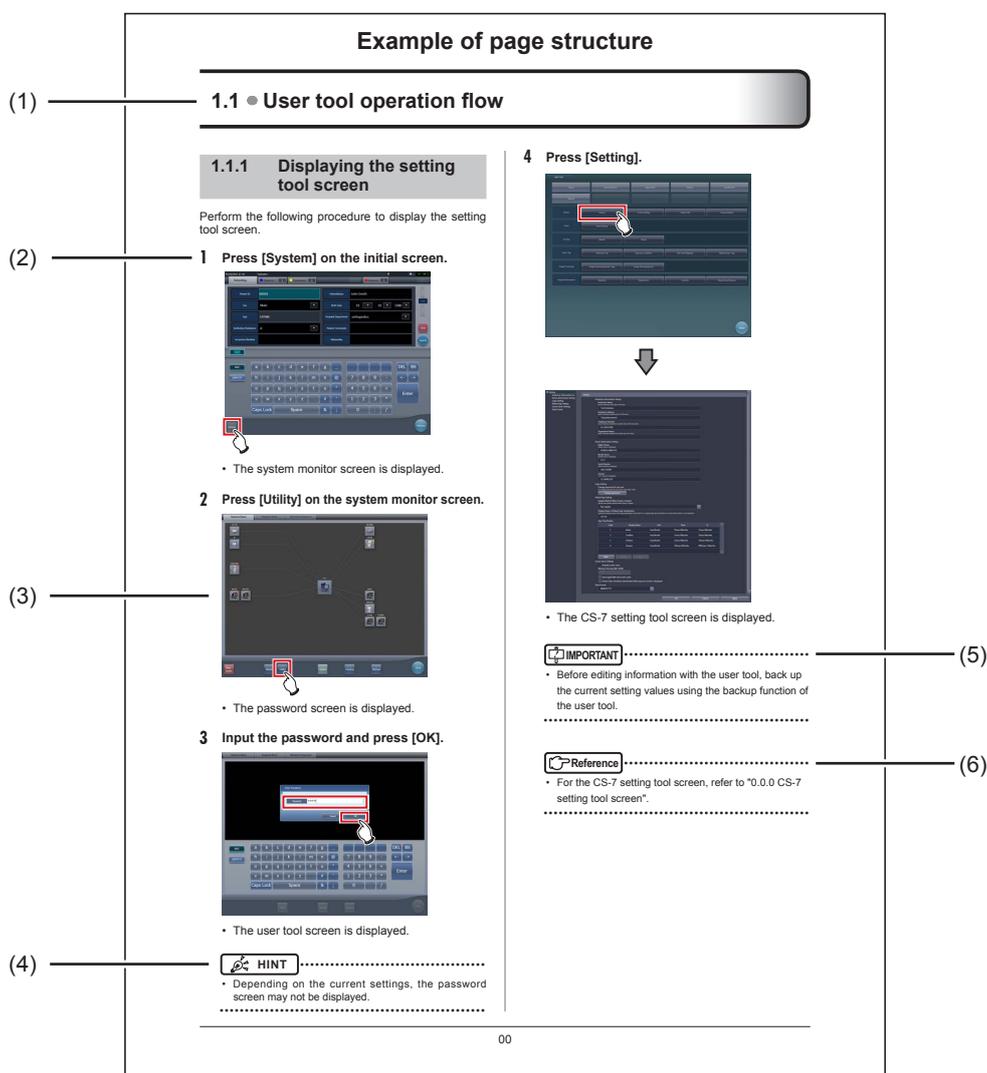
Terms	Description
AeroDR SYSTEM	<ul style="list-style-type: none"> Collective term indicating AeroDR Detector, AeroDR Interface Unit, AeroDR Interface Unit2, AeroDR Generator Interface Unit, AeroDR Generator Interface Unit2, AeroDR Battery Charger, AeroDR Battery Charger2, AeroDR Access Point, etc. Collective term indicating AeroDR SYSTEM and AeroDR SYSTEM 2.
AeroDR Detector	Collective term indicating AeroDR 1417HQ, AeroDR 1417S, AeroDR 1717HQ, AeroDR 1012HQ, AeroDR 2 1417HQ and AeroDR 2 1417S.
AeroDR Interface Unit	Supplies power to the AeroDR Generator Interface Unit, AeroDR Generator Interface Unit2, and access point, and supplies power to and charges the battery of the AeroDR Detector when an AeroDR I/F Cable or AeroDR UF Cable is used. It also has a hub function.
AeroDR Interface Unit2	<ul style="list-style-type: none"> Supplies power to the access point, and supplies power to and charges the battery of the AeroDR Detector when an AeroDR I/F Cable or AeroDR UF Cable is used. It also has a hub function. Relays signals between the X-ray device, the AeroDR Detector, and the CS-7.
AeroDR Generator Interface Unit	Relays signals between the X-ray device, the AeroDR Detector, and this device.
AeroDR Generator Interface Unit2	Relays signals between the X-ray device, the AeroDR Detector, and this device.
AeroDR Battery Charger	Charges the AeroDR Detector. It also has the registration function for the AeroDR Detector.
AeroDR Battery Charger2	Charges the AeroDR Detector. It also has the registration function for the AeroDR Detector.
Access point	Collective term indicating AeroDR Access Point and a general-purpose access point.
AeroDR I/F Cable	Collective term indicating AeroDR I/F Cable (10/20 m) and AeroDR I/F Cable2 (10/20 m).
AeroDR I/F Cable2	Used to indicate the AeroDR I/F Cable2 (1 m).
AeroDR UF Cable	Used when the AeroDR Detector is used only for the wall stand or table position.
AeroDR Portable RF Unit	Receives an image data from the AeroDR Detector and transfers it to this device. Also, this unit interfaces with the portable X-ray device.
AeroDR Portable RF Unit2	<ul style="list-style-type: none"> Interfaces with the mobile X-ray device. Charges or registers the AeroDR Detector when using the AeroDR Battery Charging KIT and AeroDR I/F Cable2.
AeroDR Portable UF Unit	Receives an image data from the AeroDR Detector and transfers it to this device.
AeroDR Stitching System	Used when performing stitching exposures using the AeroDR Detector.
Calibration	Processing for calibrating the characteristics of the AeroDR Detector for each pixel
CR	An acronym for computed radiography
DR	An acronym for digital radiography
JM	An acronym for job manager
REGIUS	Collective term indicating the REGIUS series (Excluding "REGIUS SIGMA" and "REGIUS SIGMA2"). When indicated individually, they are shown as "REGIUS 110", "REGIUS 110HQ", "REGIUS 210", "REGIUS 190", and "REGIUS 170".
REGIUS SIGMA/SIGMA2	Used as the collective terms for "REGIUS SIGMA" and "REGIUS SIGMA2".
CR cassette	Used as the collective terms for the cassettes in the REGIUS series and REGIUS SIGMA/SIGMA2.
RIS	Abbreviation for Radiology Information System A system to manage reservation and result of examinations and treatment that use radiology equipment
Host	A server to save image information
X-ray device	An X-ray exposure device constructed of an X-ray generator device, an operation panel, and so on

Continued on the next page

Introduction

Terms	Description
HS processing	Image processing to reduce noise Used to reduce the noise while maintaining the definition of an image.
F processing	Image processing for adjusting the sharpness of an image Used to maintain the sharpness of each image depending on the exposure body part.
E processing	Image processing for compressing the dynamic range Depending on the body part, used to provide a suitable diagnostic image even with high contrast images.
IG	An acronym for Intelligent-Grid. This is a function that corrects scattered X-ray radiation.
Exposure body part	This is the exposure body part, such as head, neck, and chest.
Exam. Tag	A button that has registered exposed body parts, size, direction, etc. It is positioned on the body part selection screen.
Exposure condition	Indicates conditions relating to exposure in general such as exposure device, exposure method, exposure setting, and positioning.
Exposure setting	Indicates the tube voltage, X-ray tube current, exposure time, etc. displayed on the console of the X-ray device.
Wired cable	Collective term indicating AeroDR I/F Cable, AeroDR I/F Cable2, and AeroDR UF Cable.
Aero Sync	This is a mode in which exposure is performed without being synchronized with the X-ray device.

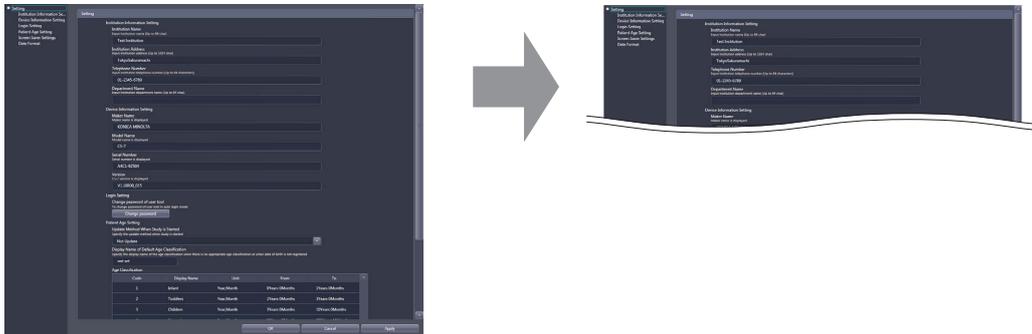
Structure of pages



Number	Item	Description	Icon
(1)	Item heading	Describes the titles of described content.	-
(2)	Operation procedure	The operating procedure is described in sequential numerical steps.	-
(3)	Screen display	Shows a screen on which operations are performed.	-
(4)	Hint	Describes important information.	 HINT
(5)	Important items	Describes important items for operation. Be sure to read them.	 IMPORTANT
(6)	Reference	Describes reference items. Refer to these as necessary.	 Reference

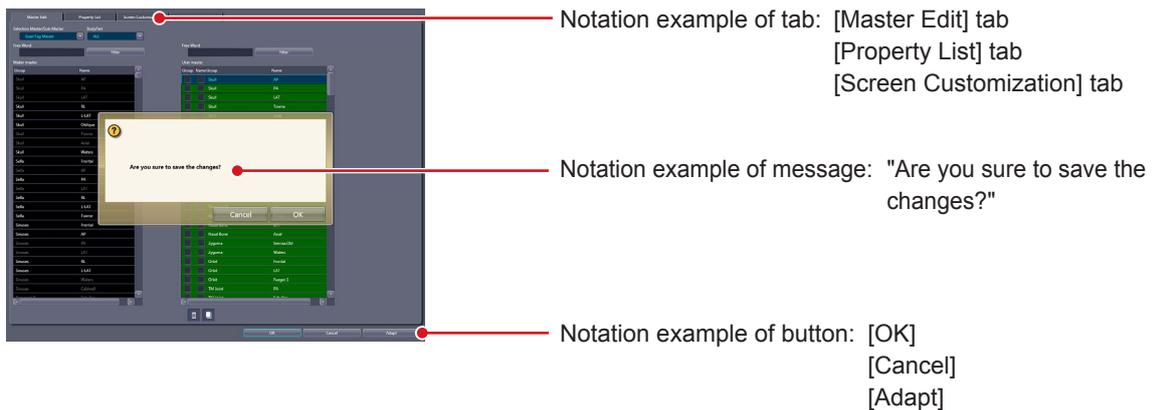
Screen display

Note that explanatory screens may be omitted from this manual when not needed.



Characters and icons displayed on the screen

Characters and icons displayed on the screen are shown with []. Messages displayed on such as the confirmation screen are shown with ". The "." that may be at the end of characters or messages are omitted.



Notation of operation methods

This manual describes main operation methods as follows.

Notation	Description
Press	Operation to touch the screen or click with a mouse to operate operation targets such as buttons.
Select	Operation to select from several options such as from a pull-down menu or tabs.
Input	Operation to enter any string using a keyboard or the input panel displayed on the screen.
Drag	Operation to move an operation target while touching or clicking it.
Drop	Operation to release the operation target being dragged by quitting touching it or releasing the button being clicked.
Drag using both buttons	Operation to move an operation target by touching it with two fingers or while clicking the right- and left-hand mouse buttons simultaneously.

Chapter 1

Overview of the User Tool

This chapter describes the overview of the user tool.

1.1 • Overview of the user tool

1.1.1 User tool

The user tool is the utility for customizing various information in this device to suit the environment in which you use this device.

You can specify the names of operators and exposure rooms and other information, and set the exposure body parts and the image processing conditions.

Because the user tool manages important information that may affect the processing of this device, the use is restricted by password. Due to this limitation, you may not be able to display some items on the screen or use some buttons.



- Before editing information with the user tool, back up the current setting values using the backup function of the user tool. Should any problem occur in operating this device and/or the reader after editing, the previous settings can be recalled.
- Some buttons and item names are not displayed on each screen when some options or licenses are not selected.

1.1.2 Before using the user tool

Mouse operation is recommended because use of the user tool requires operations including double-clicking and dragging items displayed on the screen.

Also, the keyboard included with this device is sometimes used, such as when entering the names.



If you changed the setting of this device using the user tool, a pop-up window may be shown to prompt you to restart this device. Follow the instructions to restart this device. The modified setting will not take effect until this device is restarted.

1.2 • Structure of user tool

Tools and their categories are selected from the user tool screen.

Tool classification selection button	Tool classification display area	Tool selection button	Function
[Setting]	[System] area	[Setting]	For confirming and editing the information of the institution and device.
		[Screen Setting]	For setting the display items of patient registration screen, list screen, etc. and the layout.
		[Patient DB]	For editing the patient information registered in the database.
		[Trauma Patient]	For setting the automatic number issuing function and default Exam. Tag for trauma patients.
	[Panel] area	[Panel Setting]	For setting AeroDR Detector.
	[Overlay] area	[Marker]	For setting the marker to be overlaid on images.
		[Stamp]	For setting the stamp to be overlaid on images.
	[Exam. Tag] area	[Edit Exam Tag]	For adding and editing the Exam. Tag settings.
		[Exposure Condition]	For adding and editing information about the exposure settings.
		[RIS Code Mapping]	For associating RIS codes sent from the RIS with codes for this device.
		[Default Exam. Tag]	For selecting an Exam. Tag that is set for a default Exam. Tag.
	[Image Processing] area	[Image Processing (Exam. Tag)]	For adjusting the image processing parameter of the Exam. Tag.
		[Image Processing (List)]	For adding and editing information about image processing.
	[Hospital Information] area	[Operator]	For registering and editing the selection of the operator names.
		[Department]	For registering and editing the selection of the hospital departments.
		[Location]	For registering and editing the selection of the hospital wards.
		[Requesting Physician]	For registering and editing the selections for requesting physician names.
[Backup/Restore]	[Backup] area	[Backup]	For saving the settings of this device, patient information and logs.
		[Log Management]	For managing operation logs of this device.
		[Reject Log]	For managing logs of rejected images of this device.
	[Restore] area	[Restore]	For restoring saved settings and patient information.
	[Auto backup] area	[Setting]	For setting the auto backup function.
		[Maintain DB and images]	For restoring or deleting automatically backed up data.

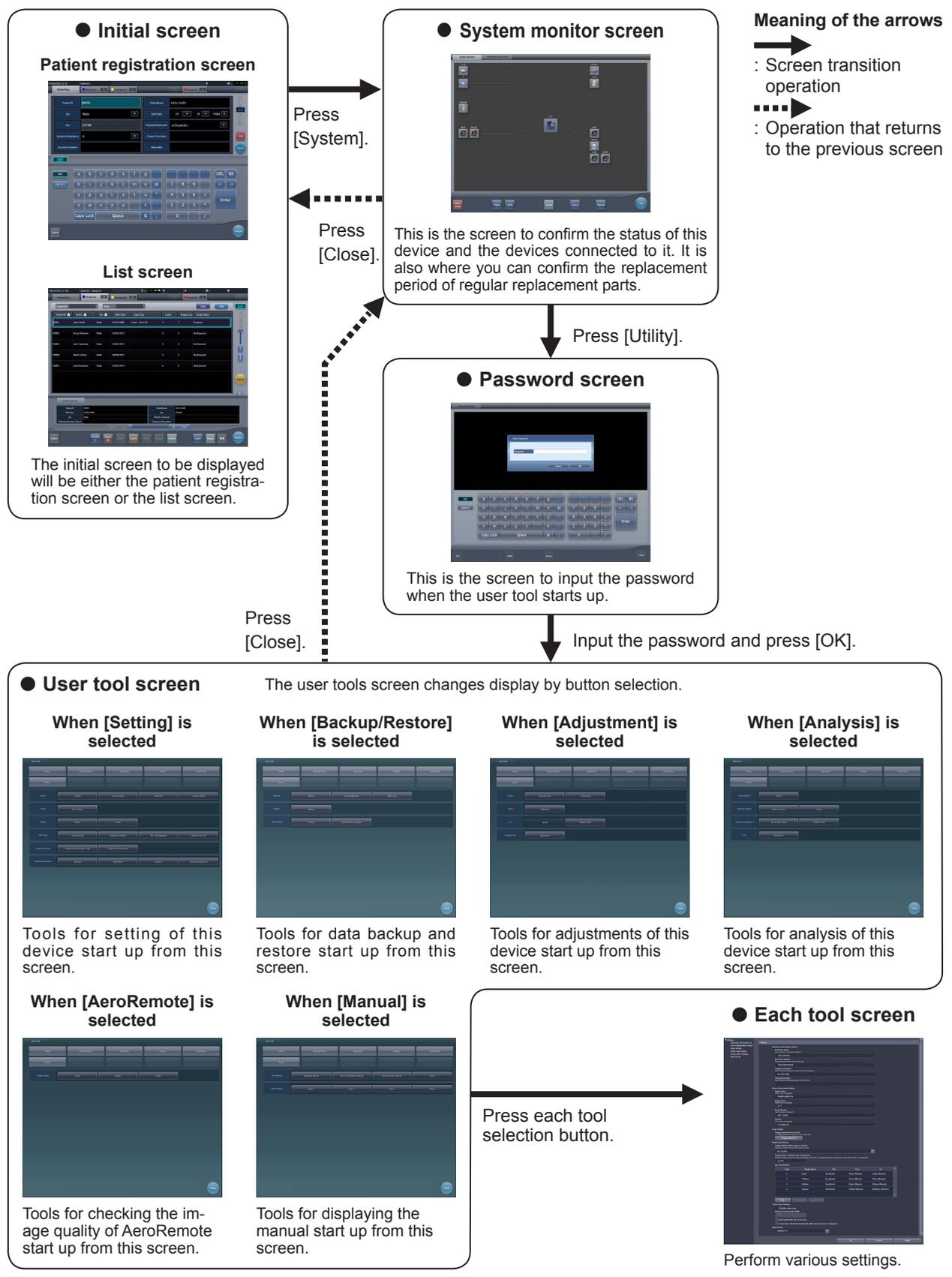
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1.2 Structure of user tool

Tool classification selection button	Tool classification display area	Tool selection button	Function
[Adjustment]	[System] area	[Date and Time]	For setting the date and time.
		[Touch Panel]	For adjusting the touch panel.
	[Panel] area	[Calibration]	For conducting the calibration of the AeroDR Detector.
	[CS-7] area	[Update]	For updating this device.
		[Release Notes]	For displaying the version of this device and updated contents.
	[LongLen Unit] area	[Adjustment]	For adjusting the AeroDR Stitching Unit.
	[REGIUS Σ] area	[Information Notification Setting]	For setting the notification procedure of the communication control information.
		[Error History]	For displaying the error history screen.
		[Fractional Masking]	For setting fractional masking.
	[Analysis]	[Image Quality] area	[QA/QC]
[Statistics Analysis] area		[Statistics Analysis]	For aggregating and taking the statistics of exposure history.
		[Setting]	For setting the dedicated application for aggregating and taking the statistics of exposure history.
[Quality Management] area		[Raw Image Output]	For outputting raw images to media.
		[AFSSAPS Tool]	For outputting raw images to the host.
[Test] area		[PanelCheck]	For performing the AeroDR Detector test.
[AeroRemote]		[Image Quality] area	[Check]
	[Report]		For displaying the image quality report selection screen.
	[Graph]		For displaying the image quality timeline graph selection screen.
[Manual]	[User Manual] area	[Operation Manual]	For displaying an operation manual.
		[User Tool Operation Manual]	For displaying a user tool operation manual.
		[PDA Operation Manual]	For displaying a PDA operation manual.
		[Other]	For displaying other manuals.
	[Other Manual] area	[Other 2] - [Other 5]	For displaying other manuals.

1.3 • Screen connections

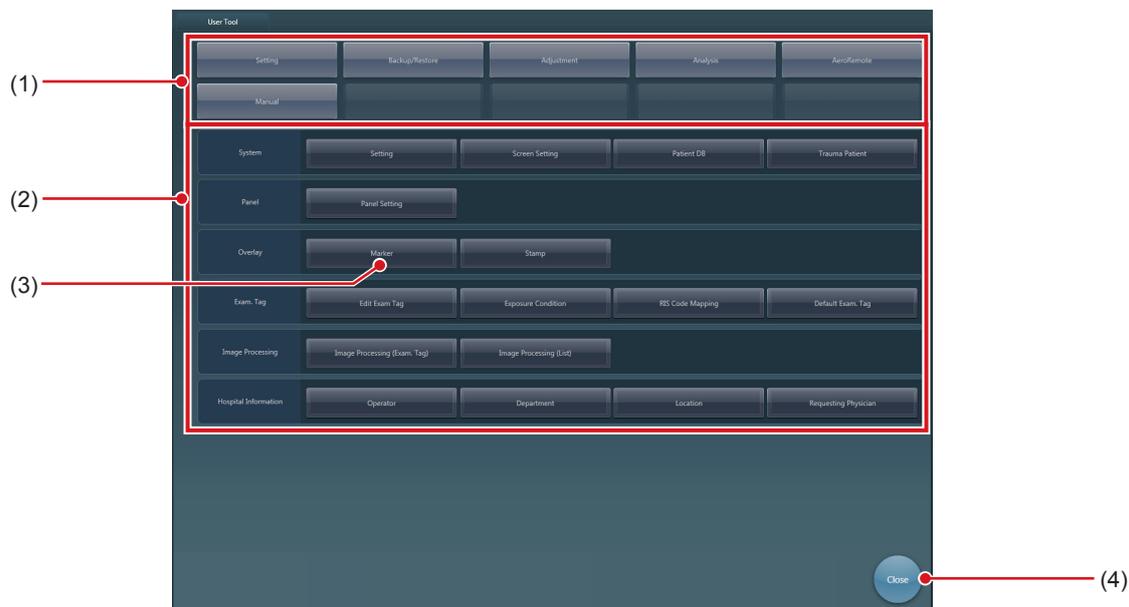
The following describes the connection between various screens and how they transition. For details, see the corresponding page in the manual for each screen.



1.4 • Overview of the user tool screen

1.4.1 Structure of the user tool screen

On the user tool screen, there are buttons to select tools and their categories. Select tools or their categories according to the purpose.



Number	Name	Function
(1)	Tool classification selection button	For selecting the user tool function you want to use. Switches the tool classification display.
(2)	Tool classification display area	Switches the button display for each tool classification.
(3)	Tool selection button	Starts the tool.
(4)	[Close]	Exits from the user tool, and returns to the system monitor screen.

1.4.2 Switching of the tool classification display

The display switches depending on the selected tool classification.

● User tool screen

The user tools screen changes display by button selection.

When [Setting] is selected



Tools for setting of this device start up from this screen.

When [Backup/Restore] is selected



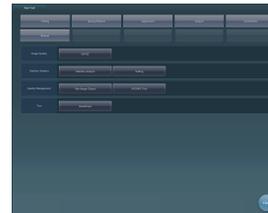
Tools for data backup and restore start up from this screen.

When [Adjustment] is selected



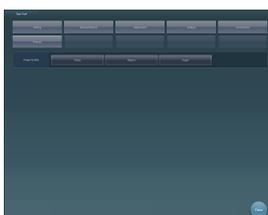
Tools for adjustments of this device start up from this screen.

When [Analysis] is selected



Tools for analysis of this device start up from this screen.

When [AeroRemote] is selected



Tools for checking the image quality of AeroRemote start up from this screen.

When [Manual] is selected

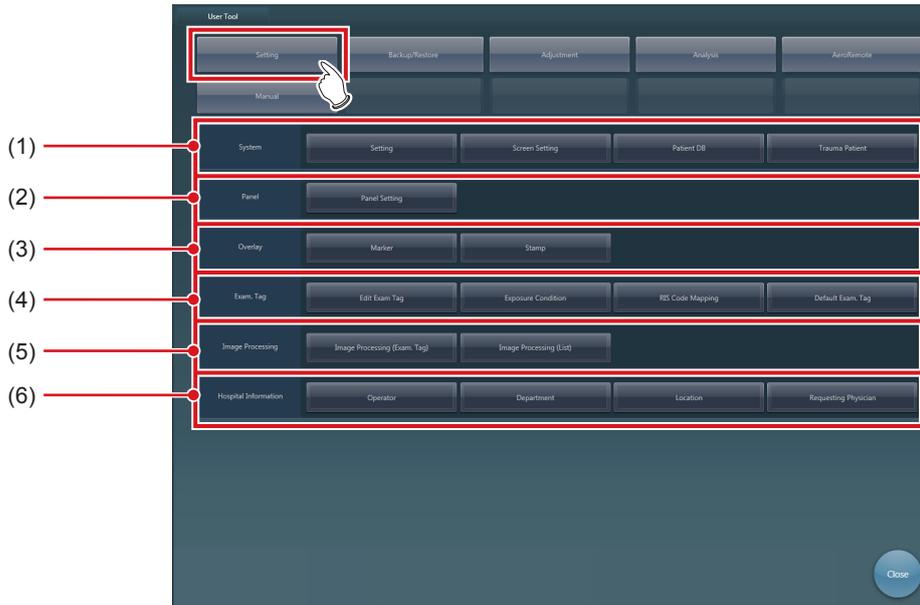


Tools for displaying the manual start up from this screen.

1.4 Overview of the user tool screen

● Tool classification display when [Setting] is selected

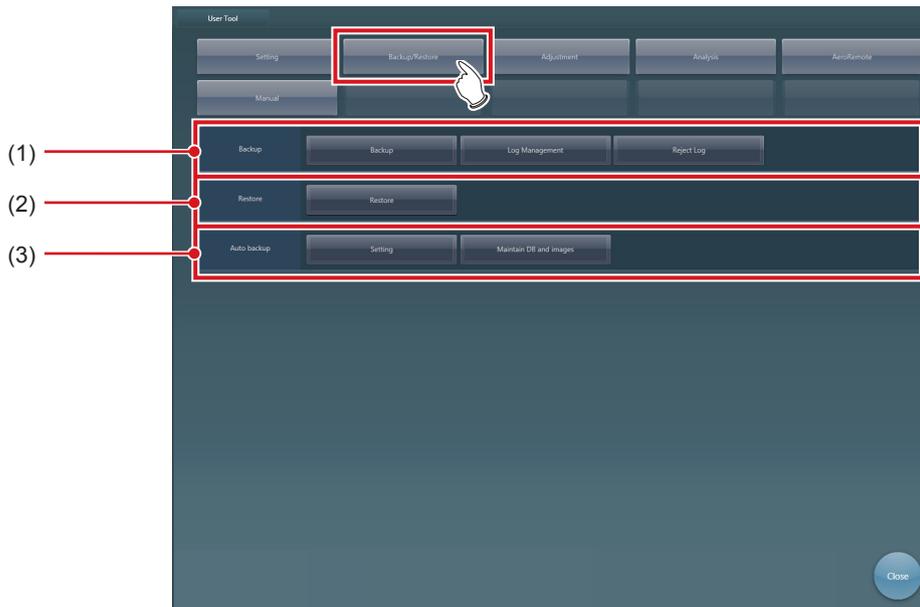
When [Setting] is pressed, tool selection buttons are displayed for the setting of this device.



Number	Name	Function
(1)	[System] area	For setting the operation or display of the system.
(2)	[Panel] area	For setting the AeroDR Detector.
(3)	[Overlay] area	For setting the marker and stamp overlay items to be overlaid on images.
(4)	[Exam. Tag] area	For editing the Exam. Tags and the RIS code mapping.
(5)	[Image Processing] area	For setting information relating to image processing in Exam.Tags.
(6)	[Hospital Information] area	For setting the selection menu screens to be displayed with the operator name selection screen and filter condition screen. [Operator], [Department], [Location] and [Requesting Physician] can be set.

● **Tool classification display when [Backup/Restore] is selected**

When [Backup/Restore] is pressed, tool selection buttons are displayed for data backup and restore.



Number	Name	Function
(1)	[Backup] area	Saves the settings and data.
(2)	[Restore] area	Restores the saved settings and data.
(3)	[Auto backup] area	For configuring automatic data backup settings and restoring automatically backed-up data.

● **Tool classification display when [Adjustment] is selected**

When [Adjustment] is pressed, tool selection buttons are displayed for the adjustment of this device.



Number	Name	Function
(1)	[System] area	For adjusting the date and touch panel.
(2)	[Panel] area	Starts the calibration tool.
(3)	[CS-7] area	For updating the system version.
(4)	[LongLen Unit] area	For adjusting the AeroDR Stitching Unit.
(5)	[REGIUS Σ] area	For setting the REGIUS SIGMA/SIGMA2.

● **Tool classification display when [Analysis] is selected**

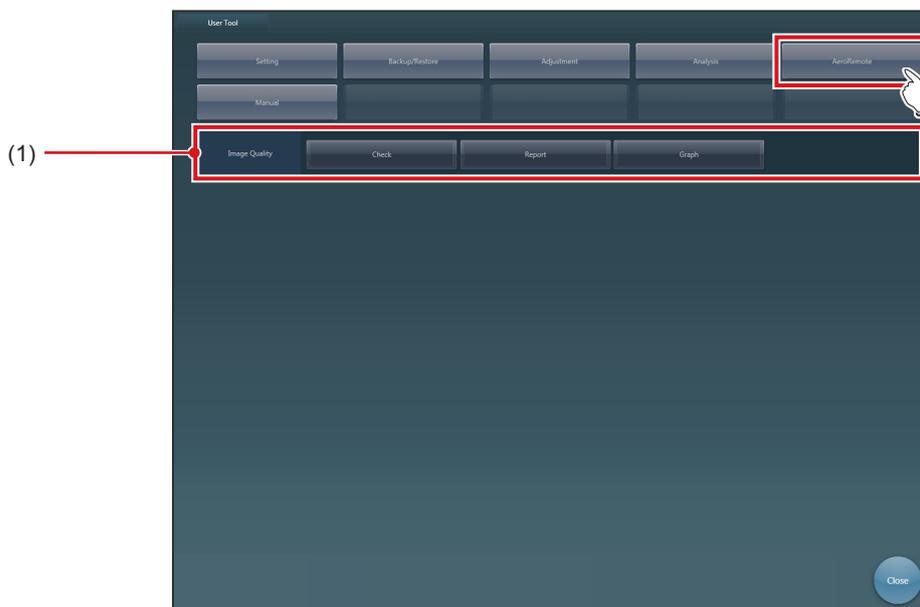
When [Analysis] is pressed, tool selection buttons are displayed for the analysis of this device.



Number	Name	Function
(1)	[Image Quality] area	Starts the dedicated application for evaluating and managing image quality.
(2)	[Statistics Analysis] area	Starts and sets the dedicated application for aggregating and taking the statistics of exposure history.
(3)	[Quality Management] area	Outputs unprocessed raw images or the test pattern in DICOM file format.
(4)	[Test] area	Performs the AeroDR Detector test.

● **Tool classification display when [AeroRemote] is selected**

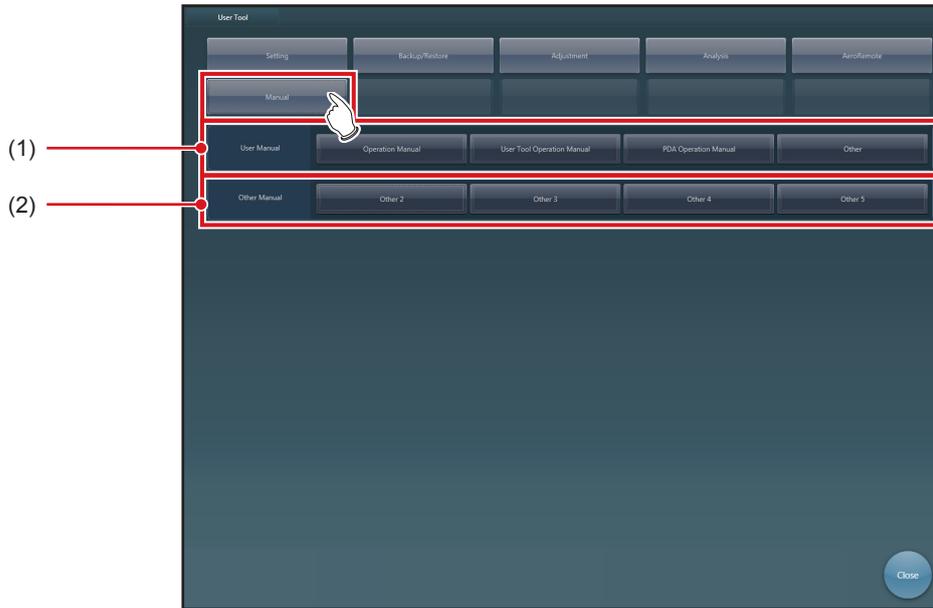
When [AeroRemote] is pressed, tool selection buttons are displayed for AeroRemote.



Number	Name	Function
(1)	[Image Quality] area	For checking the image quality of AeroRemote and displaying the result.

● **Tool classification display when [Manual] is selected**

When [Manual] is pressed, tool selection buttons are displayed for manuals.



Number	Name	Functions
(1)	[User Manual] area	Displays "CS-7 Operation Manual", "CS-7 User Tool Operation Manual", "PDA Operation Manual" and other manuals.
(2)	[Other Manual] area	For displaying other manuals 2 through 5.

HINT

- [Manual], [User Manual] area, and [Other manual] area is not displayed if none of the manuals has been registered.

.....

1.5 • Function list of each tool screen

Describes the functions of each tool screen.

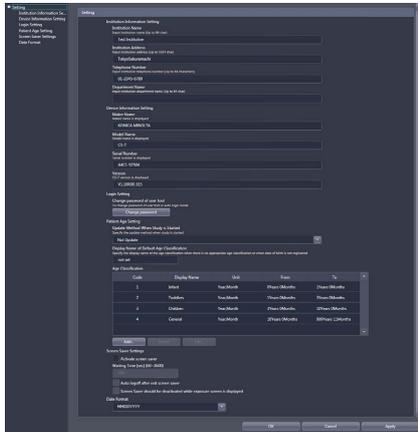
1.5.1 List of tool screens when [Setting] is selected

The tool screens displayed when [Setting] is selected are listed below.

[System] area

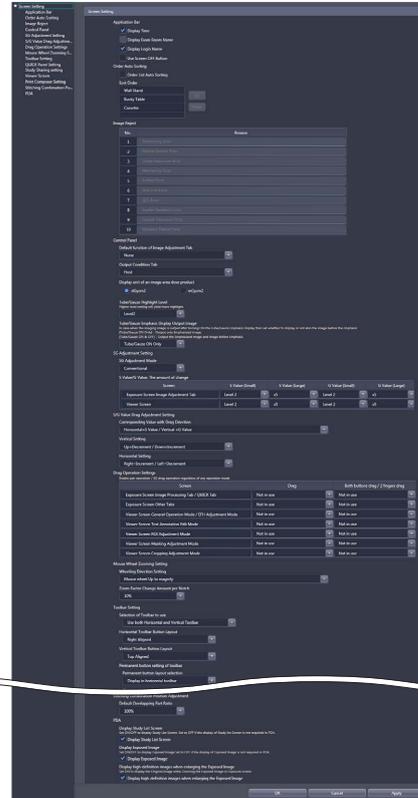
● CS-7 setting tool screen

This tool is for confirming and editing the information of the institution and device.



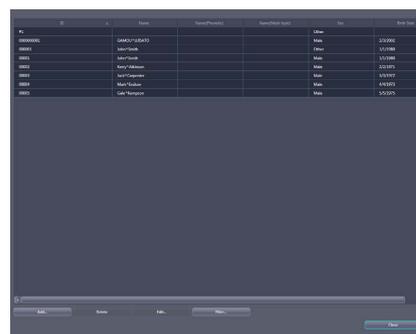
● Screen setting tool screen

This tool is to set display items and layout of the patient registration screen, list screen and so forth.



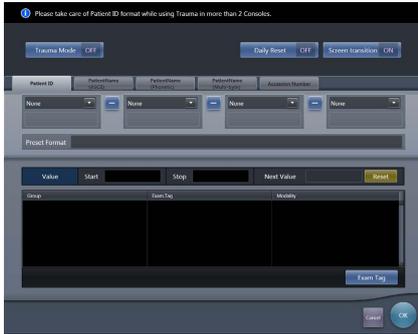
● Patient database tool screen

This tool is for editing the patient information registered in the database.



● **Trauma patient setting screen**

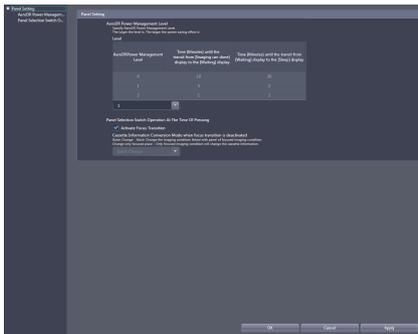
For setting the automatic number issuing function and default Exam. Tag for trauma patients.



[Panel] area

● **Panel setting tool screen**

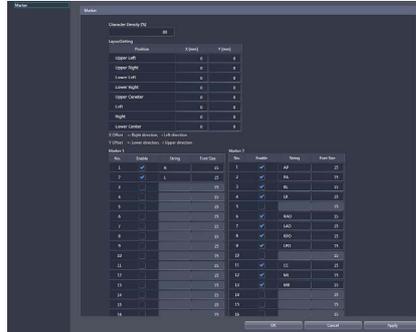
This tool is for setting the energy saving mode of the AeroDR Detector.



[Overlay] area

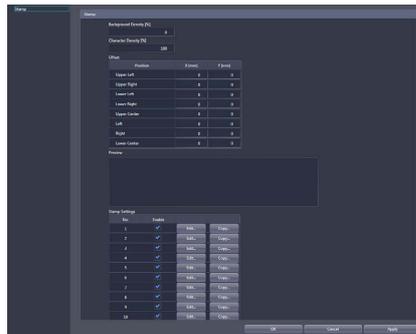
● **Marker setting tool screen**

This tool is for setting the marker to be overlaid on images.



● **Stamp setting tool screen**

This tool is for setting the stamp to be overlaid on images.



1.5 Function list of each tool screen

[Exam. Tag] area

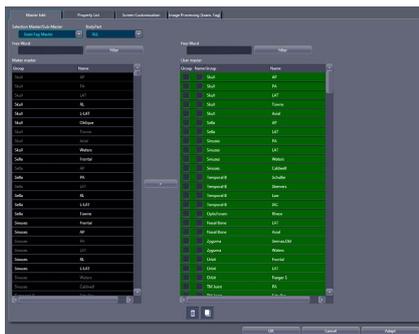
● Exam. Tag edit tool screen

This tool is for adding and editing the settings of the Exam. Tags.

The following 3 screens switch with tabs.

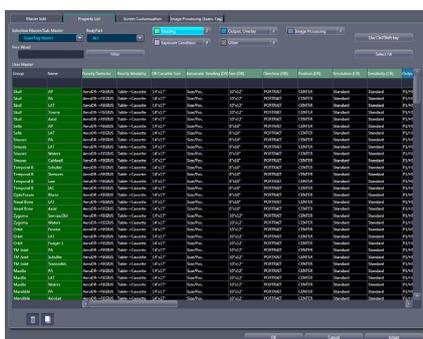
[Master Edit] screen

This tool is for adding Exam. Tags, that have been prepared in advance, to the system.



[Property List] screen

This tool is for editing the setting contents (property) of the Exam. Tags.



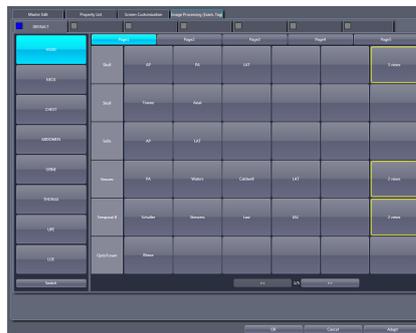
[Screen Customization] screen

This tool is for editing the placement of the Exam. Tag of the body part selection screen.



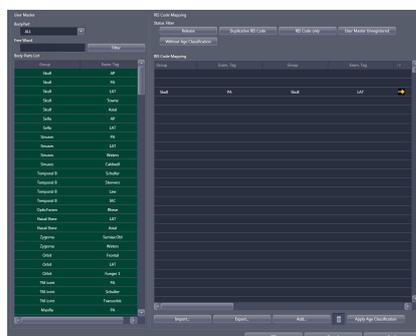
● [Image Processing (Exam. Tag)] screen

This tool is for adjusting the image processing parameters of the Exam. Tag.



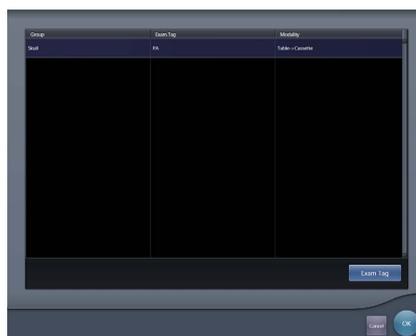
● RIS code mapping tool screen

This tool is for associating RIS codes from the RIS with codes for this device.



● Default Exam. Tag setting tool screen

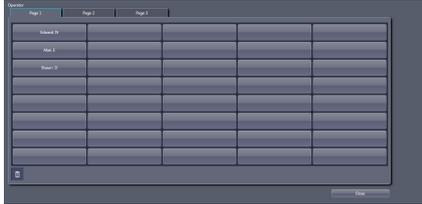
For selecting an Exam. Tag that is set for a default Exam. Tag.



[Hospital Information] area

● **Operator tool screen**

This tool is for registering and editing the selection of the name of the operator.



● **Department tool screen**

This tool is for registering and editing the selection of the hospital departments.



● **Location (Ward) tool screen**

This tool is for registering and editing the selection of the hospital wards.



● **Requesting physician registration tool screen**

This tool is for registering and editing the selection of the requesting physicians.



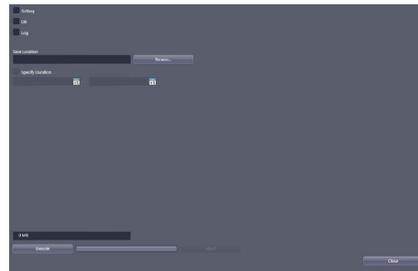
1.5.2 List of tool screens when [Backup/Restore] is selected

The tool screens displayed when [Backup/Restore] is selected are listed below.

[Backup] area

● **Backup tool screen**

This tool is for saving the settings of this device, patient information and logs.



[Restore] area

● **Restoring tool screen**

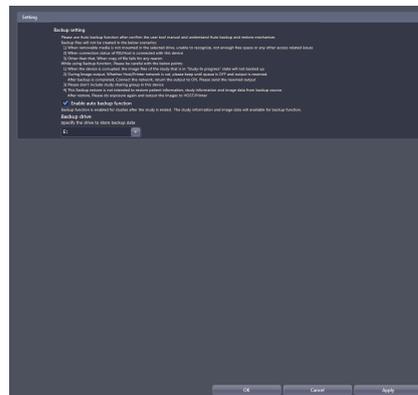
This tool is for restoring saved settings and patient information.



[Auto backup] area

● **Setting screen**

This screen is for enabling/disabling the auto backup function and setting the storage drive for backup data.



1.5 Function list of each tool screen

● Usage data maintenance screen

This screen is for restoring or deleting automatically backed up data.



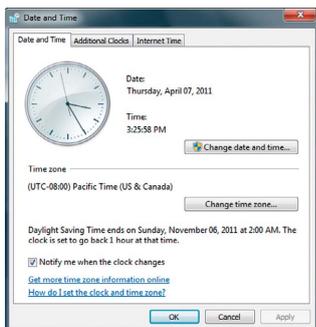
1.5.3 List of tool screens when [Adjustment] is selected

The tool screens displayed when [Adjustment] is selected are listed below.

[System] area

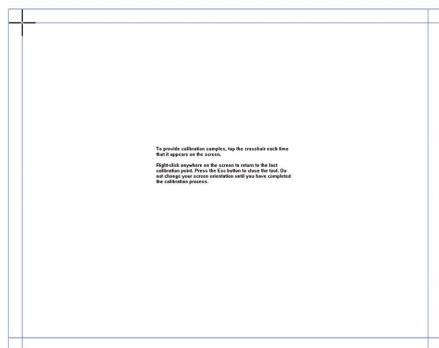
● [Date and Time] screen

This tool is for setting up the date and time.



● Touch panel adjustment screen

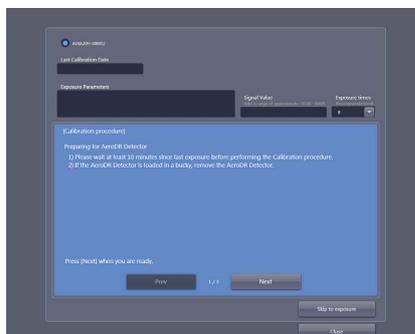
This tool is for adjusting the touch panel.



[Panel] area

● Calibration tool screen

This tool is for performing AeroDR Detector calibration.



[CS-7] area

This tool is for updating this device and displaying the version of this device and updated contents.



-
- This function can be used only when this device has been contracted for remote maintenance.
- This function is currently being adjusted.
-

[LongLen Unit] area

● AeroDR Stitching Unit adjusting tool screen

This tool is for adjusting the AeroDR Stitching Unit.



[REGIUS Σ] area

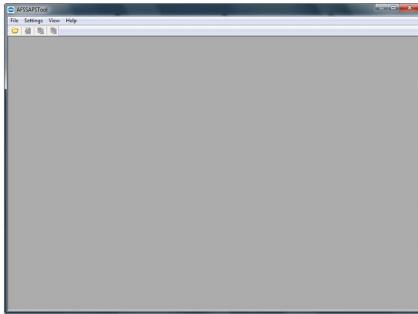
● Communication control information notification setting screen

This tool is for setting the notification procedure of the communication control information.



● **[AFSSAPSTool] screen**

This tool is for outputting raw images to the host. In addition, outputs the test pattern in DICOM file format to the printer and host.

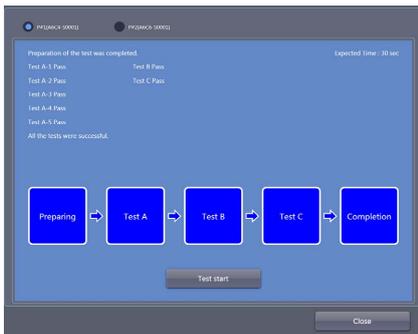


[Test] area

This tool is for performing the AeroDR Detector test.

● **Panel check tool screen**

This tool is for performing the AeroDR Detector test.



1.5.5 List of tools screens when [AeroRemote] is selected

The tool screens displayed when [AeroRemote] is selected are listed below.

[Image Quality] area

● **Image quality check results screen**

This tool is for displaying the results of the AeroRemote image quality check.



● **Image quality report selection screen**

This tool is for selecting an image quality report from the displayed list.



● **Image quality historical graph selection screen**

This tool is for selecting an image quality historical graph from the displayed list.



Chapter 2

Starting and Exiting from the User Tool

This chapter describes how to start and exit from the user tool.

2.1 • Startup and shutdown of the user tool

2.1.1 Startup of the user tool

The user tool is started from the patient registration screen or the list screen.

- 1 Press [System] on the patient registration screen or the list screen.

Patient registration screen

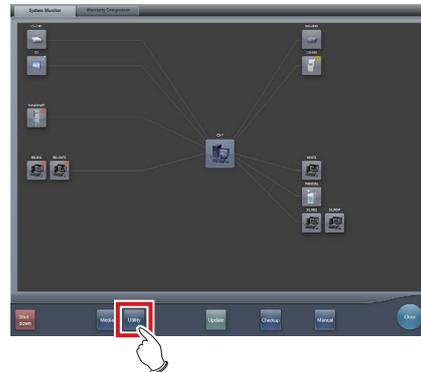


List screen



- The system monitor screen is displayed.

- 2 Press [Utility] on the system monitor screen.



- The password screen is displayed.

- 3 Input the password and press [OK].



- The user tool screen is displayed.

HINT

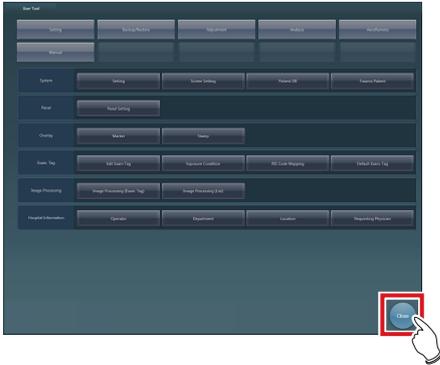
- Depending on the current settings, the password screen may not be displayed.

.....

2.1.2 Shutdown of the user tool

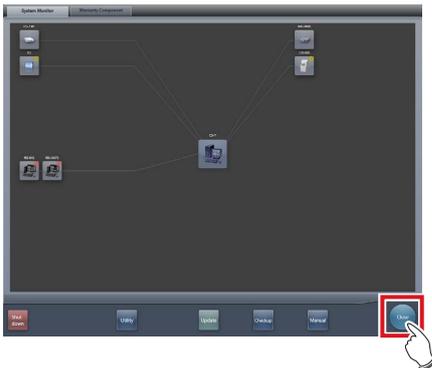
The user tool is exited from the user tool screen.

1 Press [Close].



- The system monitor screen is displayed.

2 Press [Close].



- The patient registration screen or the list screen is displayed.

Chapter 3

Tools When [Setting] Is Selected [System] Area

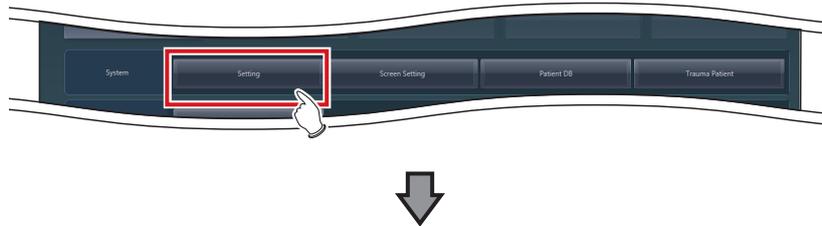
This chapter describes the tools in the [System] area displayed when [Setting] is selected.

3.1 • [Setting]

This tool is for confirming and editing the information of the institution and device.

3.1.1 CS-7 setting tool screen

When [Setting] of the [System] area is pressed, the CS-7 setting tool screen is displayed.



The screenshot shows the following settings and callouts:

- (1) Institution Information Setting
- (2) Device Information Setting
- (3) Login Setting
- (4) Patient Age Setting
- (5) Screen Saver Settings
- (6) Date Format
- (7) OK button
- (8) Cancel button
- (9) Apply button

Number	Name	Function
(1)	[Institution Information Setting]	For confirming and inputting the institution information.
(2)	[Device Information Setting]	For confirming and inputting the device information.

Number	Name	Function
(3)	[Login Setting]	Used to change the password of the user tool in Auto Login Mode.
(4)	[Patient Age Setting]	Used to set and edit the patient age information display.
(5)	[Screen Saver Settings]	For setting the screen saver.
(6)	[Date Format]	Sets the display format of date.
(7)	[OK]	Saves the settings and closes the screen.
(8)	[Cancel]	Closes the screen without saving the settings.
(9)	[Apply]	Saves the settings with the screen displayed.

● [Institution Information Setting]

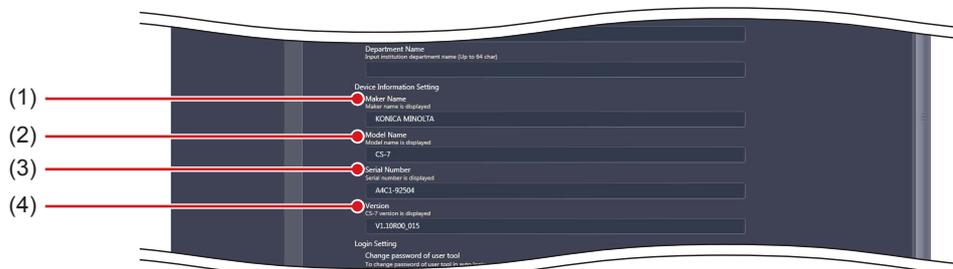
This is part of the CS-7 setting tool screen.



Number	Name	Function
(1)	[Institution Name]	The institution name, institution address, telephone number and department name registered at the time of purchase are displayed. You can input up to 64 characters for [Institution Name], up to 1,024 characters for [Institution Address] and up to 64 characters for [Department Name].
(2)	[Institution Address]	
(3)	[Telephone Number]	
(4)	[Department Name]	

● [Device Information Setting]

This is part of the CS-7 setting tool screen.



Number	Name	Function
(1)	[Maker Name]	Displays the name of the manufacturer.
(2)	[Model Name]	Displays the model name of this device.
(3)	[Serial Number]	Displays the serial number of the software.
(4)	[Version]	Displays the current version of the application for this device.

● [Login Setting]

This is part of the CS-7 setting tool screen.



Number	Name	Function
(1)	[Change password of user tool]	Used to change the user tool password in automatic login mode.

● [Patient Age Setting]

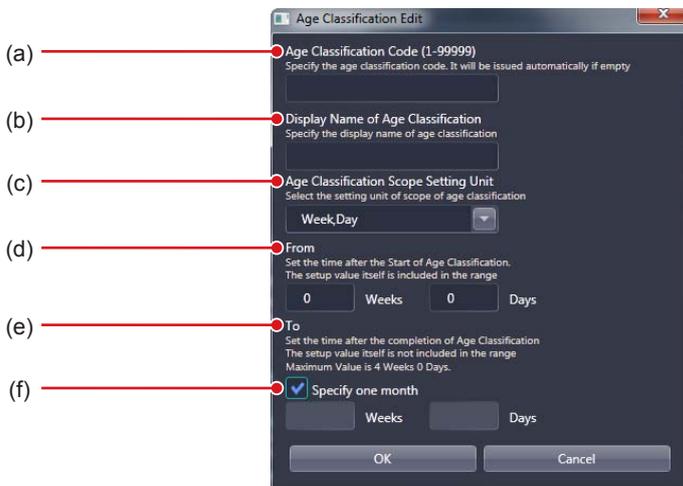
This is part of the CS-7 setting tool screen.



Number	Name	Function
(1)	[Update Method When Study is Started]	Select the method for updating the patient age when the study starts.
(2)	[Display Name of Default Age Classification]	When the applicable age category does not exist or the birth date is not registered, enter the display name of the age category.
(3)	[Age Classification]	Indicates the age category.
(4)	[Add...]	Used to add the age category data. Select this to display the age classification edit screen.
(5)	[Delete]	Deletes the selected age category data.
(6)	[Edit...]	Used to edit the selected age category data. Select this to display the age classification edit screen.

HINT

- If you press [Add...] or [Edit...], the following dialog box is displayed.



Number	Name	Function
(a)	[Age Classification Code]	Sets the age classification code. If not filled in, a number will be automatically issued.
(b)	[Display Name of Age Classification]	Enter the name that indicates the age category.
(c)	[Age Classification Scope Setting Unit]	Select the unit that is used to set the age category range.
(d)	[From]	Enter the time that has elapsed from the birth at the start of the study that is shown in the age category. It includes the set value itself.
(e)	[To]	Enter the time that has elapsed from the birth at the end of the study that is shown in the age category. It does not include the set value itself. When [Week, Day] is selected in [Age Classification Scope Setting Unit], the maximum value is "4 Weeks 0 Days".
(f)	[Specify one month]	Selects a month for the age category range setting unit. Displayed only when [Week, Day] is selected in [Age Classification Scope Setting Unit].

● **[Screen Saver Settings]**

This is part of the CS-7 setting tool screen.



Number	Name	Function
(1)	[Activate screen saver]	Select when using a screen saver.
(2)	[Waiting Time [sec] (60-3600)]	For entering the time until the screen saver starts. The setting value should be between 60 and 3,600 seconds inclusive.
(3)	[Auto logoff after exit screen saver]	Displays the login screen after returning from the screen saver.
(4)	[Screen Saver should be deactivated while exposure screen is displayed]	The screen saver is deactivated while the exposure screen is displayed.

IMPORTANT

- If you will use a PDA, do not set [Auto logoff after exit screen saver] to [ON].
- If you will use a PDA on a device operating in the basic connection configuration, do not set [Activate screen saver] to [ON].

● **[Date Format]**

This is part of the CS-7 setting tool screen.



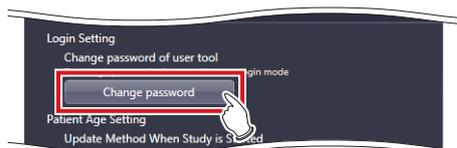
Number	Name	Function
(1)	[Date Format]	Used to select the date and time format.

3.1.2 Operation of the [Login Setting] screen

The procedure for changing the user tool password is as follows.

● Changing the user tool password

1 Press [Change password].



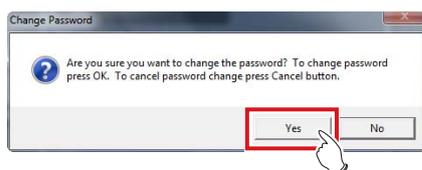
- The password change dialog is displayed.

2 Enter the current password and a new password in the password change dialog, then press [OK].



- A confirmation screen is displayed.

3 Press [Yes].



- The password is changed and the display returns to the CS-7 setting tool screen.

3.1.3 Operating the [Patient Age Setting] screen

The following describes the patient age editing procedure.

● Addition of an age category

1 Press [Add...].



- The age category editing screen is displayed.

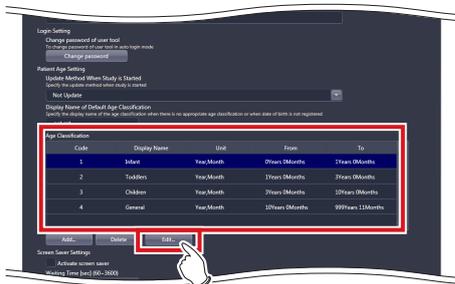
2 Enter the desired age category and press [OK].



- The data is added and the display returns to the CS-7 setting tool screen.

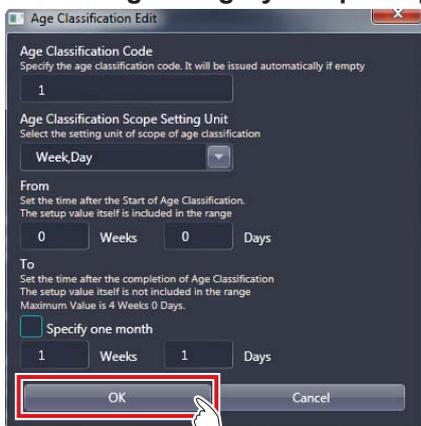
● Edit of age category

1 Select the data you want to edit from [Age Classification] and [Edit...].



- The age category editing dialog is displayed.

2 Edit the age category and press [OK].



- The data is edited and the display returns to the CS-7 setting tool screen.

HINT

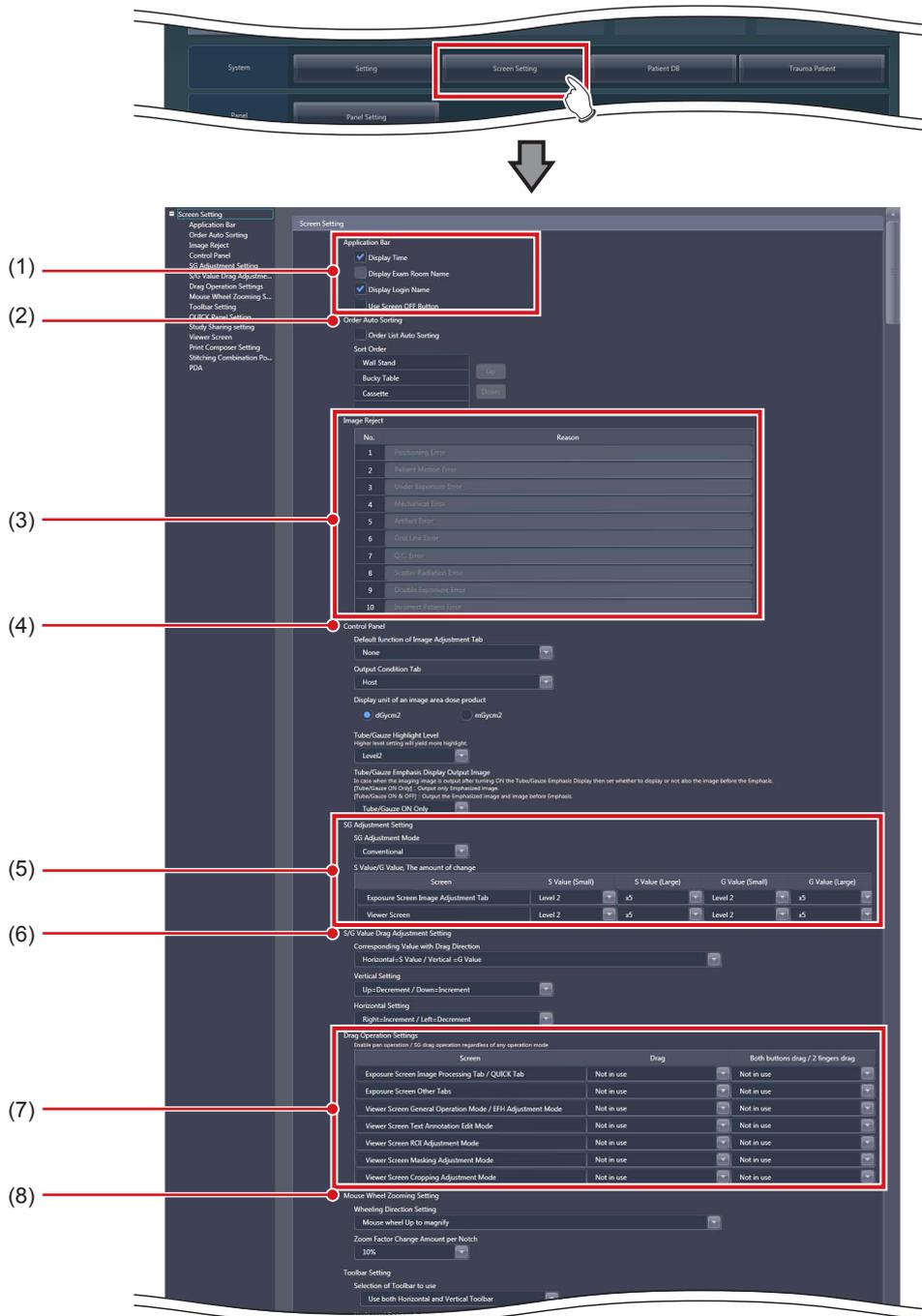
- If an overlap occurs among the periods set for the items on the age classification edit screen, an error message is displayed.
 - You can edit only one age category at a time. [Edit...] cannot be selected if two or more data are selected in [Age Classification].
-

3.2 • [Screen Setting]

This tool is for setting display items and layout of the patient registration screen, list screen and so forth.

3.2.1 Screen setting tool screen

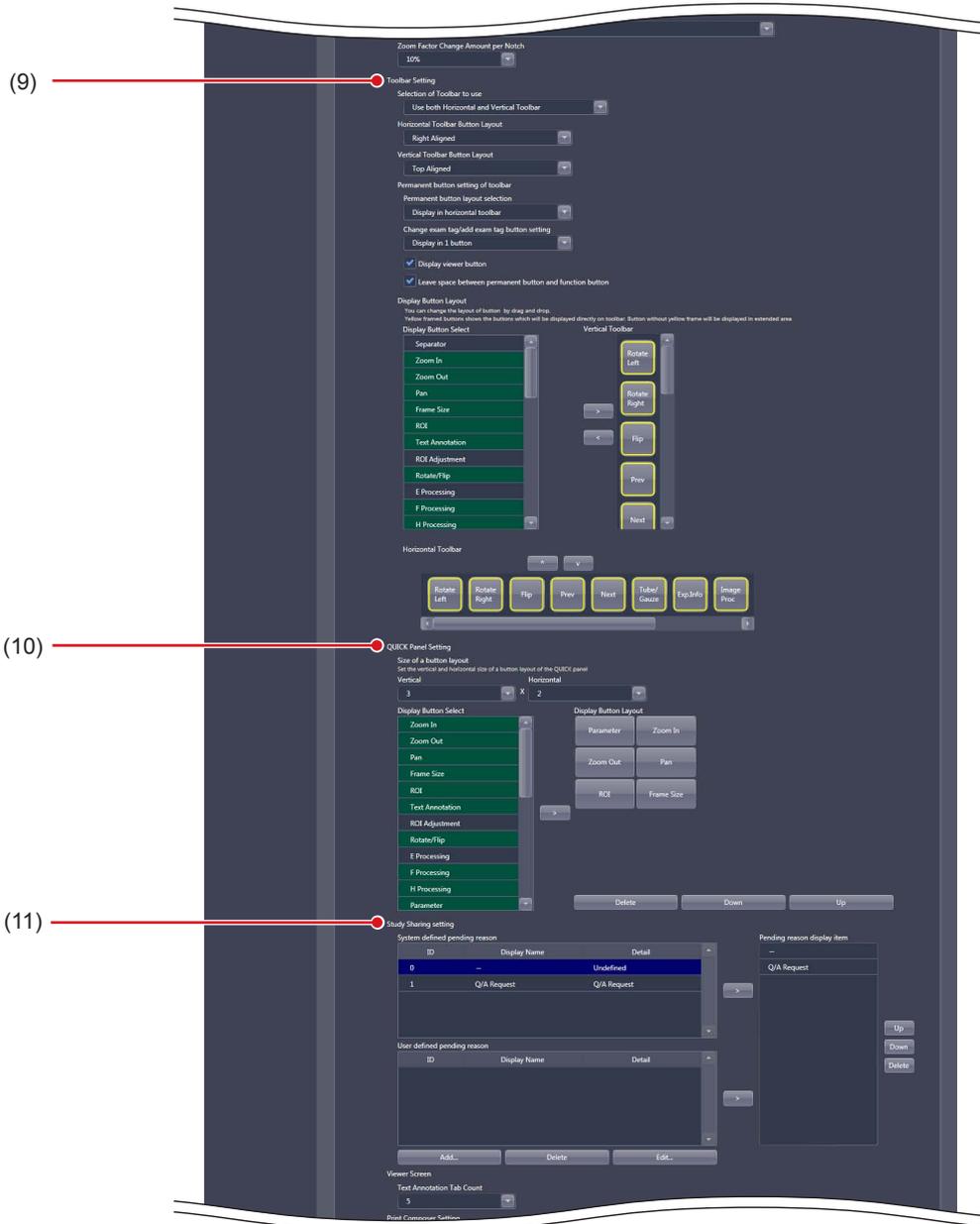
When [Screen Setting] of the [System] area is pressed, the screen setting tool screen is displayed.



Number	Name	Function
(1)	[Application Bar]	For setting the display contents of the application bar.
(2)	[Order Auto Sorting]	For setting automatic sort of Exam. Tags and exposure screens.

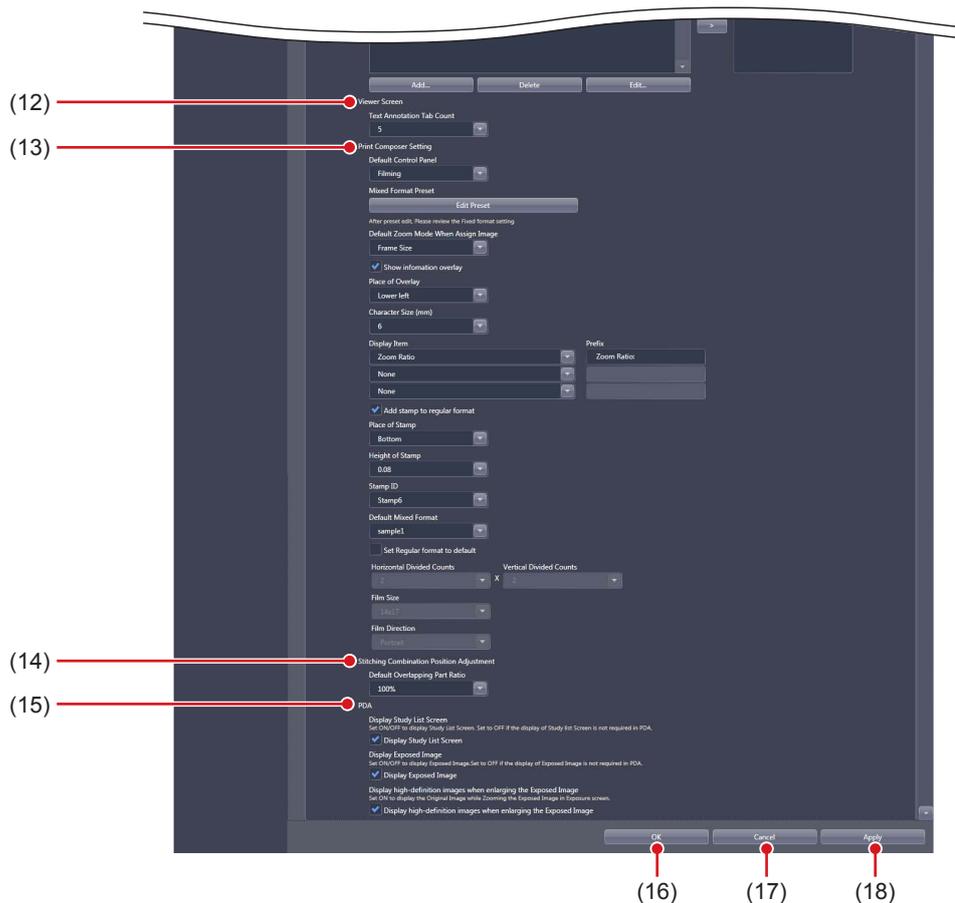
3.2 [Screen Setting]

Number	Name	Function																		
(3)	[Image Reject]	For setting reject reasons. Up to 10 reasons can be set. When making this function enabled, contact Konica Minolta technical representatives.																		
(4)	[Control Panel]	For selecting the setting of the [Image Proc] tab and [Output] tab, the highlight level of the highlight function for the tube/gauze, or the setting of the image to be output.																		
(5)	[SG Adjustment Setting]	<p>Set the sync mode to be used when adjusting S and G values as well as the variation caused when you press the button.</p> <p> HINT</p> <ul style="list-style-type: none"> The degree of change of each level when the button is pressed are as follows. <table border="1"> <thead> <tr> <th>Level</th> <th>S value (Density when S value = 200 and G value = 2/S value change ratio)</th> <th>G value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Density about 0.005/about 1%</td> <td>About 1%</td> </tr> <tr> <td>2</td> <td>Density about 0.01/about 2%</td> <td>About 2%</td> </tr> <tr> <td>3</td> <td>Density about 0.02/about 10%</td> <td>About 3%</td> </tr> <tr> <td>4</td> <td>Density about 0.05/about 20%</td> <td>About 5%</td> </tr> <tr> <td>5</td> <td>Density about 0.1/about 50%</td> <td>About 10%</td> </tr> </tbody> </table>	Level	S value (Density when S value = 200 and G value = 2/S value change ratio)	G value	1	Density about 0.005/about 1%	About 1%	2	Density about 0.01/about 2%	About 2%	3	Density about 0.02/about 10%	About 3%	4	Density about 0.05/about 20%	About 5%	5	Density about 0.1/about 50%	About 10%
Level	S value (Density when S value = 200 and G value = 2/S value change ratio)	G value																		
1	Density about 0.005/about 1%	About 1%																		
2	Density about 0.01/about 2%	About 2%																		
3	Density about 0.02/about 10%	About 3%																		
4	Density about 0.05/about 20%	About 5%																		
5	Density about 0.1/about 50%	About 10%																		
(6)	[S/G Value Drag Adjustment Setting]	Set the direction of drag that is used to change the S value and the G value.																		
(7)	[Drag Operation Settings]	Set the operation when you drag the S value and the G value on the exposure screen/viewer screen using a single mouse button or both right- and left-hand mouse buttons.																		
(8)	[Mouse Wheel Zooming Setting]	Specify how the zoom in/out are to be executed when the mouse wheel is rotated.																		



Number	Name	Function
(9)	[Toolbar Setting]	Set the layout of the tool bar on the exposure screen and the types of buttons to be displayed in the tool bar.
(10)	[QUICK Panel Setting]	For setting the button arrangement in the custom area for the [QUICK] tab.
(11)	[Study Sharing setting]	For checking and editing the pending reason for examination sharing.

3.2 [Screen Setting]



Number	Name	Function
(12)	[Viewer Screen]	For selecting the number of annotation tabs.
(13)	[Print Composer Setting]	Specify the settings that are enabled by default when the print composer is used.
(14)	[Stitching Combination Position Adjustment]	When combining stitching images, select the displayed transmittance of the overlapped portion that is enabled by default.
(15)	[PDA]	Specify the settings related to screen display of the PDA.
(16)	[OK]	Saves the settings and closes the screen setting tool screen.
(17)	[Cancel]	Closes the screen setting tool screen without saving the settings.
(18)	[Apply]	Saves the settings with the screen setting tool screen displayed.

● [Application Bar]

This is part of the screen setting tool screen.



Number	Name	Function
(1)	[Display Time]	Displays the time on the application bar.
(2)	[Display Exam Room Name]	Displays the exposure room name on the application bar.
(3)	[Display Login Name]	Displays the login name on the application bar.
(4)	[Use Screen OFF Button]	Displays the screen off icon on the application bar and enables the screen off function.

IMPORTANT

- If you will use a PDA on a device operating in the basic connection configuration, do not set [Use Screen OFF Button] to [ON].

The setting of [Application Bar] is reflected in the application bar of the patient registration screen, list screen, body part selection screen, exposure screen, and viewer screen. Here, the patient registration screen is described as an example.

Patient registration screen



(Example) When all are selected

Time Login name Exposure room name



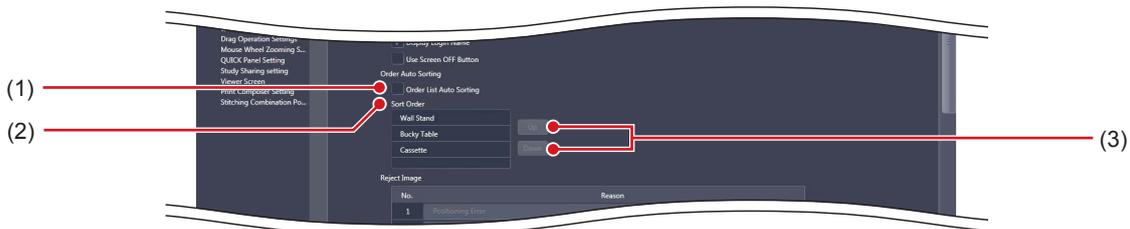
(Example) When all selections are released



3.2 [Screen Setting]

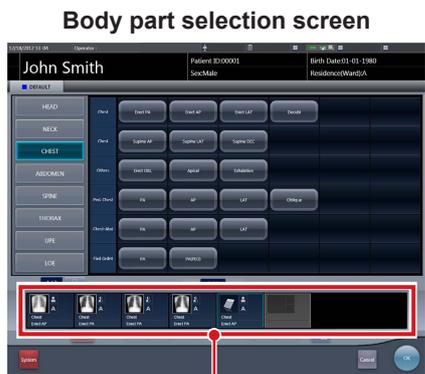
● [Order Auto Sorting]

This is part of the screen setting tool screen.



Number	Name	Function
(1)	[Order List Auto Sorting]	After the selection, sort the Exam. Tags and exposed images according to the condition.
(2)	[Sort Order]	Displays the orders of Exam. Tags and exposure screens.
(3)	[Up]/[Down]	For setting the orders of Exam. Tags and exposure screens.

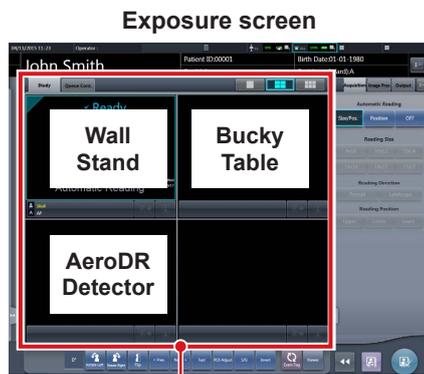
The setting of [Order Auto Sorting] is reflected in the Exam. Tag display area of the body part selection screen and the work area of the exposure screen.



Exam. Tag display area

(Example) When [Wall Stand], [Bucky Table] and [AeroDR Detector] are set in sequence

Exam. Tags are registered in the order of wall stand, table, and AeroDR Detector.



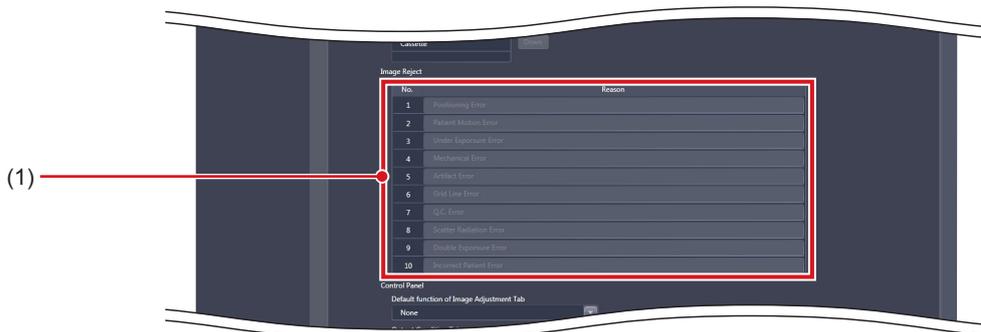
Work area

(Example) When [Wall Stand], [Bucky Table] and [AeroDR Detector] are set in sequence

Exposure images are displayed in the order of wall stand, table, and AeroDR Detector.

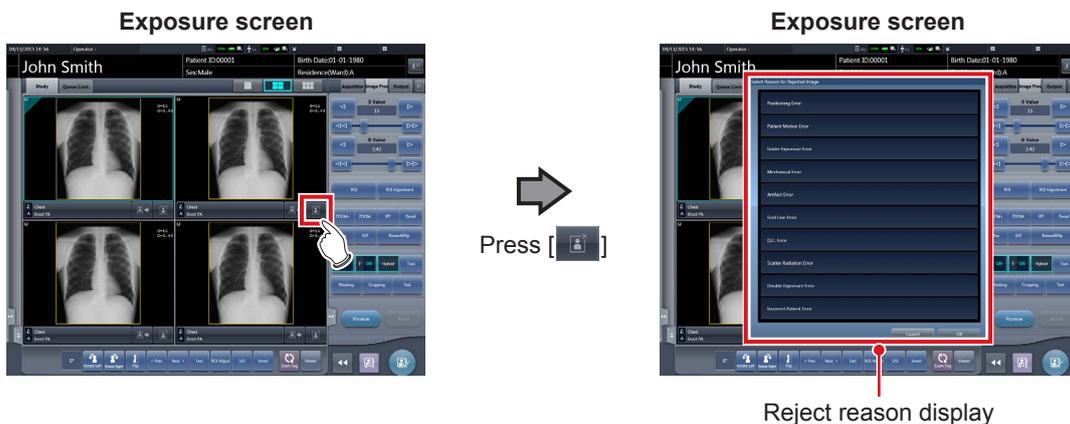
● [Image Reject]

This is part of the screen setting tool screen.



Number	Name	Function
(1)	Reject reason list	For setting reject reasons. Up to 10 reasons can be set. When enabling these functions, contact Konica Minolta technical representatives.

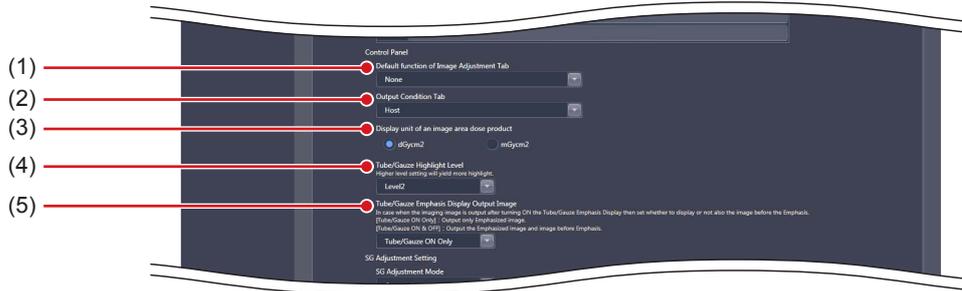
The setting of the reject reason list is reflected in the reject reason display of the exposure screen.



3.2 [Screen Setting]

● [Control Panel]

This is part of the screen setting tool screen.

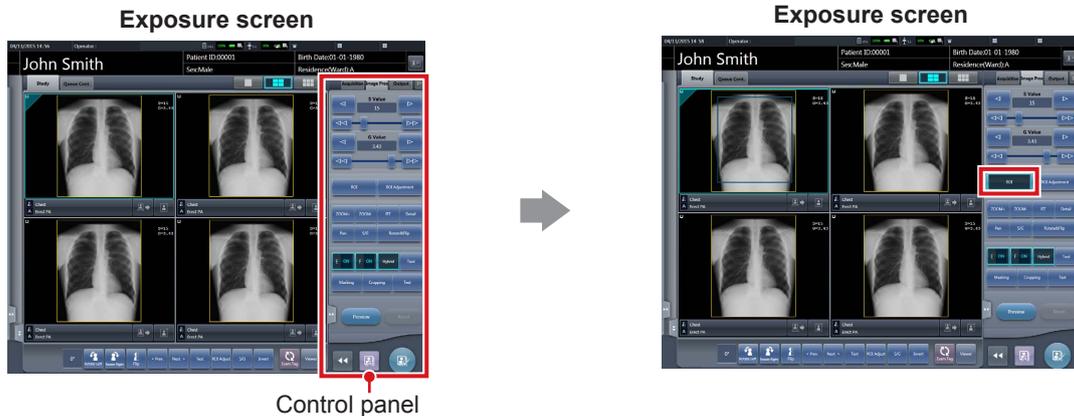


Number	Name	Function
(1)	[Default function of Image Adjustment Tab]	For selecting the image adjustment function that is enabled by default when the [Image Adjustment] tab is selected.
(2)	[Output Condition Tab]	For selecting the output condition that is enabled by default when the [Output Condition] tab is selected.
(3)	[Display unit of an image area dose product]	For selecting the display unit of an image area dose product.
(4)	[Tube/Gauze Highlight Level]	Sets the level to highlight tube/gauze.
(5)	[Tube/Gauze Emphasis Display Output Image]	When outputting a tube/gauze highlighted image, specify whether or not to output the previous image. [Tube/Gauze ON Only]: Output only emphasized images. [Tube/Gauze ON & OFF]: Output emphasized images and images before emphasis.

HINT

- The SOP Instance UID of image before emphasis is different from the one of emphasized image. Each RIS Image Number is the same.

The setting of [Control Panel] is reflected in the control panel of the exposure screen.



(Example) When [Disabled] is selected with [Default Function of Image Adjustment Tab]

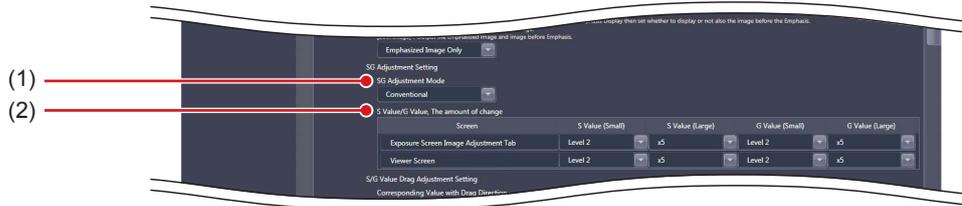
Nothing is displayed.

(Example) When [ROI] is selected with the [Default function of Image Adjustment Tab]

[ROI] is selected by default.

● [SG Adjustment Setting]

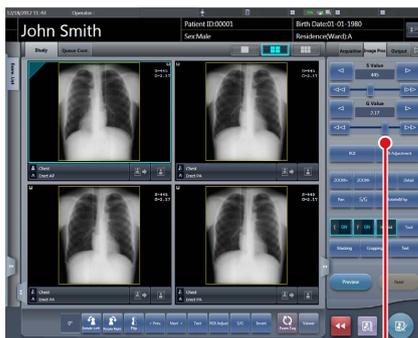
This is part of the screen setting tool screen.



Number	Name	Function
(1)	[SG Adjustment Mode]	Set the sync mode used when adjusting S and G values.
(2)	[S Value/G Value, The amount of change]	Specify the degree of change when pressing the S value and G value adjusting button on each screen. Specify it in the range of [Level 1] to [Level 5] in [S Value (Small)] and [G Value (Small)]. [Level 5] causes the biggest degree of change. And specify the degree of change when pressing the large S/G values shifter button. Specify it in the range of [x2] to [x20] in [S Value (Large)] and [G Value (Large)]. If you select [x20] and press the large S/G values shifter button, the degree of change is 20 times that of [S Value (Small)] or [G Value (Small)].

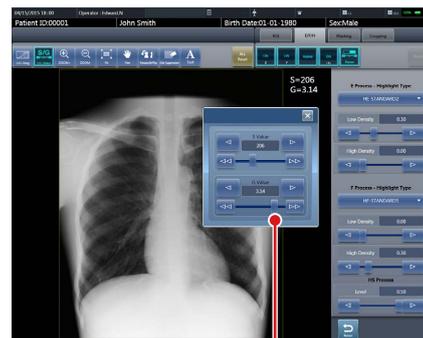
The [S Value/G Value, The amount of change] setting is reflected in the speed of the exposure screen slider, when [Image Adjustment] tab is selected, and in the speed of the viewer screen slider.

Exposure screen



Slider

Viewer screen



Slider

HINT

- If you select [Conventional] in [SG Adjustment Mode], adjustment of G values causes a change in S value. If you select [Density/Contrast], adjustment of G values does not cause a change in S value. The default setting is [Conventional].

● **[S/G Value Drag Adjustment Setting]**

This is part of the screen setting tool screen.



Number	Name	Function
(1)	[Corresponding Value with Drag Direction]	Select the direction in which the S value and G value are changed on each screen.
(2)	[Vertical Setting]	Select the increment and decrement when you drag the S value and G value vertically.
(3)	[Horizontal Setting]	Select the increment and decrement when you drag the S value and G value horizontally.

● **[Drag Operation Settings]**

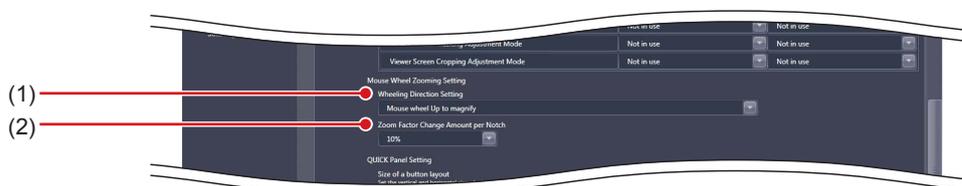
This is part of the screen setting tool screen.



Number	Name	Function
(1)	[Exposure Screen Image Processing Tab / QUICK Tab]	Select the operation when you drag the S value and G value on each screen using a single mouse button or both buttons.
(2)	[Exposure Screen Other Tabs]	
(3)	[Viewer Screen General Operation Mode / EFH Adjustment Mode]	
(4)	[Viewer Screen Text Annotation Edit Mode]	
(5)	[Viewer Screen ROI Adjustment Mode]	
(6)	[Viewer Screen Masking Adjustment Mode]	
(7)	[Viewer Screen Cropping Adjustment Mode]	

● **[Mouse Wheel Zooming Setting]**

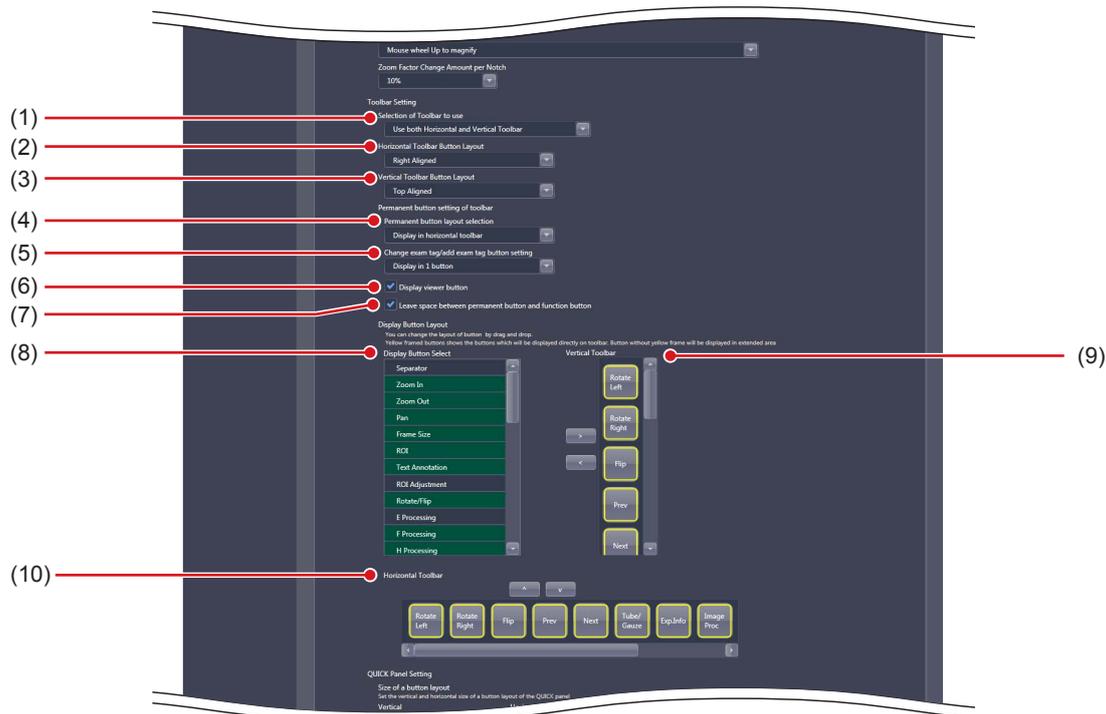
This is part of the screen setting tool screen.



Number	Name	Function
(1)	[Wheeling Direction Setting]	Specify how the zoom in/out are to be executed when the mouse wheel is rotated.
(2)	[Zoom Factor Change Amount per Notch]	Specify the degree of change per notch in the range of [5%] to [50%].

● [Toolbar Setting]

This is part of the screen setting tool screen.



Number	Name	Function
(1)	[Selection of Toolbar to use]	Set the layout of the tool bar to be displayed on the exposure screen. Select [Use Horizontal Toolbar], [Use Vertical Toolbar], or [Use both Horizontal and Vertical Toolbar].
(2)	[Horizontal Toolbar Button Layout]	Set the layout of the buttons in the tool bar when the horizontal tool bar is used. Select [Right Aligned] or [Left Aligned].
(3)	[Vertical Toolbar Button Layout]	Set the layout of the buttons in the tool bar when the vertical tool bar is used. Select [Top Aligned] or [Bottom Aligned].
(4)	[Permanent button layout selection]	Set to use the horizontal or vertical tool bar for the buttons that always appear in the tool bar.
(5)	[Change exam tag/add exam tag button setting]	Set to display the change exam tag/add exam tag button as one button or two buttons.
(6)	[Display viewer button]	The [Viewer] button is always displayed in the tool bar when selected.
(7)	[Leave space between permanent button and function button]	One or more spaces are inserted between the permanent buttons and other buttons when selected.
(8)	[Display Button Select]	Select the buttons to be displayed in the tool bar. The selected item is highlighted in green.
(9)	[Vertical Toolbar]	Set the button layout in the vertical tool bar. You can use drag & drop to move a button within the tool bar, or to move a button between the vertical and horizontal tool bars. Pressing [>] places the item selected in [Display Button Select] in the vertical tool bar. Pressing [<] cancels the placing of the selected item.
(10)	[Horizontal Toolbar]	Set the button layout in the horizontal tool bar. Pressing [V] places the item selected in [Display Button Select] in the horizontal tool bar. Pressing [^] cancels the placing of the selected item. You can use drag & drop to move a button within the tool bar, or to move a button between the vertical and horizontal tool bars.

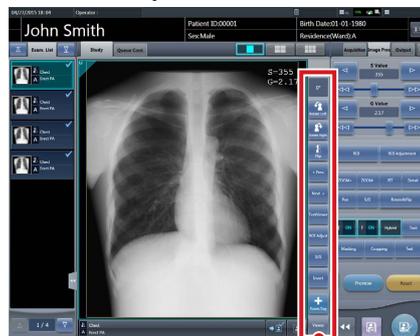
The [Toolbar Setting] setting is reflected in the tool bar layout on the exposure screen, and the button layout within the tool bar.

Exposure screen



Horizontal tool bar

Exposure screen



Vertical tool bar

If some of the buttons cannot be displayed,  is displayed. Pressing  expands the tool bar area and displays all buttons.

For horizontal tool bar



For vertical tool bar



IMPORTANT

- Among the items that can be selected in [Display Button Select], the items common to [Toolbar Setting] and [QUICK Panel Setting] can only be selected in either [Toolbar Setting] or [QUICK Panel Setting]. If an item is selected as a button to be displayed in one setting, it cannot be selected in the other.

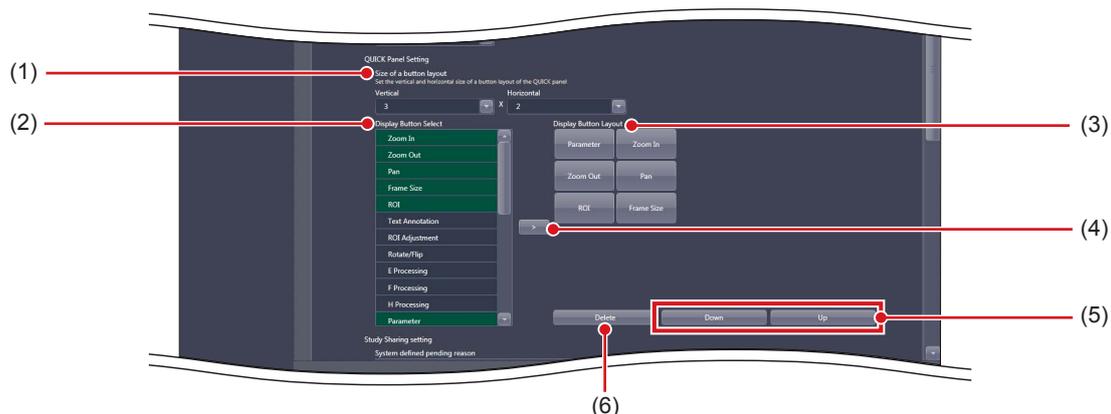
**HINT**

- The [Exam. Tag] buttons can be switched by holding down this button while either one of the buttons is displayed. The [Left Rotate]/[Right Rotate] buttons can be switched in the same manner.
- If the setting is changed to use either the horizontal or vertical tool bar after both the horizontal and vertical tool bars are used, the buttons displayed in the unused tool bar are moved to the remaining tool bar. Such buttons are displayed at the end of the buttons set in the remaining tool bar.
- Although most of the items displayed in [Display Button Select] are common with [QUICK Panel Setting], the following items are only displayed in [Toolbar Setting].

Name	Function
Separator	Inserts a space between functional buttons in the tool bar. Continuous setting is possible. Buttons can be inserted into up to 50 positions each on the vertical and horizontal tool bars.
QUICK	Displays the custom tab.
Flip	Flips the image.
Right Rotate	Turns the image to the right.
Left Rotate	Turns the image to the left.
ALL Reset	Resets rotation/flip and various image adjustments, and restores the system to the status in which the image was displayed.
Viewer	Displays the viewer screen.
< Prev.	Displays the previous image.
Next >	Displays the next image.
Status display	Displays the current rotation status by the angle value.

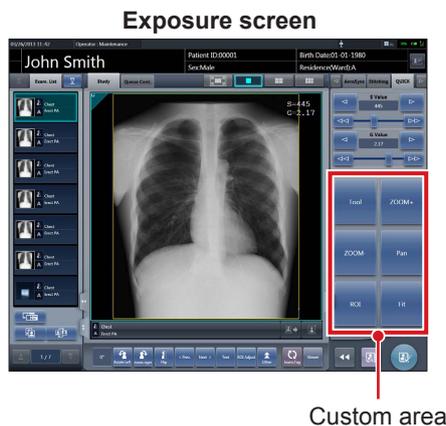
● [QUICK Panel Setting]

This is part of the screen setting tool screen.



Number	Name	Function
(1)	[Size of a button layout]	For setting a number of buttons to be arranged in the custom area at [QUICK] tab selection.
(2)	[Display Button Select]	Displays the buttons which can be arranged in the custom area at [QUICK] tab selection. The background of the characters for a function located to the button turns green.
(3)	[Display Button Layout]	Displays the buttons which are to be displayed in the custom area at [QUICK] tab selection.
(4)	[>]	Copies the buttons selected using [Display Button Select] to [Display Button Layout].
(5)	[Down]/[Up]	For setting the order of the buttons to be displayed.
(6)	[Delete]	Deletes the selected button.

The [QUICK Panel Setting] setting is reflected in the button layout of the custom area at [QUICK] tab selection.



IMPORTANT

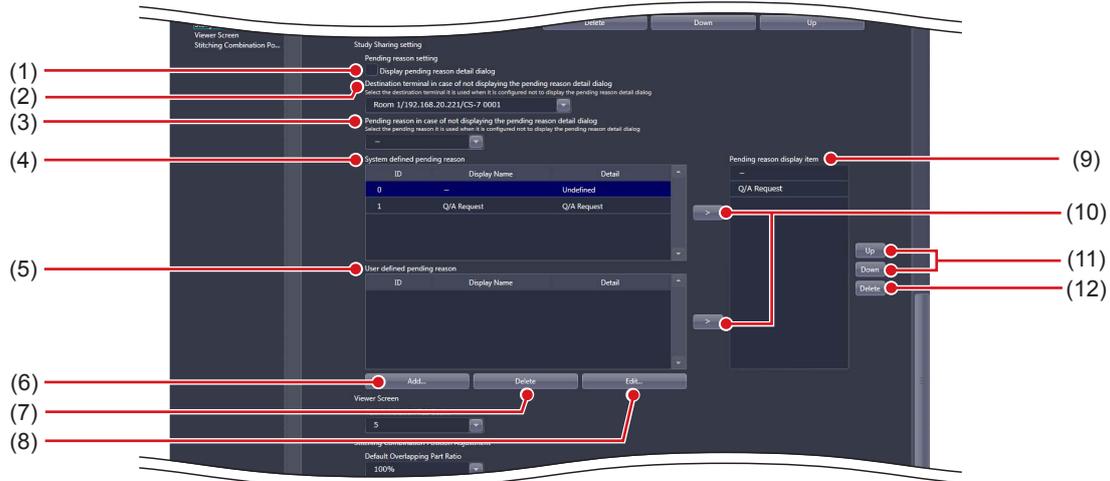
- Among the items that can be selected in [Display Button Select], the items common to [Toolbar Setting] and [QUICK Panel Setting] can only be selected in either [Toolbar Setting] or [QUICK Panel Setting]. If an item is selected as a button to be displayed in one setting, it cannot be selected in the other.

HINT

- Selecting [Display Button Select] can select the shortcut to the control panel.

● [Study Sharing setting]

This is part of the screen setting tool screen.

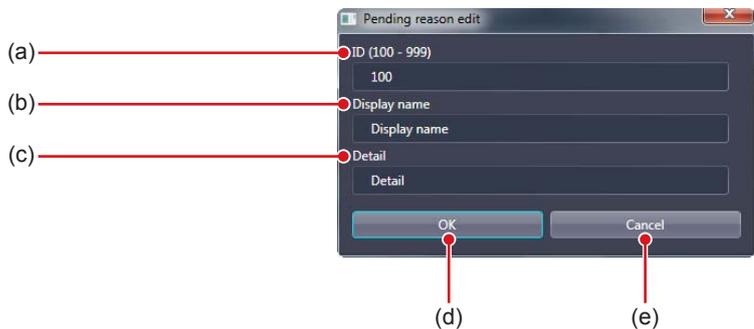


Number	Name	Function
(1)	[Display pending reason detail dialog]	Displays the pending reason detail dialog.
(2)	[Destination terminal in case of not displaying the pending reason detail dialog]	For selecting the destination terminal when the system has been set to hide the pending reason detail dialog.
(3)	[Pending reason in case of not displaying the pending reason detail dialog]	For selecting the pending reason when the system has been set to hide the pending reason detail dialog.
(4)	[System defined pending reason]	The pending reason registered as a default. ([Display Name] and [Detail] cannot be edited or deleted.)
(5)	[User defined pending reason]	Displays a pending reason that an user has added.
(6)	[Add...]	For adding a pending reason. Select this to display the pending reason edit dialog.
(7)	[Delete]	Deletes the selected pending reason.
(8)	[Edit...]	For editing the selected pending reason. Select this to display the pending reason edit dialog.
(9)	[Pending reason display item]	Displays the pending reason to be displayed in the list screen and exposure screen.
(10)	[>]	Copies the pending reason selected from [System defined pending reason] or [User defined pending reason] to [Pending reason display item].
(11)	[Up]/[Down]	For setting the order of pending reason to be displayed.
(12)	[Delete]	Deletes the selected pending reason.

3.2 [Screen Setting]

HINT

- If you press [Add...] or [Edit...], the following dialog box is displayed.



Number	Name	Function
(a)	[ID]	For entering the pending reason ID. You can only enter the ID when you press [Add...] and the patient information editing screen is displayed. You cannot enter the ID if you press [Edit...]. You can enter from 100 to 999.
(b)	[Display name]	For entering the pending reason name.
(c)	[Detail]	For entering a description of the pending reason.
(d)	[OK]	Saves the settings and closes the screen.
(e)	[Cancel]	Closes the screen without saving the settings.

The [Study Sharing setting] settings are reflected in the list screen, when [Study Sharing] is selected, and in the pending reason detail dialog of the exposure screen.

List screen



Pending reason

Exposure screen



Pending reason

● [Viewer Screen]

This is part of the screen setting tool screen.



Number	Name	Function
(1)	[Text Annotation Tab Count]	For selecting the number of annotation tabs.

The setting of [Text Annotation Tab Count] is reflected in the number of annotation tabs of the viewer screen.

Viewer screen



(Example) When [01] is selected with [Text Annotation Tab Count]

The annotation tab is not displayed.

Viewer screen



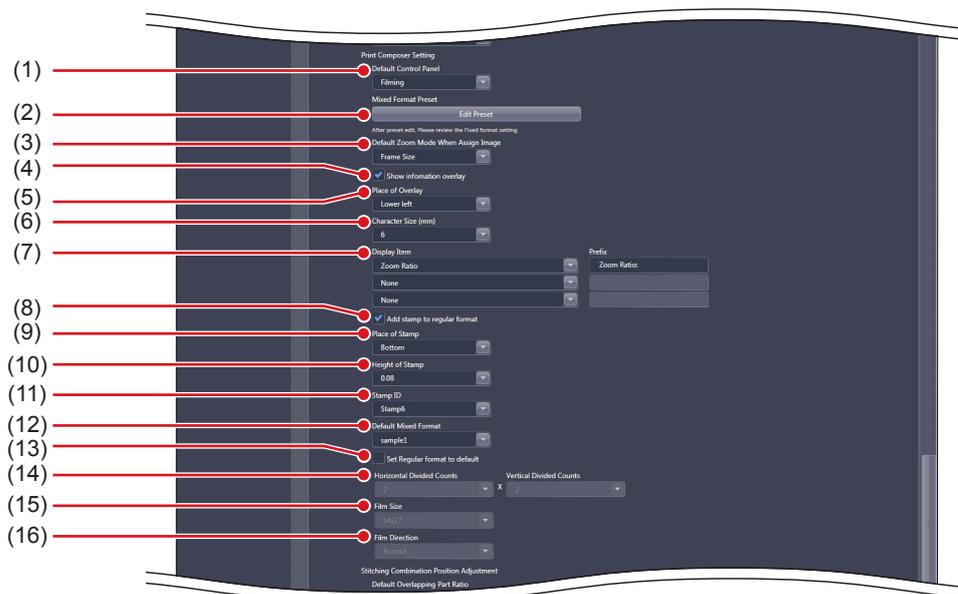
Annotation tab

(Example) When [05] is selected with [Text Annotation Tab Count]

The annotation tab is set to 5.

● [Print Composer Setting]

This is part of the screen setting tool screen.



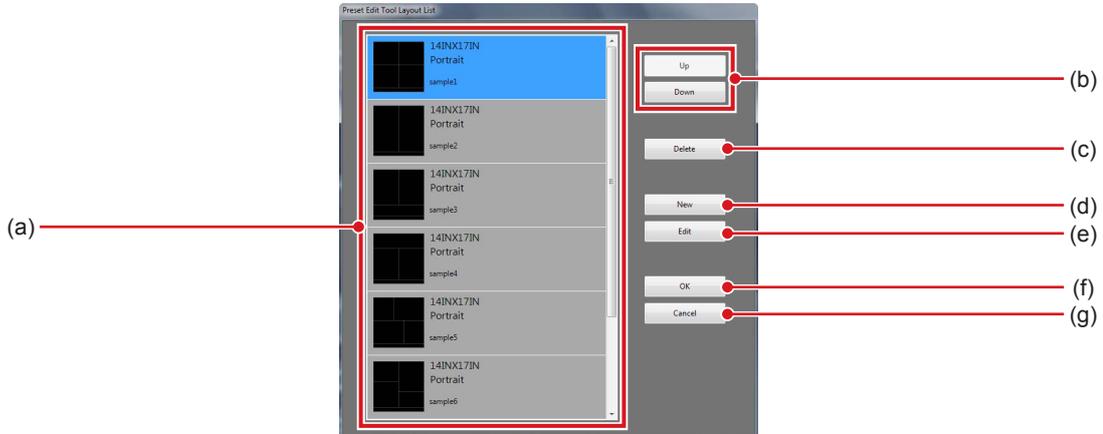
Number	Name	Function
(1)	[Default Control Panel]	Set the control panel that is displayed by default.
(2)	[Edit Preset]	Select this to display the Preset Edit Tool Layout List screen.
(3)	[Default Zoom Mode When Assign Image]	Set the size of the exposed image when allocating it to the image box.
(4)	[Show information overlay]	Selecting this to overlay information such as study time/date and accession number on the Print Composer screen.
(5)	[Place of Overlay]	Set the overlay position of the magnification/reduction ratio.
(6)	[Character Size (mm)]	Set the font size of the magnification ratio overlay.
(7)	[Display Item]/[Prefix]	Set the caption label. Set [Display Item] and then input [Prefix].
(8)	[Add stamp to regular format]	Selecting this allocates the stamp when the standard format is applied.
(9)	[Place of Stamp]	Set the stamp position.
(10)	[Height of Stamp]	Set the stamp height.
(11)	[Stamp ID]	Set the stamp to be allocated.
(12)	[Default Mixed Format]	Set the non-standard format that is applied by default.
(13)	[Set Regular format to default]	Selecting this can apply the standard format by default. Selecting this disables [Default Mixed Format].
(14)	[Horizontal Divided Counts]/[Vertical Divided Counts]	Set the division number of the standard format.
(15)	[Film Size]	Set the film size of the standard format.
(16)	[Film Direction]	Set the film direction of the standard format.

IMPORTANT

- [Show zoom ratio] and [Place of Overlay] are reflected in every image box of the print composer.

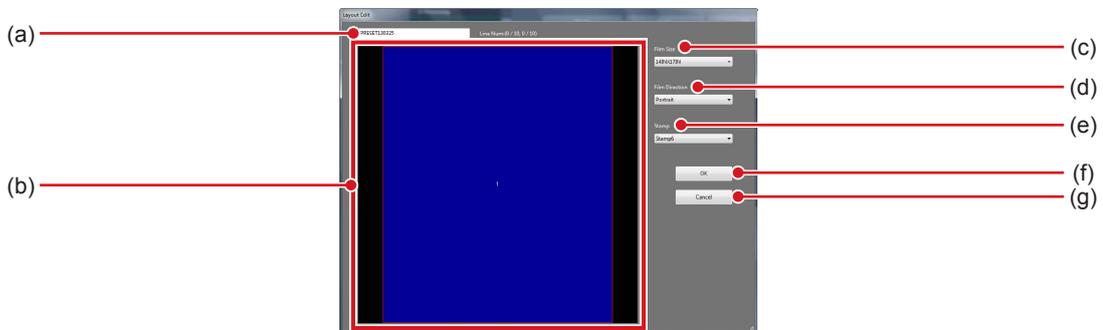
HINT

- Press [Edit Preset] to display the Preset Edit Tool Layout List screen.



Number	Name	Function
(a)	Preset list	The added preset is displayed.
(b)	[Up]/[Down]	Set the sequence of the presets you want to display.
(c)	[Delete]	Deletes the selected preset.
(d)	[New]	Adds a preset. Select this to display the Layout Edit screen.
(e)	[Edit]	Edit the selected preset. Select this to display the Layout Edit screen.
(f)	[OK]	Save the settings and close the Preset Edit Tool Layout List screen.
(g)	[Cancel]	Closes the Preset Edit Tool Layout List screen without saving the settings.

- Layout Edit screen is displayed if you press [New] or [Edit] on the Preset Edit Tool Layout List screen.



Number	Name	Function
(a)	Layout name	Enter the name of the preset. Use up to 16 characters.
(b)	Layout editing area	Set the film layout.
(c)	[Film Size]	Set the film size.
(d)	[Film Direction]	Set the film direction.
(e)	[Stamp]	Set the stamp.
(f)	[OK]	Closes the Layout Edit screen after reflecting your editing work in the Preset Edit Tool Layout List screen.
(g)	[Cancel]	Closes the Layout Edit screen without reflecting your editing work in the Preset Edit Tool Layout List screen.

● **[Stitching Combination Position Adjustment]**

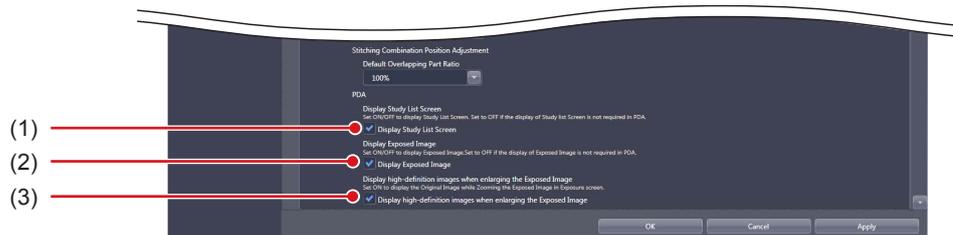
This is part of the screen setting tool screen.



Number	Name	Function
(1)	[Default Overlapping Part Ratio]	When combining stitching images, select the displayed transmittance of the overlapped portion that is enabled by default.

● **[PDA]**

This is part of the screen setting tool screen.



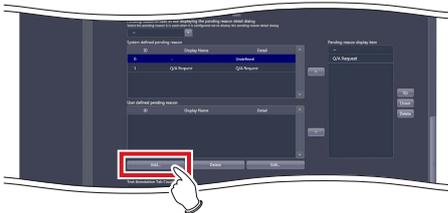
Number	Name	Function
(1)	[Display Study List Screen]	The study list screen is displayed on the PDA when selected.
(2)	[Display Exposed Image]	The exposed image is displayed on the exposure screen of the PDA when selected.
(3)	[Display high-definition images when enlarging the Exposed Image]	The detailed image is displayed on the enlarged exposure screen of the PDA when selected.

3.2.2 Operating the Pending Reason Edit screen

The following describes how to edit pending reasons.

● Adding a pending reason

1 Press [Add...].



- The pending reason edit screen will be displayed.

2 Enter the pending reason you want to add and press [OK].



- The data is added and you are returned to the screen setting tool screen.

● Editing pending reason

1 Select the data you want to edit from [User defined pending reason], and press [Edit...].



- The pending reason edit screen will be displayed.

2 Edit the pending reason and press [OK].



- The data is edited and you are returned to the screen setting tool screen.

HINT

- You can only edit pending reasons one at a time. If you select multiple data in [User defined pending reason], you will not be able to select [Edit...].
- You cannot edit the Patient ID in the pending reason edit screen.

.....

3.2.3 Operating the Preset Edit Tool

The following describes the procedure for editing the output format that is registered as the preset format.

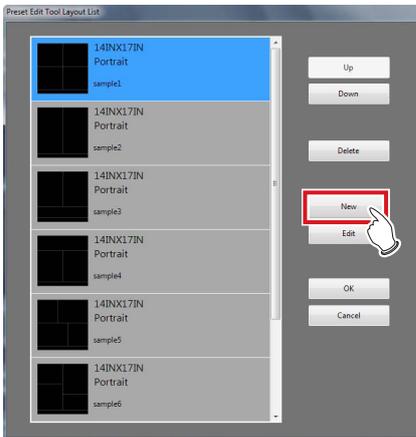
● Addition of preset

1 Press [Edit Preset].



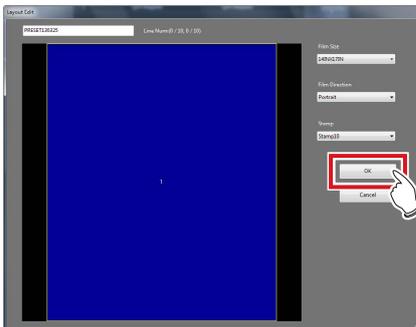
- The Preset Edit Tool Layout List screen is displayed.

2 Press [New].



- The Layout Edit screen is displayed.

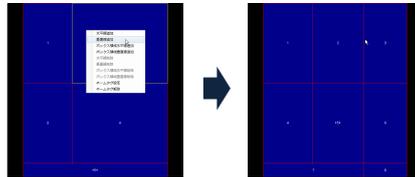
3 Set the preset you want to add and press [OK].



- The preset is added and the display returns to the preset edit tool screen.

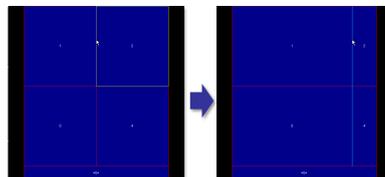
HINT

- Right-click the mouse in the layout editing area to add or delete the layout split line. Right-clicking the mouse displays the following menu commands.

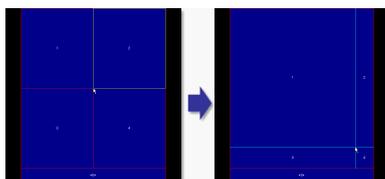


Menu commands	Function
Add Horizontal Line	Adds a horizontal line to the entire film surface to split the existing split lines and image boxes.
Add Vertical Line	Adds a vertical line to the entire film surface to split the existing split lines and image boxes.
Add Selected Horizontal Line	Adds a horizontal line to the selected box area to split the image boxes.
Add Selected Vertical Line	Adds a vertical line to the selected box area to split the image boxes.
Delete Horizontal Line	Deletes the horizontal line to combine the currently split image boxes.
Delete Vertical Line	Deletes the vertical line to combine the currently split image boxes.
Delete Horizontal Line Only Selected Area	Deletes the horizontal line in the selected box area to combine the currently split image boxes.
Delete Vertical Line Only Selected Area	Deletes the vertical line in the selected box area to combine the currently split image boxes.
Set Nametag Box	Sets the selected box area in the name tag box. Only one area can be set in the name tag box.
Unset Nametag Box	Cancels the name tag setting in the selected box area.

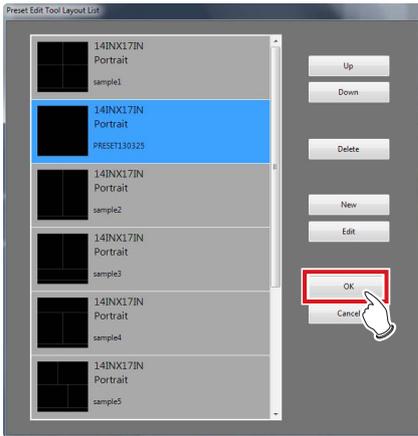
- When moving the split line, drag it. Moving the split line changes the shape of the image boxes, and box numbers are newly assigned again.



- Dragging the intersection of split lines can move two split lines simultaneously.

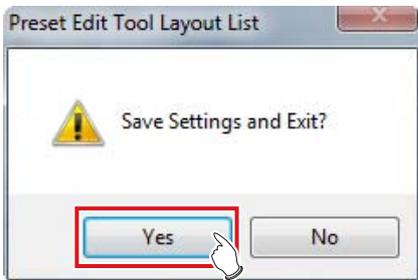


4 Press [OK].



- A confirmation screen is displayed.

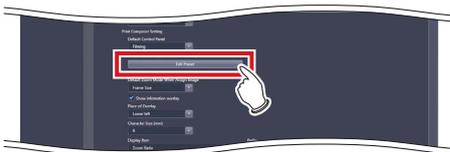
5 Press [Yes].



- The settings are saved, and the display returns to the screen setting tool screen.

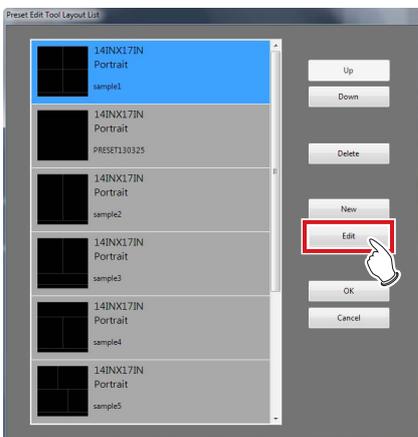
● Editing a preset

1 Press [Edit Preset].



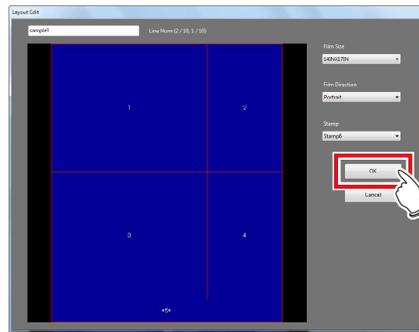
- The Preset Edit Tool Layout List screen is displayed.

2 Select the preset you want to edit and press [Edit].



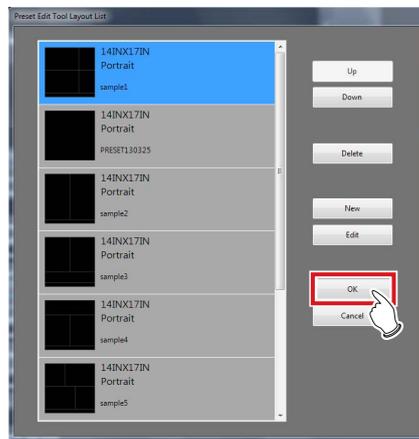
- The Layout Edit screen is displayed.

3 Change the preset settings and press [OK].



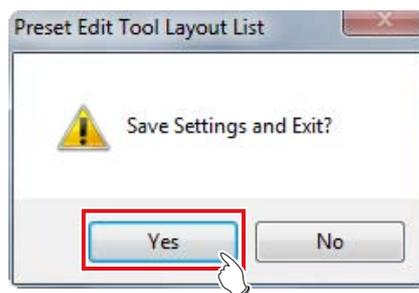
- The preset is changed and the display returns to the Preset Edit Tool Layout List screen.

4 Press [OK].



- A confirmation screen is displayed.

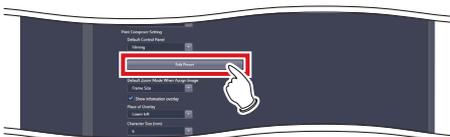
5 Press [Yes].



- The settings are saved, and the display returns to the screen setting tool screen.

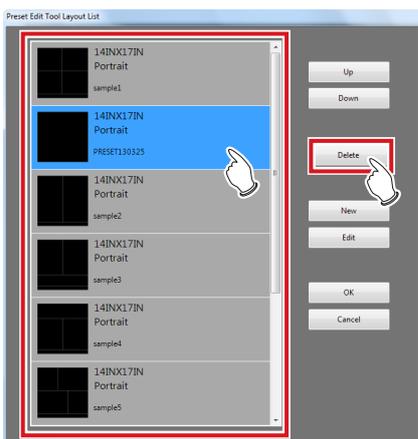
● Deleting a preset

1 Press [Edit Preset].



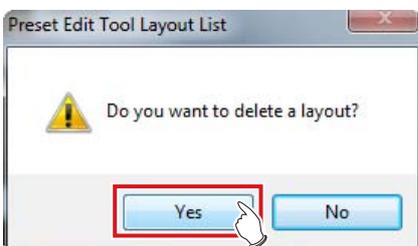
- The Preset Edit Tool Layout List screen is displayed.

2 Select the preset you want to delete and press [Delete].



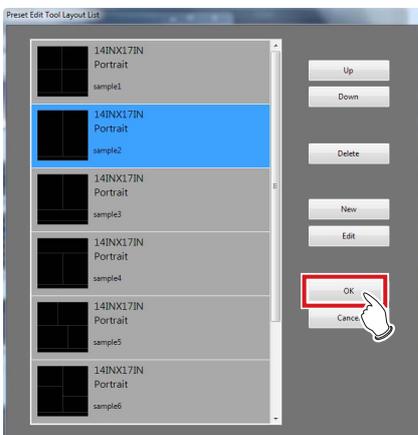
- A deletion confirmation screen is displayed.

3 Press [Yes].



- The preset is deleted.

4 Press [OK].



- The settings are saved, and the display returns to the screen setting tool screen.

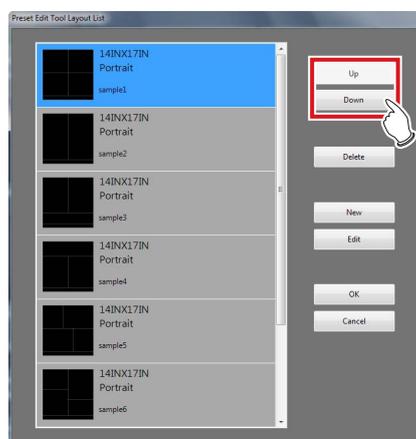
● Rearranging the presets

1 Press [Edit Preset].



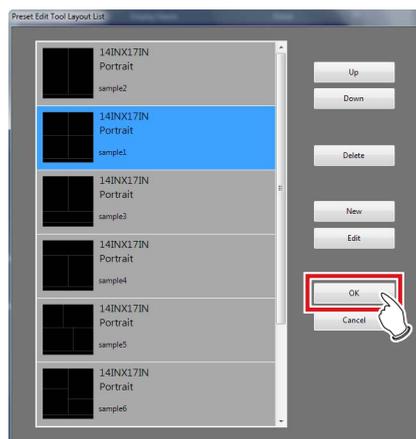
- The Preset Edit Tool Layout List screen is displayed.

2 Select the presets whose display sequence you want to change, and press [Up]/[Down].



- The alignment sequence of the presets is changed.

3 Press [OK].



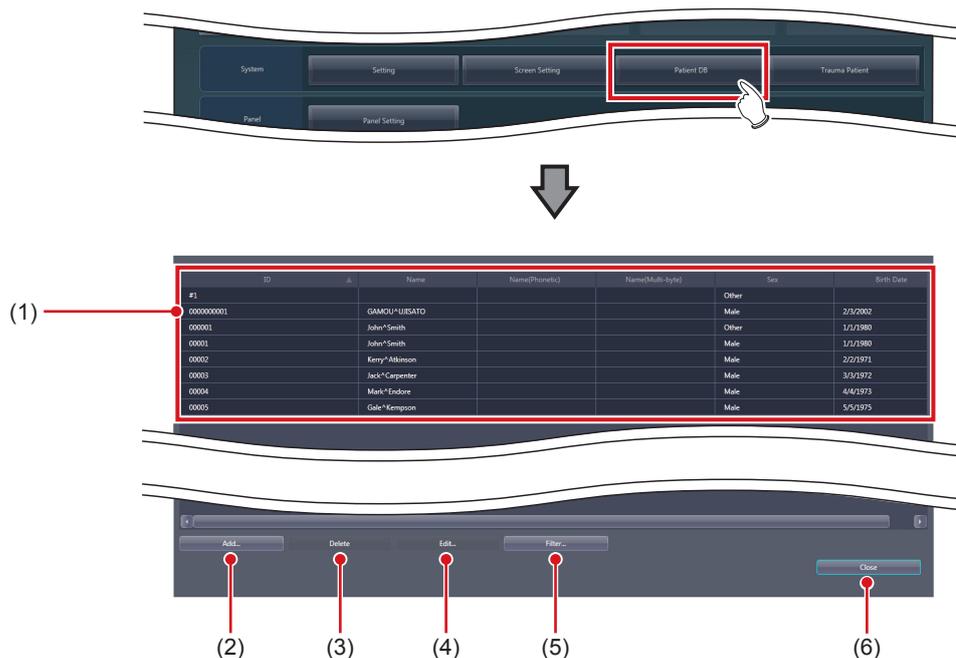
- The settings are saved, and the display returns to the screen setting tool screen.

3.3 • [Patient DB]

The patient information such as patient name, gender, date of birth, etc., that were registered in the database at the time of examination can be edited (modified or deleted). Also, it is possible to register new patient information. Registered patient information can be used for the automatic search during the examination registration.

3.3.1 Patient database tool screen

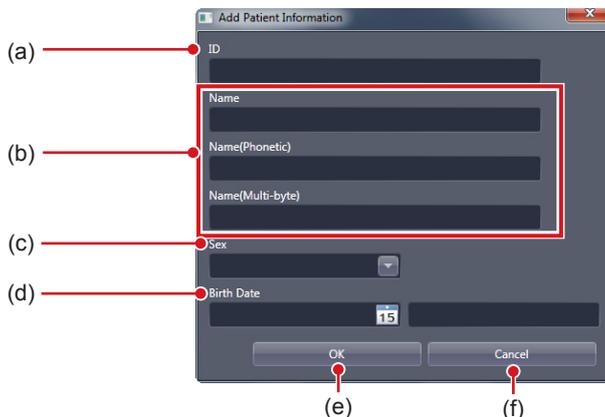
When [Patient DB] of the [System] area is pressed, the patient database tool screen is displayed.



Number	Name	Function
(1)	Patient information display area	Displays patient ID, name, sex, and date of birth. The patient's name is displayed in Roman characters, half-width katakana, and kanji. Set to hide/unhide the half-width katakana and kanji during installation.
(2)	[Add...]	For adding the patient information. Select this to display the patient information editing screen.
(3)	[Delete]	Deletes the selected patient information.
(4)	[Edit...]	For editing the selected patient information. Select this to display the patient information editing screen.
(5)	[Filter...]	Extracts the data displayed in the patient information display area. Select this to display the filter condition input screen.
(6)	[Close]	Closes the screen.

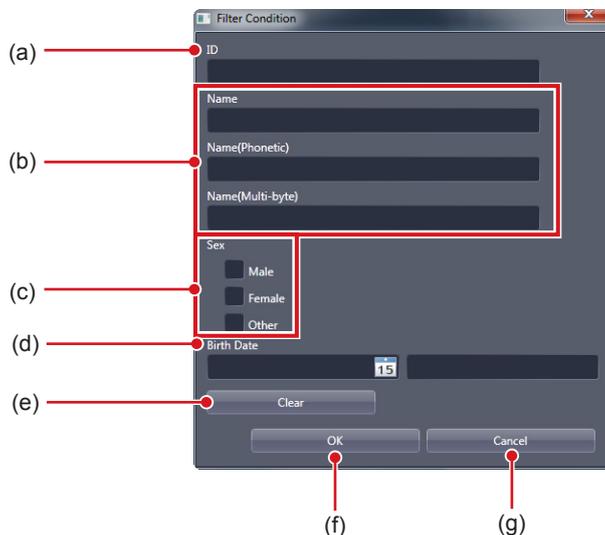
HINT

- If you press [Add...] or [Edit...], the following dialog box is displayed.



Number	Name	Function
(a)	[ID]	For inputting the patient ID. Input is possible only when the patient information editing screen is displayed by pressing [Add...]. Input is not possible when [Edit...] is pressed.
(b)	[Name]	For inputting the name of patient.
(c)	[Sex]	For selecting the gender of the patient from [Male], [Female] and [Other]. [Other] is used when no gender difference is necessary or the gender of the patient is unknown.
(d)	[Birth Date]	For inputting the birth date of the patient.
(e)	[OK]	Saves the input or selected data and closes the patient information editing screen.
(f)	[Cancel]	Closes the patient information editing screen without saving the input or selected data.

- When [Filter...] is pressed, the following dialog box is displayed.



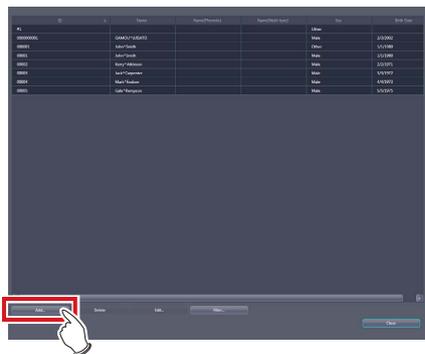
Number	Name	Function
(a)	[ID]	For inputting the patient ID.
(b)	[Name]	For inputting the name of patient.
(c)	[Sex]	For selecting the gender of the patient from [Male], [Female] and [Other]. You can select 2 or more items at a time. [Other] is used when no gender difference is necessary or the gender of the patient is unknown.
(d)	[Birth Date]	For inputting the birth date of the patient.
(e)	[Clear]	Deletes the input and selected conditions.
(f)	[OK]	Extracts patient information with the input and selected conditions and closes the filter condition input screen.
(g)	[Cancel]	Cancel the input and selected conditions and closes the filter condition input screen.

3.3.2 Operation of the patient database tool

Editing methods for patient information are as follows.

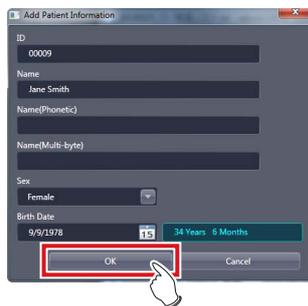
● Addition of patient information

1 Press [Add...].



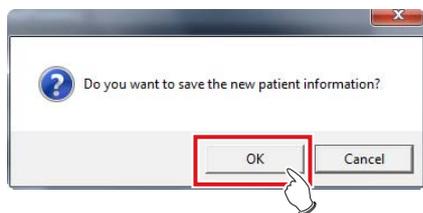
- The patient information editing screen is displayed.

2 Input the patient information you want to add and press [OK].



- A confirmation screen is displayed.

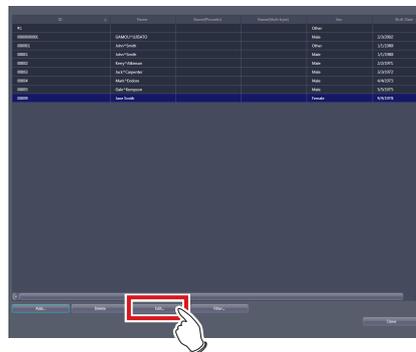
3 Press [OK].



- The data is added, and the display returns to the patient database tool screen.

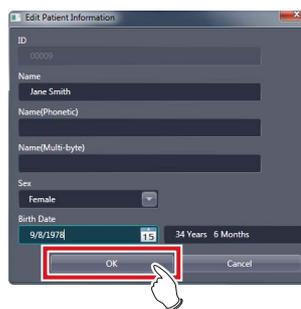
● Editing patient information

1 Select the data you want to edit from the patient information display area, and press [Edit...].



- The patient information editing screen is displayed.

2 Edit the patient information, and press [OK].



- A confirmation screen is displayed.

3 Press [OK].



- The data is edited and the display returns to the patient database tool screen.

IMPORTANT

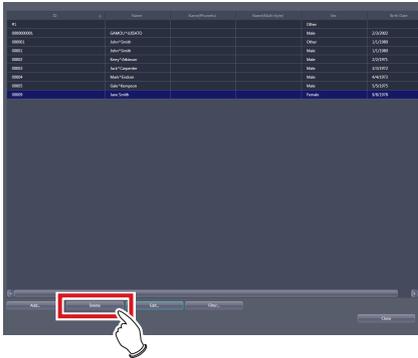
- Even when you edit the patient information recorded in the patient database, the exposure history is not edited.

HINT

- You can only edit patient information one by one. When several pieces of data in the patient information display area are selected, you cannot select [Edit...].
- You cannot edit the patient ID using the patient information editing screen.

● Deletion of patient information

1 Select the data you want to delete from the patient information display area, and press [Delete].



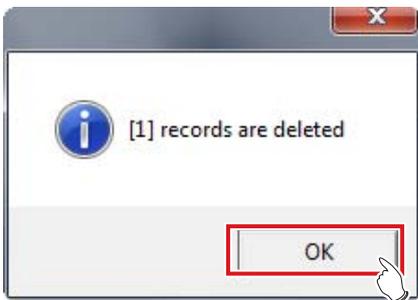
- The deletion confirmation screen is displayed.

2 Press [OK].



- A confirmation screen is displayed.

3 Press [OK].



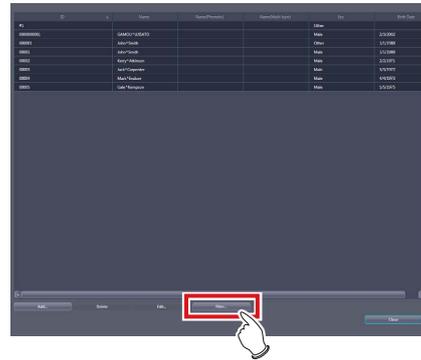
- The data is deleted and the display returns to the patient database tool screen.

HINT

- The patient information used for the examination cannot be deleted. An error message is displayed when [Delete] is pressed.
- To select a number of adjacent pieces of patient information, select the first and last pieces of patient information while holding down the Shift key.
- To select a number of pieces of patient information which are not adjacent, select each of the desired pieces of patient information while holding down the Ctrl key. Selection is canceled by selecting the selected patient information again.
- To cancel all selection, select other patient information without pressing the Shift key or the Ctrl key.

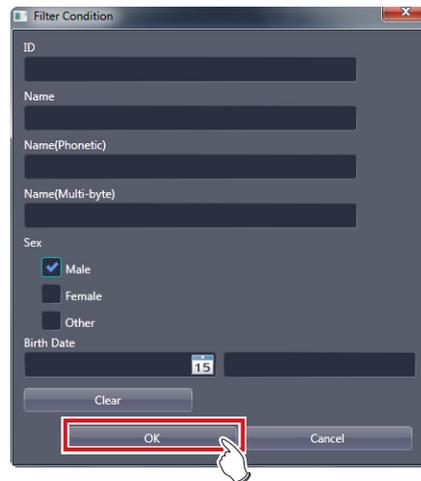
● Extraction of patient information

1 Press [Filter...].



- The filter condition input screen is displayed.

2 Input conditions you want to use, and press [OK].



- The display returns to the patient database tool screen, and the extracted data with the input conditions is displayed.

HINT

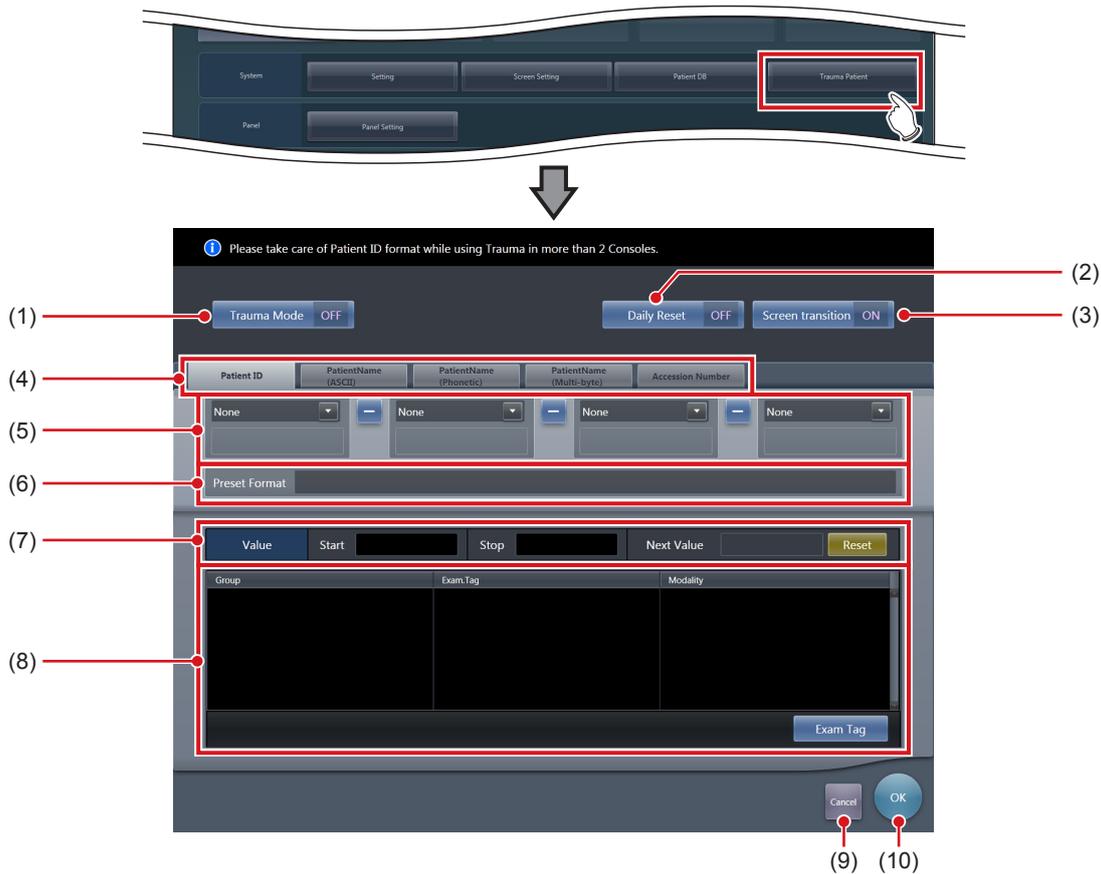
- To display all patient information, press [OK] without inputting anything. The extraction conditions are canceled.

3.4 • [Trauma Patient]

This tool is for setting the automatic number issuing function and default Exam. Tag for the trauma patient.

3.4.1 Trauma patient setting screen

When [Trauma Patient] in [System] is pressed, the trauma patient setting screen is displayed.



Number	Name	Function
(1)	[Trauma Mode]	Hide or unhide the [trauma] button on the initial screen.
(2)	[Daily Reset]	Turns the daily reset function [ON] or [OFF]. If set to [ON], the serial number set on the automatic number issuing function is reset when the date is changed, and the value is returned to the starting number.
(3)	[Screen transition]	Turn the automatic screen transition function [ON] or [OFF]. If set to [ON], the display is switched to the Body part selection screen as soon as the number is automatically issued using the [Trauma Mode] button.
(4)	Target item tab	Select the target item of the automatically issued number by choosing the corresponding tab.
(5)	Component selection menu	Select the components of the issued number from the menu.
(6)	[Preset Format]	Displays an example of the number when issued according to the specified automatic issue format. [Next Value] is indicated as the value of the serial number.
(7)	[Value]	Set the starting and ending values of a serial number. If you press [Reset], [Next Value] is returned to the starting value.
(8)	Default Exam. Tag display area	Displays groups, names, and modalities of the set default Exam. Tag. When [Exam. Tag] is pressed, the default Exam. Tag selection screen is displayed, from which you can select a default Exam. Tag.
(9)	[Cancel]	Closes the screen without saving the modifications made on this screen.
(10)	[OK]	Closes the screen after saving the modifications conducted on this screen.

3.4.2 Operation of the trauma patient setting screen

The trauma patient settings procedure is as follows.

● Operation of automatic number issue

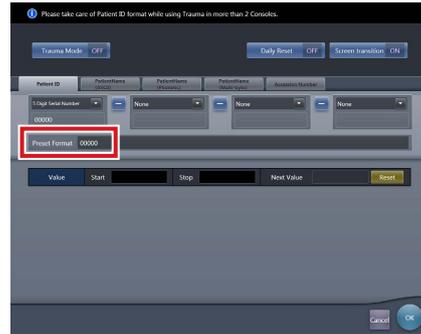
1 Select the item for automatic number issuing by choosing the corresponding tab.



IMPORTANT

- [Patient ID] is a mandatory setting item.
- When you use the trauma patient setting on two more of the devices, ensure that no overlapping occurs among the set items.

2 From the menu, select the items to comprise the number.



- An example of the automatically issued number is displayed in [Preset Format].
- Using the corresponding tabs, set the configuration items for each of the items you require.

IMPORTANT

- Serial numbers can be between 3 and 5 digits long, but when setting multiple serial numbers for [Patient ID] or [Accession Number], select serial numbers with the same number of digits.
- Be careful since, when neither serial numbers nor the time is set for [Patient ID], the same Patient ID will be issued each time.

HINT

- The components that can be selected from the menu are as shown below.
 - Western Calendar(yyyyymmdd)
 - Western Calendar(mmdyyy)
 - Western Calendar(ddmmyyy)
 - Western Calendar(yymmdd)
 - Western Calendar(mmdyy)
 - Western Calendar(ddmmyy)
 - Time(hmmss)
 - Arbitrary Character String
 - 5 Digit Serial Number
 - 4 Digit Serial Number
 - 3 Digit Serial Number
 - Serial Number (only [Accession Number] can be selected)
- When [Arbitrary character string] is selected, the input field is displayed.



- When delimiting one component from another, press [-] placed between the menus.

3 Set the starting and ending values using [Value].

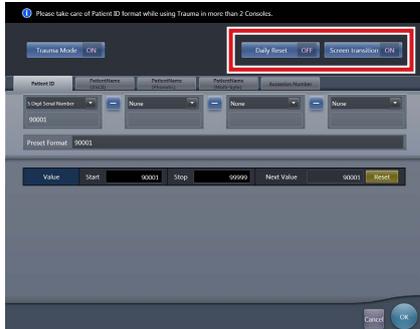
- Enter the beginning value for the serial number in [Start], and enter the ending value for the serial number in [Stop].



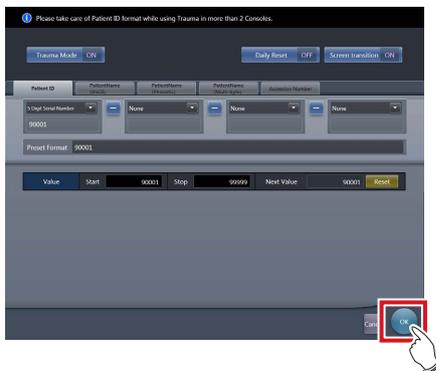
HINT

- After the ending value is issued, the next number is returned to the starting value.
 - The number to be issued next time is displayed in [Next Value]. If you want to return to the starting value, press [Reset].
-

4 Turn [Daily Reset] and [Screen transition] [ON] or [OFF], as necessary.



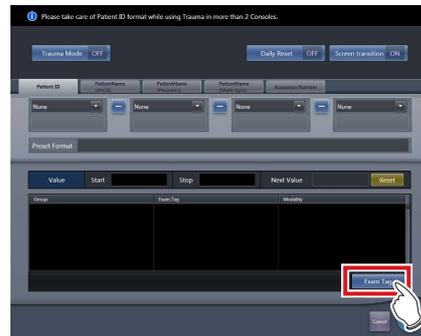
5 Press [OK].



- The settings are saved and the display returns to the user tool screen.

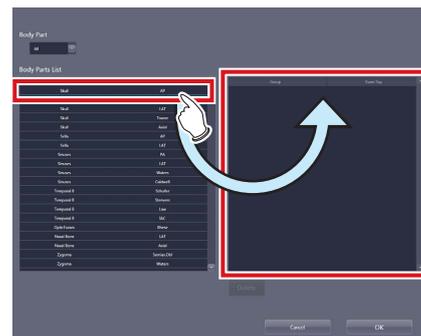
● Registration of the Default Exam. Tags

1 Press [Exam Tag].



- The default Exam. Tag selection screen is displayed.

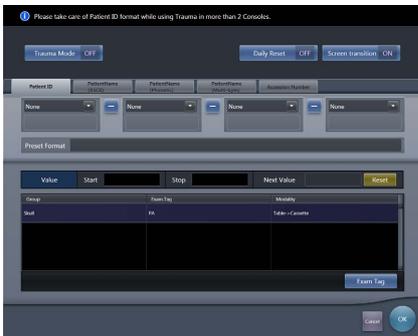
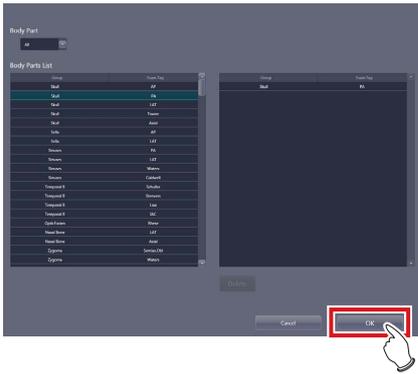
2 Drag and drop an Exam. Tag that is to be registered as the default Exam. Tag from [Body Parts List] to the default Exam. Tag area.



IMPORTANT

- The alignment sequence of the keys in the default Exam. Tags area is the exposure sequence. You can modify their alignment sequence using drag and drop operations.
-

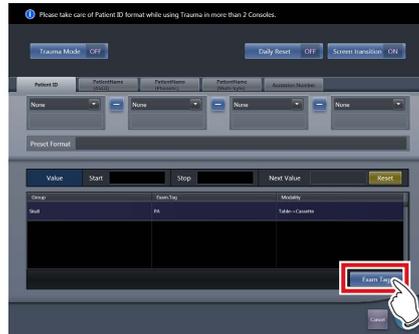
3 Press [OK].



- The default Exam. Tag is added and the display returns to the trauma patient setting screen.

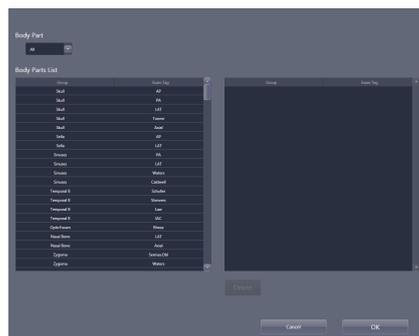
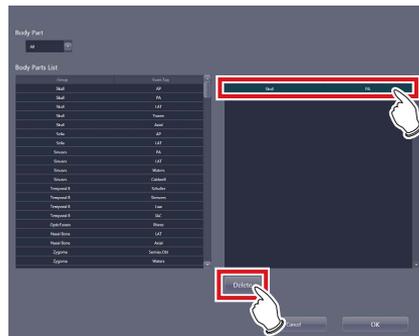
● Deletion of default Exam. Tags

1 Press [Exam Tag].



- The default Exam. Tag selection screen is displayed.

2 Select an Exam. Tag you want to delete from the default Exam. Tags area and press [Delete].



- The default Exam. Tag is deleted.

Chapter 4

Tools When [Setting] Is Selected [Panel] Area

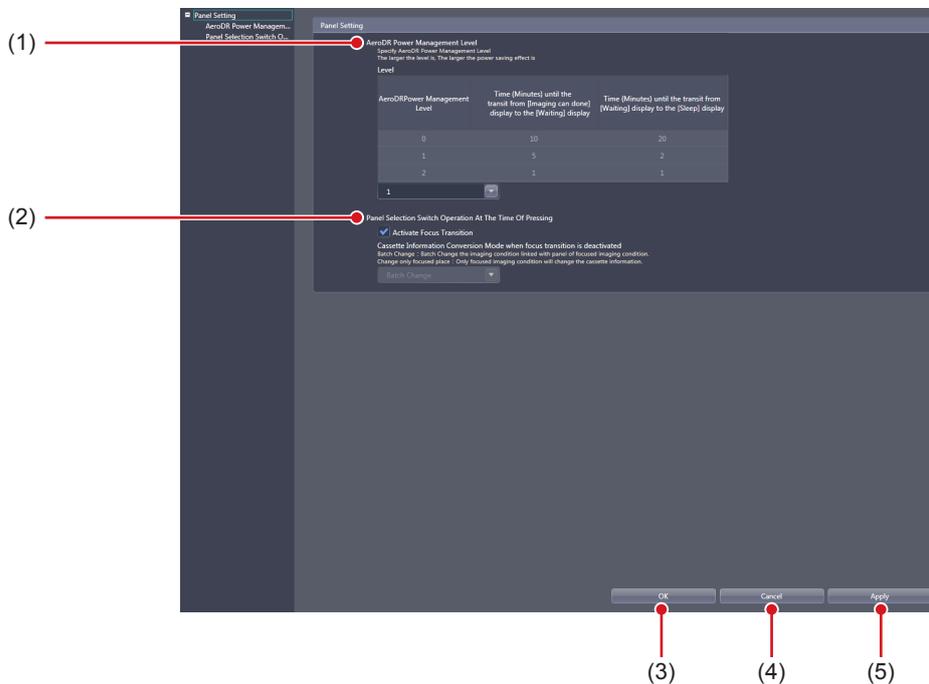
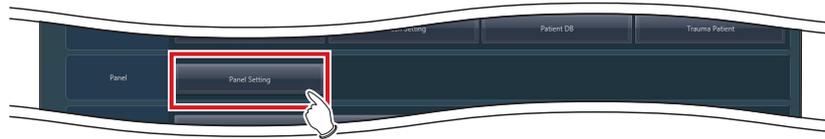
This chapter describes the tools in the [Panel] area displayed when [Setting] is selected.

4.1 • [Panel Setting]

This tool is for setting the AeroDR Detector.

4.1.1 Panel setting tool screen

When [Panel Setting] of the [Panel] area is pressed, the AeroDR Detector setting screen is displayed.



Number	Name	Function
(1)	[AeroDR Power Management Level]	Set the energy saving mode level of the AeroDR Detector.
(2)	[Panel Selection Switch Operation At The Time Of Pressing]	Set the function that moves the focus to the Exam. Tag when the selection switch of the AeroDR Detector is pressed.
(3)	[OK]	Saves the settings and closes the screen.
(4)	[Cancel]	Closes the screen without saving the settings.
(5)	[Apply]	Saves the settings with the screen displayed.

IMPORTANT

- If the AeroDR power management level setting values are increased, it may take some time to return to the "Ready" state from "Waiting" or "Sleep".
- When using the checkup mode, the AeroDR power management level is locked at the settings for checkup mode.
- The selection switch of the AeroDR Detector is available only when the cassette is in use. The selection switch of the AeroDR Detector does not operate under the Exam. Tags of AeroDR UF cable setting (for wall stand or table position).
- The selection switch of the AeroDR Detector does not operate when the dialogs for Reacquisition of Images, Image Exchange, Image Copy, Complete, Suspend, etc. are displayed.

● [AeroDR Power Management Level]

This is part of the panel setting tool screen.



Number	Name	Function
(1)	[Level]	Select the energy saving mode level of the AeroDR Detector. Basic connection: select from [0], [1] or [2]. Aero Sync connection ([AeroSync Button] is on): select from [0], [1], [2], [3], [4] or [5]. Aero Sync connection ([AeroSync Button] is off): select from [0], [1], or [2].

4.1 [Panel Setting]

HINT

- Depending on the [AeroDR Power Management Level] setting, the time before the AeroDR Detector switches to its power-saving state changes as follows. When Aero Sync is connected, setting of AeroDR Power Management Level changes with the setting of [AeroSync Button] of [System Monitor] tab on the system monitor screen.

Basic connection

AeroDR Power Management Level	Time (Minutes) until the transit from [Imaging can done] display to the [Waiting] display	Time (Minutes) until the transit from [Waiting] display to the [Sleep] display	Power-saving effect
0	10	20	
1	5	2	
2	1	1	

Aero Sync connection (When [AeroSync Button] is turned off)

AeroDR Power Management Level	Time (Minutes) until the transit from [Exposure Permission Waiting] display to the [Waiting] display	Time (Minutes) until the transit from [Waiting] display to the [Sleep] display	Time (Minutes) until the transit from [Imaging can done] display to the [Waiting] display	Power-saving effect
0	10	20	10	
1	5	2	10	
2	1	1	10	

Aero Sync connection (When [AeroSync Button] is turned on)

AeroDR Power Management Level	Time (Minutes) until the transit from [Exposure Permission Waiting] display to the [Waiting] display	Time (Minutes) until the transit from [Waiting] ^{*1} display to the [Sleep] display	Time (Minutes) until the transit from [Imaging can done] display to the [Exposure Permission Waiting] ^{*2} display	Power-saving effect
0	10	20	2	
1	5	2	2	
2	1	1	2	
3	-	20	2	
4	-	5	2	
5	-	1	2	

*1 If you select 3 to 5 for the AeroDR power management level, "Waiting" or "Waiting to start shooting" is displayed.

*2 If you select 3 to 5 for the AeroDR power management level, the "Exposure Permission Waiting" display is replaced with "Waiting".

● [Panel Selection Switch Operation At The Time Of Pressing]

This is part of the panel setting tool screen.



Number	Name	Function
(1)	[Activate Focus Transition]	Select this option to move the focus to the Exam. Tags that are associated with the AeroDR Detector for which the selection switch is pressed. Selecting this disables [Cassette Information Conversion Mode when focus transition is deactivated].
(2)	[Cassette Information Conversion Mode when focus transition is deactivated]	Select [Batch Change] or [Change only focused place] for the device change mode of the AeroDR Detector under Exam. Tags when the selection switch of the AeroDR Detector is pressed while the focus transition is disabled.



HINT

- If [Activate Focus Transition] is selected, the focus moves to the Exam. Tags that are associated with the AeroDR Detector for which the selection switch is pressed.
- If the AeroDR Detector for which the selection switch is pressed is not associated with Exam. Tags, the AeroDR Detector for which the currently focused Exam. Tags are set and the AeroDR Detector for which the Exam. Tags associated with that AeroDR Detector are set change to the one for which the selection switch is pressed.

Chapter 5

Tools When [Setting] Is Selected [Overlay] Area

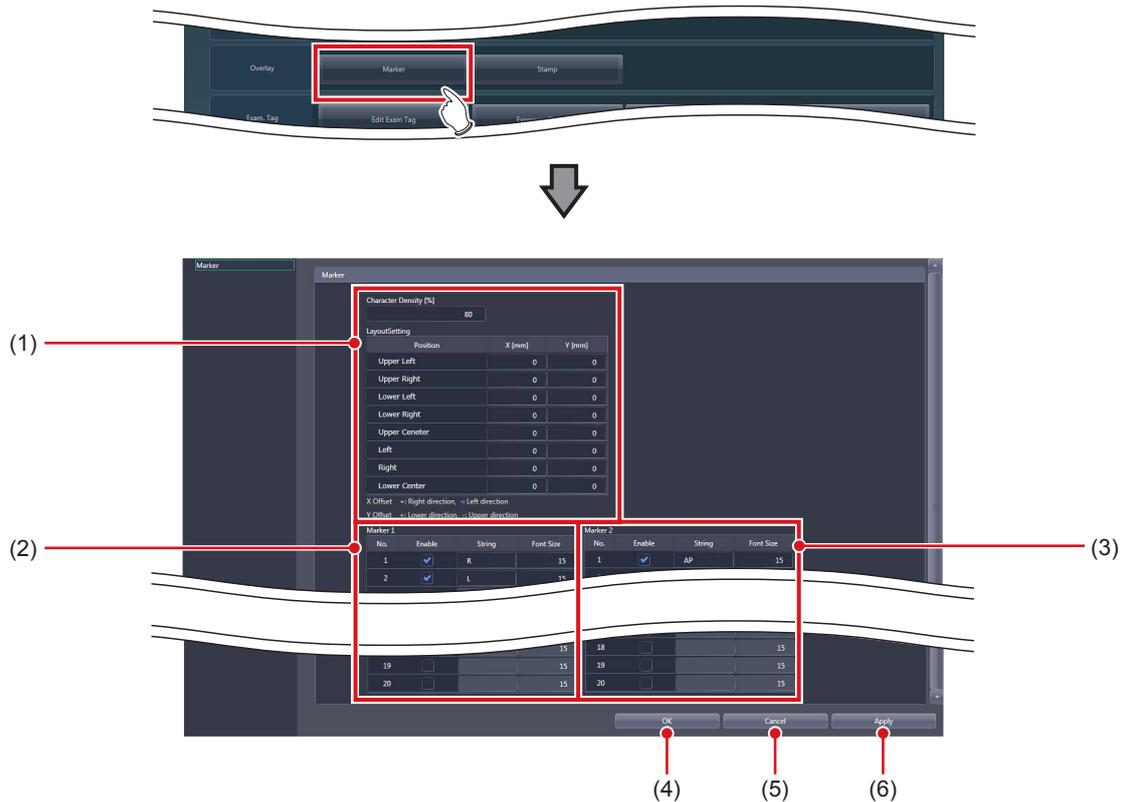
This chapter describes the tools in the [Overlay] area displayed when [Setting] is selected.

5.1 • [Marker]

This tool is for setting the marker to be overlaid on images.

5.1.1 Marker setting tool screen

When [Marker] of the [Overlay] area is pressed, the marker setting tool screen is displayed.



Number	Name	Function
(1)	Marker setting	You can set the marker density and position of each marker display area.
(2)	[Marker 1]	For setting the contents of marker 1.
(3)	[Marker 2]	For setting the contents of marker 2.
(4)	[OK]	Saves the settings and closes the screen.
(5)	[Cancel]	Closes the screen without saving the settings.
(6)	[Apply]	Saves the settings with the screen displayed.

● Marker setting

This is part of the marker setting tool screen.



Number	Name	Function
(1)	[Character Density [%]]	For specifying the character density (%). When outputting characters in black, input "100". When outputting characters in white, input "0".
(2)	[Position]	For setting the position of each marker display area.
(3)	[X [mm]]	For finely adjusting the horizontal position of the marker display area. Inputting a positive value shifts the area to the right while inputting a negative value shifts the area to the left.
(4)	[Y [mm]]	For finely adjusting the vertical position of the marker display area. Inputting a positive value shifts the area downward while inputting a negative value shifts the area upward.

● [Marker 1]/[Marker 2]

This is part of the marker setting tool screen.

This describes how to configure the setting, using [Marker 1] as an example.



Number	Name	Function
(1)	[Enable]	Enables the marker character string. You can select only the enabled character string from the control panel of the exposure screen.
(2)	[String]	For inputting the marker character string. You can input up to 8 single-byte characters (4 double-byte characters).
(3)	[Font Size]	For inputting the marker character size. Set a numerical value in the range of 10-20.



HINT

- A maximum of 20 items can be set for each [Marker 1] and [Marker 2].

5.1.2 Operation of the marker setting tool

The setting method for markers is as follows.

● Setting a marker character string

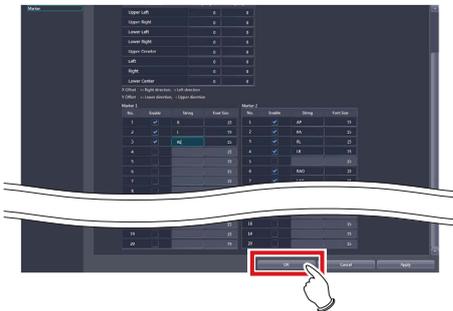
- 1 Select [Enable] for the marker you want to set using [Marker 1] or [Marker 2].



- The [String] and [Font Size] textboxes become editable.

- 2 Input the character string and character size.

- 3 When finishing the settings, press [OK].

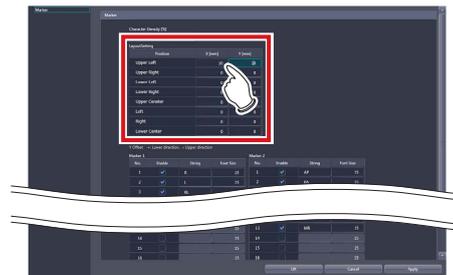


- The settings are saved and the display returns to the user tool screen.

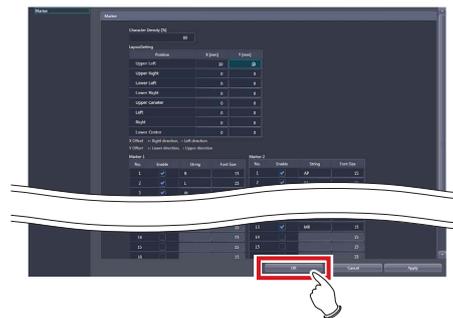
● Setting the overlay position

- 1 Input the distance (mm) you want to shift the marker in [X [mm]] or [Y [mm]].

- Inputting a positive value in [X [mm]] shifts the marker to the right while inputting a negative value shifts the marker to the left.
- Inputting a positive value in [Y [mm]] shifts the marker downward while inputting a negative value shifts the marker upward.



- 2 When finishing the settings, press [OK].



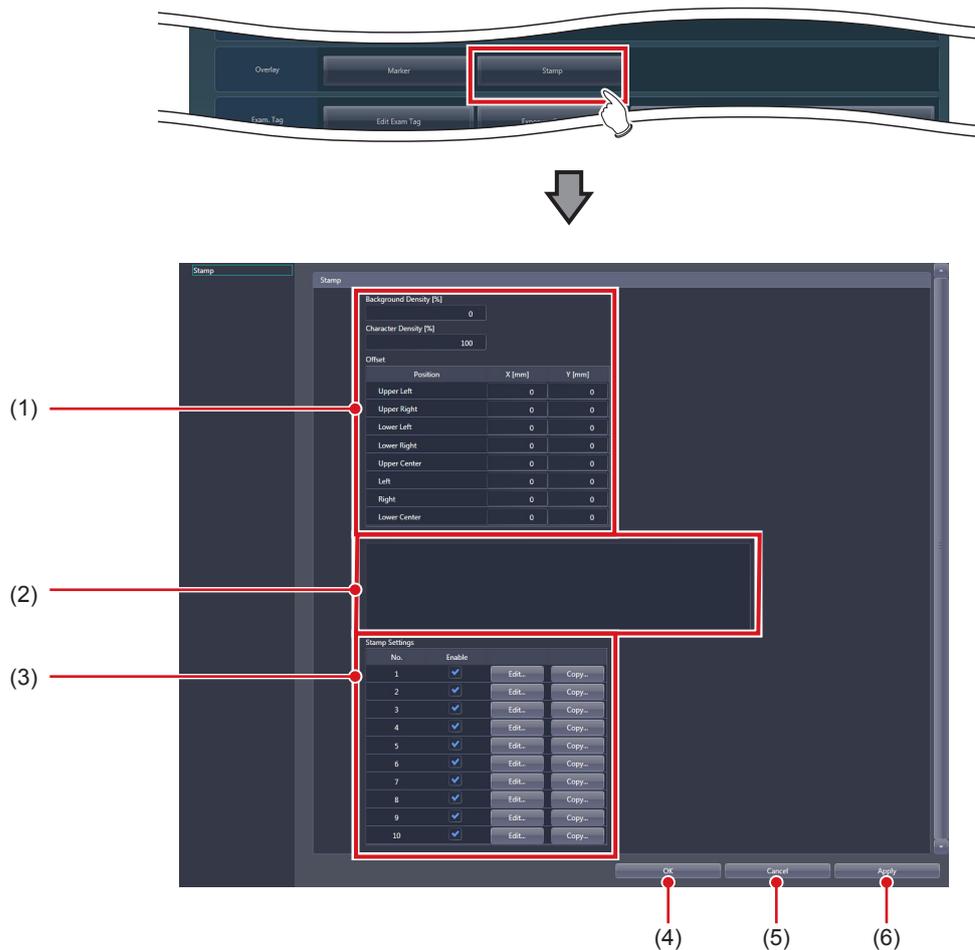
- The settings are saved and the display returns to the user tool screen.

5.2 • [Stamp]

This tool is for setting the stamp to be overlaid on the image.

5.2.1 Stamp setting tool screen

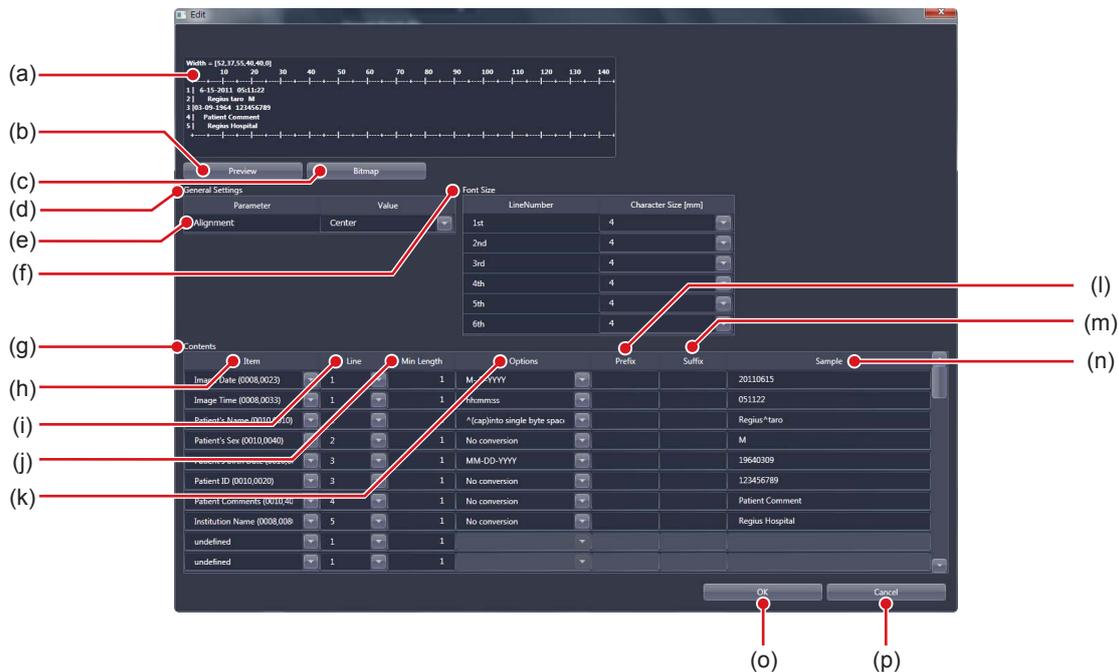
When [Stamp] of the [Overlay] area is pressed, the stamp setting tool screen is displayed.



Number	Name	Function
(1)	Stamp setting	You can set the stamp density and position of each stamp display area.
(2)	[Preview]	Displays the text of the stamp you set.
(3)	[Stamp Settings]	For editing the stamp format. When you press [Edit...], the stamp editing screen is displayed. When you press [Copy...], the stamp copy screen is displayed and the contents are copied to the stamp of another number.
(4)	[OK]	Saves the settings and closes the screen.
(5)	[Cancel]	Closes the screen without saving the settings.
(6)	[Apply]	Saves the settings with the screen displayed.

HINT

- When [Edit...] of [Stamp Settings] is pressed, the following dialog box is displayed.



Number	Name	Function
(a)	Sample display panel	Displays the text of the stamp being edited.
(b)	[Preview]	Updates the display according to the contents you set.
(c)	[Bitmap]	Displays another screen for a sample image of the stamp you set.
(d)	[General Settings]	For setting the basic layout of the stamp.
(e)	[Alignment]	For selecting the alignment of the stamp characters and name display. <ul style="list-style-type: none"> • [Left]: Characters are printed aligned left. • [Center]: Characters are printed aligned center according to the number of characters. • [Right]: Characters are printed aligned right.
(f)	[Font Size]	For setting the character size of the stamp.
(g)	[Contents]	For setting the detailed items for the stamp.
(h)	[Item]	For selecting an item to print in the stamp from the list.
(i)	[Line]	For selecting the line at which the item (or fixed text) selected in [Item] is to be printed.
(j)	[Min Length]	For inputting the minimum number of characters for the character string represented by the item name. Half-width spaces is added to the top of the character string to align the line when the character string does not fulfill the minimum number of characters.
(k)	[Options]	For selecting the display format of the item from the list. Formats in the list differ according to the [Item] setting.
(l)	[Prefix]	For inputting the specific character string to attach before the character string represented by the item name.
(m)	[Suffix]	For inputting the specific character string to attach after the character string represented by the item name.
(n)	[Sample]	Displays the character string displayed on the sample image.
(o)	[OK]	Saves the settings and closes the screen.
(p)	[Cancel]	Closes the screen without saving the settings.

- Rows to which no item is set are hidden while other rows are aligned to top and displayed. To display empty rows, select [Fixed String] on [Item], and add a setting in which [Prefix] and [Suffix] are not entered.

● Stamp setting

This is part of the stamp setting tool screen.



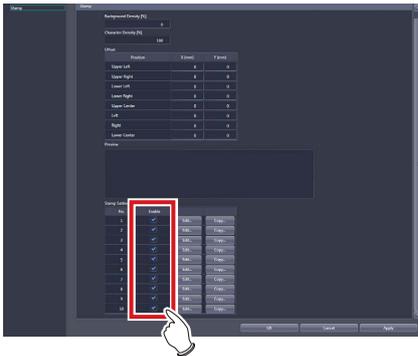
Number	Name	Function
(1)	[Background Density [%]]	For specifying the background density (%). When outputting background in black, input "100". When outputting background in white, input "0".
(2)	[Character Density [%]]	For specifying the character density (%). When outputting characters in black, input "100". When outputting characters in white, input "0".
(3)	[Position]	For setting the position of each stamp display area.
(4)	[X [mm]]	For making fine adjustments to the left-right position of the stamp display area. Entering a positive number causes a shift to the right and entering a negative number causes a shift to the left.
(5)	[Y [mm]]	For making fine adjustments to the up-down position of the stamp display area. Entering a positive number causes a shift downwards and entering a negative number causes a shift upwards.

5.2.2 Operation of the stamp setting tool

The setting method for stamps is as follows.

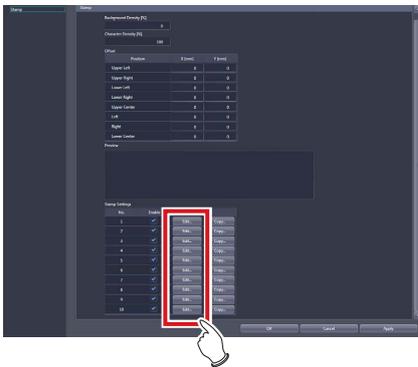
● Setting items for the stamp

- 1 Select [Enable] of the stamp you want to edit in [Stamp Settings].



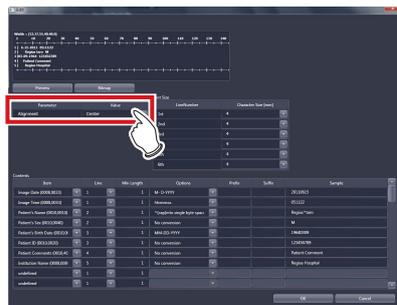
- [Edit...] becomes active.

- 2 Press [Edit...] of the stamp you want to edit.

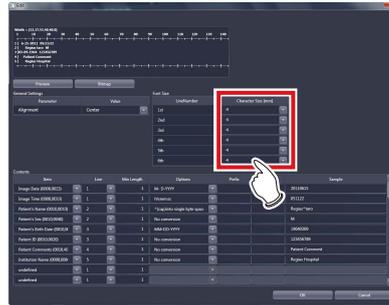


- The stamp editing screen is displayed.

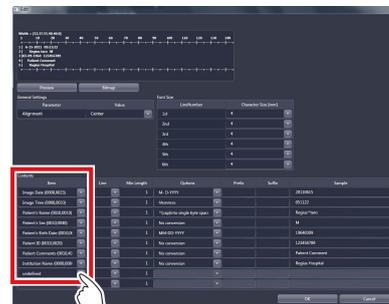
- 3 To edit the character alignment method, select the character alignment method from [Alignment].



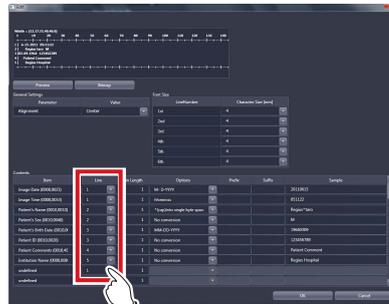
- 4 To set the character size of the stamp, select a value from [Font Size].



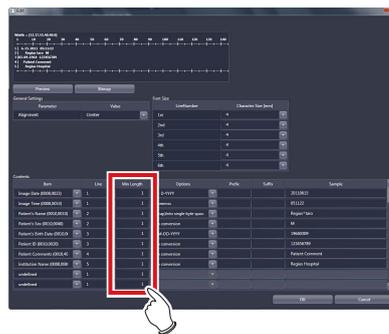
- 5 To add a new item to the stamp, select an [undefined] item from [Item].



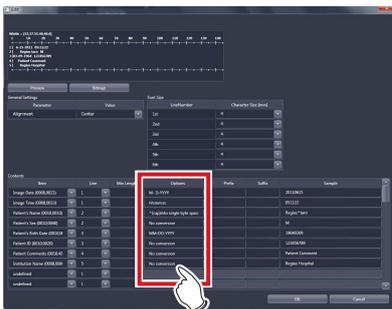
- 6 To set the line at which the stamp is to be printed, select from [Line].



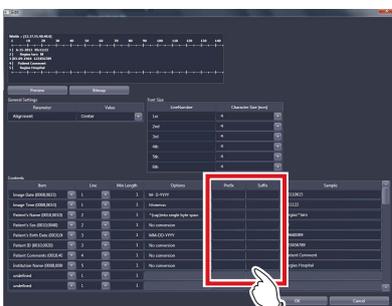
- 7 To align the width of the character string, input a value in [Min Length].



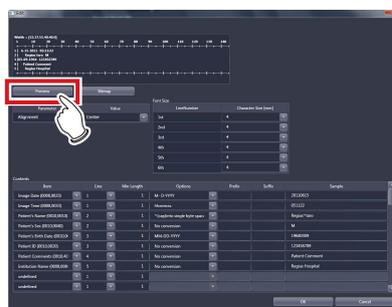
8 Select the display format of the items from [Options].



9 To add specific characters before or after the item name, input the characters in [Prefix] or [Suffix].



10 Press [Preview] and confirm the text of the stamp to be set.

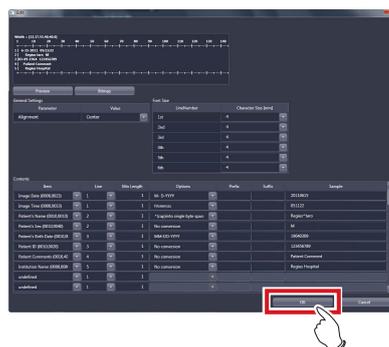


HINT

- You can confirm the set stamp bitmap image on a separate screen by pressing [Bitmap].

.....

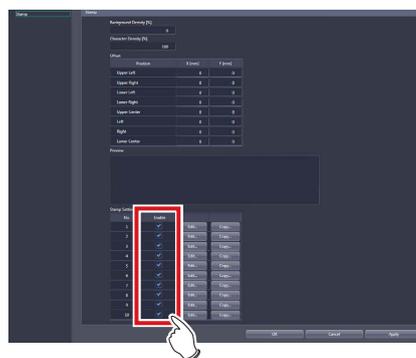
11 When finishing the settings, press [OK].



- The settings are saved and the display returns to the user tool screen.

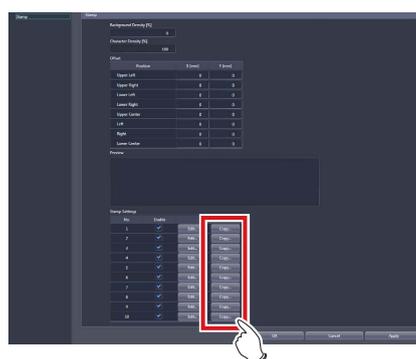
● Copying of the stamp setting

1 In [Stamp Settings], select [Enable] of the stamp that is the copy source.



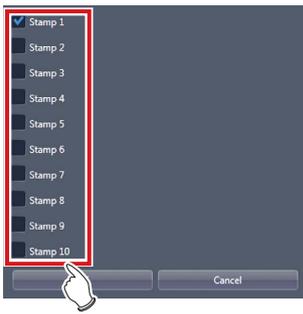
- [Copy...] becomes active.

2 Press [Copy...] on the source stamp.



- The stamp copy screen is displayed.

3 Select the destination stamp.



4 Press [OK].



Chapter 6

Tools When [Setting] Is Selected [Exam. Tag] Area

This chapter describes the tools in the [Exam. Tag] area displayed when [Setting] is selected.

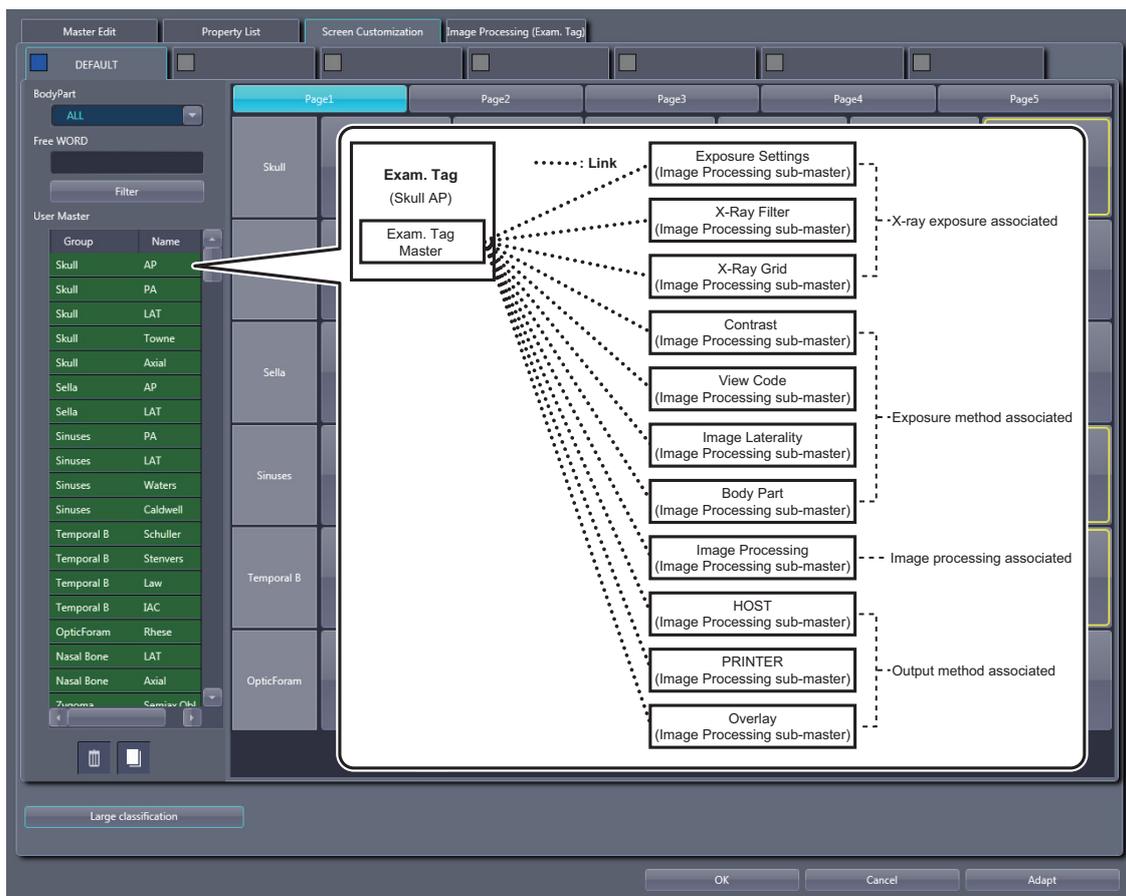
6.1 • Exam. Tag summary

Exam. Tag is a key that defines the necessary conditions of the exposure by body part. More than 1,000 Exam. Tags available for immediate use are registered in this device.

6.1.1 About Exam. Tags

● Exam. Tag configuration

Exam. Tags are made up of 1 master and 11 types of sub-masters. These include a variety of conditions from image reading to image processing and output.



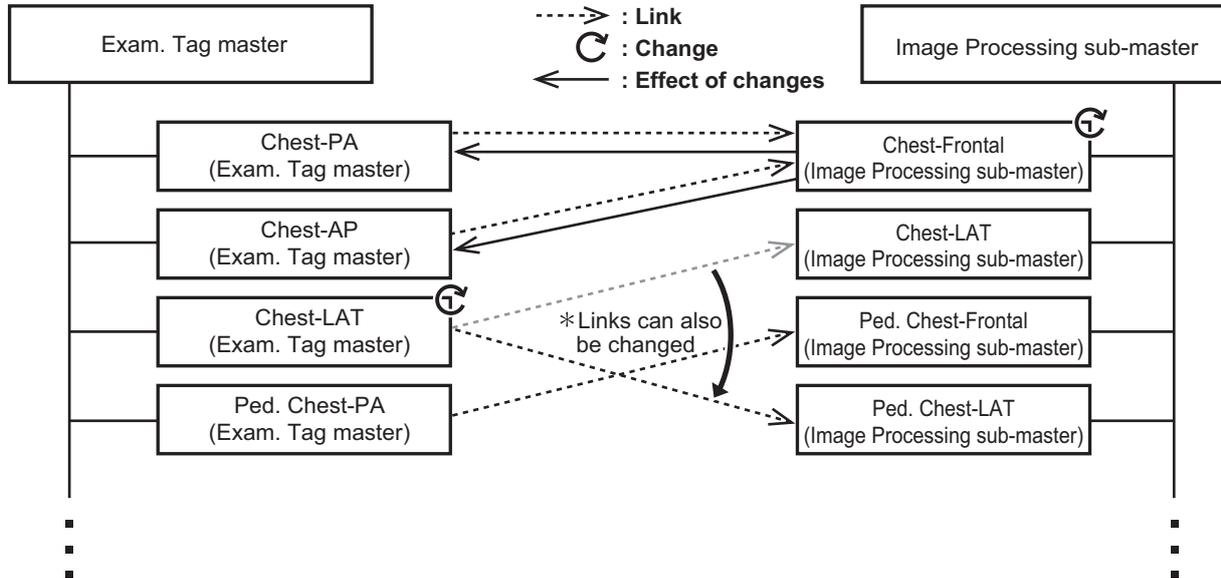
HINT

- You cannot create a completely new Exam. Tag or sub-master. To make a new Exam. Tag, copy and edit an existing Exam. Tag master or sub-master with similar conditions.

● Modifying Exam. Tag masters/sub-masters

You can freely modify links from Exam. Tag masters to sub-masters.

1 sub-master can be linked to several Exam. Tag masters.

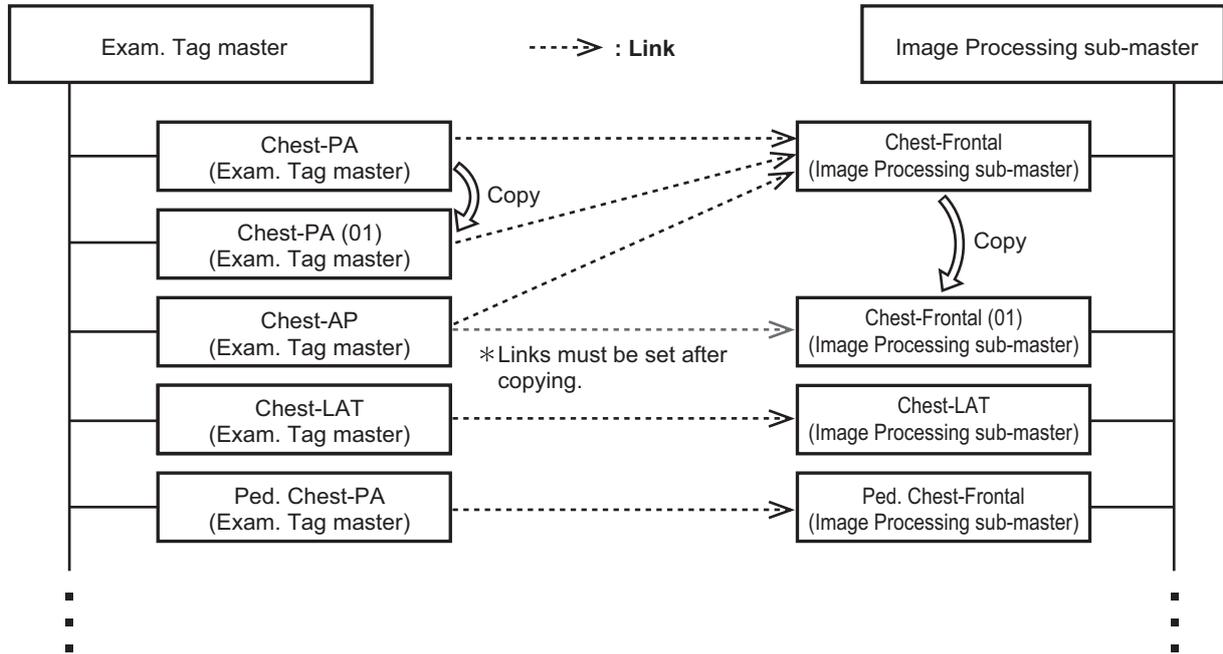


HINT

- The content of each Exam. Tag master and sub-master is saved to a separate file.
- When you want to modify image collection conditions, modify Exam. Tag master files. The settings of the linked sub-master are not changed when Exam. Tag master settings are changed.
- When you want to modify other types of information, modify related sub-master files. Changes to sub-master settings cause changes to the Exam. Tag master linked to the sub-master. When there are links from several Exam. Tag masters, they can all be changed at once.

● **Copying Exam. Tag masters/sub-masters**

You can freely copy and create new files for Exam. Tag masters/sub-masters.
 Copying files does not require creating Exam. Tags.

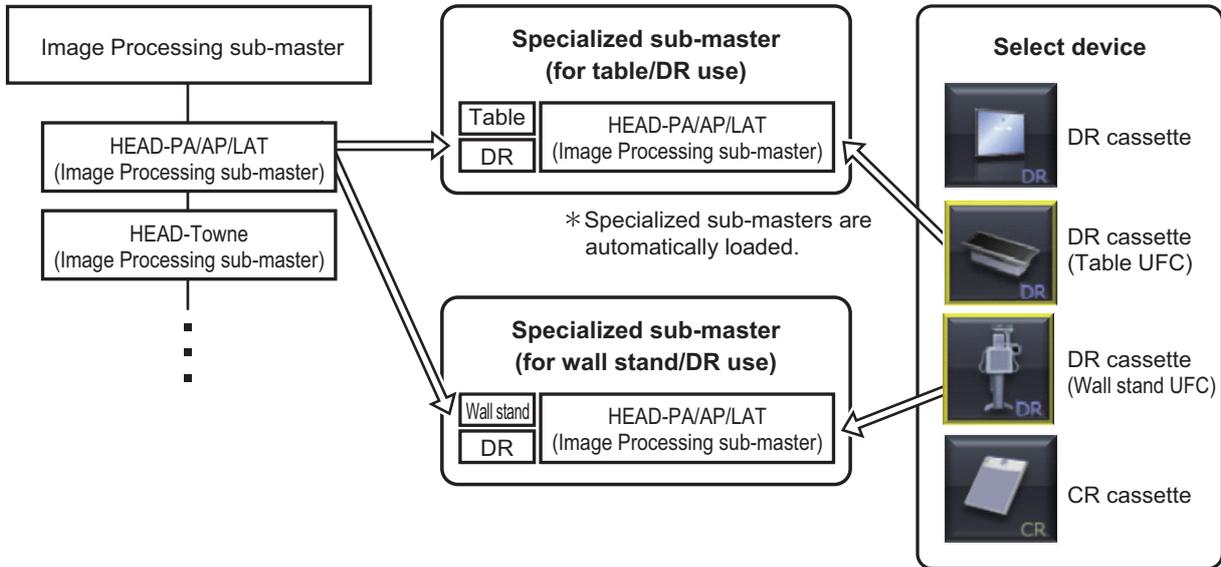


 **HINT**

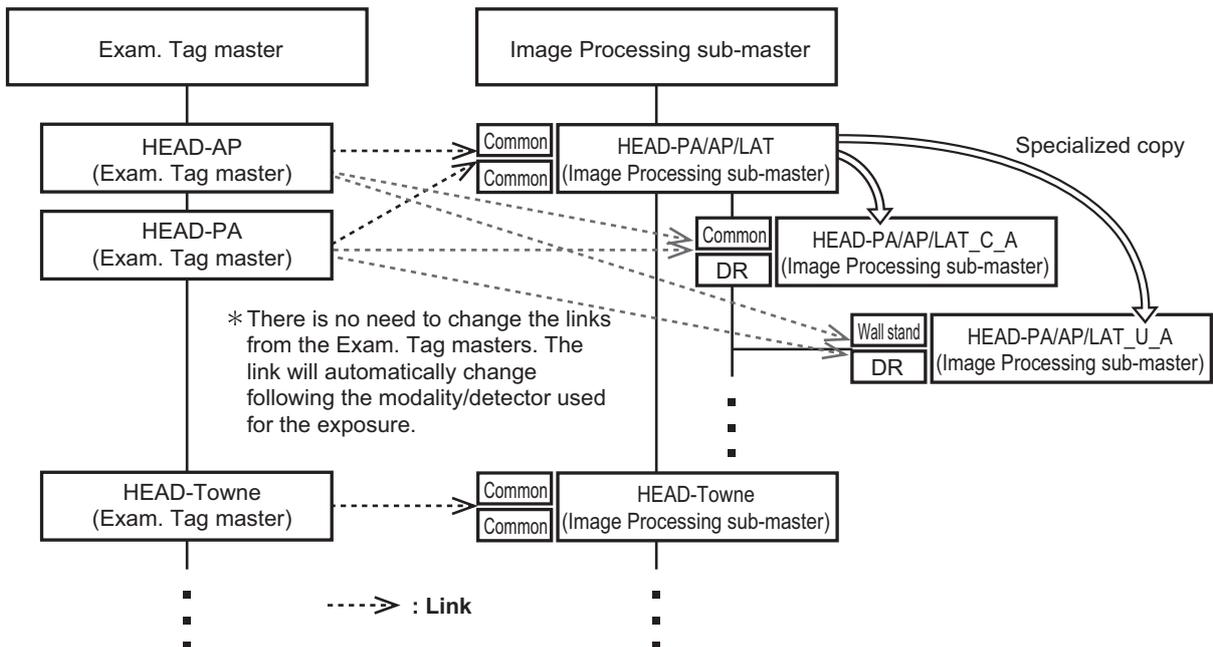
- When a copy is made of an Exam. Tag master, all settings including links to sub-masters are transferred. You can freely change the link settings and other setting values after a copy is made.
- All settings are transferred when sub-masters are copied, but the link from the Exam. Tag master is not transferred. Please set the link from the Exam. Tag master after copying. You can also freely change setting values after copying.

● **Specialized copies of sub-masters**

You can create sub-masters with specific modality/detector conditions. This is known as specialization of sub-masters. Specialized sub-masters are automatically selected and loaded when the device is selected.



You can create specialized sub-masters by performing a specialized copy. A sub-master can be specialized by performing specialized copying of a base sub-master (common/common).



HINT

- You can create specific modality/detector settings by specializing sub-masters.
- You can create device-dependent Exam. Tags without increasing Exam. Tag masters.
- If a specialized copy is performed, all setting values will be transferred. You can freely change the setting values after a specialized copy.
- There is no need to change the links from the Exam. Tag masters. The link will automatically change following the modality/detector used for the exposure.
- Sub-masters set up as defaults can be used for all modalities/detectors.

6.1 Exam. Tag summary

● Selecting Exam. Tags

Exam. Tags can be selected on the body part selection screen or the RIS.



Select the body part on the body part selection screen. (Select the Exam. Tag.)

Perform exposure on the exposure screen. (Exposure is performed according to Exam. Tag settings.)

HINT

- Exam. Tag masters can be selected on the body part selection screen/RIS. Linked sub-masters are automatically loaded.

● Precautions to be taken when creating the Exam. Tags for stitching

Precautions to be taken when creating or editing the Exam. Tags for stitching.



- When the Exam. Tag for the composite image (after stitching) is not registered in the User Master, the Exam. Tag for the first image from the top before stitching will be used as the Exam. Tag for the composite image.
- The Exam. Tags for the composite image are the special ones, do not use them as the Exam. Tag in the normal examination.

- There are two Exam. Tags available for stitching. One is for pre-composite images (upper/middle/lower for 3-image composites, and middle/lower for 2-image composites) and the other is for composite images. Each key is associated with the other by serial number.
 - Exam. Tags for the composite image will be automatically assigned to the stitched image.
 - Since there are two different Exam. Tags, one is for images before stitching and the other for image after stitching (composite image), Print Format, Overlay Info, etc. may be separately set for images before stitching and after stitching (composite).
 - The Exam. Tags for images before stitching and after stitching can be identified by the serial number.
 - The third digit from the right is assigned to each image as follows. The other digits are common to all.
 - 0: Images after stitching (composite image)
 - 1: Upper image before stitching (not used when two images to be stitched)
 - 2: Middle image before stitching
 - 3: Lower image before stitching
- Please note that "Group" name and "Exp. Condition" are common to them in general.
- Always handle the two types of Exam. Tags for stitching, Exam. Tags for images before stitching and after stitching by the set. (when copying, editing or deleting, etc.)
 - It is useful to create one Exam. Tag for upper/middle/lower images (middle/lower for two in composite) before stitching.

Example of Exam. Tags for stitching

Application	Serial No.	Group	Exp. Cond.
Composite	101012820043100000	Spine	AP
Bef. Stitch-UP	101012820043100100	Spine	AP-UP
Bef. Stitch-MID	101012820043100200	Spine	AP-MID
Bef. Stitch-LO	101012820043100300	Spine	AP-LO

- Image processing of the composite image (after stitching) will be carried out using the image processing parameters set to the middle image (lower image for two in composite), and not the image processing parameters set to the Exam. Tags for composite image.
Therefore, when the adjustment on the composite image is required using the User Tool, change the image processing parameters for the middle image (lower image for two in composite) to reflect such change upon the composite image.

6.1.2 Master/sub-master

The types, major settings, and classification method of the master/sub-master are as follows.

Master

● Exam. Tag master

Contains information related to Exam. Tags and information on the link to each sub-master.

Major settings	Image rotation/inversion, exposure size, modality used, detector used, links to various types of sub-masters, etc.
Classification method	Masters are classified based on the exposure body part, direction, procedure, etc. (The one selected from the screen is a master.)

Item Name	Description
Priority Detector	Set the priority to be applied when you select a detector.
Priority Modality	Set the priority to be applied when you select a modality.
DR Cassette Size	Set the size of the AeroDR Detector to be used.
Warning Message	Set whether or not to display warning messages for pneumoconiosis processing.
Automatic Reading	Select [OFF], [Position], or [Size/Pos.] to configure the setting for automatic detection of image reading size, direction, and position. If [OFF] is selected, the values set for [Size], [Direction], and [Position] are used for the reading size, direction, and position. If [Position] is selected, the value set for [Size] is used as the reading size setting and [Direction] is used as the reading direction setting. The reading position is automatically detected. If [Size/Pos.] is selected, the reading size, direction, and position are automatically detected.
Size	Set the image reading size. The value set for this item is used when [Automatic Reading] is set to [OFF] or [Position].
Direction	Set the image reading direction. The value set for this item is used when [Automatic Reading] is set to [OFF] or [Position].
Position	Set the image reading position. The value set for this item is used when [Automatic Reading] is set to [OFF].
Maximum Exposure Time	Set the maximum exposure time.
Resolution	Set the image reading resolution.
Sensitivity	Set the reading sensitivity to be applied when REGIUS is used.
Rotation	Set the angle by which the image is rotated.
Flip	Set this item to flip the image horizontally.
X-Ray CH	Set the CH number of the X-ray device to be coordinated with the exposure setting.
Patient Orientation (Column)	Set the patient orientation for columns of the image.
Patient Orientation (Row)	Set the patient orientation for rows of the image.
Body Size	Set the body size exposure setting to be coordinated with the exposure setting.
Exposure Condition	Set the exposure setting sub-master to be coordinated with the exposure setting.
Image Laterality	Set the image laterality sub-master.
View Code	Set the view code sub-master.
Body Part	Set the body part sub-master.
Contrast	Set the contrast sub-master.
X-Ray Grid	Set the X-ray grid sub-master.

Item Name	Description
X-Ray Filter	Set the X-ray filter sub-master.
Output Device	Set the HOST and printer used for automatic output.
HOST Output	Set the HOST output sub-master.
Reference image output	Set this item to output images using EMRs (image coordination).
HOST Overlay	Set the overlay output sub-master used for HOST output.
PRINTER	Set the printer output sub-master.
PRINTER Overlay	Set the overlay output sub-master used for printer output.
Image Processing	Set the image processing sub-master.
E Processing	Set whether to turn E the image processing ON or OFF.
F Processing	Set whether to turn the F image processing ON or OFF.
E/F Processing Type	Select [Standard] or [Hybrid] to set the type of E and F image processing.
HS Processing	Set whether to turn the HS image processing ON or OFF.
Combined Output Pagination	This item sets exposure conditions for stitching images. When outputting a stitching image to the printer, set the number of sheets of film into which the image is divided.
Lung Lack Detection	Set whether to turn the lung lack detection processing ON or OFF.
Motion Blur Detection	Set whether to turn the motion blur detection processing ON or OFF.
IG	Set whether to execute the scattered radiation correction process under image processing.
IG Reflection	Set the default state of the [IG] button when starting exposure. When [ON], scattered radiation correction processing is applied.

 **IMPORTANT**

- The maximum exposure time is not displayed when the setting value is set to less than 0.8 seconds, or when the Aero Sync connection is used.
 - If the maximum exposure time is increased, it may take some time to return to the "Ready" state from "Sleep".
 - In some cases, the maximum exposure time may be fixed by the X-ray device. For more details, contact Konica Minolta technical representatives.
-

 **HINT**

- If AeroDR 1717HQ is automatically selected, select [17" x 17"] from [DR Cassette Size]. AeroDR Detector type can be manually selected on the exposure screen.
-

Sub-master

● Exposure Setting sub-master

Contains information related to X-ray exposure settings for each body type.

Major settings	Anatomical code, tube selection, tube voltage, tube current, exposure time, AEC, distance between radiation source detection devices, etc.
Classification method	Exposure Condition sub-master is defined for each body part. (Head, chest, etc., are defined by default. You can customize these items for each institution environment.)

Item Name	Description
APR Code	Set this item to use anatomical codes. If no codes are used, [FFFF] will be output. The system of anatomical codes differs depending on the manufacturer.
Tube	Set the X-ray tube to be used.
Workstation	Set the operative method (workstation) to be used.
Pediatric ON	Set this item to [ON] to configure settings for pediatric body sizes.
Pediatric Setting Mode	Select [mA ms] or [mAs] to specify the setting mode for tube voltage, tube current, exposure time, and exposure for pediatric body sizes. When [mA ms] is selected, the setting mode is set to Manual: 3-point (tube voltage, tube current, and exposure time). When [mAs] is selected, the setting mode is set to Auto: 2-point (tube voltage and exposure).
Pediatric kV	Set the tube voltage for pediatric body sizes.
Pediatric kA	Set the tube current for pediatric body sizes.
Pediatric mS	Set the exposure time for pediatric body sizes.
Pediatric mAs	Set the exposure for pediatric body sizes.
Pediatric Focal Size	Set the focal size for pediatric body sizes.
Pediatric AEC	Set the AEC for pediatric body sizes.
Pediatric Sensitivity	Set the AEC sensitivity for pediatric body sizes.
Pediatric Density	Set the AEC density for pediatric body sizes.
Pediatric Film Screen	Set the film screen for pediatric body sizes.
Pediatric X-Ray Filter	Set the X-ray filter for pediatric body sizes.
Pediatric SID[mm]	Set the SID for pediatric body sizes.
Small ON	Set this item to [ON] to configure settings for small body sizes.
Small Setting Mode	Select [mA ms] or [mAs] to specify the setting mode for tube voltage, tube current, exposure time, and exposure for small body sizes. When [mA ms] is selected, the setting mode is set to Manual: 3-point (tube voltage, tube current, and exposure time). When [mAs] is selected, the setting mode is set to Auto: 2-point (tube voltage and exposure).
Small kV	Set the tube voltage for small body sizes.
Small kA	Set the tube current for small body sizes.
Small mS	Set the exposure time for small body sizes.
Small mAs	Set the exposure for small body sizes.
Small Focal Size	Set the focal size for small body sizes.
Small AEC	Set the AEC for small body sizes.
Small Sensitivity	Set the AEC sensitivity for small body sizes.
Small Density	Set the AEC density for small body sizes.
Small Film Screen	Set the film screen for small body sizes.
Small X-Ray Filter	Set the X-ray filter for small body sizes.
Small SID[mm]	Set the SID for small body sizes.

Item Name	Description
Medium ON	Set this item to [ON] to configure settings for medium body sizes.
Medium Setting Mode	Select [mA ms] or [mAs] to specify the setting mode for tube voltage, tube current, exposure time, and exposure for medium body sizes. When [mA ms] is selected, the setting mode is set to Manual: 3-point (tube voltage, tube current, and exposure time). When [mAs] is selected, the setting mode is set to Auto: 2-point (tube voltage and exposure).
Medium kV	Set the tube voltage for medium body sizes.
Medium kA	Set the tube current for medium body sizes.
Medium mS	Set the exposure time for medium body sizes.
Medium mAs	Set the exposure for medium body sizes.
Medium Focal Size	Set the focal size for medium body sizes.
Medium AEC	Set the AEC for medium body sizes.
Medium Sensitivity	Set the AEC sensitivity for medium body sizes.
Medium Density	Set the AEC density for medium body sizes.
Medium Film Screen	Set the film screen for medium body sizes.
Medium X-Ray Filter	Set the X-ray filter for medium body sizes.
Medium SID[mm]	Set the SID for medium body sizes.
Large ON	Set this item to [ON] to configure settings for large body sizes.
Large Setting Mode	Select [mA ms] or [mAs] to specify the setting mode for tube voltage, tube current, exposure time, and exposure for large body sizes. When [mA ms] is selected, the setting mode is set to Manual: 3-point (tube voltage, tube current, and exposure time). When [mAs] is selected, the setting mode is set to Auto: 2-point (tube voltage and exposure).
Large kV	Set the tube voltage for large body sizes.
Large kA	Set the tube current for large body sizes.
Large mS	Set the exposure time for large body sizes.
Large mAs	Set the exposure for large body sizes.
Large Focal Size	Set the focal size for large body sizes.
Large AEC	Set the AEC for large body sizes.
Large Sensitivity	Set the AEC sensitivity for large body sizes.
Large Density	Set the AEC density for large body sizes.
Large Film Screen	Set the film screen for large body sizes.
Large X-Ray Filter	Set the X-ray filter for large body sizes.
Large SID[mm]	Set the SID for large body sizes.

6.1 Exam. Tag summary

● Contrast sub-master

Contains information related to contrast medium agents.

Major settings	Contrast medium, bolus route, duct, capacity, component, component density, etc.
Classification method	Contrast sub-master is defined for each contrast medium type. (The default is defined mainly according to DICOM standards.)

Item Name	Description
Agent	Set the agent.
Route	Set the route.
Volume [ml]	Set the volume.
Total Dose [ml]	Set the total dose.
Flow Rate [ml/s]	Set the flow rate.
Flow Duration	Set the flow duration.
Material	Set the material.
Material Concentration [mg/s]	Set the material concentration.

● X-Ray Filter sub-master

Contains information related to X-ray filter materials.

Major settings	X-ray filter type, material, thickness, etc.
Classification method	The X-Ray Filter sub-master is defined for each X-ray filter type. (The default is defined mainly according to DICOM standards.)

Item Name	Description
Type	Set the type.
Material	Set the material.
Minimum Thickness [mm]	Set the minimum thickness.
Maximum Thickness [mm]	Set the maximum thickness.

● X-Ray Grid sub-master

Contains information related to X-ray grid materials.

Major settings	X-ray grid materials, thickness, pitch, aspect ratio, grid focal distance, etc.
Classification method	The X-Ray Grid sub-master is defined for each X-ray grid type. (The default is defined mainly according to DICOM standards.)

Item Name	Description
Type	Set the type.
Absorbing Material	Set the absorbing material.
Spacing Material	Set the spacing material.
Thickness [mm]	Set the thickness of the absorbing material.
Pitch [mm]	Set the pitch of the absorbing material.
Aspect Ratio(X)	Set the horizontal component of the aspect ratio of the absorbing material.
Aspect Ratio(Y)	Set the vertical component of the aspect ratio of the absorbing material.
Period [ms]	Set the cycle time when you have set the type to [RECIPROCATING].
Focal Distance [mm]	Set the focal distance when you have set the type to [FOCUSED].

● View Code sub-master

Contains information related to image direction. Can only be selected.

Major settings	Exposure direction (visual field code, visual field code modifier), etc.
Classification method	View Code sub-master is defined for each exposure direction. (The default is defined mainly according to DICOM standards.)

Item Name	Description
View Code	Set the view code.
View Modifier Code	Set the view modifier code.

● Image Laterality sub-master

Contains information related to image laterality.

Major settings	Laterality (left and right), etc.
Classification method	Image Laterality sub-master is defined for each laterality. (The default is defined mainly according to DICOM standards.)

Item Name	Description
Image Laterality	Set the image laterality.

● Body Part sub-master

Contains information related to body part.

Major settings	Anatomical area, etc.
Classification method	Body Part sub-master is defined for each anatomical area. (The default is defined mainly according to DICOM standards.)

Item Name	Description
Body Part Examined	Set the body part to be examined.
Anatomic Region	Set the region of anatomic interest.

6.1 Exam. Tag summary

● Image Processing sub-master

Contains information related to image processing.

Major settings	Parameters such as exposure field recognition, body part recognition, gradation processing, and frequency processing.
Classification method	Image Processing sub-master is defined for each body part.

Item Name	Description
Basic LUT	Set the LUT for automatic gradation processing.
DL	Set the density on the low-density side for automatic gradation processing. For [DL], [DH], and [Fix G Value], two of the three items must be set (excluding some special image processing conditions).
DH	Set the density on the high-density side for automatic gradation processing. For [DL], [DH], and [Fix G Value], two of the three items must be set (excluding some special image processing conditions).
Fix G Value	Set the fixed gradient for automatic gradation processing. For [DL], [DH], and [Fix G Value], two of the three items must be set (excluding some special image processing conditions).
E Processing Mask Size	Set the mask size for standard-type E processing. The larger the mask size, the lower the frequency range to which the spatial frequency domain to be corrected is restricted, changing the density of large structural objects in the image. Conversely, when the mask parameter value is small, the influence of correction extends to relatively high frequency ranges, changing the density of small structural objects.
E Processing Low Density	Set the highlight level on the low-density side for standard-type E processing.
E Processing High Density	Set the highlight level on the high-density side for standard-type E processing.
F Processing Mask Size	Set the mask size for standard-type F processing. The larger the mask size, the lower the frequency range to be emphasized to the greatest degree, changing the contrast of large structural objects. Conversely, when the mask parameter value is small, high frequency ranges are emphasized to the greatest degree, changing the contrast of small structural objects.
F Processing Low Density	Set the highlight level on the low-density side for standard-type F processing.
F Processing High Density	Set the highlight level on the high-density side for standard-type F processing.
HE Processing Enhance Type	Select [HE-STANDARD1] or [HE-STANDARD2] to set the enhancement type for hybrid-type E processing. [HE-STANDARD1] places importance on edges in low-density regions. This setting is effective when you want to have a clear view of small structural objects such as bone trabeculae. Typical applicable body parts are anywhere other than the front and lateral aspects of the chest. [HE-STANDARD2] places importance on graininess in low-density regions. Selecting this setting inhibits degradation of graininess in regions such as those under the diaphragm. Typical applicable body parts are the front and lateral aspects of the chest.
HE Processing Low Density	Set the highlight level on the low-density side for hybrid-type E processing.
HE Processing High Density	Set the highlight level on the high-density side for hybrid-type E processing.
HF Processing Enhance Type	Select from [HF-STANDARD1] to [HF-STANDARD6] to set the enhancement type for hybrid-type F processing. [HF-STANDARD1] and [HF-STANDARD2] are effective settings for body parts where you want to highlight organs or soft tissues and enhance contrast on the entire image. Typical applicable body parts include the abdomen and pelvis. [HF-STANDARD3] and [HF-STANDARD4] are effective settings for body parts where you want to highlight large bone tissues such as vertebral bodies or highlight bone trabeculae along with their soft areas. These settings provide relatively versatile frequency characteristics. Typical applicable body parts include vertebral bodies (spine), hip joints, thighbones, and lower leg bones. [HF-STANDARD5] and [HF-STANDARD6] are effective settings for body parts where you want to highlight bone trabeculae, blood vessels, and other small structural objects and details. Typical applicable parts are bones in body extremities, the cervical spine (bone trabeculae), the chest (blood vessels), head, and breasts.
HF Processing Low Density	Set the highlight level on the low-density side for hybrid-type F processing.
HF Processing High Density	Set the highlight level on the high-density side for hybrid-type F processing.

Item Name	Description
HS Processing HS LEV	Set the level of HS processing.
HS Processing DOSE ID	Set the dose ID type of HS processing.
HS Processing DENS ID	Set the dens ID type of HS processing.
Scattered Radiation Correction Processing Grid Ratio	Set the grid ratio.
Scattered Radiation Correction Processing Correction Level	Set the correction level.
Scattered Radiation Correction Processing Tube Voltage	Set the tube voltage. Specify the value closest to the assumed exposure conditions.
Scattered Radiation Correction Processing SID	Set SID (cm). Specify the value closest to the assumed exposure conditions. Set "0" to run in automatic estimation mode.
Scattered Radiation Correction Processing mAs	Set the mAs value (mAs). Specify the value closest to the assumed exposure conditions. Set "0" to run in automatic estimation mode.

● HOST sub-master

Contains information related to host output.

Major settings	Output size, output direction, existence of blackening process outside the exposure field, etc.
Classification method	HOST sub-master is defined for each output size/direction.

Item Name	Description
Output Mode	Select [Fixed Size] or [Reading Size] to set the output mode.
Size	Set the output image size to be used when [Fixed Size] is selected for the output mode.
Orientation	Select [Portrait], [Landscape], or [Linking] to set the orientation of the output image. When [Linking] is selected, the orientation changes in accordance with the image reading direction.
Trimming Position	Set the trimming position of images for which the output mode is set to [Fixed Size] and whose output size is smaller than the reading size.
Output Position	Set the output position of images for which the output mode is set to [Fixed Size] and whose output size is larger than the reading size.
Masking	Select whether to turn the masking processing ON or OFF.
Chest Wall Black Masking	Select whether to turn the chest wall black masking processing ON or OFF.
Background	Select the background color.

● PRINTER sub-master

Contains information related to printer output.

Major settings	Output size, output direction, format, existence of blackening process outside the exposure field, etc.
Classification method	PRINTER sub-master is defined for each output size/output direction/format.

Item Name	Description
Number of Copies	Set the number of sheets of film to be output.
Output Mode	Select [Fixed Size] or [Reading Size] to set the output mode.
Size (Fixed)	Set the film size used when [Fixed Size] is selected for the output mode.
Size (8"×10" Reading)	Set the output film size used when [Reading Size] is selected for the output mode and the reading size is 8"×10".
Size (10"×12" Reading)	Set the output film size used when [Reading Size] is selected for the output mode and the reading size is 10"×12".
Size (11"×14" Reading)	Set the output film size used when [Reading Size] is selected for the output mode and the reading size is 11"×14".
Size (14"×14" Reading)	Set the output film size used when [Reading Size] is selected for the output mode and the reading size is 14"×14".

6.1 Exam. Tag summary

Item Name	Description
Size (14"×17" Reading)	Set the output film size used when [Reading Size] is selected for the output mode and the reading size is 14"×17".
Size (24×30cm Reading)	Set the output film size used when [Reading Size] is selected for the output mode and the reading size is 24×30cm.
Size (18×24cm Reading)	Set the output film size used when [Reading Size] is selected for the output mode and the reading size is 18×24cm.
Size (17"×17" Reading)	Set the output film size used when [Reading Size] is selected for the output mode and the reading size is 17"×17".
Size (15×30cm Reading)	Set the output film size used when [Reading Size] is selected for the output mode and the reading size is 15×30cm.
Size (18×24cm - Mammo Reading)	Set the output film size used when [Reading Size] is selected for the output mode and the reading size is 18×24cm - Mammo.
Size (24×30cm - Mammo Reading)	Set the output film size used when [Reading Size] is selected for the output mode and the reading size is 24×30cm - Mammo.
Orientation	Select [Portrait], [Landscape], or [Linking] to set the orientation of the output image. When [Linking] is selected, the orientation changes in accordance with the image reading direction.
Format	Set the frame layout of film output.
Presentation Size Mode	Select [True Size] or [Scale to Fit] to set whether to enlarge or reduce the image to the output size. When [True Size] is selected, the image is output in its actual size. When [Scale to Fit] is selected, the image is enlarged or reduced before it is output so that it fits the output size.
Trimming Position	Set the trimming position of images for which the output mode is set to [Fixed Size] and whose output size is smaller than the reading size.
Output Position	Set the output position of images for which the output mode is set to [Fixed Size] and whose output size is larger than the reading size.
Masking	Select whether to turn the masking processing ON or OFF.
Chest Wall Black Masking	Select whether to turn the chest wall black masking processing ON or OFF.
Background	Select the background color.

● Overlay sub-master

Contains information related to overlay.

Major settings	Parameters such as marker type/positioning and stamp type/positioning.
Classification method	Default is not defined. (The institution environment needs to be customized when implementing X-ray information coordination.)

Item Name	Description
Stamp	Select the type of stamp to be overlaid. To change the definition of the stamp, use the Stamp menu in the user tool.
Stamp Position	Select the overlay position of the stamp.
Marker 1	Select the type of Marker 1 to be overlaid. To change the definition of the marker, use the Marker menu in the user tool.
Marker 1 Position	Select the overlay position of Marker 1.
Marker 2	Select the type of Marker 2 to be overlaid. To change the definition of the marker, use the Marker menu in the user tool.
Marker 2 Position	Select the overlay position of Marker 2.
Scale	Select the type of scale and grid to be overlaid.

6.1.3 [Easy Edit Mode] and [Detail Edit Mode]

The Exam. Tag edit tool has two edit modes: [Easy Edit Mode] and [Detail Edit Mode].

[Easy Edit Mode] and [Detail Edit Mode] cannot be used in combination. The recommended setting is [Easy Edit Mode].

For details on switching edit modes, contact Konica Minolta technical representatives.

● Easy Edit mode

This is an edit mode that only displays sub-masters that you need to edit.

The setting items related to output and overlay should be set in Exam. Tag Master.

You can use the exposure condition edit tool screen for editing individual Exam. Tags.

IMPORTANT

- The sub-masters for [X-Ray Filter], [X-Ray Grid], [Contrast], [View Code], [Image Laterality], and [Body Part] are not displayed to be edited. If you want to display those sub-masters to edit them, contact Konica Minolta technical representatives.
- When the number of master and sub-master settings to be edited is large, operations in [Easy Edit Mode] may be slow.
- When the number of settings is large, a message is displayed. Delete unused settings.

HINT

- The sub-master setting items for [HOST], [PRINTER], and [Overlay] are displayed as setting items for Exam Tag masters rather than as those for sub-masters.
- The sub-masters for [Image Processing] and [Exposure Condition] are displayed as items to be edited.

● Detail Edit mode

This is an edit mode that displays almost all sub-masters for editing.

The setting items related to output and overlay should be set in corresponding sub-masters.

You cannot use the exposure condition edit tool screen for editing individual Exam. Tags.

IMPORTANT

- The sub-master setting items for [View Code] are not displayed as items to be edited.

HINT

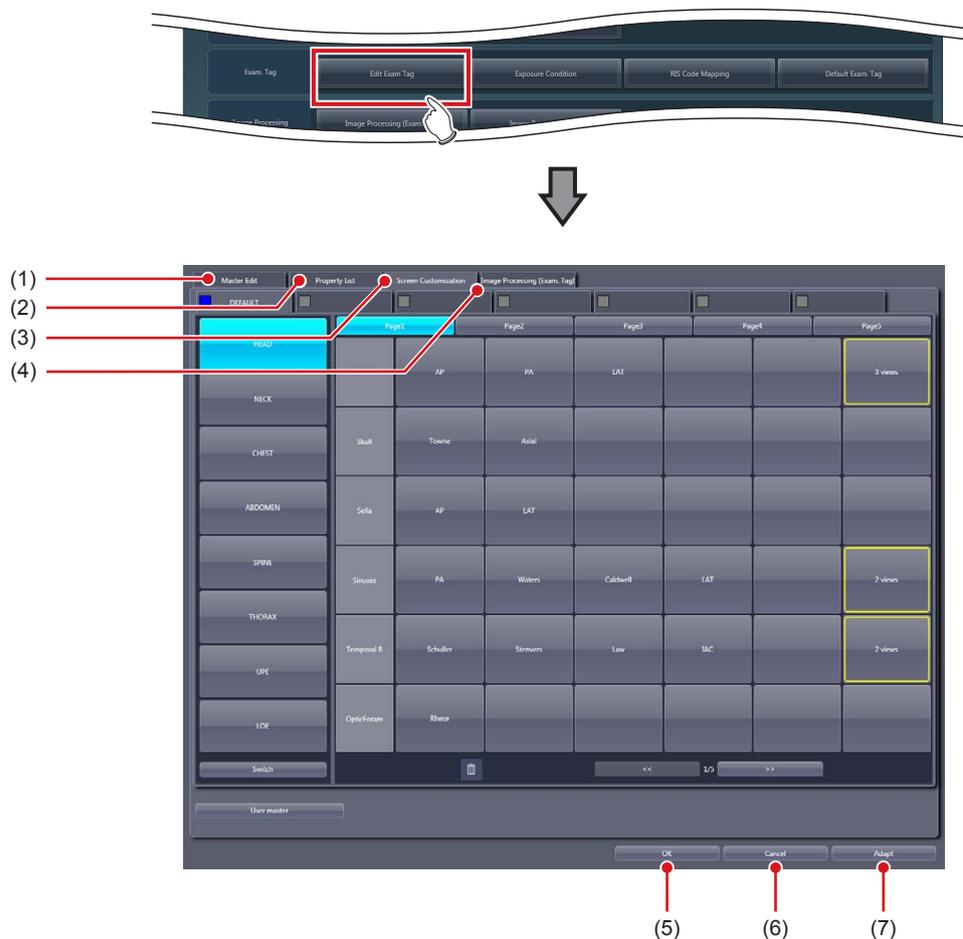
- The sub-masters for [Image Processing], [Exposure Condition], [X-Ray Filter], [X-Ray Grid], [Contrast], [Image Laterality], [Body Part], [HOST], [PRINTER], and [Overlay] are displayed as sub-masters to be edited.

6.2 • [Edit Exam Tag]

This tool is for adding and editing the settings of the Exam. Tags.

6.2.1 Exam. Tag edit tool screen

When [Edit Exam Tag] of the [Exam. Tag] area is pressed, the Exam. Tag edit tool screen is displayed.



Number	Name	Function
(1)	[Master Edit] tab	Displays the screen to add the preset Exam. Tags to the system.
(2)	[Property List] tab	Displays the screen to edit the setting contents (property) of the Exam. Tags.
(3)	[Screen Customization] tab	Displays the screen to edit the positioning of the Exam. Tag on the body part selection screen.
(4)	[Image Processing (Exam. Tag)] tab	Displays the screen to process images of Exam. Tag.
(5)	[OK]	Saves the settings and closes the screen.
(6)	[Cancel]	Closes the screen without saving the settings.
(7)	[Adapt]	Saves the settings with the screen displayed.

6.2.2 [Master Edit] screen

This is the screen that is displayed when the [Master Edit] tab is selected on the Exam. Tag edit tool screen. Add the Exam. Tags prepared in advance as the maker master to the system as the user master.



HINT

- The default configuration of the master/sub-master is registered as the maker master.
- When using this device, copy the necessary Exam. Tags from the maker master and use the created user master.
- The user master can be used for copying and customizing settings when necessary. You can also easily return it to its initial value.
- The maker master cannot be modified.

● If master is selected in [Selection Master/Sub-Master]



Number	Name	Function
(1)	[Selection Master/Sub-Master]	For selecting the exposure condition/related condition to edit from exposure conditions or the related conditions that exposure condition refers to.
(2)	[BodyPart]	For narrowing down body parts to be displayed in [Maker master]/[User master]. You can use this item only when the Exam. Tag master is selected.
(3)	[Free Word]/[Filter]	For narrowing down exposure conditions/related conditions to be displayed in [Maker master]/[User master].
(4)	[Maker master]	Displays a list of maker presets according to exposure conditions/related conditions selected in [Selection Master/Sub-Master]. Select the conditions to add to [User master]. <ul style="list-style-type: none"> • Conditions not copied to [User master] are displayed with white characters. • Conditions copied to [User master] are displayed with gray characters. <div style="border: 1px solid black; padding: 2px; display: inline-block;"> IMPORTANT </div> <ul style="list-style-type: none"> • You cannot register the same conditions of [Maker master] to [User master]. • You cannot change the condition name in [Maker master].
(5)	[User master]	Displays a list of conditions added to the system. <ul style="list-style-type: none"> • Background of the characters for the Exam. Tag master that is positioned to the body part selection screen and the sub-master linked to the Exam. Tag master is displayed in green. • Copied master and sub-master are displayed with orange characters. • In [Easy Edit Mode], double-click the name of the Exam. Tag master you want to edit to display the exposure condition edit tool screen.
(6)	[>]	Copies the selected condition in [Maker master] to [User master].

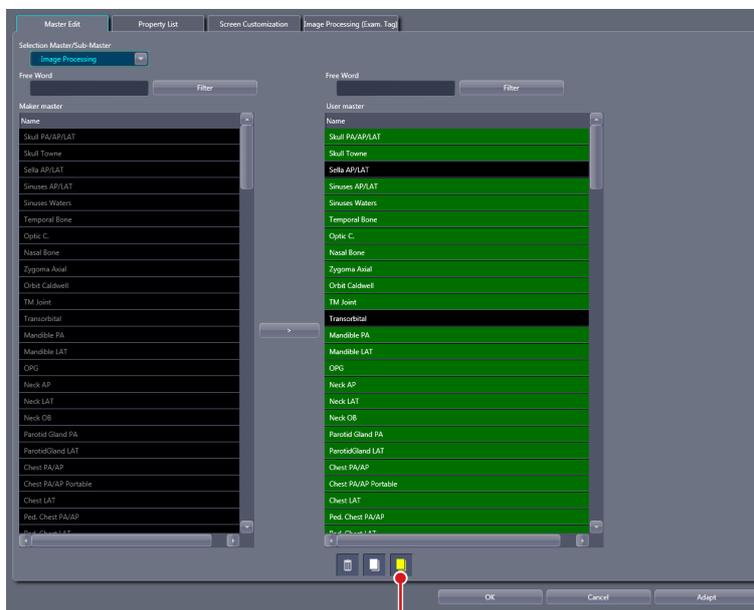
6.2 [Edit Exam Tag]

Number	Name	Function
(7)	Text Color Display Setting	Select this option to display the Exam. Tag group names and Exam. Tag names in colored characters that are displayed in the order list of the exposure screen and the Exam.Tags display area of the body part selection screen. To display the Exam. Tag group names in colored characters, select [Group], and to display the Exam. Tag names in colored characters, select [Name]. The default character color is yellow. If you want to change the character color, contact Konica Minolta technical representatives.
(8)	Trash	You can delete the conditions displayed in [User master] by dragging and dropping the conditions from [User master] here. IMPORTANT <ul style="list-style-type: none"> The Exam. Tag master and sub-master (the Exam. Tag user master that is positioned to the body part selection screen and the sub-master linked to the master) with the background of the characters displayed in green cannot be deleted. If you try to delete, a message saying that the condition is registered to the Exam. Tag is displayed and the deletion is canceled. To delete, it is necessary to change the back ground of the characters to black by canceling the position to the body part selection screen and releasing the link to the master.
(9)	Copy	You can copy the conditions displayed in [User master] by dragging and dropping the conditions in [User master] here. <ul style="list-style-type: none"> The masters and sub-masters that have been registered by copying will be displayed with orange characters.

IMPORTANT

- Depending on the exposure body part setting created and edited in [User master], even same exposure body parts may differ in Exam. Tag. Before exposure, be sure to confirm the exposure body part and the exposure condition.

● If sub-master is selected in [Selection Master/Sub-Master]



(1)

Number	Name	Function
(1)	Specialized Copy	During sub-master selection, if the condition displayed in [User master] is dragged and dropped here, specific modality/detector exclusive Exam. Tags can be created. HINT <ul style="list-style-type: none"> Device dependent Exam. Tags can be created without increasing the Exam. Tag master.

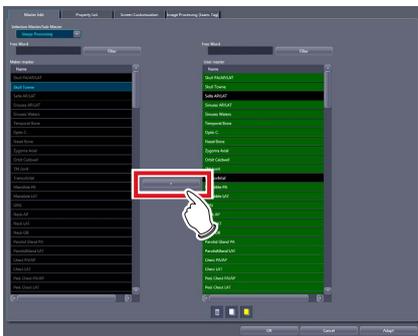
6.2.3 Operation of the [Master Edit] screen

The editing method for user master is as follows.

● Registration of the [User master]

1 Select the condition you want to register to [User master] from exposure conditions/related conditions displayed in [Maker master].

2 Press [>].



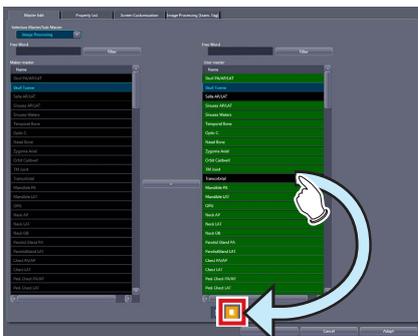
- The condition selected in [Maker master] is copied to [User master].
- You can also copy conditions by dragging and dropping the condition selected in [Maker master] directly into [User master].

HINT

- You can narrow down the display items in [Maker master] by inputting the keyword in [Free Word] and pressing [Filter]. It is convenient when you select exposure conditions/related conditions.

● Copying of the exposure condition

1 Select the exposure condition/related condition you want to copy in the [User master], and drag and drop it into Copy.



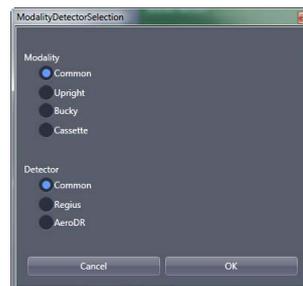
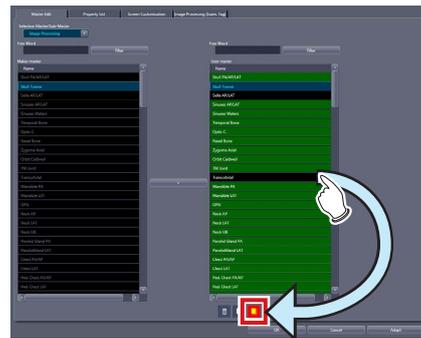
- The exposure conditions that have been registered by copying will be displayed with orange characters.

IMPORTANT

- When a copy is made of an Exam. Tag master, all settings including links to sub-masters are transferred. You can freely change the link settings and other setting values after a copy is made.
- All settings are transferred when sub-masters are copied, but the link from the Exam. Tag master is not transferred. Please set the link from the Exam. Tag master after copying. You can also freely change setting values after copying.

● Specialized copying of sub-master

1 Select the exposure condition/related condition you want to make a specialized copy of in the [User master], and drag and drop it into Specialized copy.



- The condition selection screen is displayed.

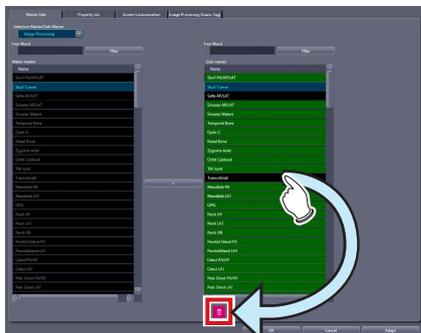
2 Select the modality and detector and press [OK].

IMPORTANT

- If a specialized copy is performed, all setting values will be transferred. You can freely change the setting values after a specialized copy.
- There is no need to change the links from the Exam. Tag masters. The link will automatically change following the modality/detector used for the exposure.

● **Deleting the exposure condition**

- 1 **Select exposure condition/related condition you want to delete in the [User master], and drag and drop it into Trash.**



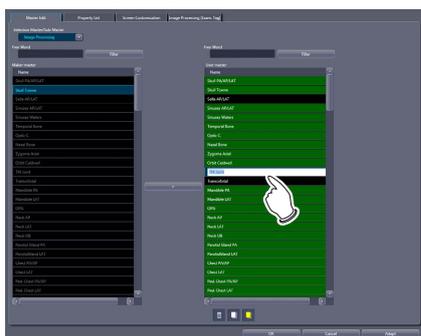
- Once you drop it to Trash, the deletion confirmation screen is displayed.

IMPORTANT

- The Exam. Tag master and sub-master (the Exam. Tag user master that is positioned to the body part selection screen and the sub-master linked to the master) with the background of the characters displayed in green cannot be deleted. If you try to delete, a message saying that the condition is registered to the Exam. Tag is displayed and the deletion is canceled. To delete, it is necessary to change the back ground of the characters to black by canceling the position to the body part selection screen and releasing the link to the master.
-

● **Editing the name of the exposure condition**

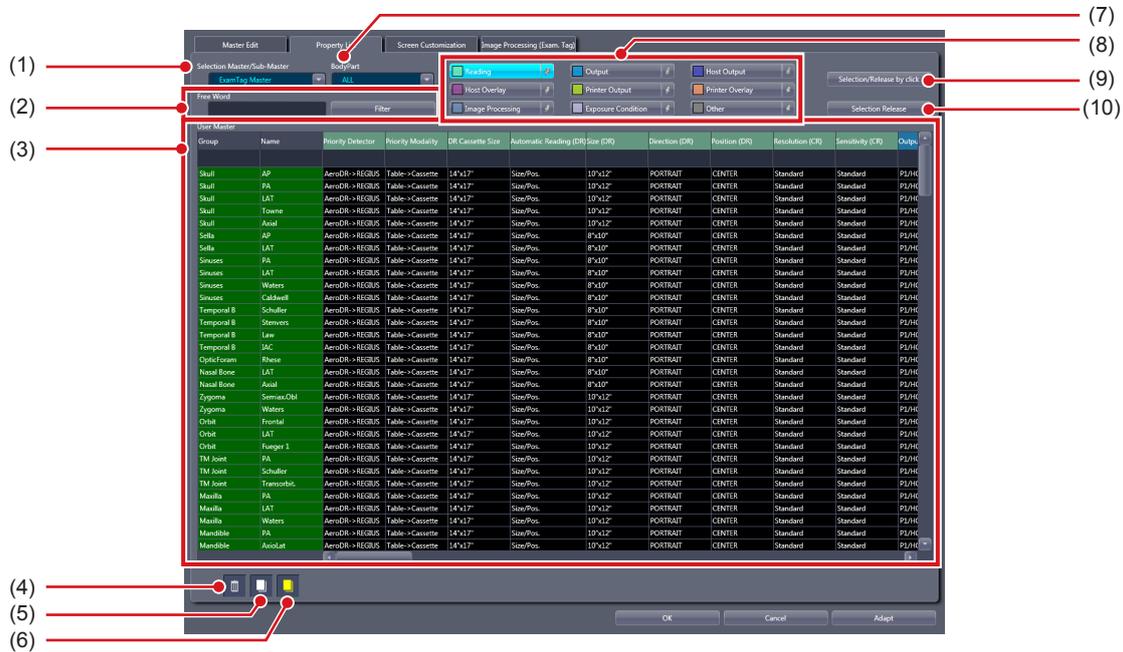
- 1 **Right click the name or group name of the exposure condition/related condition which you want to edit in the [User master].**



- The right-clicked cell is highlighted and becomes editable.

6.2.4 [Property List] screen

This is the screen that is displayed when the [Property List] tab is selected on the Exam. Tag edit tool screen. Edit the setting contents (properties) of Exam. Tags.



Number	Name	Function
(1)	[Selection Master/Sub-Master]	For selecting the exposure condition/related condition to edit the setting contents (property).
(2)	[Free Word]/[Filter]	For narrowing down exposure conditions/related conditions to be displayed in setting parameter/edit field.
(3)	Setting parameter/edit field	Displays the list of setting contents (property) of each exposure condition/related condition. You can edit contents by specifying the condition and property. In [Easy Edit Mode], double-click a condition displayed in the setting parameter/edit field to display the exposure condition edit tool screen.
(4)	Trash	You can delete the conditions displayed in the setting parameter/edit field by dragging and dropping the conditions here. <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;"> IMPORTANT </div> <ul style="list-style-type: none"> The Exam. Tag master and sub-master (the Exam. Tag user master that is positioned to the body part selection screen and the sub-master linked to the master) with the background of the characters displayed in green cannot be deleted. If you try to delete, a message saying that the condition is registered to the Exam. Tag is displayed and the deletion is canceled. To delete, it is necessary to change the back ground of the characters to black by canceling the position to the body part selection screen and releasing the link to the master.
(5)	Copy	You can copy the conditions displayed in the setting parameter/edit field by dragging and dropping the conditions here. <ul style="list-style-type: none"> The masters and sub-masters that have been registered by copying will be displayed with orange characters.
(6)	Specialized Copy	You can create specific modalities/detector exclusive conditions by dragging and dropping the conditions displayed in the setting parameter/edit field here. <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;"> HINT </div> <ul style="list-style-type: none"> Device dependent Exam. Tags can be created without increasing the Exam. Tag master.
(7)	[BodyPart]	For narrowing down the setting contents (properties) to be edited. You can use this item only when the Exam. Tag master is selected.

Number	Name	Function
(8)	Group buttons	<p>Displays buttons for a group of setting items. When a button for each group is pressed, the setting items for that group are displayed in the setting parameter/edit field.</p> <p> HINT</p> <ul style="list-style-type: none"> • Turn [OFF] the right-most pin of the group button to cancel the display of the group. Click to toggle the pin [ON] or [OFF]. • If operations are slow on the [Property List] screen, lowering the number of groups normally displayed fixes performance.
(9)	Data selection mode	<p>Select [Use Ctrl/Shift key] or [Selection/Release by click] for the data selection mode that is used in the setting parameter/edit field. The selection mode changes each time the button is pressed.</p> <ul style="list-style-type: none"> • [Use Ctrl/Shift key] operation <ul style="list-style-type: none"> – Click: Selects only the data you clicked. Deselects other selected data. – Ctrl key + Click: Selects multiple pieces of data individually. It toggles between selection and deselection each time they are pressed. – Shift key + Click: Selects multiple pieces of data in succession. • [Selection/Release by click] operation <ul style="list-style-type: none"> – Click: Selects only the data you clicked. Deselects other selected data. – Ctrl key + Click: Selects multiple pieces of data individually. It toggles between selection and deselection each time they are pressed. – Shift key + Click: Selects multiple pieces of data in succession.
(10)	[Selection Release]/[Select All]	<p>When [Use Ctrl/Shift key] is selected for the data selection mode, [Select All] is displayed. When [Selection/Release by click] is selected for the data selection mode, [Selection Release] is displayed.</p> <ul style="list-style-type: none"> • [Select All]: Selects all of the exposure conditions/related conditions displayed in the setting parameter/edit field. • [Selection Release]: Releases selection of exposure condition/related condition displayed in the setting parameter/edit field.

6.2.5 Operation of the [Property List] screen

The editing method for properties is as follows.

● Editing the properties

- 1 Select the exposure conditions whose properties you want to edit (1) and the item name (2).
 - Multiple exposure conditions can be selected.



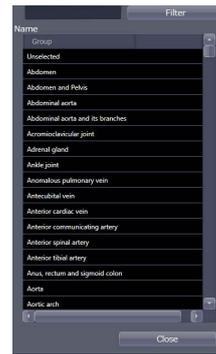
- 2 Double-click on items which have nothing displayed in the column under their name.



(Example) The list box display

Condition (CR)	Sensitivity (CR)	Output
Standard	Low	P1/HK
Standard	Standard	P1/HK
Standard	High	P1/HK
Standard	Standard	P1/HK
Standard	Standard	P1/HK
Standard	Standard	P1/HK

(Example) The sub-master selection dialog display

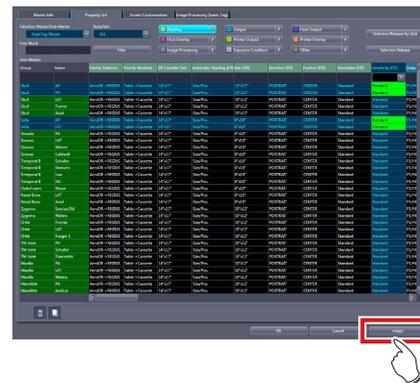


- When the link item to the sub-master is clicked, the sub-master selection dialog will be displayed.

- 3 Select the value or the sub-master.

- Some of the selection of the setting value are done by entering characters.
- Selection of the sub-master is done by double clicking.

- 4 Press [Adapt].



- The setting value or the link to sub-master will be set.

IMPORTANT

- When the setting value of the sub-master that is linked from multiple Exam. Tag masters is changed, all settings of the related Exam. Tag masters will be changed as well.

When you want to change only a specific Exam. Tag master setting, copy the shared sub-master, set a new link, and change the setting value.

- Changing the setting value of the Exam. Tag master will not affect the setting of the linked sub-master.

HINT

- The changed contents of the setting are displayed with red characters while the contents are being saved.

● Copying of the exposure condition

- 1 Select the exposure condition/related condition you want to copy in the setting parameter/edit field, and drag and drop it into Copy.



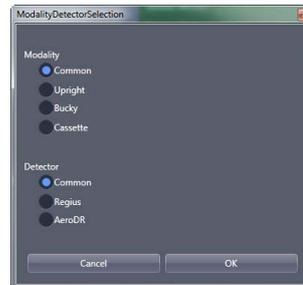
- The exposure conditions that have been registered by copying will be displayed with orange characters.

IMPORTANT

- When a copy is made of an Exam. Tag master, all settings including links to sub-masters are transferred. You can freely change the link settings and other setting values after a copy is made.
 - All settings are transferred when sub-masters are copied, but the link from the Exam. Tag master is not transferred. Please set the link from the Exam. Tag master after copying. You can also freely change setting values after copying.
-

● Specialized copying of sub-master

- 1 Select the exposure condition/related condition you want to make a specialized copy in the setting parameter/edit field, and drag and drop it into Specialized copy.



- The condition selection screen is displayed.

- 2 Select the modality and detector and press [OK].

IMPORTANT

- If a specialized copy is performed, all setting values will be transferred. You can freely change the setting values after a specialized copy.
 - There is no need to change the links from the Exam. Tag masters. The link will automatically change following the modality/detector used for the exposure.
-

● **Deleting the exposure condition**

- 1 **Select exposure condition/related condition you want to delete in the setting parameter/edit field, and drag and drop it into Trash.**



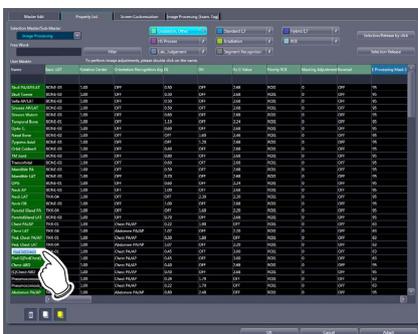
- Once you drop it to Trash, the deletion confirmation screen is displayed.

IMPORTANT

- The Exam. Tag master and sub-master (the Exam. Tag user master that is positioned to the body part selection screen and the sub-master linked to the master) with the background of the characters displayed in green cannot be deleted. If you try to delete, a message saying that the condition is registered to the Exam. Tag is displayed and the deletion is canceled. To delete, it is necessary to change the back ground of the characters to black by canceling the position to the body part selection screen and releasing the link to the master.

● **Editing the name of the exposure condition**

- 1 **Right click the name or group name of the exposure condition/related condition which you want to change in the setting parameter/edit field.**



- The right-clicked cell is highlighted and becomes editable.

6.2.6 X-ray exposure setting screen

This is the screen that is displayed when you select [Exposure Condition] under [Selection Master/Sub-Master] and double click the names displayed.



Number	Name	Function
(1)	Common setting	For setting the exposure setting configuration method (exposure code APR/exposure dose), the tube selection to be used, and the operative procedure (workstation).
(2)	Enabled	Activates the exposure setting by the physique of the patient.
(3)	Exposure dose	You can set the irradiation mode, X-ray tube voltage, X-ray tube current, irradiation time, irradiation dosage, and focus size.
(4)	AEC	Displays the AEC related information. Sets the AEC OFF/ON, detection field, sensitivity, density, and film screen.
(5)	X-ray	For setting the X-ray filter.
(6)	SID	For setting the SID (Source to Image Distance).
(7)	[OK]	Saves the settings and closes the screen.
(8)	[Cancel]	Closes the screen without saving the settings.

To use an anatomical code, select [APRCode], then enter the code.

The system of the anatomical code varies depending on the manufacturer.

TOSHIBA

– Anatomical code system

Anatomical code (2 digits)	Body type (1 digit)	Reserve (1 digit)
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– Body type code

0	Fat
1	
2	Standard
3	Slim
4	Child

– Ex.: When the anatomical code is 05 and the body type is "Standard"

SHIMAZU

– Anatomical code system

Step (1 digit)	Program number (3 digits)
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– Ex.: When step 3 is selected in the 5th program

HITACHI

– Anatomical code system

Anatomical code (2 digits)

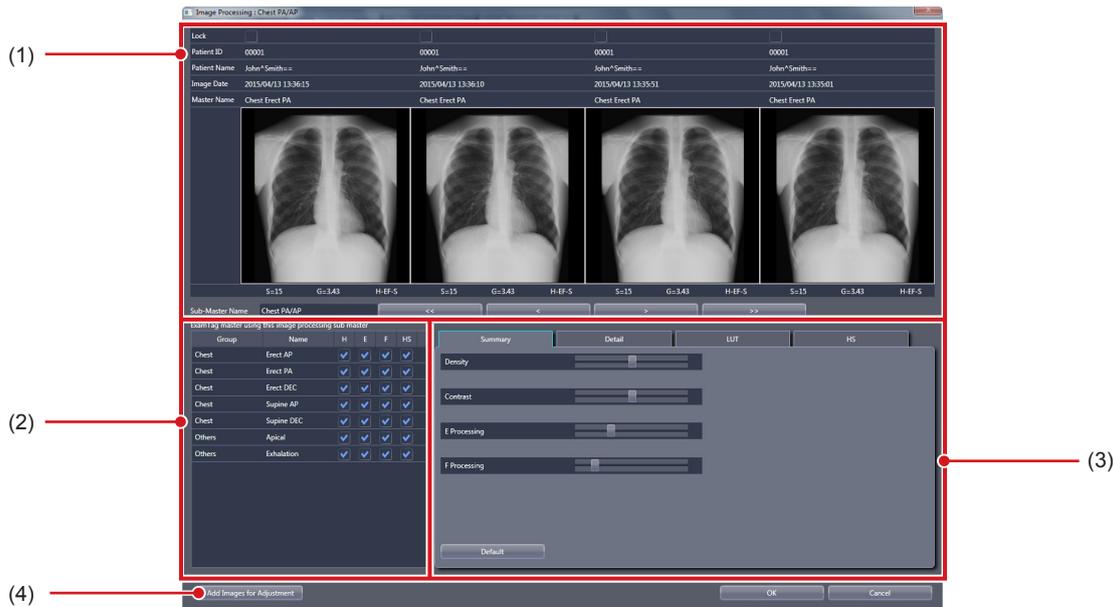
– Ex.: When the first digit (program page button number) is 1 and the second digit (program button number) is 5

6.2.7 Image adjustment tool screen

This is the screen that is displayed by following the steps described below.

- Select [Image Processing] from [Selection Master/Sub-Master] on the [Property List] screen and double-click the name of the image processing sub-master you want to adjust.
- Double-click the desired exposure condition/related condition on the [SetKey Setting] screen of the [Image Processing (Exam. Tag)] screen.

Targeting the selected Image Processing sub-master, you can perform image processing parameter adjustments while referring to the image.



Number	Name	Function
(1)	Image display area	Image processed by the adjusted parameter is displayed. It is possible to display up to 4 images in the screen. Image processing adjustment results are reflected in real-time.
(2)	Exam. Tag display area	The Exam. Tag master that links the Image Processing sub-master to be edited is displayed. It is possible to confirm the targeted Exam. Tag master in a list, and on/off of the H/E/F/HS process and setting of the E/F processing method can be made for each Exam. Tag master.
(3)	Image adjustment area	Switch between the 4 tabs, namely, [Summary], [Detail], [LUT], and [HS] depending on the editing purpose. <ul style="list-style-type: none"> • [Summary]: This will adjust the density or intensity. • [Detail]: This will directly adjust the process parameter value. • [LUT]: Modifies LUT of gradation processing. • [HS]: Performs HS processing adjustments.
(4)	[Add Images for Adjustment]	Displays the Add Images for Adjustment screen.

HINT

- If you add images on the Add Images for Adjustment screen, [Additional Images] is added to the Exam. Tag display area.

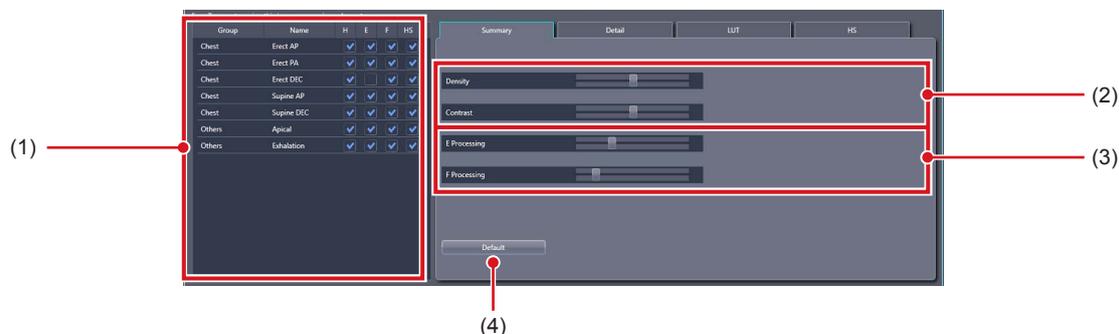
Image adjustment area

This is part of the image adjustment tool screen.

● Simple adjustment screen

This is the screen that is displayed when the [Summary] tab in the image adjustment area is selected.

You can perform gradation processing, dynamic range compression processing and frequency processing adjustments.

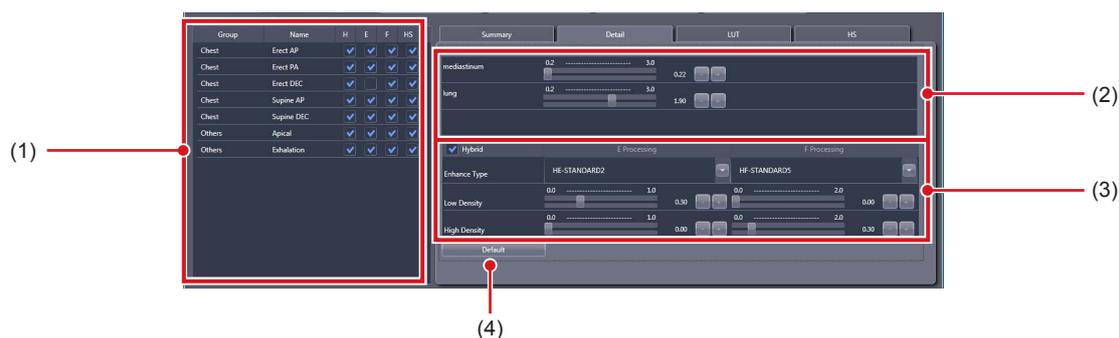


Number	Name	Function
(1)	Processing on/off	On/off of the H/E/F/HS process and the E/F process method for each Exam. Tag are set by the check box.
(2)	Gradation processing	For adjusting the gradation processing parameters in terms of density and contrast. The adjusted results are internally converted to gradation processing parameters. You can verify this in the [Detail] tab.
(3)	Frequency processing	For adjusting dynamic range compression processing (E processing) and frequency emphasis processing (F processing) parameters in terms of strength. The adjusted results are internally converted to E/F processing parameters. You can verify this in the [Detail] tab.
(4)	[Default]	For discarding all adjustment results and going back to the state prior to the adjustment.

● Detailed adjustment screen

This is the screen that is displayed when the [Detail] tab in the image adjustment area is selected.

Adjustments for gradation processing, dynamic range compression processing, and frequency processing can be performed.

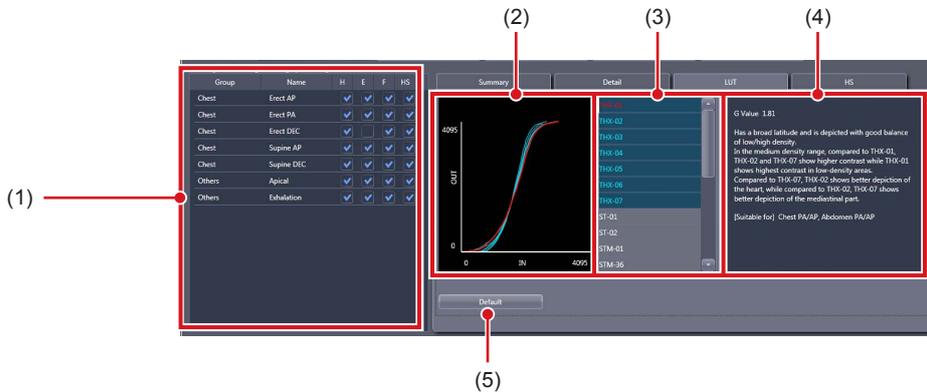


Number	Name	Function
(1)	Processing on/off	On/off of the H/E/F/HS process and the E/F process method for each Exam. Tag are set by the check box.
(2)	Gradation processing	Adjust with the density L, density H, and fixed gradient. For LUT changes, perform them in the [LUT] tab.
(3)	E/F processing	For setting the E/F process method (Hybrid/Standard) with the [Hybrid] check box. Hybrid is adjusted with [Enhance Type], [Low Density], and [High Density]. Standard is adjusted with [MaskType], [Low Density], and [High Density].
(4)	[Default]	For discarding all adjustment results and going back to the state prior to the adjustment.

● **LUT modification screen**

This is the screen that is displayed when the [LUT] tab in the image adjustment area is selected. Select LUT of gradation processing.

You can choose the LUT to be applied while referring to the LUT form and LUT description.



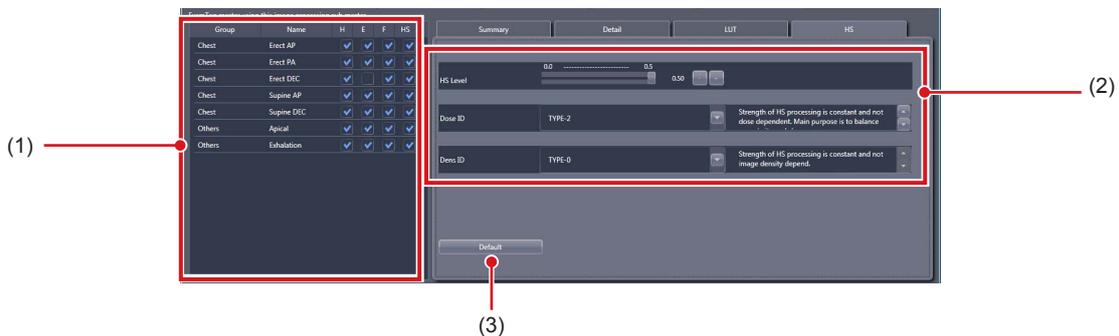
Number	Name	Function
(1)	Processing on/off	On/off of the H/E/F/HS process and the E/F process method for each Exam. Tag are set by the check box.
(2)	LUT form preview	The selected LUT group is displayed in a graph. You can confirm the LUT form. HINT <ul style="list-style-type: none"> LUTs of the same group will all be displayed, and the LUT currently selected will be shown in red.
(3)	LUT list	Usable LUTs are displayed in a list. Select the LUT to be applied from the list. HINT <ul style="list-style-type: none"> The form and description of the selected LUT is displayed in the LUT form preview/LUT description field.
(4)	LUT description field	The description of the selected LUT is displayed. The G value, characteristic, and suitable part are displayed.
(5)	[Default]	For discarding all adjustment results and going back to the state prior to the adjustment.

● **HS processing adjustment screen**

This is the screen that is displayed when the [HS] tab in the image adjustment area is selected.

Perform HS processing (granular control processing) adjustments.

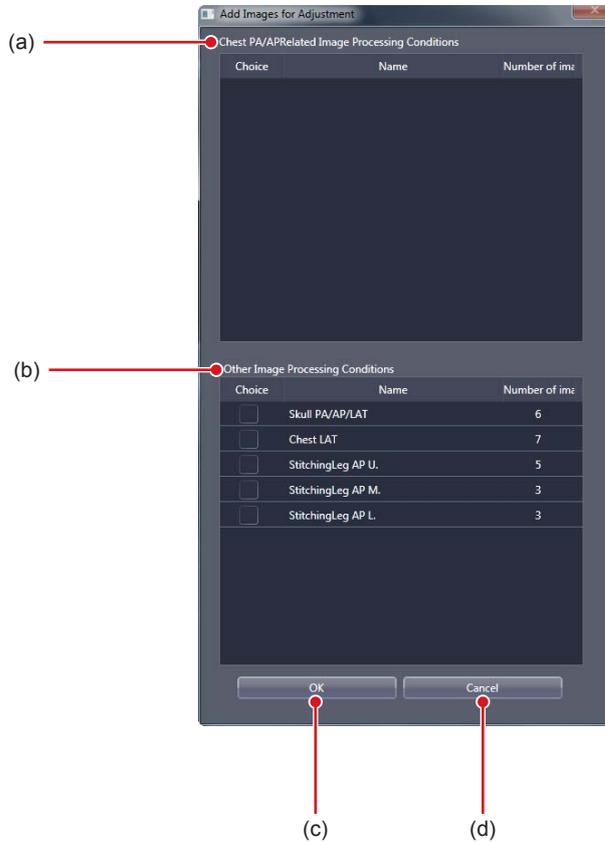
It is possible to make value adjustments. However, there is no screen preview.



Number	Name	Function
(1)	Processing on/off	On/off of the H/E/F/HS process and the E/F process method for each Exam. Tag are set by the check box.
(2)	HS processing	For performing adjustments to the HS parameter in terms of [HS Level], [Dose ID], and [Dens ID]. HINT <ul style="list-style-type: none"> Take note that there is no screen preview when adjusting the value.
(3)	[Default]	For discarding all adjustment results and going back to the state prior to the adjustment.

HINT

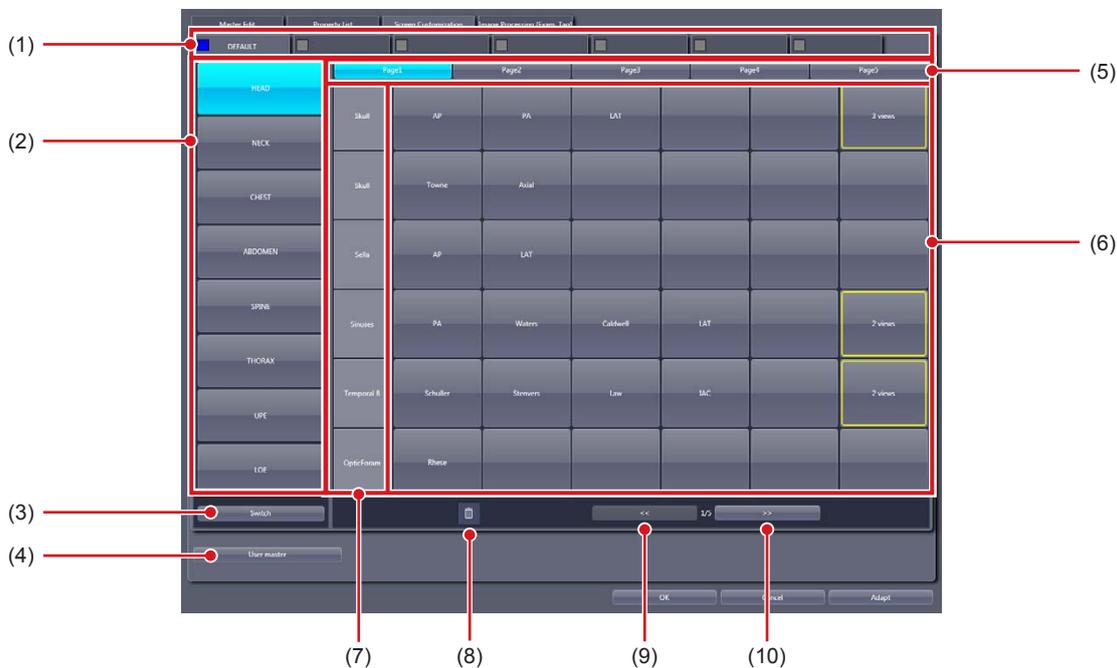
- This is the screen displayed when [Add Images for Adjustment] is pressed on the image processing tool screen. Select the image to be added to the image display area.



Number	Name	Function
(a)	Related Image Processing Condition	Displays the images related to the image-adjustment processing sub-master. Select the image to be added to the image display area.
(b)	Other Image Processing Condition	Displays the images that are not related to the image-adjustment processing sub-master. Select the image to be added to the image display area.
(c)	[OK]	Closes the screen after setting the selected image.
(d)	[Cancel]	Closes the screen without setting the selected image.

6.2.8 [Screen Customization] screen

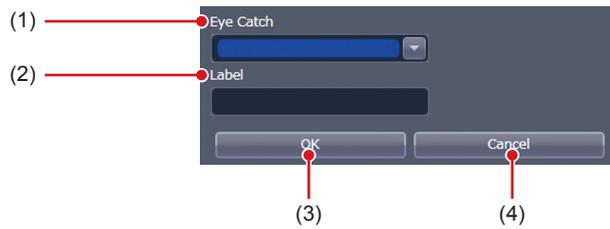
This is the screen displayed when the [Screen Customization] tab is selected on the Exam. Tag edit tool screen. Edits placement of Exam. Tag of the body part selection screen.



Number	Name	Function
(1)	Tabs	For classifying Exam. Tag. This is used for setting and selection of the tab. According to the Exam. Tag license installed in this device, the number of the tabs that can be set changes.
(2)	Body part display area	2 pages can contain 16 registrations of body parts. The exposure body parts are registered in pages and divided into 6 groups, and 30 groups can be registered in 5 pages. You can edit the name of the exposure body part by right clicking the name.
(3)	[Switch]	Switches the pages of the exposure body parts.
(4)	[User master]	Displays the Exam. Tag user master list.
(5)	Page switching button	Switches the pages of Exam. Tag display.
(6)	Exam. Tag display area	Displays Exam. Tag. Drag and drop an exposure condition here from the Exam. Tag user master list, and register Exam. Tag to the body part selection screen. Displays the set key editing screen by clicking.
(7)	Group	For classifying the displayed items in the exposure body part display area. 6 pieces of Exam. Tag can be registered to 1 group. You can change the name of the group by right clicking the name.
(8)	Trash	Drag and drop Exam. Tag here and remove Exam. Tag from the body part selection screen.
(9)	[«]	Displays Exam. Tag in the previous page.
(10)	[»]	Displays Exam. Tag in the next page.

● **Tab editing screen**

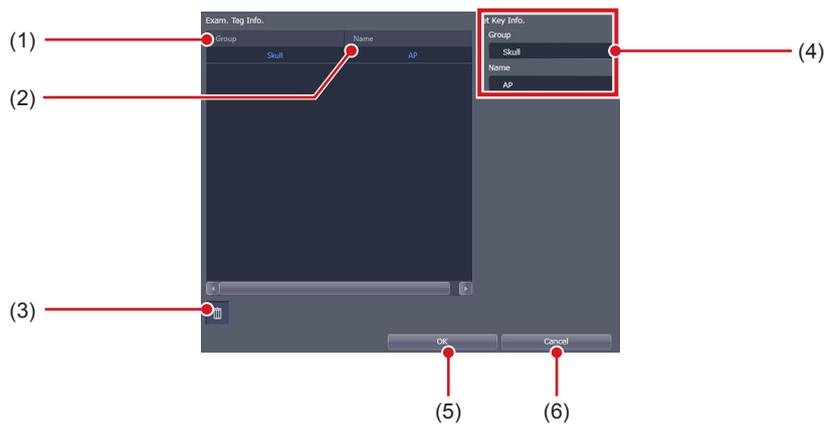
This is the screen that is displayed when the color portion of a tab is pressed on the [Screen Customization] screen.



Number	Name	Function
(1)	[Eye Catch]	For selecting the eye-catch color.
(2)	[Label]	For inputting the tab name. <div style="border: 1px solid black; padding: 2px; display: inline-block;"> HINT </div> <ul style="list-style-type: none"> • [OK] cannot be pressed unless characters are entered in the [Label].
(3)	[OK]	Saves the settings and closes the screen.
(4)	[Cancel]	Closes the screen without saving the settings.

● **Set key editing screen**

This is the screen that is displayed when the Exam. Tag is double-clicked on the [Screen Customization] screen.



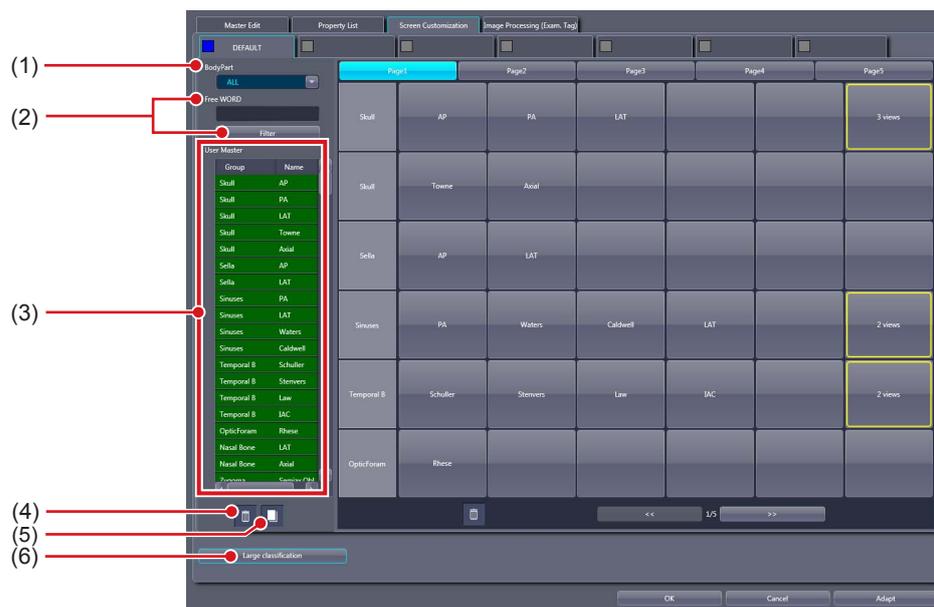
Number	Name	Function
(1)	[Group]	Displays the exposure conditions group name.
(2)	[Name]	Displays the name of the exposure condition.
(3)	Trash	The exposure conditions registered under Exam. Tag will be deleted.
(4)	[Set Key Info.]	Displays Exam. Tag information.
(5)	[OK]	Saves the settings and closes the screen.
(6)	[Cancel]	Closes the screen without saving the settings.

HINT

- In [Easy Edit Mode], double-click an exposure condition to display the exposure condition edit tool screen.
- The Exam. Tag name is cleared by deleting all the exposure condition and pressing [OK].

● Exam. Tag user master list

This is the screen that is displayed when [User master] is pressed on the [Screen Customization] screen.



Number	Name	Function
(1)	[BodyPart]	For narrowing down body parts to be displayed in [User Master].
(2)	[Free WORD]/[Filter]	Narrows down the exposure conditions/related conditions to be displayed in the [User Master].
(3)	[User Master]	Displays the exposure conditions/related conditions. Background of the characters for the exposure conditions/related conditions registered under Exam. Tag is displayed in green. When you right-click a condition displayed in [User master], you can edit its name. In [Easy Edit Mode], double-click a condition displayed in [User Master] to display the exposure condition edit tool screen.
(4)	Trash	You can delete the conditions displayed in [User master] by dragging and dropping the conditions from [User master] here. IMPORTANT <ul style="list-style-type: none"> The Exam. Tag master with the background of the characters displayed in green and the Exam. Tag user master that is placed on the body part selection screen cannot be deleted. If you try to delete, a message saying that the condition is registered to the Exam. Tag is displayed and the deletion is canceled. To delete, it is necessary to cancel positioning to the body part selection screen and change the back ground of the characters to black.
(5)	Copy	You can copy the conditions displayed in [User master] by dragging and dropping the conditions in [User master] here. <ul style="list-style-type: none"> The masters and sub-masters that have been registered by copying will be displayed with orange characters.
(6)	[Large classification]	Switches to Large classification.

6.2.9 Operation of the [Screen Customization] screen

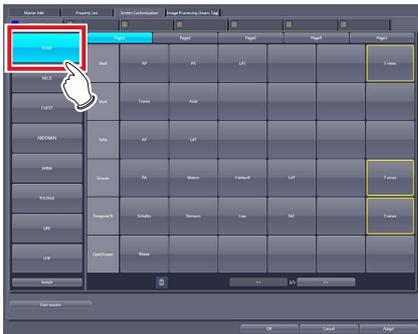
The editing method of the body part selection screen is as follows.

● Addition of the Exam. Tag

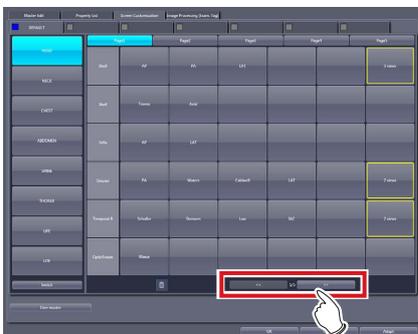
1 Select a tab to which you want to add the Exam. Tag.



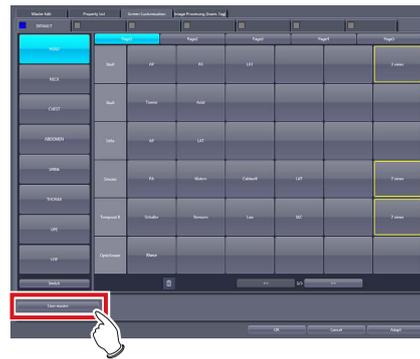
2 Select the exposure body part to be added.



3 Press [«] or [»] to display a page to which you want to add the Exam. Tag.

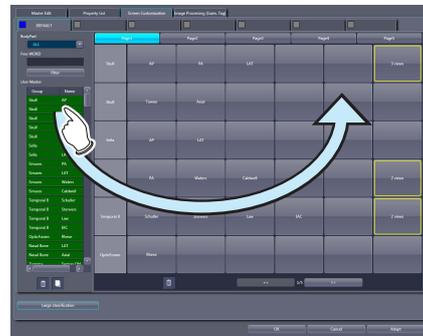


4 Press [User master].



- The Exam. Tag user master list is displayed.

5 Select an exposure condition you want to add in the [User Master] and drag and drop it into the Exam. Tag display area.



- The name of the condition dragged and dropped from the [User Master] is displayed in the Exam. Tag.
- If you drag and drop the name of the condition into an Exam. Tag where no group name is registered, the group name containing the condition is also displayed automatically.

HINT

- You can add a condition to the Exam. Tag where another condition is already registered.

.....

● Moving items

- 1 Select an item you want to move and drag and drop it into the desired position.

Moving the Exam. Tag



Moving the groups



● Deletion of items

- 1 Select an item you want to delete, and drag and drop it into Trash.



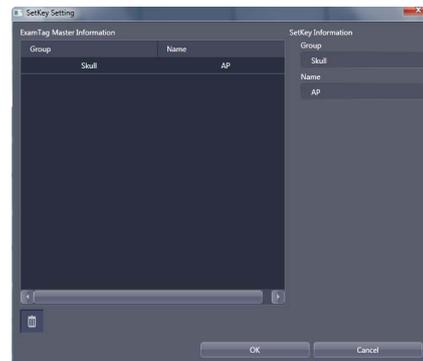
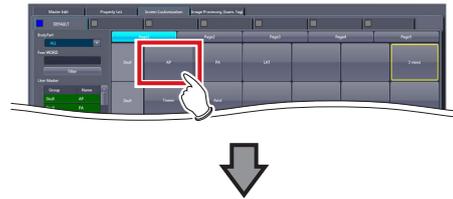
- Once you drop it to Trash, the deletion confirmation screen is displayed.

2 Press [Yes].

- The selected item is deleted.

● Confirmation of the Exam. Tag contents

- 1 Double-click the registered Exam. Tag.



- The set key editing screen is displayed.

● Copying of the exposure condition

- 1 Select the exposure condition/related condition you want to copy in the [User Master], and drag and drop it into Copy.



- The exposure conditions that have been registered by copying will be displayed with orange characters.

IMPORTANT

- When a copy is made of an Exam. Tag master, all settings including links to sub-masters are transferred. You can freely change the link settings and other setting values after a copy is made.
-

● Deleting the exposure condition

- 1 Select exposure condition/related condition you want to delete in the [User Master], and drag and drop it into Trash.



- Once you drop it to Trash, the deletion confirmation screen is displayed.

IMPORTANT

- The Exam. Tag master (the Exam. Tag user master that is positioned to the body part selection screen) with the background of the characters displayed in green cannot be deleted. If you try to delete, a message saying that the condition is registered to the Exam. Tag is displayed and the deletion is canceled. To delete, it is necessary to change the background of the characters to black by canceling the position to the body part selection screen and releasing the link to the master.
-

● Editing the name of the exposure condition

- 1 Right click the name or group name of the exposure condition/related condition which you want to change in the [User master].

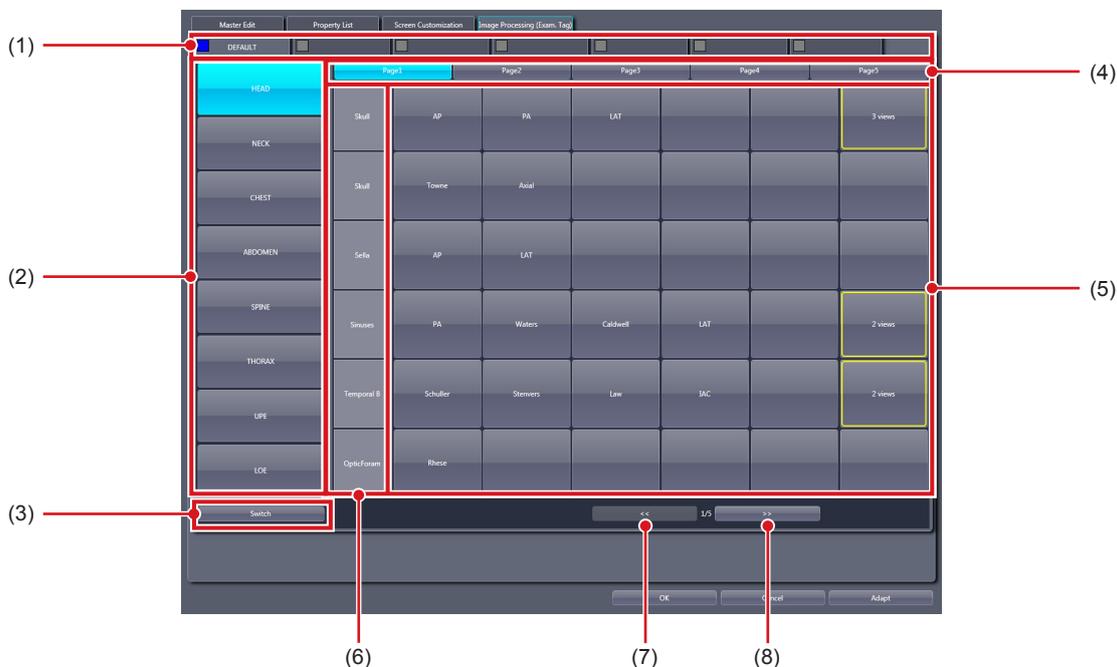


- The right-clicked cell is highlighted and becomes editable.

6.2.10 Image Processing (Exam. Tag) screen

This is the screen displayed when the [Image Processing (Exam. Tag)] tab is selected on the Exam. Tag edit tool screen.

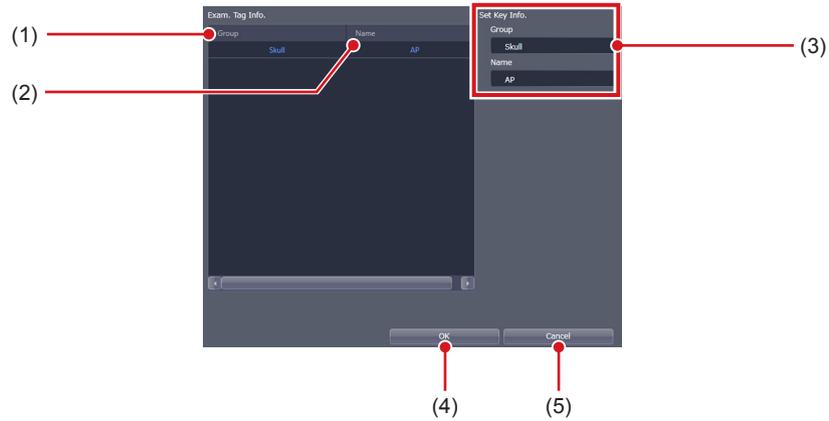
Selecting an Exam. Tag displays the image adjustment tool screen enabling you to adjust image processing parameters.



Number	Name	Function
(1)	Tabs	Displays the tabs set on the Screen Customization screen.
(2)	Body part display area	Displays the body parts set on the Screen Customization screen.
(3)	[Switch]	Switches the pages of the exposure body parts.
(4)	Page switching button	Switches the pages of Exam. Tag display.
(5)	Exam. Tag display area	Displays the Exam. Tag that has been set on the Screen Customization screen. If the Exam. Tag has only one exposure condition, double-click it to display the image adjustment tool screen. If the Exam. Tag has multiple exposure conditions, the SetKey Setting screen is displayed. Double-clicking an exposure condition displays the image adjustment tool screen.
(6)	Group	Displays groups set on the Screen Customization screen.
(7)	[<<]	Displays Exam. Tag in the previous page.
(8)	[>>]	Displays Exam. Tag in the next page.

● Set key setting screen

This is the screen that is displayed when the Exam. Tag is double-clicked on the [Screen Customization] screen.



Number	Name	Function
(1)	[Group]	Displays the exposure conditions group name.
(2)	[Name]	Displays the name of the exposure condition.
(3)	[Set Key Info.]	Displays Exam. Tag information.
(4)	[OK]	Saves the settings and closes the screen.
(5)	[Cancel]	Closes the screen without saving the settings.

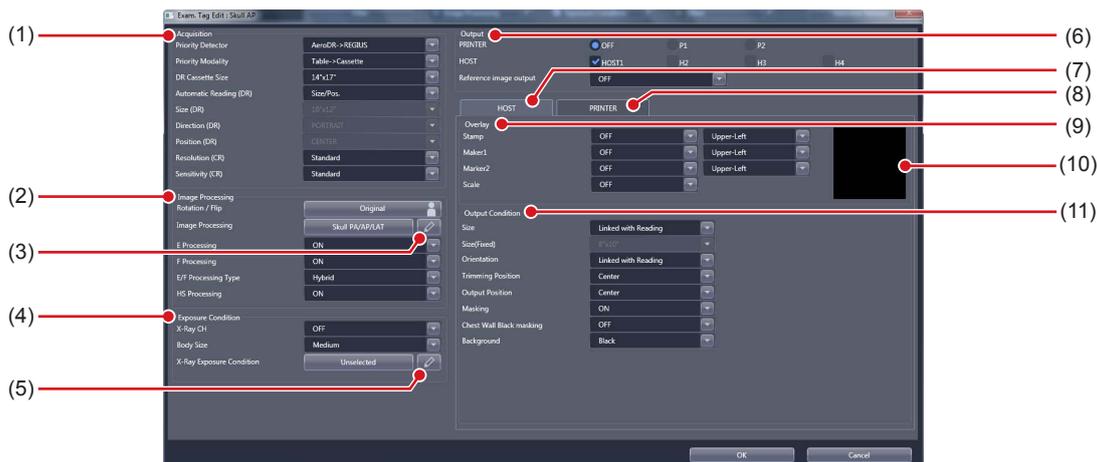
HINT

- In [Easy Edit Mode], double-click an exposure condition to display the image adjustment tool screen.

6.2.11 Exposure condition edit tool screen

This is the screen that is displayed by following the steps described below.

- Select [ExamTag Master] from [Selection Master/Sub-Master] on the [Property List] screen and double-click the name of the desired Exam. Tag master.
 - Double-click the name of the desired Exam. Tag master on [SetKey Setting] screen of the [Screen Customization] screen.
 - Double-click the name of the desired Exam. Tag master in [User Master] on the [Master Edit] screen.
- You can edit the selected Exam. tag master. This screen is only available in [Easy Edit Mode].



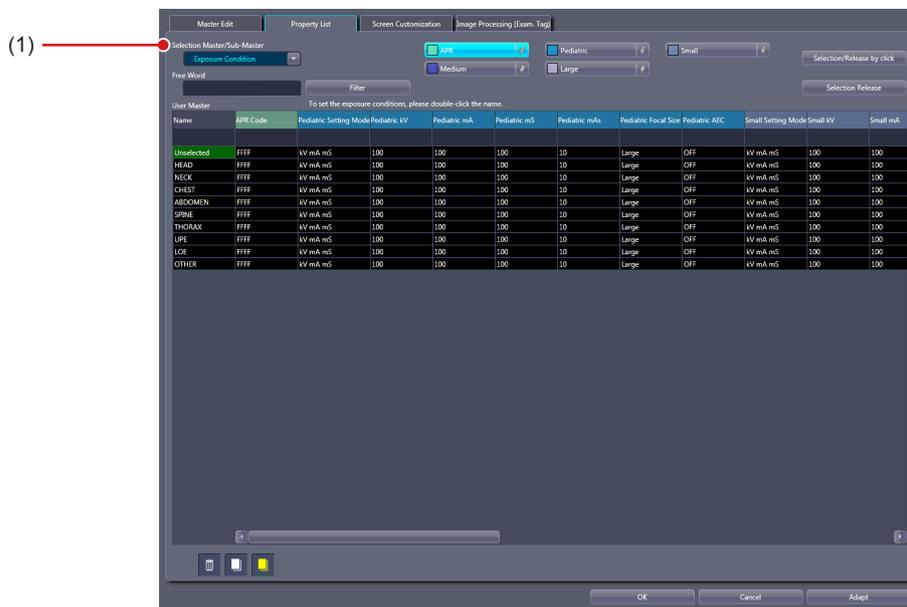
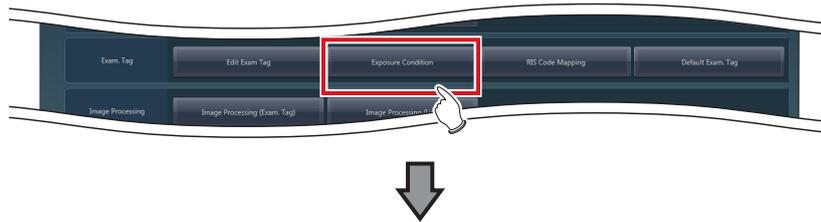
Number	Name	Function
(1)	[Acquisition]	Used to edit setting items related to reading conditions.
(2)	[Image Processing]	Used to edit setting items related to image processing.
(3)	Image Proc Edit button	Displays the image adjustment tool screen for editing the selected Image Processing sub-master.
(4)	[Exposure Condition]	Used to edit setting items related to exposure settings.
(5)	Edit exposure settings	Displays the X-ray exposure setting screen that is used to edit the selected exposure setting sub-master.
(6)	[Output]	For setting an output device.
(7)	[HOST] tab	Select this to display the setting items for host overlay and output conditions.
(8)	[PRINTER] tab	Select this to display the setting items for printer overlay and output conditions.
(9)	[Overlay]	Used to edit setting items related to overlay.
(10)	Overlay Preview	An overlay preview is displayed.
(11)	[Output Condition]	Used to edit setting items related to output conditions.

6.3 • [Exposure Condition]

This tool is for adding and editing information about the exposure settings.

6.3.1 Exam. Tag edit tool screen

When [Exposure Condition] of the [Exam. Tag] area is pressed, the Exam. Tag edit tool screen is displayed while the [Property List] tab is selected at the same time.



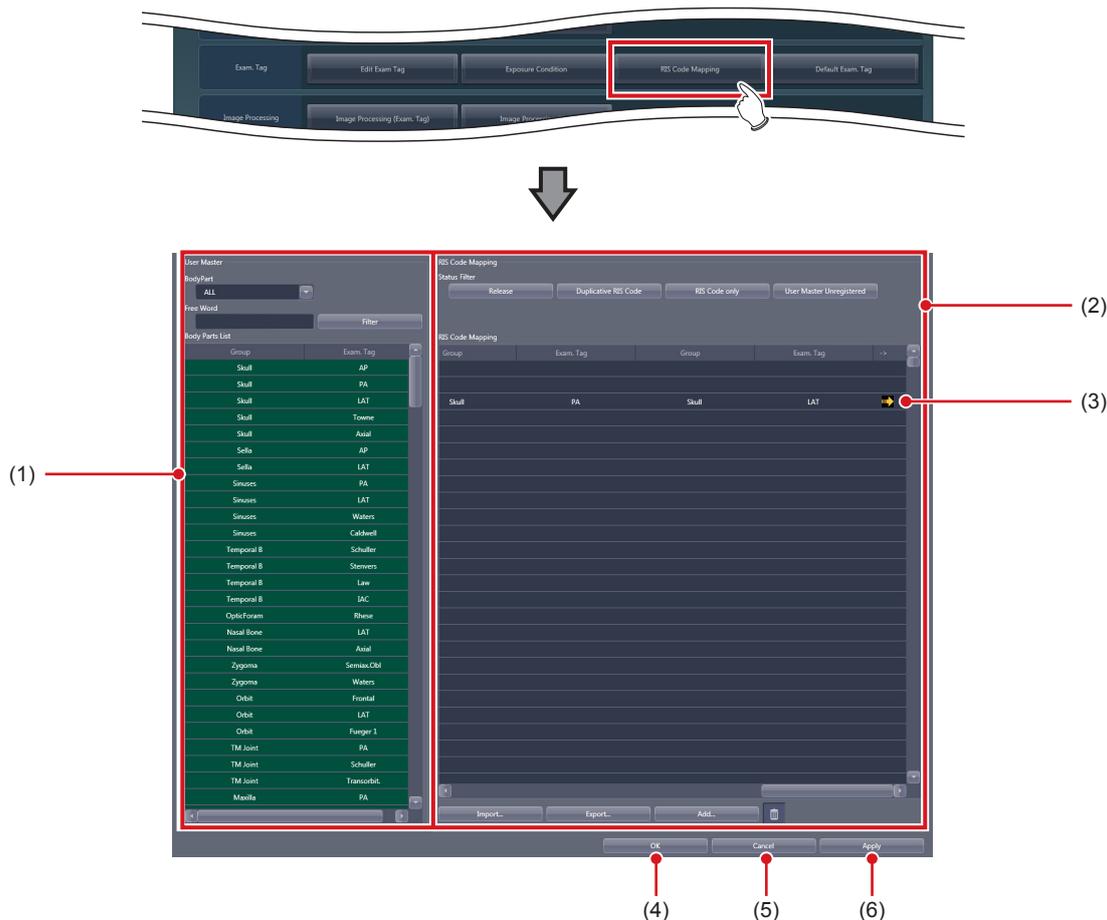
Number	Name	Function
(1)	[Selection Master/Sub-Master]	The screen is displayed with [Exposure Condition] being turned on.

6.4 • [RIS Code Mapping]

This tool is for associating RIS codes from the RIS with codes for this device. Correspondence for 1 or more Exam. Tags can be attached to 1 RIS code.

6.4.1 RIS code mapping tool screen

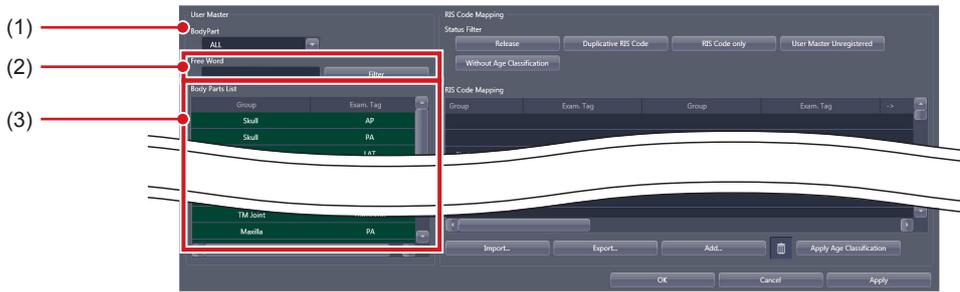
When [RIS Code Mapping] of the [Exam. Tag] area is pressed, the RIS code mapping tool screen is displayed.



Number	Name	Function
(1)	[User Master]	Displays the Exam. Tag of this device.
(2)	[RIS Code Mapping]	An RIS code and the Exam. Tag associated with that RIS code is displayed in records (lines).
(3)	Arrow mark	This is displayed when there are 5 or more Exam. Tags corresponding to the RIS code. Double-clicking those records (lines) will display the RIS code details screen and you can check the fifth Exam. Tag onwards.
(4)	[OK]	Saves the edited contents for the RIS code mapping and closes the screen.
(5)	[Cancel]	Finishes editing the RIS code mapping without saving the contents.
(6)	[Apply]	Saves the edited contents for the RIS code mapping.

● [User Master]

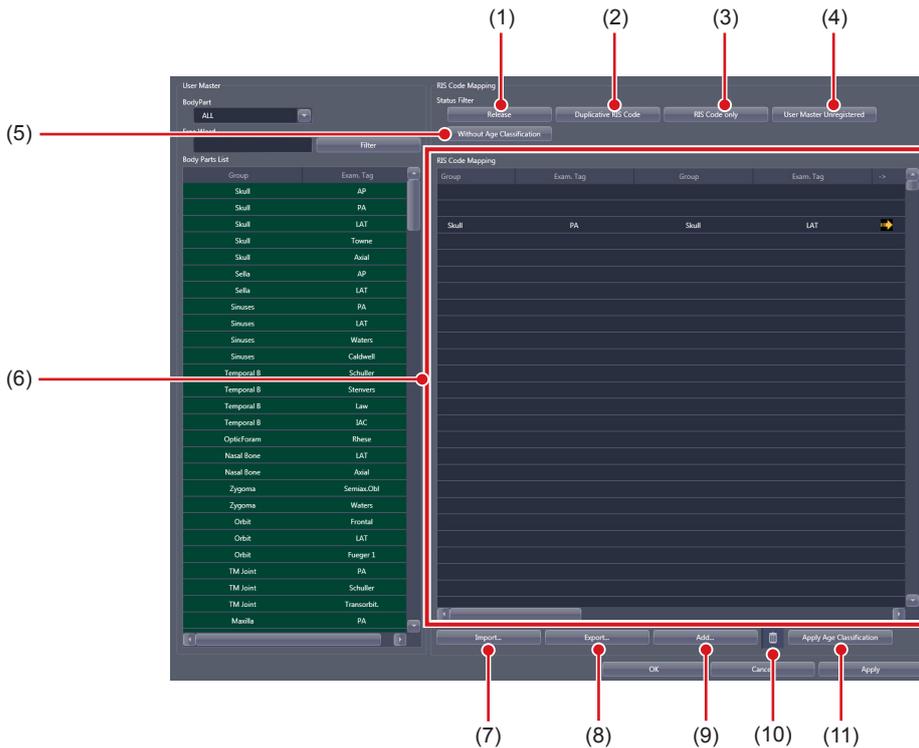
This is part of the RIS code mapping tool screen.



Number	Name	Function
(1)	[BodyPart]	For narrowing down the body parts to be displayed in [Body Parts List].
(2)	[Free Word]/[Filter]	When [Filter] is pressed after inputting characters in [Free Word], Exam. Tags are narrowed down. Records (lines) of which [Group] and [Exam. Tag] include the input characters are displayed. To release narrow down, delete the characters of [Free Word] and press [Filter].
(3)	[Body Parts List]	Display the Exam. Tag of this device.

● [RIS Code Mapping]

This is part of the RIS code mapping tool screen.



Number	Name	Function
(1)	[Release]	Releases narrow down and displays all RIS codes.
(2)	[Duplicative RIS Code]	Duplicated RIS codes are displayed.
(3)	[RIS Code only]	RIS codes without corresponding Exam. Tags are displayed.
(4)	[User Master Unregistered]	RIS codes not registered in [User Master] are displayed.
(5)	[Without Age Classification]	Displays RIS code that does not correspond to the age classifications.

6.4 [RIS Code Mapping]

Number	Name	Function
(6)	[RIS Code Mapping]	RIS code mapping is displayed. <ul style="list-style-type: none"> • [Coding Scheme Designator]: Coding scheme designator of RIS code • [RIS Code]: RIS code • [Age Classification]: Age classification • [Remarks]: Comments for coding scheme designator/RIS code • [Priority]: Priority of RIS codes. • [Group]: Group name of Exam. Tag • [Exam. Tag]: Name of Exam. Tag When double-clicked, the RIS code details screen is displayed.
(7)	[Import...]	Files are imported to [RIS Code Mapping]. There are two import methods, replace and add. Replace discards the current [RIS Code Mapping], and imports new settings. Add adds only records not existing in the current [RIS Code Mapping].
(8)	[Export...]	Writes [RIS Code Mapping]. There are 2 write methods, for import by another unit of this device, and to confirm correspondence.
(9)	[Add...]	Adds records to the [RIS Code Mapping].
(10)	Trash	Deletes the selected record from the [RIS Code Mapping]. <div style="border: 1px solid black; padding: 2px; display: inline-block;"> HINT</div> <ul style="list-style-type: none"> • The record can be deleted from [RIS Code Mapping] by pressing the Delete key.
(11)	[Apply Age Classification]	Associates RIS code with the age classification.

 **IMPORTANT**

- [Age Classification] of [RIS Code Mapping] is displayed only when [Add the age Classification code in RIS Code] is selected in [Age Classification code addition mode setting for in RIS Code] of the service tool [Patient Age Setting].

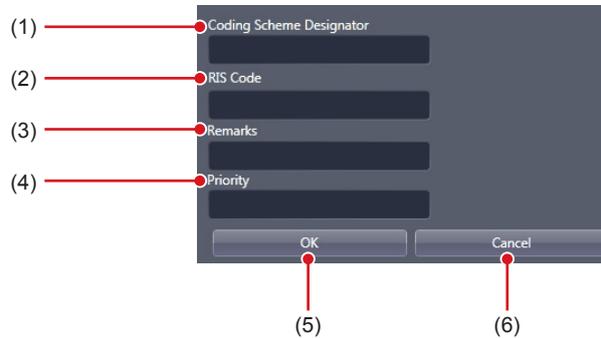
 **HINT**

- These are the 2 conditions where the RIS code is converted to Exam. Tag. When neither is satisfied, an "Undefined" Exam. Tag is displayed.
 - The correspondences between RIS code and Exam. Tag are defined in the RIS code mapping.
 - The Exam. Tag defined in the RIS code mapping is registered in [User Master].

● New RIS code creation screen

This is the screen that is displayed when [Add...] is pressed on [RIS Code Mapping] of the RIS code mapping tool screen.

Makes correspondence between a new RIS code and Exam. Tag.

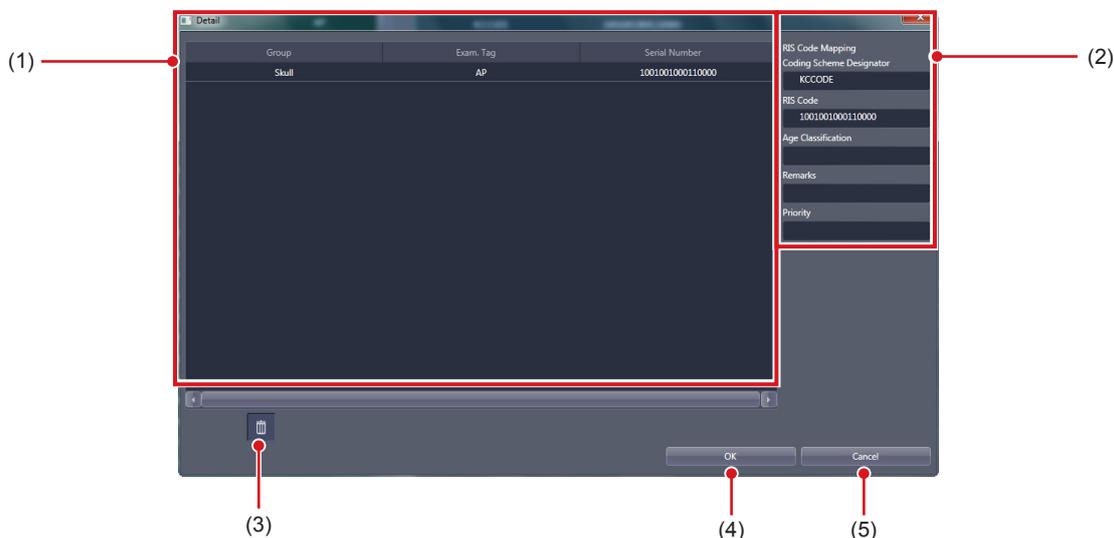


Number	Name	Function
(1)	[Coding Scheme Designator]	For inputting the coding scheme designator of the RIS code.
(2)	[RIS Code]	For inputting the RIS code.
(3)	[Remarks]	For inputting the description of the RIS code.
(4)	[Priority]	When multiple RIS codes with the same content are registered, association of the RIS code with the largest number for this setting and the Exam. Tag is enabled.
(5)	[OK]	Saves the input of a new RIS code, and closes the new RIS code creation screen.
(6)	[Cancel]	Does not save the input of a new RIS code, and closes the new RIS code creation screen.

● **RIS code details screen**

This is the screen that is displayed when RIS code is double-clicked on [RIS Code Mapping] of the RIS code mapping tool screen.

The RIS code information and correspondence of Exam. Tag can be edited.



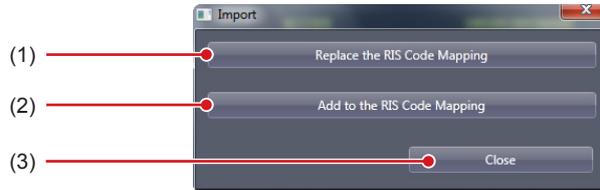
Number	Name	Function
(1)	Exam. Tag area	Displays Exam. Tag information. • [Group]: Group name of Exam. Tag • [Exam. Tag]: Name of Exam. Tag
(2)	RIS Code area	Displays RIS code information. • [Coding Scheme Designator]: Coding scheme designator of RIS code • [RIS Code]: RIS code • [Age Classification]: Age classification • [Remarks]: Comments for coding scheme designator/RIS code • [Priority]: Priority of the association of the RIS code and the Exam. Tag
(3)	Trash	Deletes mistaken correspondence from the Exam. Tag area. Drop Exam. Tag in the trash can. <div style="border: 1px solid black; padding: 2px; display: inline-block;"> HINT </div> <ul style="list-style-type: none"> The record can be deleted from Exam. Tag area by pressing the Delete key.
(4)	[OK]	Saves editing, and closes the RIS code details screen.
(5)	[Cancel]	Does not save editing, and closes the RIS code details screen.

IMPORTANT

- [Age Classification] in the RIS code area is displayed only when [Add the age Classification code in RIS Code] is selected in [Age Classification code addition mode setting for in RIS Code] of the service tool [Patient Age Setting].

● Import screen

This is the screen that is displayed when [Import...] is pressed on the RIS code mapping tool screen. Imports files written from another unit of this device or RIS.



Number	Name	Function
(1)	[Replace the RIS Code Mapping]	Discards the current [RIS Code Mapping], imports new settings, and closes the import screen.
(2)	[Add to the RIS Code Mapping]	Adds the only record not existing in the current [RIS Code Mapping], and closes the import screen.
(3)	[Close]	Closes the import screen without importing.

IMPORTANT

- Import file format is as follows.
 - The items should be listed in the order of "Coding Scheme Designator" "RIS Code" "Remarks" "Priority" "Exam. Tag Serial Number 1" and so on.
 - Commas (,) or tabs are delimiters of items. The one to be used is set at the time of the file selection.
 - Any item can be omitted, but commas (,) or tabs are required.

● Export screen

This is the screen that is displayed when [Export...] is pressed on the RIS code mapping tool screen. Writes files for import to another unit of this device or for confirmation of correspondence.



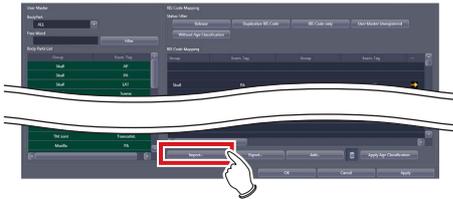
Number	Name	Function
(1)	[Export the import data for the other CS-7 consoles]	Writes a file for another unit of this device, and closes the export screen.
(2)	[Export for the verification data of RIS Code Mapping]	Writes a file to confirm the correspondence of RIS code and Exam. Tag, and closes the export screen. It is checked with external software such as text editors.
(3)	[Close]	Closes the export screen without writing.

6.4.2 Operation of the RIS code mapping tool

The editing method for RIS code mapping is as follows.

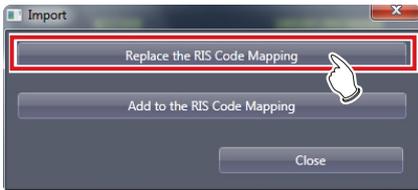
● Import of the RIS code mapping

1 Press [Import...].



- The import screen is displayed.

2 Press the import method.



- The file selection screen is displayed.

3 Select the file and press [Open].

- The file is imported.
- Because the file contains only RIS code information, all RIS codes are displayed with blue letters. (The "RIS Code only" status)

HINT

- If [Add to the RIS Code Mapping] in Step 2 was pressed, only records not currently existing in the RIS code will be added.
-

● RIS Code Mapping editing

The acquired RIS Code Mapping can be edited any time.

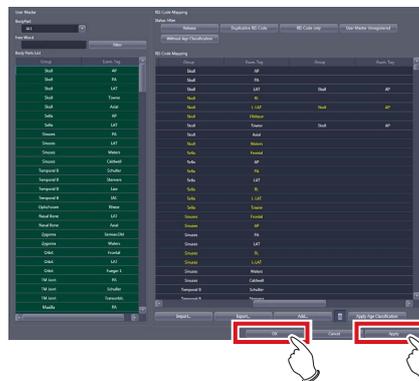
1 Drag and drop the exposure body part in the [User Master] to a line of the RIS code to associate the body parts with the code.



- If properly associated, RIS code texts change from blue to white.

2 Repeat step 1 to associate the exposure body parts with all RIS codes.

3 Press [OK] or [Apply].



- The associations of the RIS codes and the exposure body parts are saved.

IMPORTANT

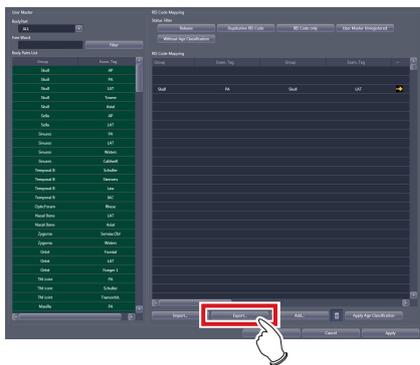
- RIS codes exported from the RIS should be edited in a file format that can be imported into this device in advance.
- Break characters cannot be used in [Coding Scheme Designator], [RIS Code], and [Remarks].
- A semicolon (;) cannot be used at the beginning of the text in [Coding Scheme Designator].

HINT

- [Coding Scheme Designator] or [RIS Code] may not be used depending on the operation. In this case, you can not input any texts in unused input columns.
- A comma (,) or a tab is set as a break character with this device. The one to be used is set at the time of the file selection.
- The created RIS code is added to the bottom line of the list.

Export of the RIS Code Mapping (for another unit of this device)

1 Press [Export...].



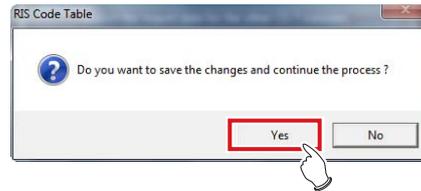
- The export screen is displayed.

2 Press [Export the import data for the other CS-7 consoles].



- A confirmation screen is displayed.

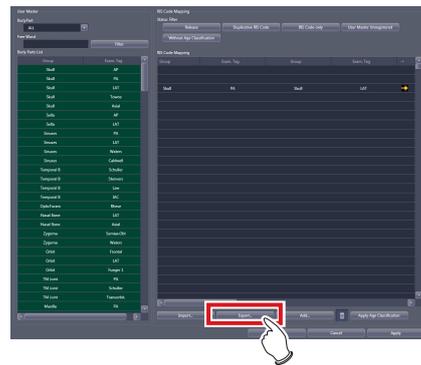
3 Press [Yes].



- The file is exported.

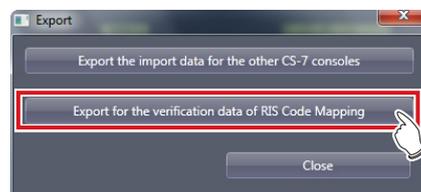
Export of the RIS Code Mapping (for verification)

1 Press [Export...].



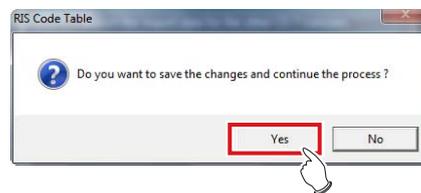
- The export screen is displayed.

2 Press [Export for the verification data of RIS Code Mapping].



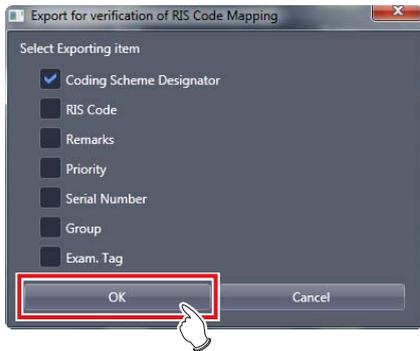
- A confirmation screen is displayed.

3 Press [Yes].



- The export item selection screen is displayed.

4 Select an item you want to export, and press [OK].



- File save screen is displayed.

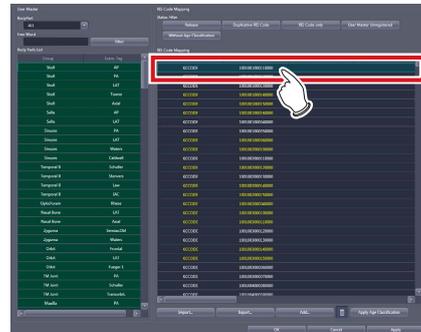
5 Confirm the save destination and the file name then press [Save].

- The file is exported.

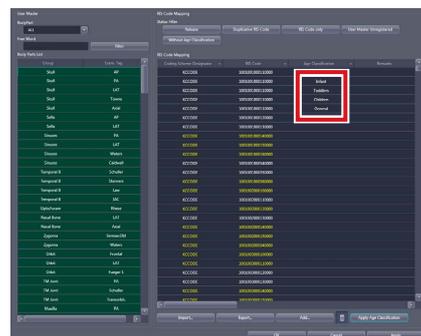
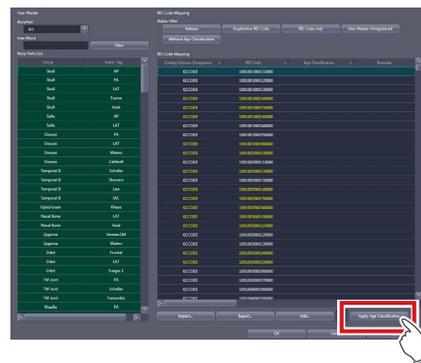
● Association with age classifications

The method for associating RIS code with age classification is as follows.

1 Select the RIS codes from [RIS Code Mapping] that correspond to the respective age classifications.



2 Press [Apply Age Classification].



- The selected RIS codes are associated with the age classifications.

3 Associate RIS codes with the body parts to be exposed, if necessary.

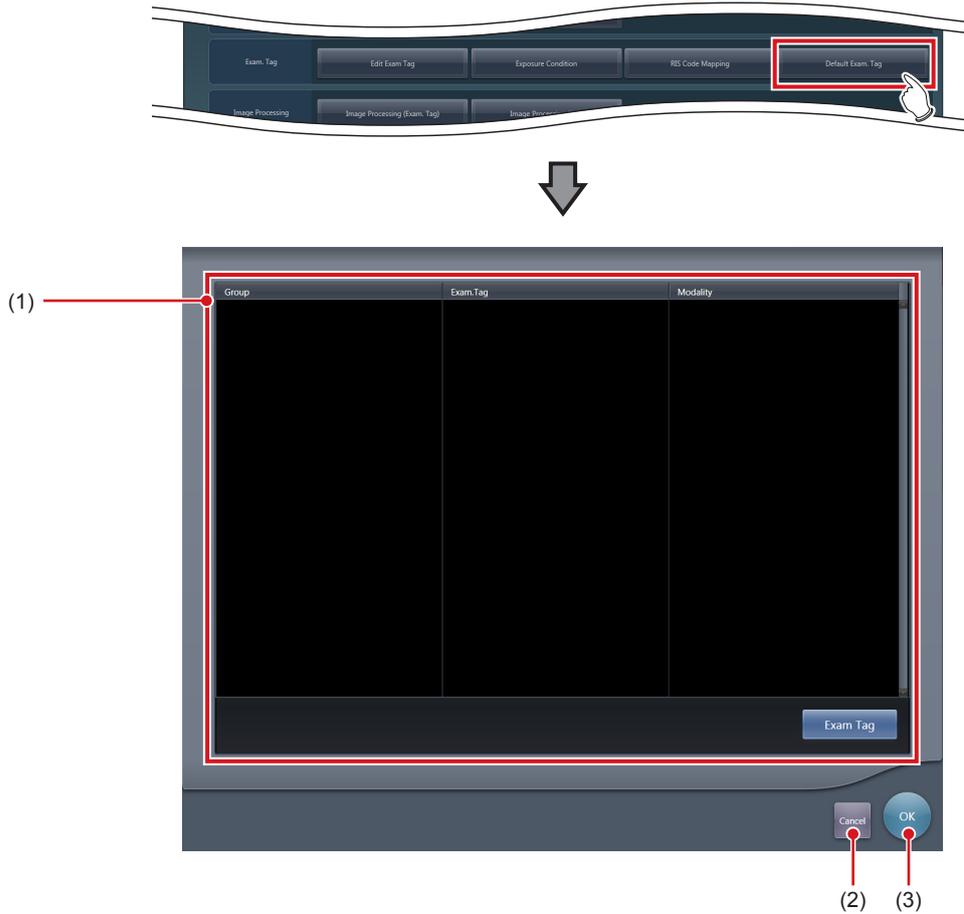
4 Press [OK] or [Apply].

6.5 • [Default Exam. Tag]

This tool is for assigning an Exam. Tag (default Exam. Tag) that is automatically specified without selecting an Exam. Tag on the body part selection screen at the time the study starts.

6.5.1 Default Exam. Tag setting tool screen

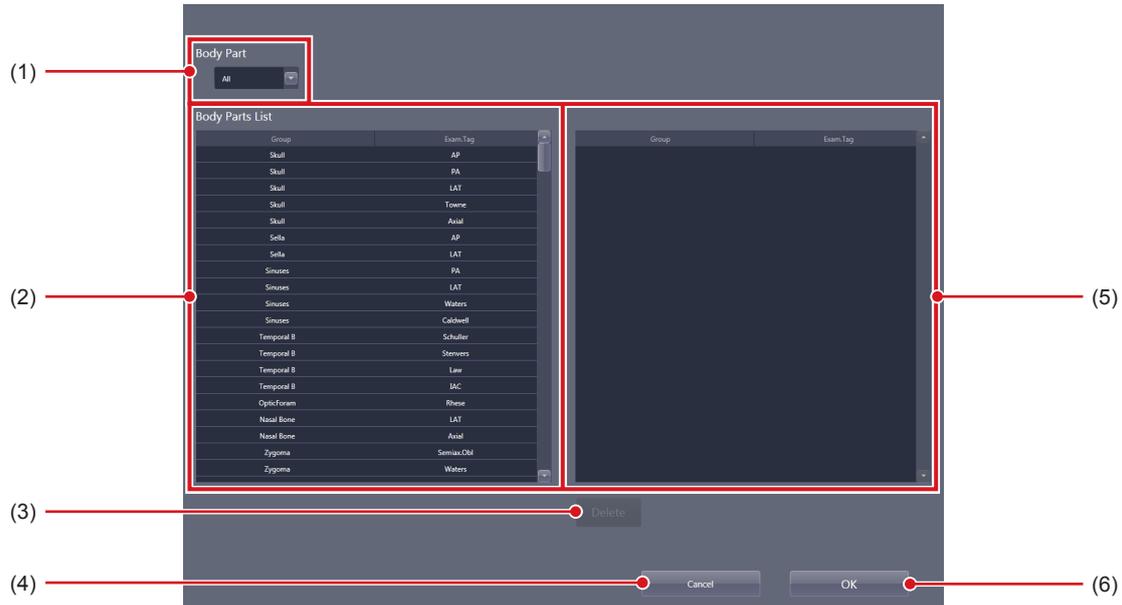
When [Default Exam. Tag] in [Exam. Tag] area is pressed, the default Exam. Tag setting tool screen is displayed.



Number	Name	Functions
(1)	Default Exam. Tag display area	Displays groups, names, and modalities of the set default Exam. Tags. When [Exam Tag] is pressed, the default Exam. Tag selection screen is displayed, from which you can select a default Exam. Tag.
(2)	[Cancel]	Closes the screen without saving the settings.
(3)	[OK]	Saves the settings and closes the screen.

● Default Exam. Tag selection screen

This screen is displayed when you press [Exam Tag] on the default Exam. Tag setting tool screen. Select a default Exam. Tag from the list of Exam. Tags.



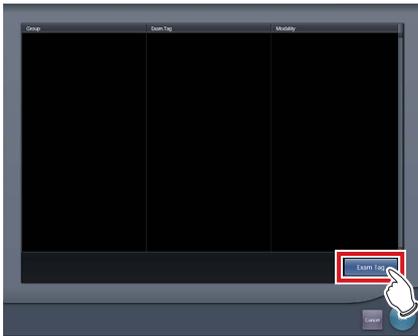
Number	Name	Functions
(1)	[Body Part]	Narrows down the Exam. Tags to be displayed in [Body Parts List].
(2)	[Body Parts List]	Displays the list of the Exam. Tags that are available for setting.
(3)	[Delete]	Deletes the selected default Exam. Tag from the default Exam. Tags area.
(4)	[Cancel]	Closes the screen without saving the settings.
(5)	Default Exam. Tag area	Displays the default Exam. Tags to be set. You can register the tags by dragging and dropping the Exam. Tags from [Body Parts List]. Up to 128 shots of default Exam. Tags can be registered. You can modify the alignment sequence of the registered default Exam. Tags using drag and drop operations.
(6)	[OK]	Saves the settings and closes the screen.

6.5.2 Operating the default Exam. Tag setting tool

The setting method for default Exam. Tags is as follows.

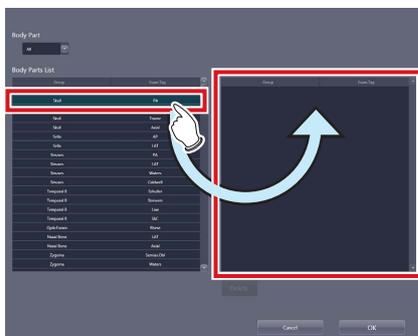
● Registration of the Default Exam. Tags

1 Press [Exam Tag].



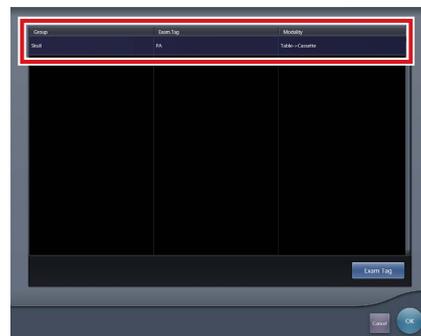
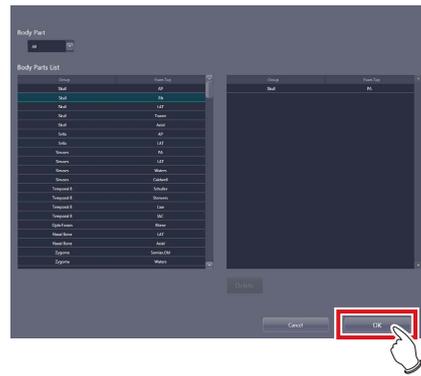
- The default Exam. Tag selection screen is displayed.

2 Drag and drop an Exam. Tag that is to be registered as the default Exam. Tag from [Body Parts List] to the default Exam. Tag area.



- IMPORTANT**
- The alignment sequence of the Exam. Tags in the default Exam. Tags area is the exposure sequence. You can modify their alignment sequence using drag and drop operations.
-

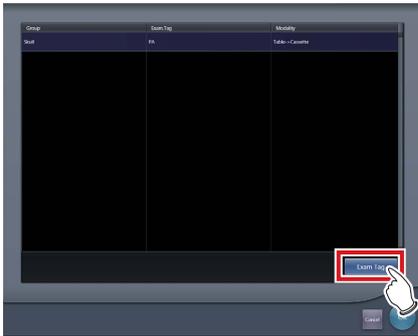
3 Press [OK].



- The default Exam. Tag is added and the display returns to the default Exam. Tag setting tool screen.

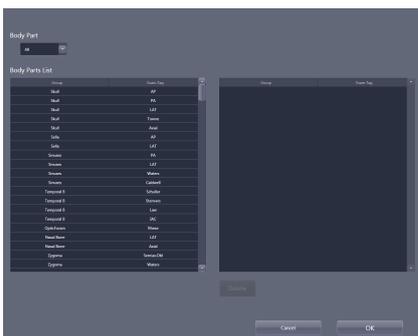
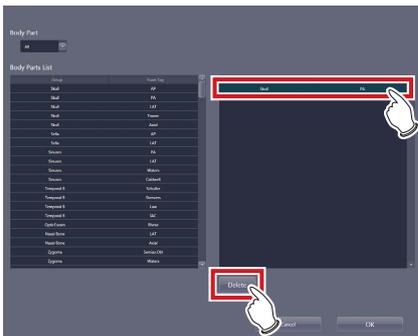
● Deletion of default Exam. Tags

1 Press [Exam Tag].



- The default Exam. Tag selection screen is displayed.

2 Select an Exam. Tag you want to delete from the default Exam. Tags area and press [Delete].



- The default Exam. Tag is deleted.

Chapter 7

Tools When [Setting] Is Selected [Image Processing] Area

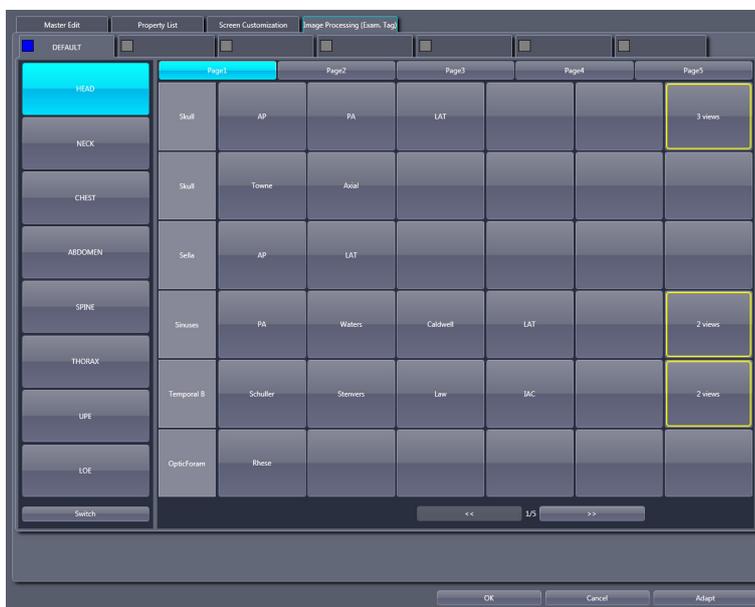
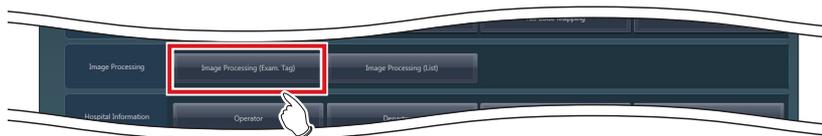
This chapter describes the tools in the [Image Processing] area displayed when [Setting] is selected.

7.1 • [Image Processing (Exam. Tag)]

For adjusting the image processing parameter of the Exam.Tag.

7.1.1 Exam. Tag edit tool screen

When [Image Processing (Exam. Tag)] of the [Image Processing] area is pressed, the Exam. Tag edit tool screen is displayed.



Reference

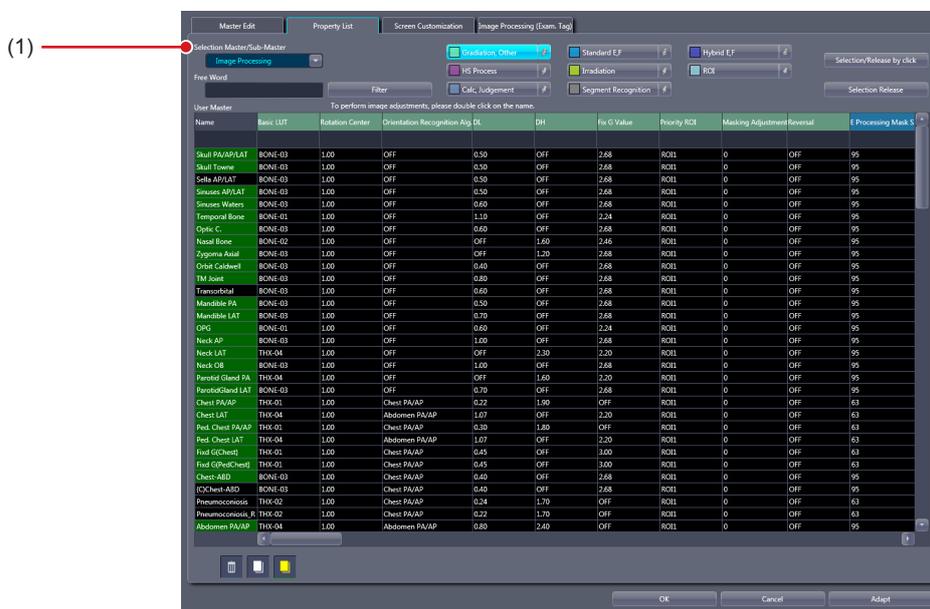
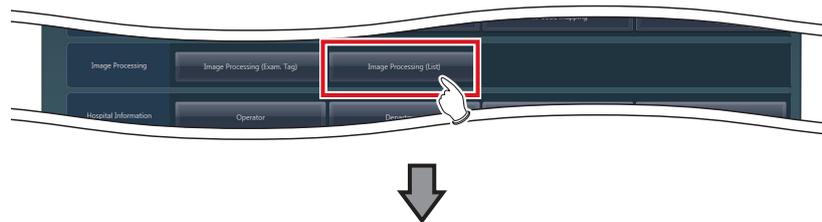
- For the screen, refer to "6.2.10 Image Processing (Exam. Tag) screen".

7.2 • [Image Processing (List)]

This tool is for adding and editing image-processing information.

7.2.1 Exam. Tag edit tool screen

When [Image Processing (List)] of the [Image Processing] area is pressed, the Exam. Tag edit tool screen is displayed while the [Property List] tab is selected at the same time.



Number	Name	Function
(1)	[Selection Master/Sub-Master]	Displayed with [Image Processing] being turned on.

Chapter 8

Tools When [Setting] Is Selected [Hospital Information] Area

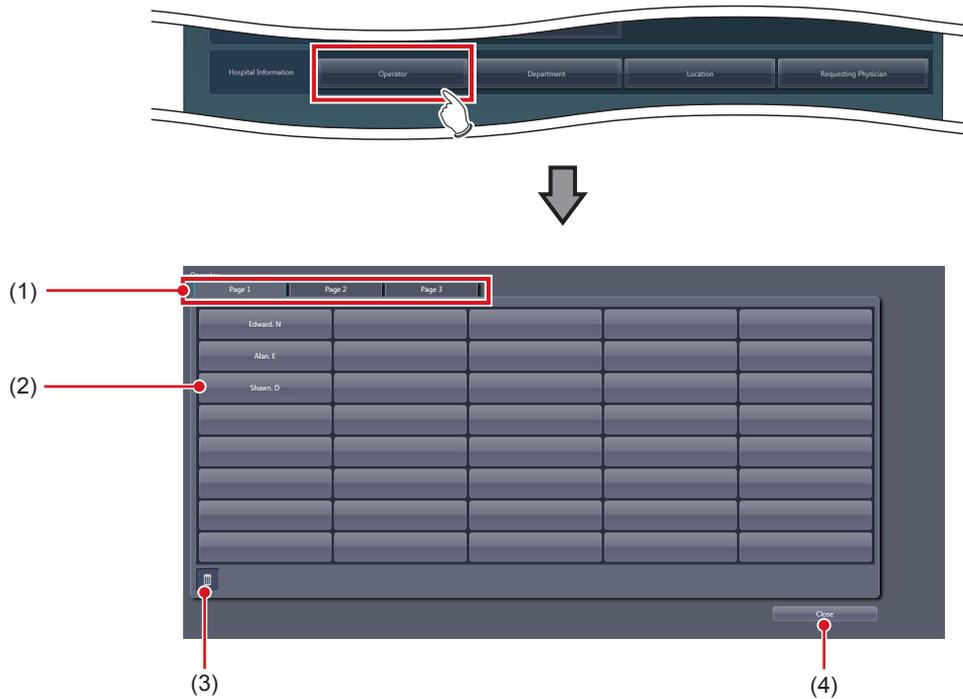
This chapter describes the tools in the [Hospital Information] area displayed when [Setting] is selected.

8.1 • [Operator]

This tool is for registering and editing the selection of the name of the operator.

8.1.1 Operator tool screen

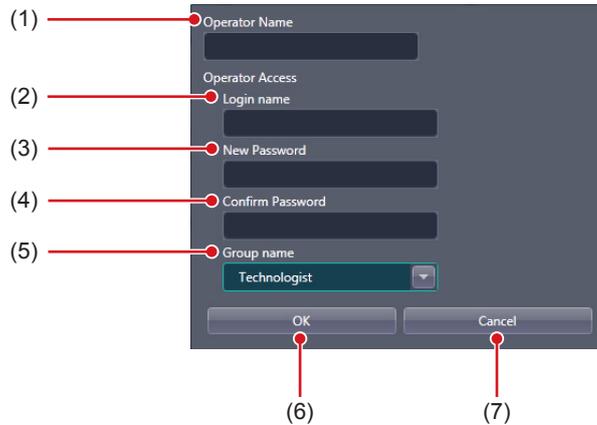
When [Operator] of the [Hospital Information] area is pressed, the operator tool screen is displayed.



Number	Name	Function
(1)	Page switching tab	Switches the pages of the selection list.
(2)	Selection	Displays the operator name editing screen by double-clicking the selection to be registered or edited.
(3)	Trash	Deletes unnecessary selection.
(4)	[Close]	Closes the operator tool screen.

● **Operator name editing screen**

Double-click the selections under the operator tool screen to display.
Used for editing operator names and login accounts and passwords.



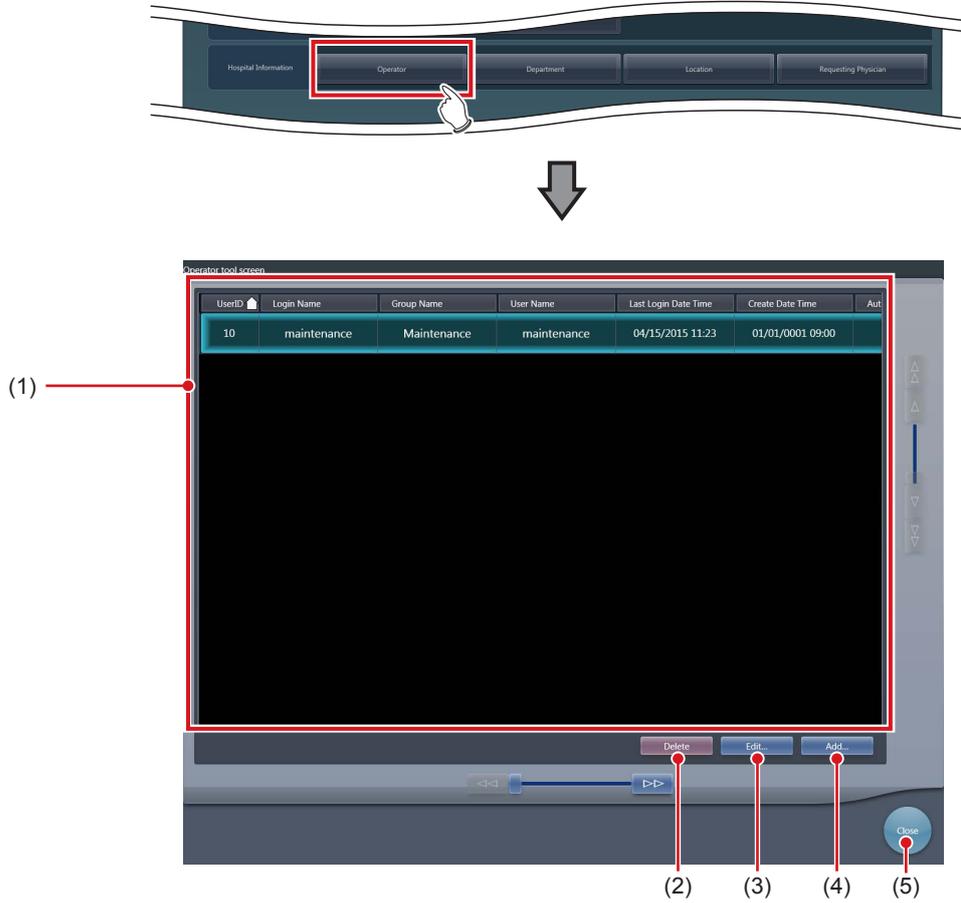
Number	Name	Function
(1)	[Operator Name]	For inputting the operator name.
(2)	[Login name]	For setting the login name. Defines the login account to be input on the login screen when automatic login is disabled.
(3)	[New Password]	For setting the password. Defines the password to be input on the login screen when automatic login is disabled.
(4)	[Confirm Password]	For reentering the password for confirmation during password setting.
(5)	[Group name]	For setting the group for the operator to be registered.
(6)	[OK]	Saves the edited content and closes the screen.
(7)	[Cancel]	Cancels the edited content and closes the screen.

 **HINT**

- [Login name], [New Password], [Confirm Password], and [Group name] are displayed only when the automatic login mode is disabled (login control mode).

8.1.2 Operator registration tool screen (with the domain controller)

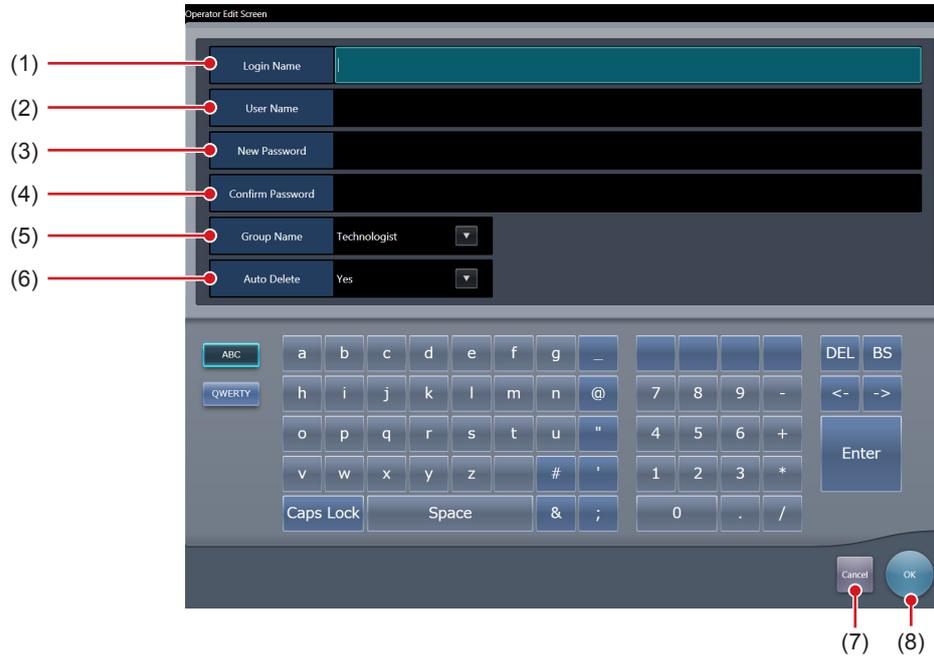
When using the domain controller, press [Operator] in the [Hospital Information] area to display the following operator registration tool screen.



Number	Name	Function
(1)	Operator name list	The list of registered operator names is displayed.
(2)	[Delete]	Press this button to delete a registered operator.
(3)	[Edit...]	Press this button to change the registered operator information.
(4)	[Add...]	Press this button to register a new operator.
(5)	[Close]	Closes the operator registration tool screen.

● Operator information registration tool

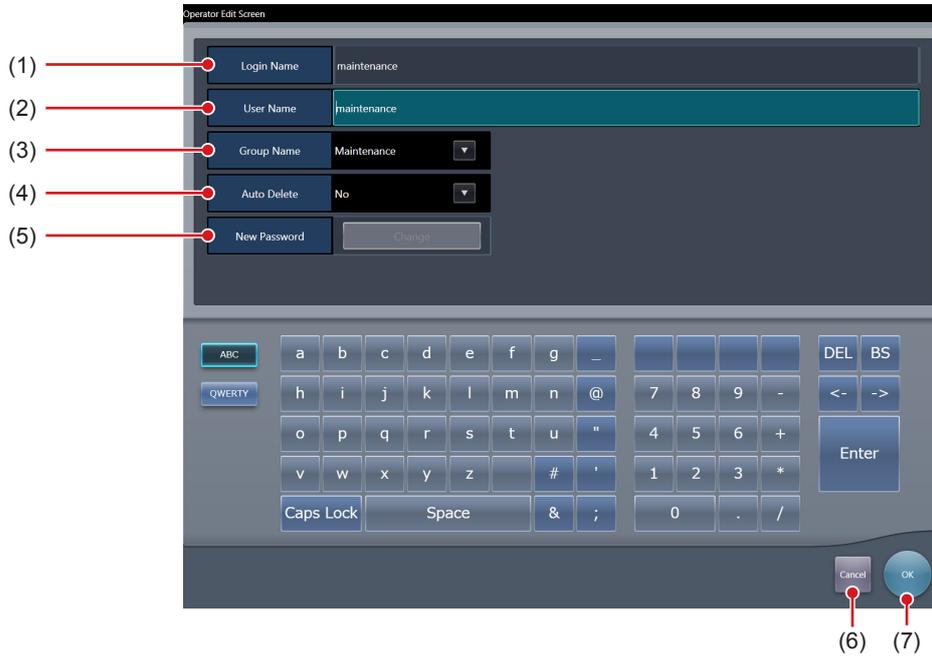
This screen is displayed when [Add] is pressed in the operator registration tool screen.
Register the new operator information.



Number	Name	Function
(1)	[Login Name]	Enter the login name.
(2)	[User Name]	Enter the operator name.
(3)	[New Password]	Enter the password.
(4)	[Confirm Password]	Re-enter the password to confirm it.
(5)	[Group Name]	Set the authorization level of the operator to be registered.
(6)	[Auto Delete]	Set whether to include in the target of the auto delete.
(7)	[Cancel]	Cancel the input and close the screen.
(8)	[OK]	Save the entered content and close the screen.

● **Operator information edit tool**

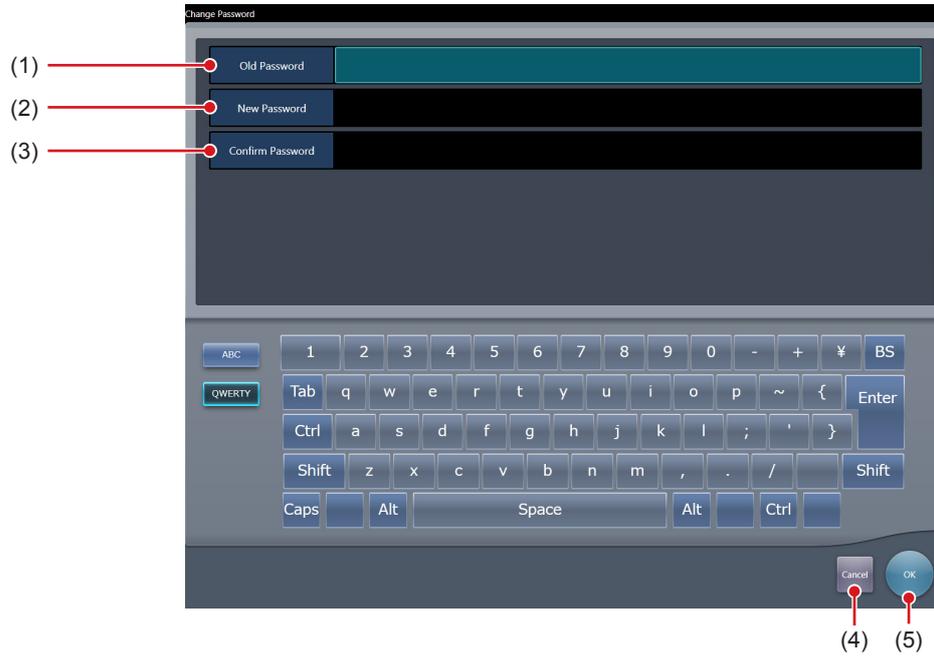
This screen is displayed when [Edit] is pressed in the operator registration tool screen.
 Edit the registered operator information.



Number	Name	Function
(1)	[Login Name]	The login name is displayed. Cannot be changed.
(2)	[User Name]	Edit the operator name.
(3)	[Group Name]	Set the authorization level of the operator to be registered.
(4)	[Auto Delete]	Set whether to include in the target of the auto delete.
(5)	[New Password]	To change the password, press [Change].
(6)	[Cancel]	Cancel the edit and close the screen.
(7)	[OK]	Save the edited content and close the screen.

● Password change screen

This screen is displayed when [Change] is pressed on the operator information edit screen. Change the password.



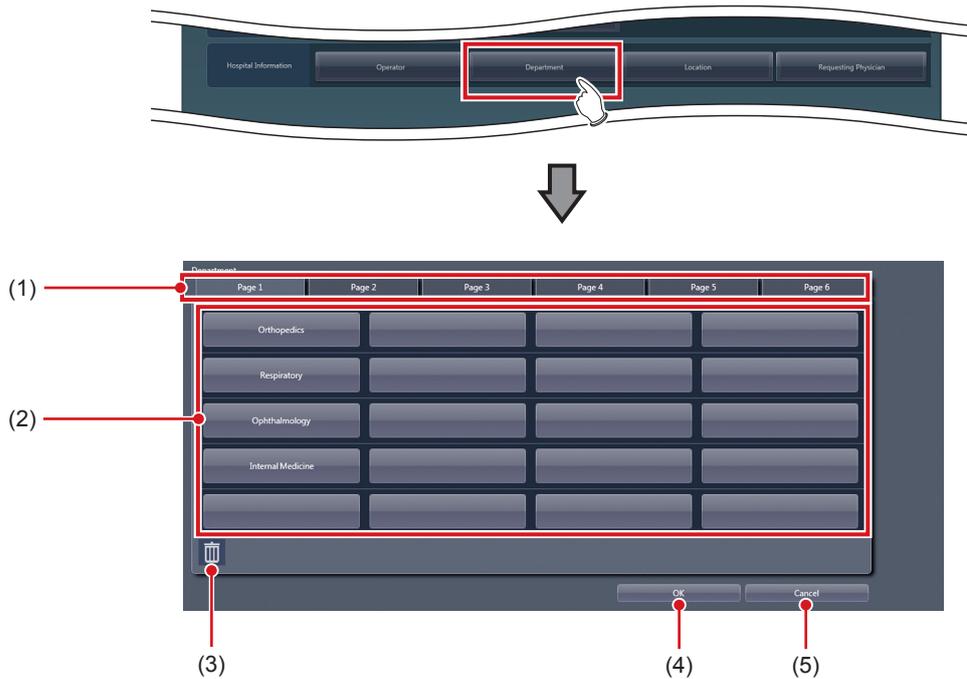
Number	Name	Function
(1)	[Old Password]	Enter the old password.
(2)	[New Password]	Enter the new password.
(3)	[Confirm Password]	Re-enter the new password to confirm it.
(4)	[Cancel]	Cancel the change of password and close the screen.
(5)	[OK]	Save the changed content and close the screen.

8.2 • [Department]/[Location]

This tool is for registering and editing options for hospital departments and hospital wards. This section describes the procedure with [Department] as an example.

8.2.1 Department tool screen

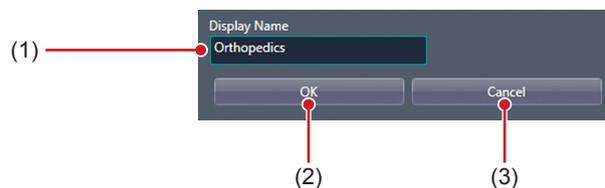
When [Department] of the [Hospital Information] area is pressed, the department tool screen is displayed.



Number	Name	Function
(1)	Page switching tab	Switches the pages of the selection list.
(2)	Selection	Displays the selection editing screen by double-clicking the selection to be registered or edited.
(3)	Trash	Deletes unnecessary selection.
(4)	[OK]	Saves the edited selection and closes the screen.
(5)	[Cancel]	Cancel the edited selection and closes the screen.

● Selection editing screen

This is the screen that is displayed when a selection is double-clicked on the department tool screen.



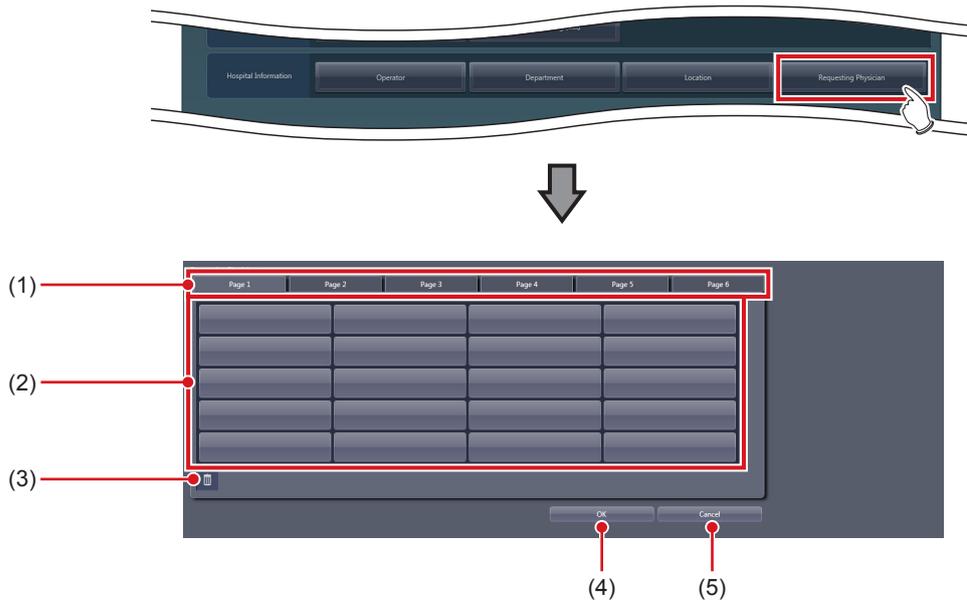
Number	Name	Function
(1)	[Display Name]	For inputting the selection.
(2)	[OK]	Saves the input selection and closes the selection editing screen.
(3)	[Cancel]	Cancel the input selection and closes the selection editing screen.

8.3 • [Requesting Physician]

This tool is for registering and editing the options for requesting physicians.

8.3.1 Requesting physician registration tool screen

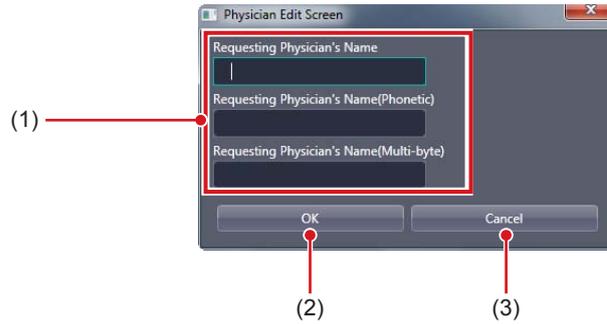
Press [Requesting Physician] in [Hospital Information] area to display the requesting physician registration tool screen.



Number	Name	Function
(1)	Page switching tab	Switches the pages of the selection list.
(2)	Selection	Double-click the selection you want to register and edit to display the requesting physician name edit screen.
(3)	Trash	Deletes unnecessary selection.
(4)	[OK]	Saves the edited selection and closes the screen.
(5)	[Cancel]	Cancel the edited selection and closes the screen.

● **Physician edit screen**

This screen is displayed when you double-click your choice on the requesting physician registration tool screen.



Number	Name	Function
(1)	[Requesting Physician's Name]	Enter the requesting Physician's name.
(2)	[OK]	Closes the screen after saving your entry.
(3)	[Cancel]	Closes the screen after canceling your entry.

IMPORTANT

- The [Requesting Physician's Name] field requires an entry.

Chapter 9

Tools When [Backup/Restore] Is Selected [Backup] Area

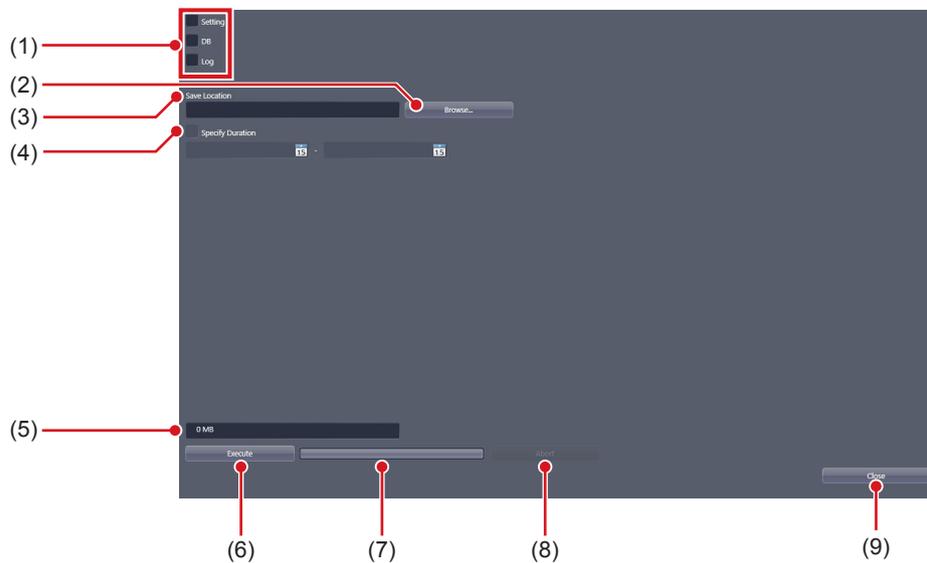
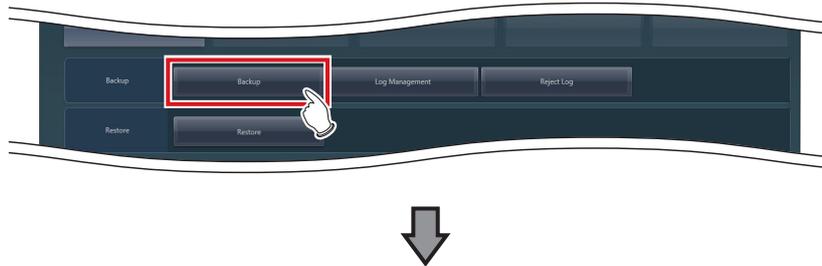
This chapter describes the tools in the [Backup] area displayed when [Backup/Restore] is selected.

9.1 • [Backup]

This tool is for saving the settings of this device, patient information and logs.

9.1.1 Backup tool screen

When [Backup] of the [Backup] area is pressed, the backup tool screen is displayed.



Number	Name	Function
(1)	[Setting]/[DB]/[Log]	For selecting the items to be backed up. You can select from this device's settings, patient information and logs. You can select more than one option at once.
(2)	[Browse]	For selecting the save destination path.
(3)	[Save Location]	Displays the specified destination path.
(4)	[Specify Duration]	Narrows down the items to be backed up with the examination date.
(5)	Output data size	Displays the size of data to be backed up.
(6)	[Execute]	Starts the backup.
(7)	Progress bar	Displays the progress of the backup.
(8)	[Abort]	Aborts backup. IMPORTANT • To restart the backup process, press [Execute] to start again from the beginning.
(9)	[Close]	Exits the backup tool.

IMPORTANT

- The Remote Desktop Relation settings cannot be restored using other units of this device.

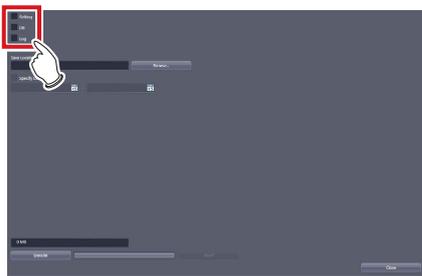
9.1.2 Backup tool operation

The save method for setting data of this device, patient information and logs is as follows.

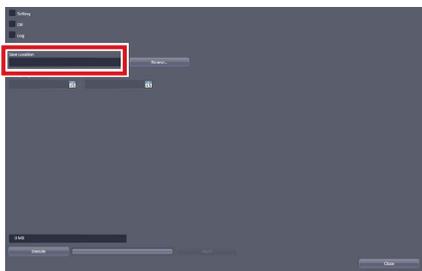
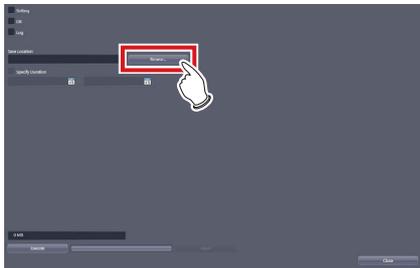
● Backup

1 Select from [Setting], [DB], and [Log].

- To save the setting data of this device, select [Setting].
- To save the patient information, select [DB].
- To save the operation log, select [Log].
- You can select more than 1 option at once.

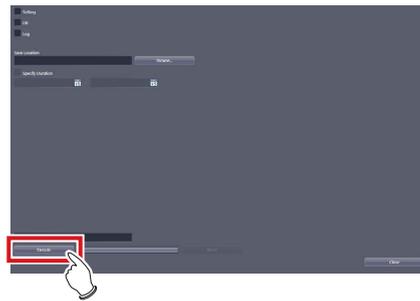


2 Press [Browse...] and select the save destination path.



- The selected destination path will be displayed under [Save Location].

3 Press [Execute].



- Backup starts.

IMPORTANT

- The size of the files to be backed up may become large. Before starting the backup, confirm the size of the media where the files are saved.

HINT

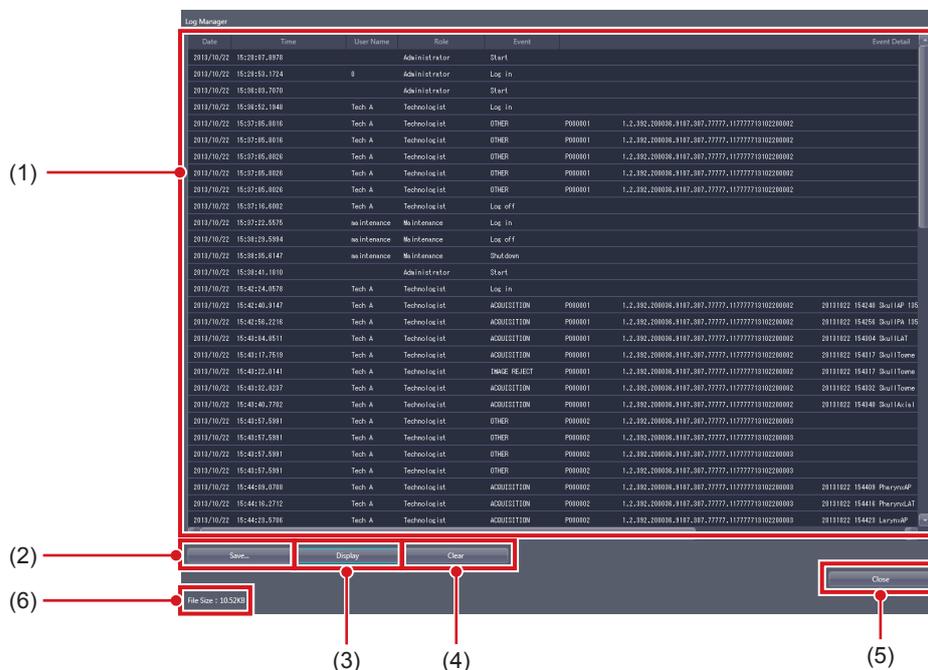
- The backup target can be narrowed down by examination date under [Specify Duration].

9.2 • [Log Management]

This tool is for displaying, saving or deleting operation logs of this device.

9.2.1 Log management tool screen

When [Log Management] in [Backup] area is pressed, the log management tool screen is displayed.



Number	Name	Functions
(1)	Log list display area	This is an area used to display operation log contents.
(2)	[Save...]	Saves the operation log to the specified save destination.
(3)	[Display]	Displays the operation log in the log list display area. <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px 0;"> IMPORTANT </div> <ul style="list-style-type: none"> The operation log is not displayed in the log list display area when the log management tool screen is started. Press [Display] to display the operation log.
(4)	[Clear]	Deletes the operation log.
(5)	[Close]	Exits from the log management tool.
(6)	Log file size	Displays the size of the log file in this device.

HINT

- In the login management mode, only operators with administrator privileges can open the log management tool screen.
- The log list display area shows the operation log with the following contents.

Date	Time	User Name	Role	Event	Event Detail
2013/10/22	15:42:40.8147	Tech A	Technologist	ACQUISITION	PR00001 1.2.382.200106.8107.307.7777.11777710102200002 03131022.154240.8147
2013/10/22	15:42:46.2216	Tech A	Technologist	ACQUISITION	PR00001 1.2.382.200106.8107.307.7777.11777710102200002 03131022.154246.2216
2013/10/22	15:42:44.8511	Tech A	Technologist	ACQUISITION	PR00001 1.2.382.200106.8107.307.7777.11777710102200002 03131022.154244.8511
2013/10/22	15:42:17.7519	Tech A	Technologist	ACQUISITION	PR00001 1.2.382.200106.8107.307.7777.11777710102200002 03131022.154217.7519
2013/10/22	15:42:22.8141	Tech A	Technologist	IMAGE REJECT	PR00001 1.2.382.200106.8107.307.7777.11777710102200002 03131022.154222.8141
2013/10/22	15:42:32.4297	Tech A	Technologist	ACQUISITION	PR00001 1.2.382.200106.8107.307.7777.11777710102200002 03131022.154232.4297

- Date
Displays the date the operation took place in "yyyy/mm/dd" format.
- Time
Displays the time the operation took place in "hh/mm/ss" format.
- User Name
Displays the name of the operator who performed the operation.
- Role
Displays the access privileges for the operator who performed the operation.
- Event
Displays the types of operation that took place in the following item names.

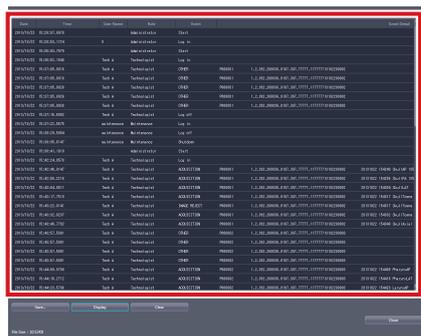
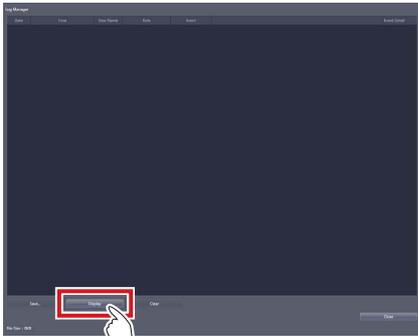
Item Name	Operation
Start	Starts this device.
Shutdown	Press [Shut down] to shut down this device.
Log in	Log in to this device via manual login.
Log off	Log off from this device by pressing [Logoff].
ScreenSaver	Starts a screen saver.
ACQUISITION	Performs exposure on the exposure screen.
IMAGE REJECT	Rejects an exposed image on the exposure screen.
IMAGE REJECT CANCEL	Cancels reject image.
POSTTEXP TRIM	Changes cropping by specifying two positions on the viewer screen.
PROCESSING	Changes the S/G value on the viewer screen.
OVERLAY	Changes the overlay in the Overlay tab on the exposure screen.
FORMAT	Changes the print format with the Output tab on the exposure screen.
OUTPUT FINISH Hn	Output to the host.
OUTPUT FINISH Pn	Output to the printer.
RE-OUTPUT Hn	Re-output to the host.
RE-OUTPUT Pn	Re-output to the printer.
EDIT	Views examination history on the list screen.
MODIFY	Modifies supplemental information on an exposed image.
OTHER	Select a body part on the body part selection screen and press [OK].
OUTPUT MEDIA	Output to media.
IMAGE CHANGE	Changes images.
DELETE OUTPUT QUE Hn	Select one host output queue on the system monitor screen and press [Delete].
DELETE OUTPUT QUE Pn	Select one printer output queue on the system monitor screen and press [Delete].
PATIENT DB MODIFY	Modifies the patient information on an exposed image (completed examination) from the list screen.
INFO MODIFY	Modifies the patient information on an unexposed image (unexposed study) from the list screen.
IMAGE COPY	Performs image copying to check a log of operations.
DELETE STUDY	Press [] with an unexposed image remaining in the study, and press [OK] in the confirmation dialog.
ACQUISITION	Log in with Superuser privileges and perform exposure on the exposure screen.
OTHER	Log in with Technologist privileges, select a body part on the body part selection screen, and press [OK].

- Event Detail
The details of the operations that took place are displayed.

9.2.2 Operating the log management tool

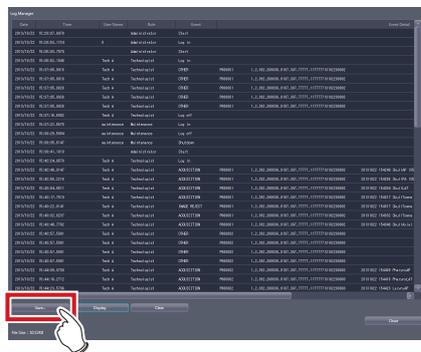
The method for displaying, saving or deleting a log of operations of this device is as follows.

1 Press [Display].



- Operation logs are displayed in the log list display area.

2 Press [Save...].



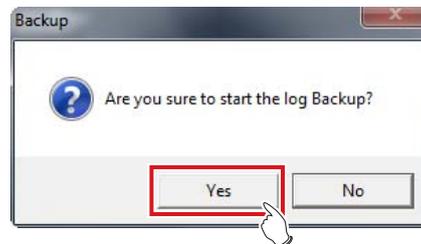
- The save dialog is displayed.

3 Specify a desired save destination and a file name, and press [Save].



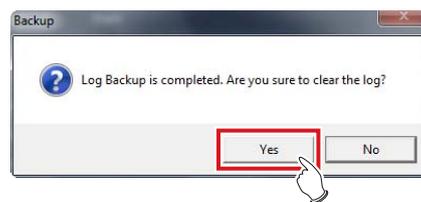
- A confirmation message is displayed asking you to confirm that you want to save operation logs.

4 Press [Yes].



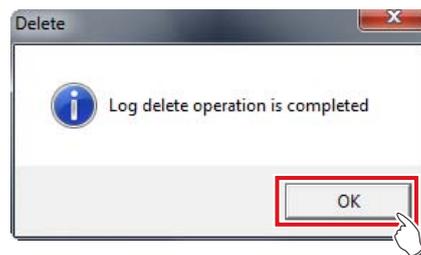
- Saving of operation logs starts.
- Once the operation logs have been saved, a message is displayed asking you to confirm that you want to delete the operation logs.

5 If you want to delete the operation logs, press [Yes].



- Once the operation logs have been deleted, a message confirming the deletion is displayed.

6 Press [OK].

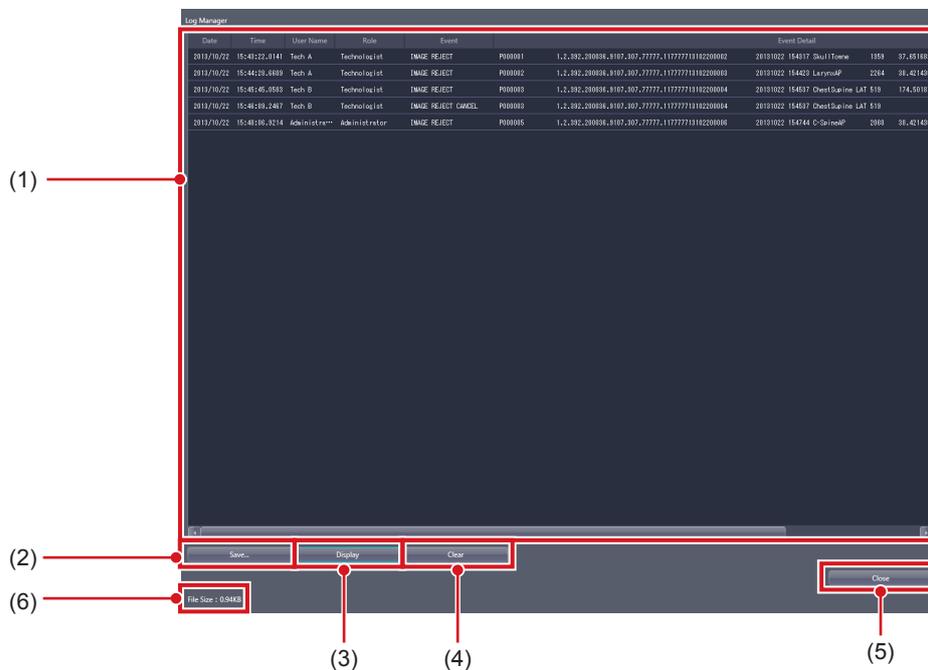
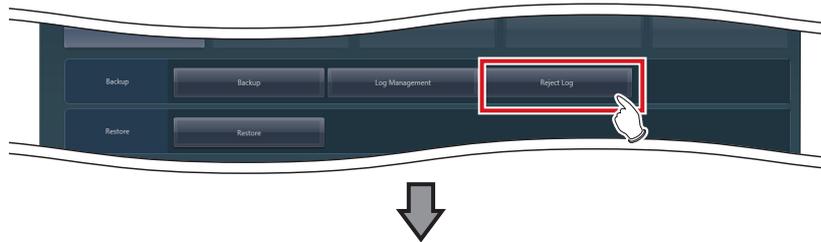


9.3 • [Reject Log]

This tool is for displaying, saving or deleting logs of rejected images of this device.

9.3.1 Reject log tool screen

When [Reject Log] in [Backup] area is pressed, the reject log tool screen is displayed.



Number	Name	Functions
(1)	Log list display area	This is an area used to display the contents of logs of rejected images.
(2)	[Save...]	Saves logs of rejected images to the specified save destination.
(3)	[Display]	Displays logs of rejected images in the log list display area. <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;"> IMPORTANT </div> <ul style="list-style-type: none"> Logs of rejected images are not displayed in the log list display area when the reject log tool screen is started. Press [Display] to display logs of rejected images.
(4)	[Clear]	Deletes a log of rejected images.
(5)	[Close]	Exits from the reject log tool.
(6)	Log file size	Displays the size of the log file in this device.

9.3 [Reject Log]

 **HINT**

- In the login management mode, only operators with administrator privileges can open the reject log tool screen.
- The log list display area shows logs of rejected images with the following contents.

Log Manager		Date	Time	User Name	Role	Event	Event Detail				
2013/10/22	15:41:22.8141	Tech A	Technologist	IMAGE_REJECT	P000001	1.0.380.200006.9107.907.77777.11777710102200002	20131022	154317	SkullTome	1359	37.451689
2013/10/22	15:44:39.4999	Tech A	Technologist	IMAGE_REJECT	P000002	1.0.380.200006.9107.907.77777.11777710102200003	20131022	154429	LarynxAP	2264	38.421436
2013/10/22	15:45:46.4999	Tech B	Technologist	IMAGE_REJECT	P000003	1.0.380.200006.9107.907.77777.11777710102200004	20131022	154537	ChestSupine LAT	519	174.50197
2013/10/22	15:48:39.2487	Tech B	Technologist	IMAGE_REJECT_CANCEL	P000003	1.0.380.200006.9107.907.77777.11777710102200004	20131022	154537	ChestSupine LAT	519	
2013/10/22	15:48:39.9214	Administ	Administrator	IMAGE_REJECT	P000005	1.0.380.200006.9107.907.77777.11777710102200006	20131022	154744	C-SpineAP	2069	39.421436

- **Date**
Displays the date at which images were rejected in "yyyy/mm/dd" format.
- **Time**
Displays the time at which images were rejected in "hh:mm:ss" format.
- **User Name**
Displays the name of the operator who rejected the images.
- **Role**
Displays the access privileges for the operator who rejected the images.
- **Event**
Displays the types of operation that took place in the following item names.

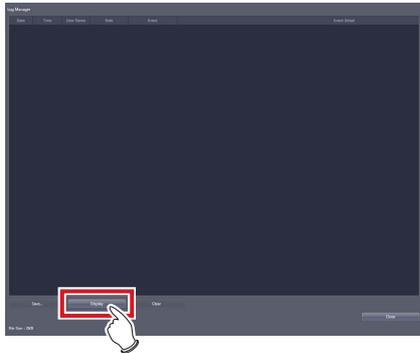
Item Name	Operation
IMAGE REJECT	Rejects an exposed image on the exposure screen.
IMAGE REJECT_CANCEL	Cancels reject image.

- **Event Detail**
The details of the rejected images are displayed.
-

9.3.2 Operating the reject log tool

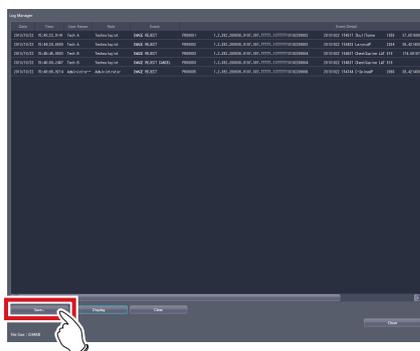
The method for displaying, saving or deleting logs of rejected images of this device is as follows.

1 Press [Display].



- Logs of rejected images are displayed in the log list display area.

2 Press [Save...].



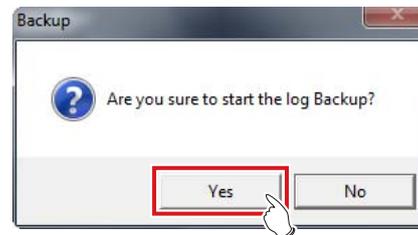
- The save dialog is displayed.

3 Specify a desired save destination and a file name, and press [Save].



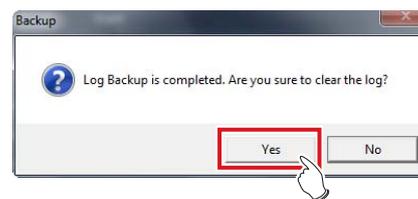
- A confirmation message is displayed asking you to confirm that you want to save logs of rejected images.

4 Press [Yes].



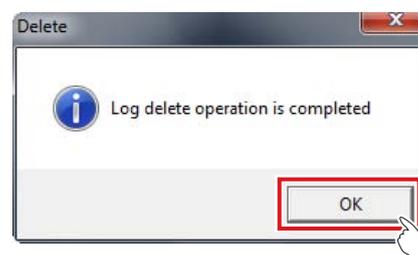
- Saving of logs of rejected images starts.
- Once the logs of rejected images have been saved, a message is displayed asking you to confirm that you want to delete the logs of rejected images.

5 If you want to delete the logs of the rejected images, press [Yes].



- Once the logs of rejected images have been deleted, a message confirming the deletion is displayed.

6 Press [OK].



Chapter 10

Tools When [Backup/Restore] Is Selected [Restore] Area

This chapter describes the tools in the [Restore] area displayed when [Backup/Restore] is selected.

10.1 • [Restore]

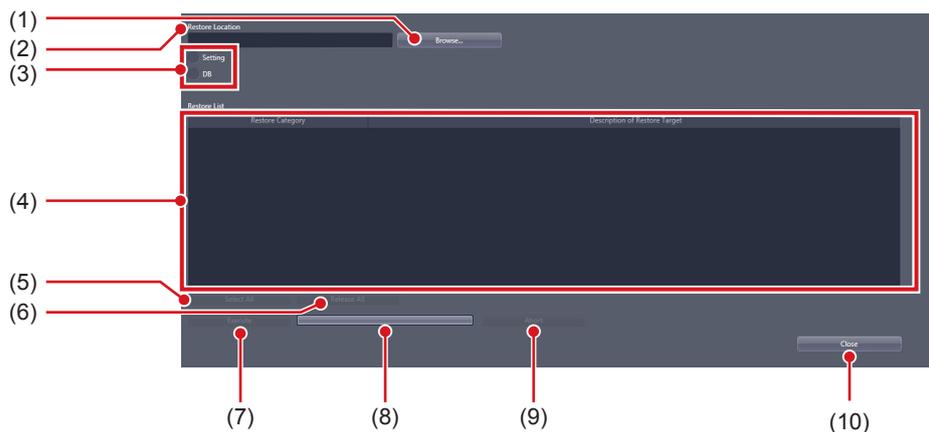
This tool is for restoring backup setting data and patient information mentioned in Chapter 9.

IMPORTANT

- Backup data cannot be restored on a different version of this device.

10.1.1 Restoring tool screen

When [Restore] of the [Restore] area is pressed, the restoring tool screen is displayed.



Number	Name	Function
(1)	[Browse...]	For selecting the destination path.
(2)	[Restore Location]	Displays the specified destination path.
(3)	[Setting]/[DB]	For selecting the items to restore. You can select from the settings of this device and patient information.
(4)	Restore list	Displays a list of the items to be restored.
(5)	[Select All]	Selects all the displayed items.
(6)	[Release All]	Cancel all the displayed selected items.
(7)	[Execute]	Starts restoring.
(8)	Progress bar	Displays the progress of the restore.
(9)	[Abort]	Aborts restore. IMPORTANT • To restart the restore process, press [Execute] to start again from the beginning.
(10)	[Close]	Exits from the restoring tool.

 **IMPORTANT**

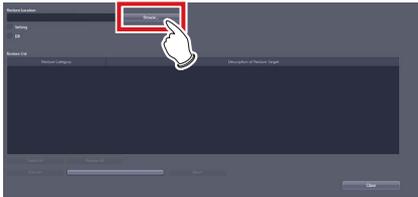
- When you have selected [Setting], selected [RIS code mapping] on the list, then restored an RIS code table having different break characters, restart the device, start up the RIS code mapping tool, then press [OK] to save the RIS code table again. The RIS code table is converted depending on the break character setting at the time of saving.
-

10.1.2 Restoring tool operation

The restore method for setting data of this device and patient information is as follows.

● Restoring

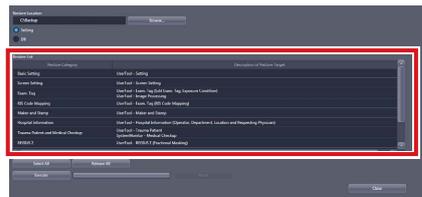
1 Press [Browse...], and select the save destination path for the restored data.



- The selected destination path will be displayed under [Restore Location].

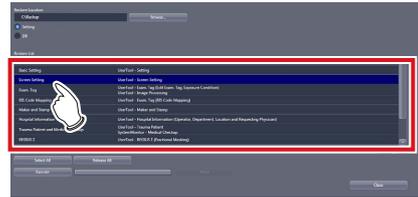
2 Select [Setting] or [DB].

- To restore the setting data of this device, select [Setting].
- To restore saved patient information, select [DB].

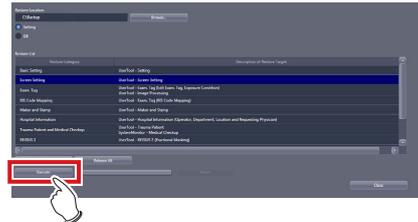


- If you have selected [Setting], the saved data will be displayed in the restore list.

3 If you select [Setting] in step 1, then saved data can be selected from the restore list.



4 Press [Execute].



Chapter 11

Tools When [Backup/Restore] Is Selected

[Auto backup] Area

This chapter describes the tools in the [Auto backup] area displayed when [Backup/Restore] is selected.

11.1 • Precautions for the use of the auto backup function

The auto backup automatically backs up the examination information and image data when this device is operated through the portable X-ray device. This function is used to send the examination information and image data obtained that day to another unit of this device (hereinafter referred to as the recovery unit) and output the data to the HOST/Printer.

11.1.1 Prior confirmation items

IMPORTANT

- The license for the auto backup function is required for both this device and the recovery unit.
- Before connecting a removable memory to this device, perform virus scan to check whether or not the removable memory is infected with a virus.
- The auto backup and restoration are not intended to completely restore patient information, examination information or image data. Only image data of the current day has been saved although all items are displayed in the study and history lists. After restoring images, check them again and output them to the HOST/Printer.
- Konica Minolta does not offer any guarantee as to the use or the result of use of the auto backup or restore.
- Konica Minolta is not responsible for any claims made for damage or loss of backup data or restored data.
- Backup files are not created in the following cases.
 - When no removable memory is connected to the preset drive
 - When the removable memory cannot be recognized or accessed by this device
 - When the removable memory has no space available
 - When this device is connected to the RIS/HOST via a network
 - You failed to copy a file
- Be aware of the following when you use the auto backup.
 - If this device gets damaged, images are not backed up as to the examination being executed.
 - Studies are not backed up when this device is connected to the RIS/HOST via a network. While making a round of visit in a hospital ward, disconnect this device from the network to the RIS/HOST/Printer, turn off the output to the RIS/HOST/Printer, and only reserve the output. After finishing the round of visit, connect this device to the network to the RIS/HOST/Printer, turn on the output to the RIS/HOST/Printer, and send the reserved output.
 - Do not include this device in an examination sharing group.

11.1.2 Matters related to removable memory

IMPORTANT

- Handle removable memory with great care. If you damage or lose removable memory, the backup data cannot be restored.
- We recommend using removable memory having an encryption function from the viewpoint of protection of personal information.
- Some type of removable memory having an encryption function restricts access to the data if you mistake the password several times in series. You should fully understand the instruction manual for the removable memory before using it.
- To start up the password cancel tool for the removable memory, start up Explorer using the Windows key or on the task bar, then access the removable memory.
- The following removable memory units are recommended. For purchase details, contact Konica Minolta service representatives.
 - Panasonic Corporation information security-compliant SDHC memory card (P/N: RP-SEAC04)
 - Kingston Technology Corporation secure USB flash drive: DataTraveler Vault Privacy (P/N: DTVP/4GB)
- For details on basic operations for a removable memory unit, refer to its operating instructions. Failure to follow directions given in the operating instructions may result in data not being backed up.

HINT

- When you connect removable memory having an encryption function, enable access to the removable memory by entering the password or in some other way.
- For details of the procedure for connecting removable memory, see the instruction manual for the removable memory.
- When you use the recommended removable memory (4 GB), it can store approx. 250 images.

11.1.3 Matters related to service

IMPORTANT

- To use the auto backup function, the write limitation for external storage drives must be canceled. If you cannot write the data, ask the service engineer to modify the setting.
- Some type of removable memory requires access to the task tray to start up the tool. To display the task tray on this device, ask the service engineer to modify the setting.

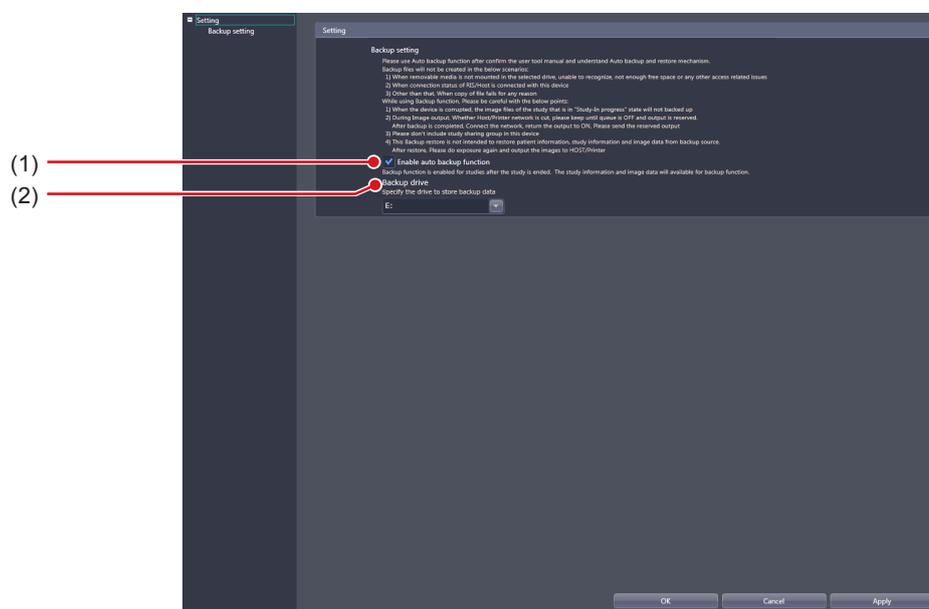
.....

11.2 • [Setting]

This screen is for enabling/disabling the auto backup function and selecting the storage drive for backup data.

11.2.1 Auto backup setting tool screen

Press [Setting] in the [Auto backup] area to display the backup setting tool screen.

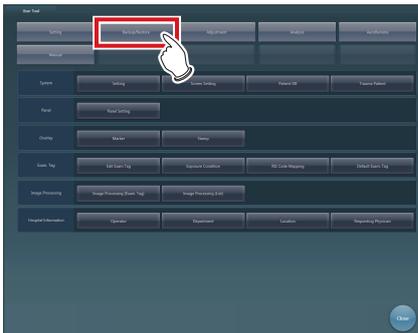


Number	Name	Function
(1)	[Enable auto backup function]	Check the check box of either Enabled or Disabled for the auto backup function.
(2)	[Backup drive]	Select the drive for storing backup data.

11.2.2 Auto backup setting

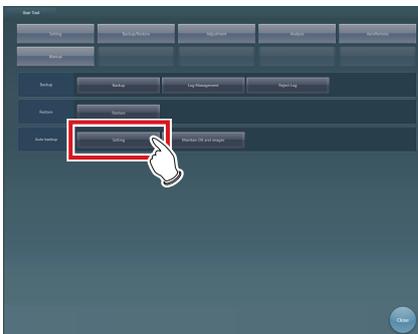
The procedure for setting the auto backup function is as follows.

- 1 Connect removable memory to this device.
- 2 Start up the user tool.
- 3 Press [Backup/Restore].



- The Backup/Restore screen is displayed.

- 4 Press [Setting].

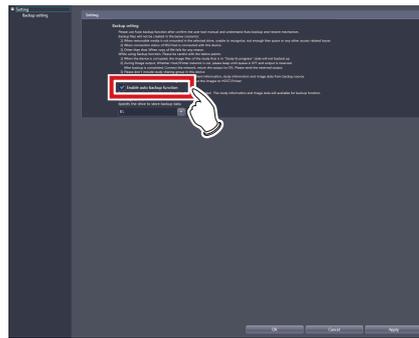


- The auto backup setting tool screen is displayed.

HINT

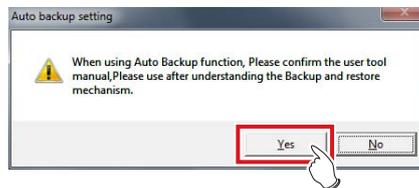
- In login control mode, the auto backup tool setting screen can be opened only by operators with the administrator's authority.
-

- 5 Select [Enable auto backup function].

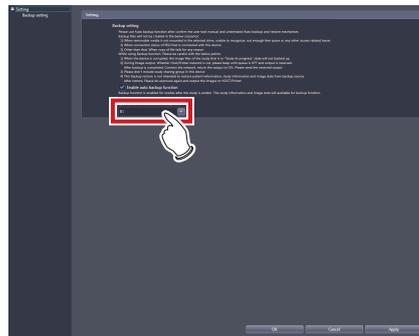


- The precautions for usage are displayed.

- 6 Press [Yes].



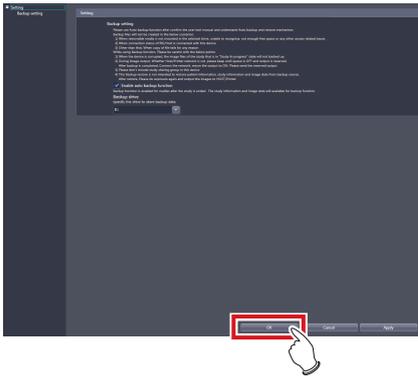
- 7 Select the drive to which removable memory is connected in the [Backup drive].



HINT

- You can select the drives that have been recognized at the time when starting up the auto backup setting tool screen as the output destination drive.
-

8 Press [OK].



- The settings are stored.

11.3 • Executing auto backup

11.3.1 Executing auto backup

Examination information and image data are automatically backed up when terminating or suspending examination.

1 Connect removable memory to this device.

2 Confirm that network connection with RIS, HOST, and Printer is disabled.

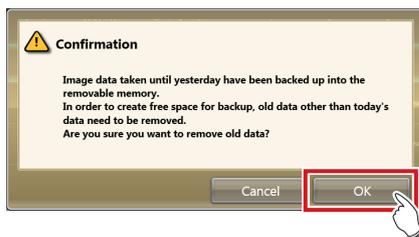
HINT

- You can check whether network connection is disabled on the system monitor screen.

3 Start examination.

HINT

- If the backup data of the previous day and before remains in the removable memory at the time when starting examination, a confirmation screen is displayed saying "Image data taken until yesterday have been backed up into the removable memory. In order to create free space for backup, old data other than today's data need to be removed. Are you sure you want to remove old data?" Confirm that the backup data is not necessary and press [OK].



- When you have to start examination immediately, select [Cancel] and start examination. The same confirmation screen appears again when starting the next examination.

4 Perform exposure.

5 Terminate or suspend the examination.

- The examination information and image data of the finished or suspended examination are automatically backed up.

IMPORTANT

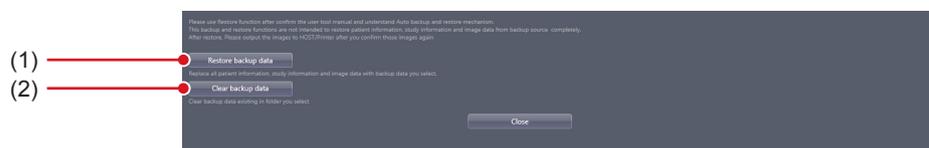
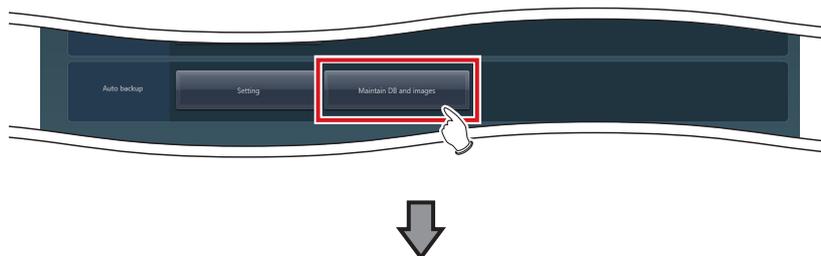
- Do not remove the removable memory while auto backup is executed.
- If the auto backup did not succeed, a message is displayed saying "Failed to back up the <target file>." Select the examination not backed up and press [Browse], then [] on the [Completed] tab on the list screen. (If you have suspended examination, start the examination again, then suspend the examination.)

11.4 • [Maintain DB and images]

You can restore/delete the database and image data stored in removable memory and this device.

11.4.1 Maintain DB and images screen

Press [Maintain DB and images] in the [Auto backup] area to display the Maintain DB and images screen.

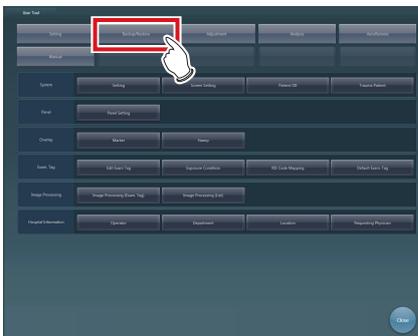


Number	Name	Function
(1)	[Restore backup data]	Replaces the patient information, examination information, and image data with the designated backup data.
(2)	[Clear backup data]	Deletes the backup data in the designated folder.

11.4.2 Restoration of the backup data

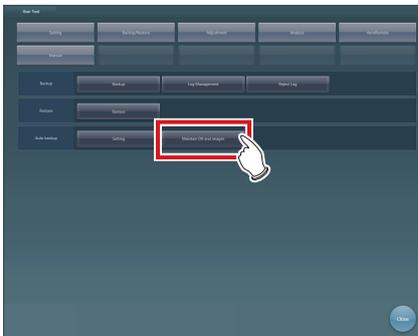
In cases where this device gets out of order, connect the removable memory that contains backup data to the recovery unit and restore the data.

- 1 Connect the removable memory to the recovery unit.
- 2 Start up the user tool.
- 3 Press [Backup/Restore].



- The Backup/Restore screen is displayed.

- 4 Press [Maintain DB and images].

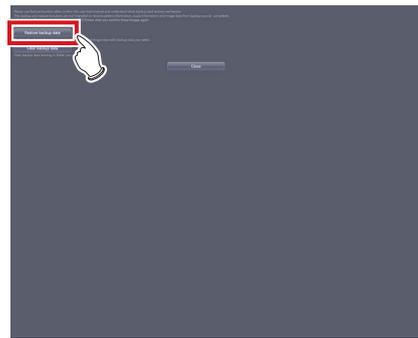


- The usage data maintenance screen is displayed.

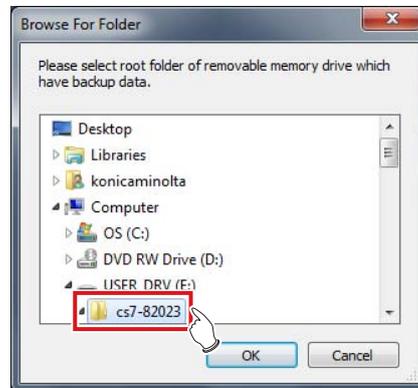
HINT

- In login control mode, the auto backup usage data maintenance screen can be opened only by operators with the administrator's authority.
-

- 5 Press [Restore backup data].



- 6 Select the folder of the computer name in the drive to which the removable memory is connected.

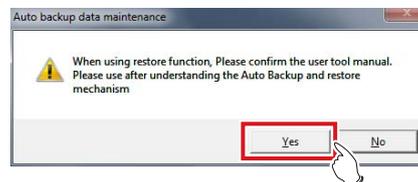


- The precautions for usage are displayed.

HINT

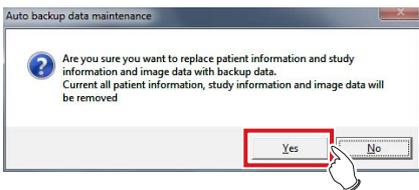
- You can select the drives that have been recognized at the time when starting up the tool.
 - The computer name is that of the device from which backup data is acquired.
-

- 7 Press [Yes].



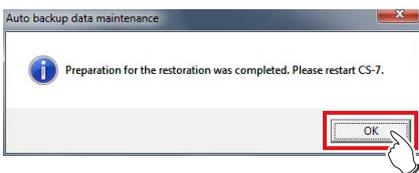
- A message is displayed to confirm whether you are sure to delete the examination information and image data from the recovery unit.

8 Press [Yes].



- Restoration starts.
- Once restoration is finished, a message prompting you to restart this device is displayed.

9 Press [OK].

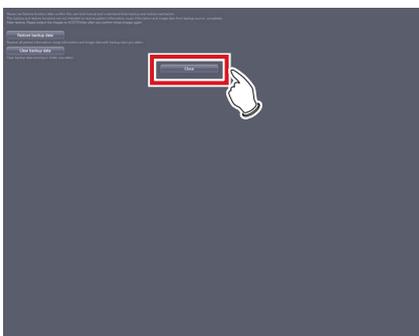


IMPORTANT

- If the restoration did not succeed for examination information or image data, the message "An error occurred while restoring the backup data. Check the backup data and retry restoration." is displayed. Retry restoration from step 1.

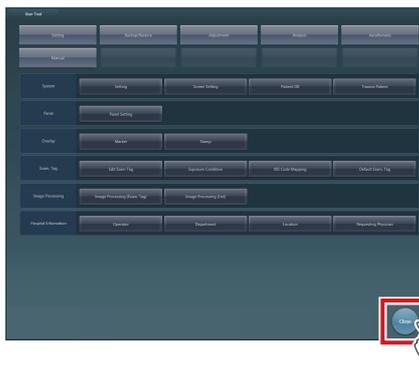
.....

10 Press [Close].



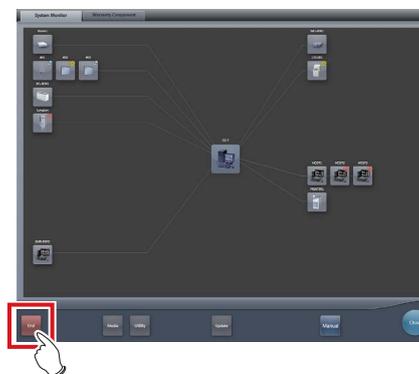
- The user tool screen is displayed.

11 Press [Close].



- The system monitor screen is displayed.

12 Press [End] on the system monitor.



13 Press [OK].

- The recovery unit is powered off.

14 Turn on the power of the recovery unit.



- A message is displayed saying "The backup data was successfully restored."

IMPORTANT

- If the restoration did not succeed for examination information or image data, a message is displayed saying "An error occurred while restoring the backup data. Check the backup data and retry restoration." Retry restoration from step 1.

.....

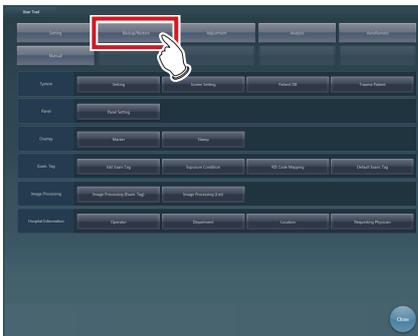
11.4.3 Deletion of the backup data

You can remove the backup data from the removable memory using the user tool.

1 Connect the removable memory to be deleted to the recovery unit.

2 Start up the user tool.

3 Press [Backup/Restore].



- The Backup/Restore screen is displayed.

4 Press [Maintain DB and images].

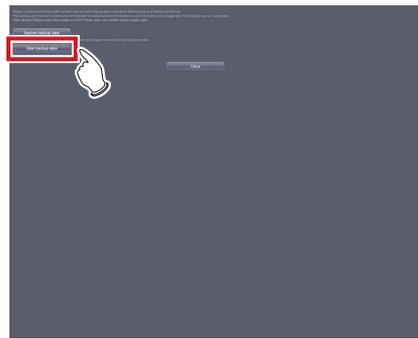


- The usage data maintenance screen is displayed.

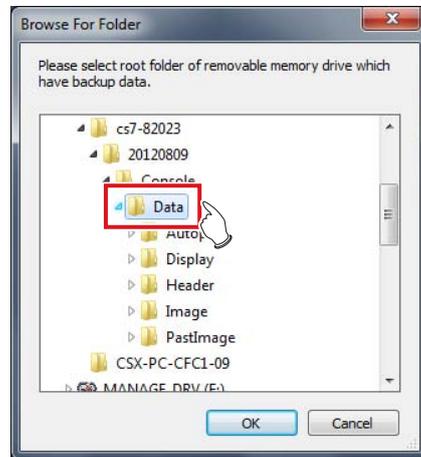
HINT

- In login control mode, the auto backup usage data maintenance screen can be opened only by operators with the administrator's authority.
-

5 Press [Clear backup data].



6 Select the folder of the computer name in the drive to which the removable memory is connected.

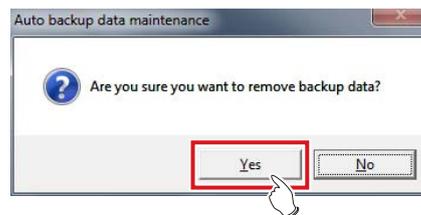


- A message is displayed to confirm whether you are sure to delete the backup data.

HINT

- You can select the drives that have been recognized at the time when starting up the tool.
 - The computer name is that of the device from which backup data is acquired.
-

7 Press [Yes].



- Deletion is performed.

8 When a message is displayed to inform the completion of deletion, press [OK].



- If the deletion of the backup data did not succeed, the message "An error occurred while deleting the backup data. Check the backup data and retry deletion." is displayed. Retry deletion from step 1.
-

9 Press [Close] to close the Maintain DB and images screen.

Chapter 12

Tools When [Adjustment] Is Selected [System] Area

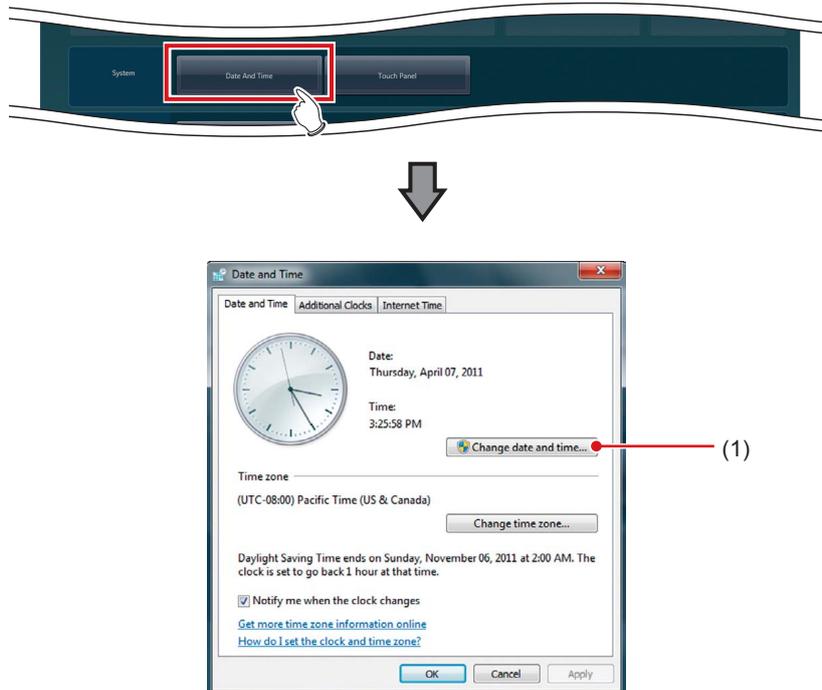
This chapter describes the tools in the [System] area displayed when [Adjustment] is selected.

12.1 • [Date And Time]

This tool is for setting up the date and time.

12.1.1 [Date and Time] screen

When [Date And Time] of the [System] area is pressed, the [Date and Time] screen is displayed.

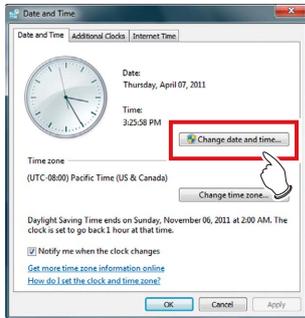


Number	Name	Function
(1)	[Change date and time...]	For setting the date and time of this device.

12.1.2 Date and time setting

The setting method for date and time is as follows.

1 Press [Change date and time...].

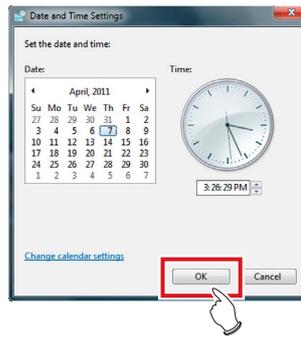


2 Set the date and time.



- Press [▲] and [▼], or directly input numbers for the time.

3 Press [OK].



IMPORTANT

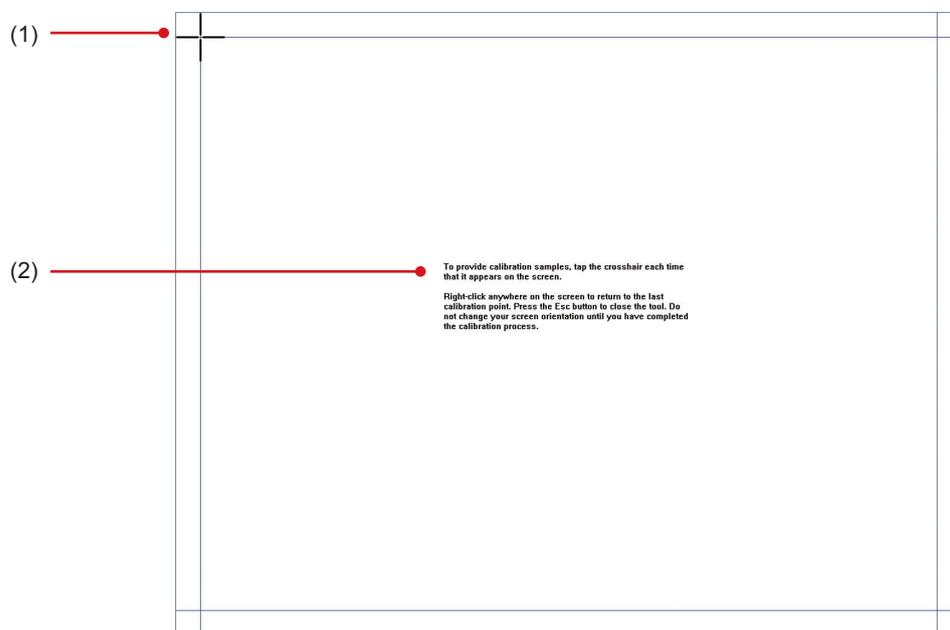
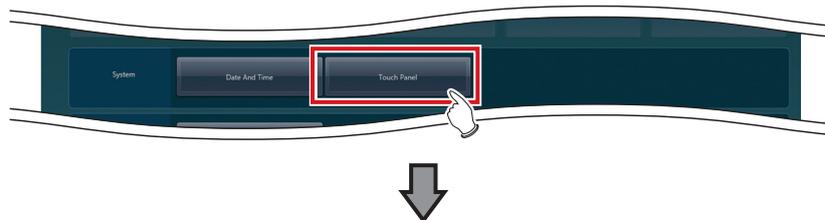
- Do not use [Change time zone].

12.2 • [Touch Panel]

This tool is for adjusting the touch panel.

12.2.1 Touch panel adjustment screen

When [Touch Panel] of the [System] area is pressed, the touch panel adjustment screen is displayed.

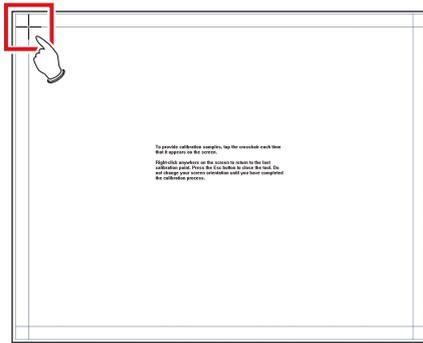


Number	Name	Function
(1)	Cross	Follow the instructions and tap.
(2)	Instructions	Instructions for touch panel adjustment.

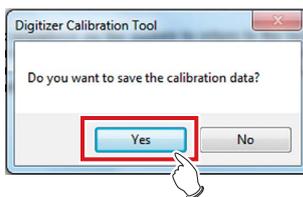
12.2.2 Adjustment of the touch panel

The adjustment method for the touch panel is as follows.

- 1 Follow the on-screen instructions, and tap the cross.



- 2 Press [Yes].



Chapter 13

Tools When [Adjustment] Is Selected [Panel] Area

This chapter describes the tools in the [Panel] area displayed when [Adjustment] is selected.

13.1 • [Calibration]

This tool is for performing calibration of the AeroDR Detector.

IMPORTANT

- It is necessary to perform calibration periodically to compensate for chronological change or change in the exposure environment.
- Fully charge the AeroDR Detector before performing calibration.

HINT

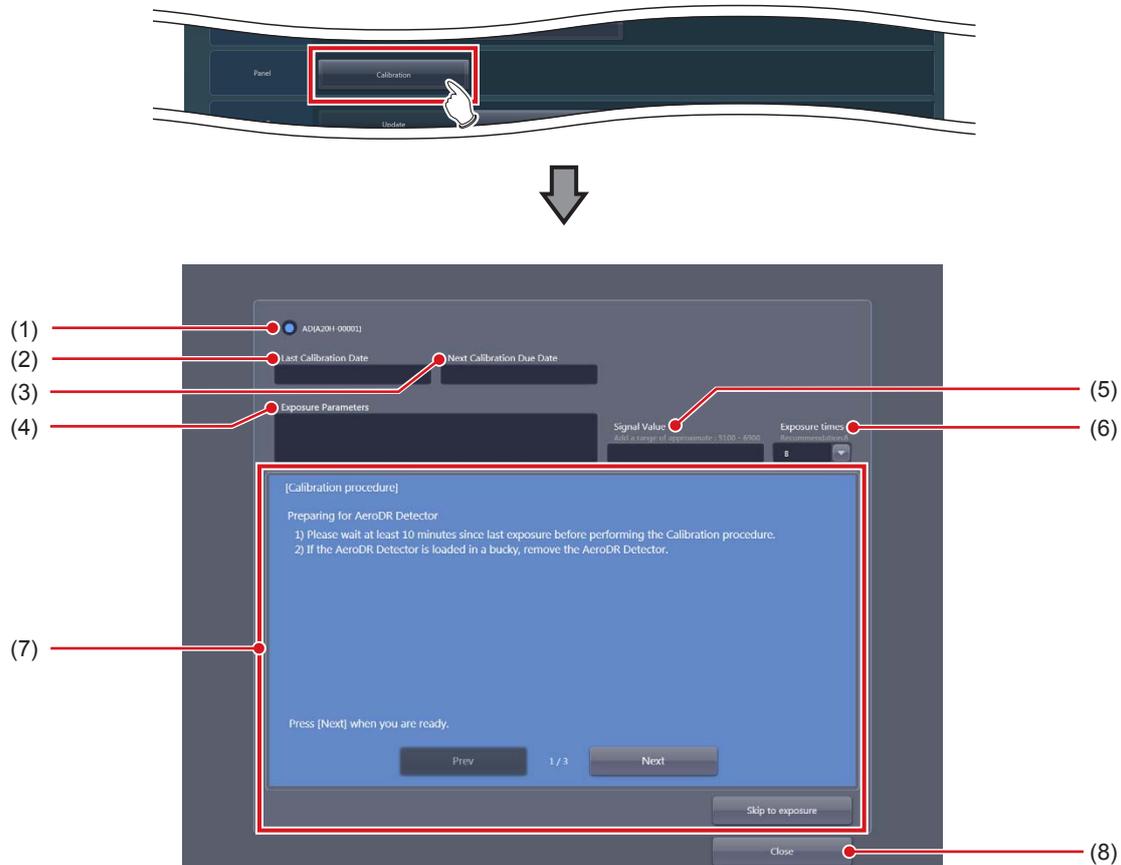
- The messages on the following list are displayed as the expiration date for calibration approaches.

Timing of display	Message
7 days before the calibration interval expires	Calibration of [AeroDR Detector name] will expire in ** more day(s).
3 days, 2 days, 1 day and the current day before the calibration interval expires	Calibration of [AeroDR Detector name] will expire in ** more day(s). Please perform calibration. Do it now? - If choose later: Press the arrow buttons at the bottom of the screen. And Press the calibration button in the toolbar that appears. - Registered all AeroDR panels must be calibrated.
After the calibration interval has expired	Calibration of [AeroDR Detector name] have expired. Please perform calibration. Do it now? - If choose later: Press the arrow buttons at the bottom of the screen. And Press the calibration button in the toolbar that appears. - Registered all AeroDR panels must be calibrated.

*** days" in the messages indicates either number of days described in the "Timing of display" column.

13.1.1 Calibration tool screen

When [Calibration] of the [Panel] area is pressed, the calibration tool screen is displayed.

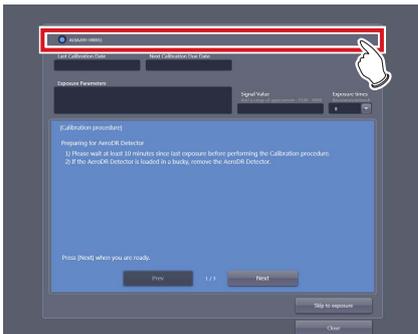


Number	Name	Function
(1)	Panel selection button	The connected AeroDR Detectors are displayed. Select the AeroDR Detector on which to perform calibration. HINT <ul style="list-style-type: none"> The displayed text color indicates the amount of time remaining until the next calibration due date. White: The [Next Calibration Due Date] is 8 or more days away. Yellow: The [Next Calibration Due Date] is between 4 and 7 days away. Red: The [Next Calibration Due Date] is 3 or fewer days away.
(2)	[Last Calibration Date]	The date when the last calibration was carried out is displayed.
(3)	[Next Calibration Due Date]	The date when the next calibration is scheduled to be carried out is displayed. HINT <ul style="list-style-type: none"> Depending on the settings, this may not be displayed.
(4)	[Exposure Parameters]	Enter the X-ray exposure setting.
(5)	[Signal Value]	The signal value is displayed when an exposure is executed.
(6)	[Exposure times]	Select frequency of exposure from 8, 16 and 32. (Default setting: 8)
(7)	Operation explanation area	Explanations about operations are displayed. Pressing the [Prev] button restores the previous explanation screen. Pressing the [Next] button displays the next page of the explanation screen. Pressing the [Skip to exposure] button displays the screen in which an exposure can be executed.
(8)	[Close]	Closes the calibration tool.

13.1.2 Operating the calibration tool

Acquire an unexposed image and multiple exposed images for the calibration.
The following describes the AeroDR Detector calibration procedure.

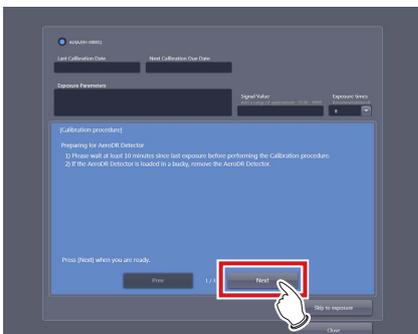
1 Select the AeroDR Detector to be calibrated.



HINT

- AeroDR Detectors displayed with red letters are in need of calibration (they have passed the calibration deadline).

2 Prepare the AeroDR Detector according to the on-screen messages, and press [Next].



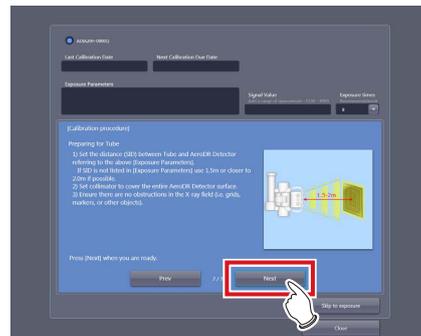
- The following message is displayed on the screen. After finishing preparations according to the messages, press [Next].
Preparing for AeroDR Detector

 - Performing the calibration no less than 10 minutes after making an exposure.
 - If the AeroDR Detector is loaded on the stand, remove the AeroDR Detector.

HINT

- When all of preparations steps 2 to 4 are completed, press [Skip to exposure] to display the Procedure 5 screen.

3 Prepare the X-ray tube according to the on-screen messages, and press [Next].

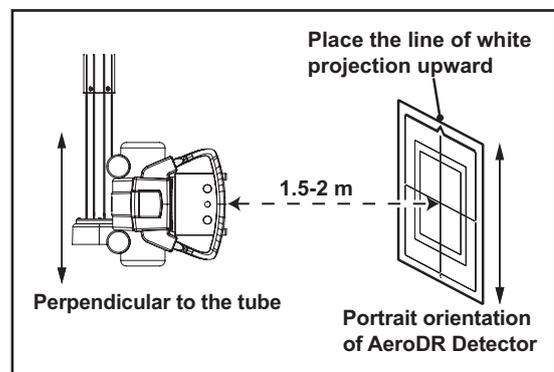


- The following message is displayed on the screen. After finishing preparations according to the messages, press [Next].
Preparing for Tube

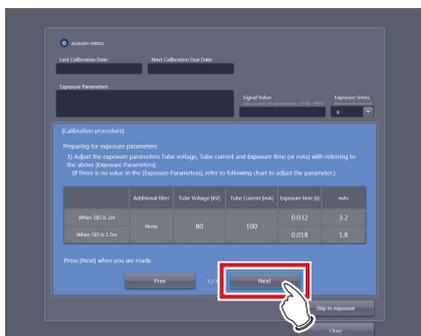
 - Set the distance (SID) between Tube and AeroDR Detector referring to the above [Exposure Parameters].
If SID is not listed in [Exposure Parameters] use 1.5m or closer to 2.0m if possible.
 - Set collimator to cover the entire AeroDR Detector.
 - Ensure that the exposure field covers the entire AeroDR Detector.

IMPORTANT

- Expose after matching the vertical direction of the tube to the vertical direction of the AeroDR Detector. The protruding portion of the white line of the AeroDR Detector goes on top.



4 Prepare the exposure conditions according to the on-screen messages, and press [Next].



- The following message is displayed on the screen. After finishing preparations according to the messages, press [Next].
Preparing for exposure parameters
1) Adjust the exposure parameters Tube voltage, Tube current and Exposure time (or mAs) with referring to the above [Exposure Parameters]
(If there is no value in the [Exposure Parameters], refer to following chart to adjust the parameter.)

Exposure conditions for calibration

AeroDR 1417HQ/AeroDR 1717HQ/AeroDR 1012HQ/
AeroDR 2 1417HQ

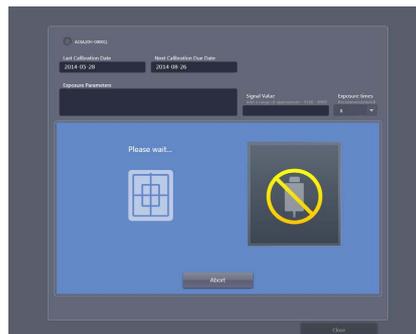
	Additional filter	Tube voltage [kV]	Tube current [mA]	Exposure time [s]	mAs
When SID is 2 m	None	80	100	0.032	3.2
When SID is 1.5 m				0.018	1.8

AeroDR 1417S/AeroDR 2 1417S

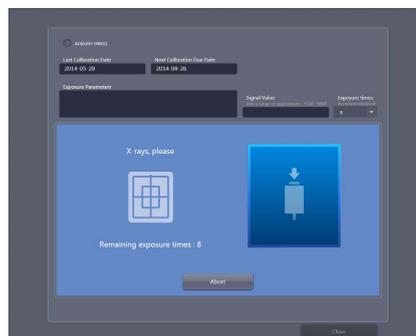
	Additional filter	Tube voltage [kV]	Tube current [mA]	Exposure time [s]	mAs
When SID is 2 m	None	80	100	0.05	5.0
When SID is 1.5 m				0.028	2.8

IMPORTANT

- An additional filter is not used.
 - Appropriate condition is different for respective X-ray devices.
 - When SID is different, change mAs according to the distance inverse square law.
(Example) When SID is 1.8 m, mAs value is $3.2 \times (1.8/2.0)^2 = 2.6$ mAs.
-

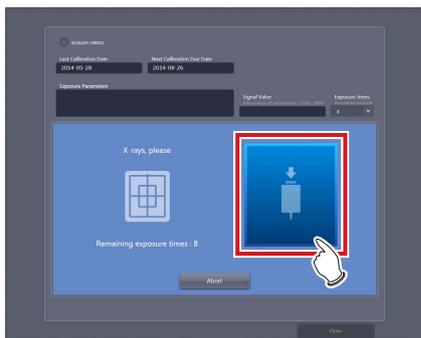


- The message "Please wait..." is displayed.



- When the AeroDR Detector has been prepared, the message "X-rays, please" is displayed.

5 Irradiate X-ray.



- Perform X-ray exposure when the message "X-rays, please" is displayed.
- The message "Remaining exposure times : n" indicating the remaining number of exposures is displayed on the screen. When the exposure setting is appropriate, the following exposure sequentially reduces the remaining number of times by one. After the exposure, the message "Please wait..." is displayed. When the AeroDR Detector has been prepared, the message "X-rays, please" is displayed.
- When the conditions are not met, a warning message is displayed. Try exposure again after checking the exposure settings, looking for obstacles (eg. grid, marker), and confirming the size of the exposure field.

6 Repeat to perform X-ray exposure.

- The calibration is completed when you have repeated the specified number of X-ray exposures.
- Depending on the situation, you may be requested to repeat the exposure more than the specified number of times. Follow the screen message to complete the calibration.
- If the conditions are not ideal or a foreign object such as a grid or marker is exposed, a warning message is displayed. In such a case, repeat the calibration again.

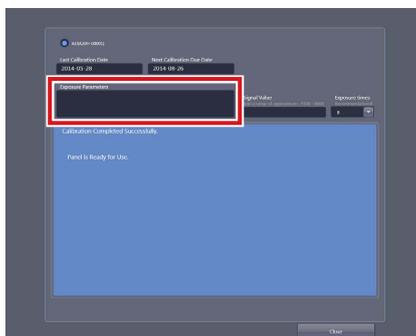
HINT

- The displayed signal value is almost in proportion to the actual amount of X-rays contacting the AeroDR Detector. For example, when the signal value is "8,000", setting the mAs value to 0.75 times (6,000/8,000) can meet the optimal exposure settings.

.....

7 Enter the conditions that are used for the calibration to [Exposure Parameters].

- Enter the tube voltage, tube current, exposure time, exposure distance, and remarks.



- The calibration is completed.

HINT

- After the calibration is completed, you can enter your comments about this calibration in [Exposure Parameters] if necessary.
- Such comments, which will be saved up to the time of the next calibration, may be useful when you carry out the next calibration.

.....

Chapter 14

Tools When [Adjustment] Is Selected [CS-7] Area

This chapter describes the tools in the [CS-7] area displayed when [Adjustment] is selected.

14.1 • [Update]/[Release Notes]

This tool is for updating this device and displaying the version of this device and updated contents.



Name	Function
[Update]	Updates this device. When an update is available the button will become active, and once the update is finished the button will become inactive until a new update is available.
[Release Notes]	You can refer to the version of this device and the history of the version update.

IMPORTANT

- This function can be used only when this device has contracted for remote maintenance.
 - This function is currently being adjusted.
-

Chapter 15

Tools When [Adjustment] Is Selected [LongLen Unit] Area

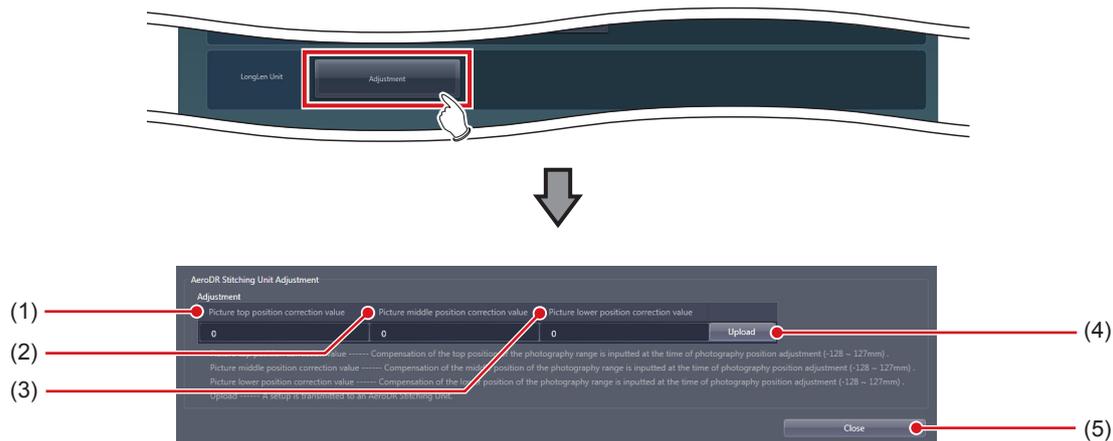
This chapter describes the tools in the [LongLen Unit] area displayed when [Adjustment] is selected.

15.1 • [Adjustment]

This tool is for adjusting the AeroDR Stitching Unit.

15.1.1 AeroDR Stitching Unit adjusting tool screen

When [Adjustment] of the [LongLen Unit] area is pressed, the AeroDR Stitching Unit adjusting tool screen is displayed.



Number	Name	Function
(1)	[Picture top position correction value]	For entering the picture top position correction value.
(2)	[Picture middle position correction value]	For entering the picture center position correction value.
(3)	[Picture lower position correction value]	For entering the picture lower position correction value.
(4)	[Upload]	Uploads the settings onto the AeroDR Stitching Unit.
(5)	[Close]	Closes the screen.

15.1.2 Operation of the AeroDR Stitching Unit adjusting tool

The adjustment method for the AeroDR Stitching Unit is as follows.

● Correcting the exposure position

Measure the gap between the irradiating light range and the shot image and enter this gap as a correction value for the exposure position.

IMPORTANT

- If the gap between the irradiating light range and the shot image is too large, correct the exposure position. In other cases, do not perform the operation.
- There are three correction values for the exposure position you can enter: "Picture top position correction value", "Picture center position correction value" and "Picture lower position correction value".

● Flow chart for correcting exposure position

Measuring the picture top position correction value

Initialize the correction value for the exposure position with this device.



Prepare for measurement using this device.



Prepare for measurement using the AeroDR Stitching System. For further information, see "AeroDR Stitching System Operation Manual".



Measure the gap between the captured image and irradiated light using the AeroDR Stitching System. For further information, see "AeroDR Stitching System Operation Manual".



Measuring the picture center position correction value

Prepare for measurement using this device.



Prepare for measurement using the AeroDR Stitching System. For further information, see "AeroDR Stitching System Operation Manual".



Measure the gap between the captured image and irradiated light using the AeroDR Stitching System. For further information, see "AeroDR Stitching System Operation Manual".



Measuring the picture lower position correction value

Initialize the correction value for the exposure position with this device.



Prepare for measurement using this device.



Prepare for measurement using the AeroDR Stitching System. For further information, see "AeroDR Stitching System Operation Manual".



Measure the gap between the captured image and irradiated light using the AeroDR Stitching System. For further information, see "AeroDR Stitching System Operation Manual".



Setting the correction value

Set the correction value with this device.



Confirming the correction value

Confirm the preset correction value. For further information, see "AeroDR Stitching System Operation Manual".

● **Initializing the correction value for the exposure position**

Before measuring and entering the correction value for the exposure position, initialize the correction value. Perform the following steps in advance.

- Turn on the AeroDR Stitching System.
- Detect the height of the AeroDR Stitching Unit.

1 **Set the next item of [Adjustment].**



When correcting the picture top position correction value / picture middle position correction value

Item	Description
[Picture top position correction value]	0
[Picture middle position correction value]	0
[Picture lower position correction value]	50

When correcting picture lower position correction value

Item	Description
[Picture top position correction value]	-50
[Picture middle position correction value]	0
[Picture lower position correction value]	0

IMPORTANT

- Do not change any setting other than the value above. It may lead to incorrect detection of the irradiation field.

.....

2 **Press [Upload].**



● **Measurement preparation (this device)**

Use the following procedure to prepare the measurement in this device.

1 **Enter an ID in the [Patient ID] column on the patient registration screen and press the [Perform].**



2 **Press [SPECIAL] on the body part selection screen.**



HINT

- If page 1/2 appears, press the selector button to display page 2/2.



3 Select the desired Exam. Tags.

- When measuring the picture top position correction value or picture lower position correction value, select [AP Middle] and then [Ap Lower] in the [Tot.Spine] line.
- When measuring the picture center position correction value, select [Ap Lower] in the [Tot. Spine] line.



4 Press the [Perform] button.



- The exposure screen is displayed.

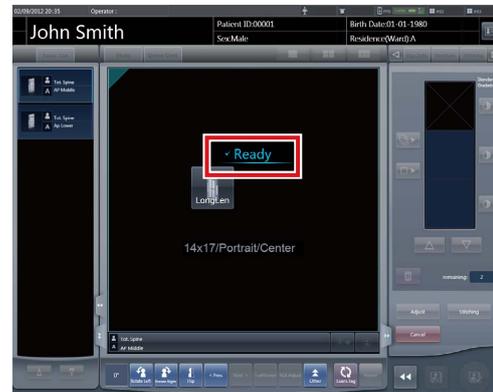
5 Confirm that "Please detect radiation field" appears on the exposure screen.



● Measuring the gap between the exposed image and irradiating light

Take an image and measure the gap between the exposed image and irradiating light.

1 Confirm that "Ready" appears on the exposure screen.



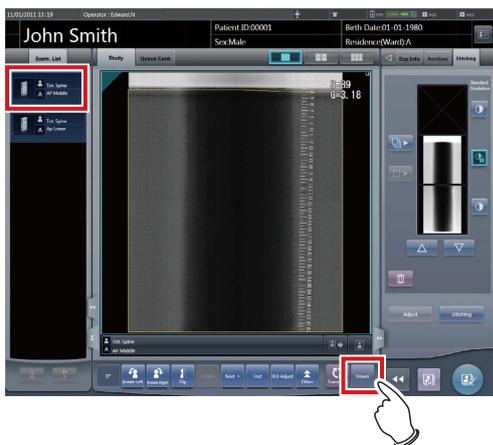
2 Press the exposure switch of the X-ray device. (First image is taken.)

- For measuring the picture center position correction value, go to Step 4.

3 After taking the first image, confirm that "Ready" appears on the exposure screen and press the exposure switch of the X-ray device. (Second image is taken.)

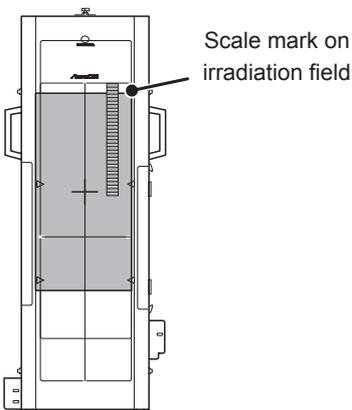


4 Press [AP Middle] on the exposure screen and press the [Viewer] button.



5 Check the upper edge scale mark on the exposed image.

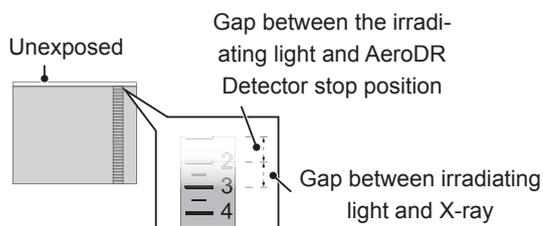
- When measuring the picture top position correction value, compare the scale mark on the irradiation field and that on the exposed image and record the difference as "Picture top position correction value".



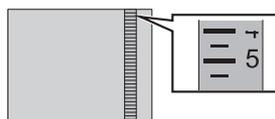
IMPORTANT

- When the X-ray area is narrower than the irradiating light range:

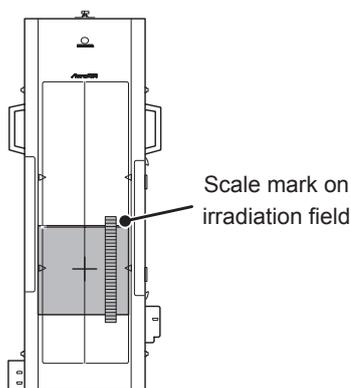
When the image is taken from a scale mark of 13mm, the correction value becomes -7mm because the exposure area of the AeroDR Detector is corrected according to the irradiating light.



- When the setup error is a negative value:
When the image is taken from a scale mark of 40mm, the correction value becomes 20mm because the exposure area of the AeroDR Detector is corrected according to the irradiating light.



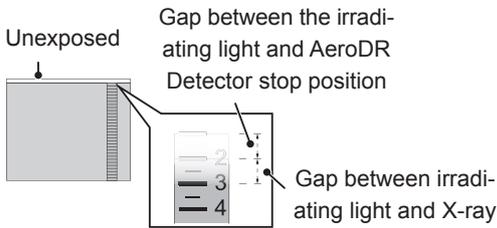
- When measuring the picture center position correction value, compare the scale mark on the irradiation field and that on the exposed image and record the difference as "Picture center position correction value".



IMPORTANT

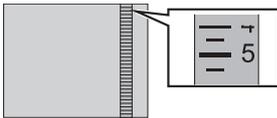
- When the X-ray scale is narrower than the irradiating light:

When the image is taken from a scale mark of 13mm, the correction value becomes -7mm because the exposure area of the AeroDR Detector is corrected according to the irradiating light.

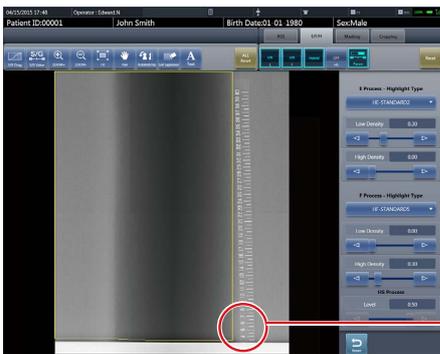


- When the setup error is a negative value:

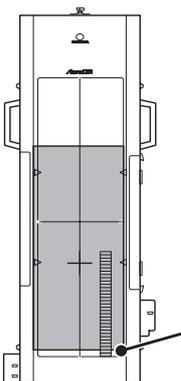
When the image is taken from a scale mark of 40mm, the correction value becomes 20mm because the exposure area of the AeroDR Detector is corrected according to the irradiating light.



- When measuring the picture lower position correction value, compare the scale mark on the irradiation field and that on the exposed image and record the difference as "Picture lower position correction value".



Scale mark on exposed image

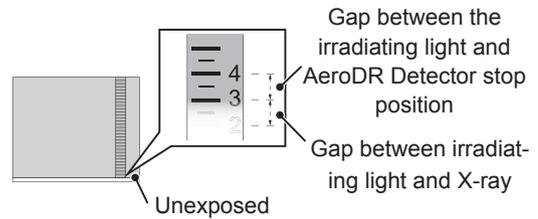


Scale mark on irradiation field

IMPORTANT

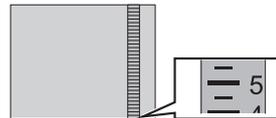
- When the X-ray scale is narrower than the irradiating light:

When the image is taken from a scale mark of 13mm, the correction value becomes -7mm because the exposure area of the AeroDR Detector is corrected according to the irradiating light.



- When the setup error is a negative value:

When the image is taken from a scale mark of 39mm, the correction value becomes -19mm because the exposure area of the AeroDR Detector is corrected according to the irradiating light.



6 Press [F5].



● **Setting the correction values**

Set the measured gaps as correction values.

- 1 Set the picture top position correction value, picture center position correction value and picture lower position correction value measured on the AeroDR Stitching Unit Adjustment screen of the CS-7.**



- 2 Press [Upload].**



- The settings are uploaded onto the AeroDR Stitching Unit.

Chapter 16

Tools When [Adjustment] Is Selected [REGIUS Σ] Area

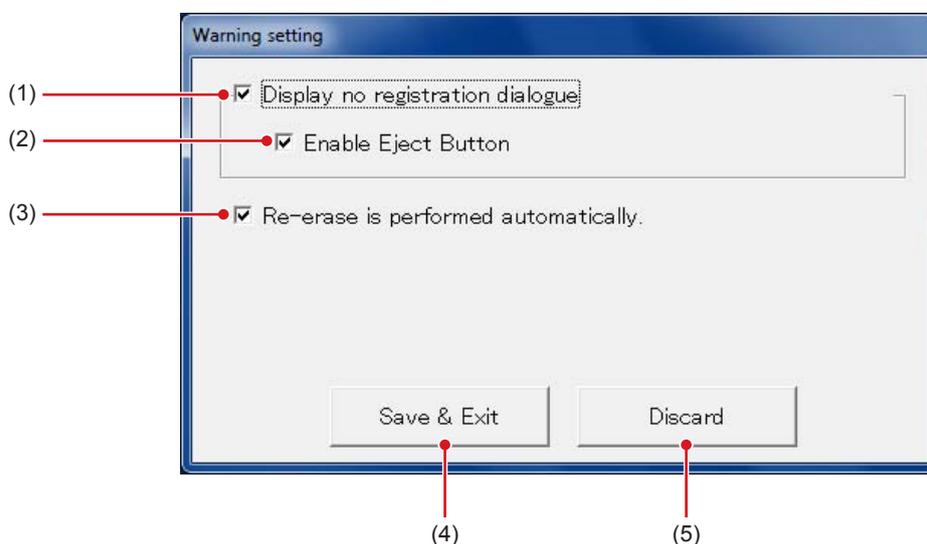
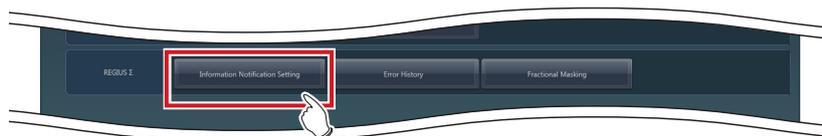
This chapter describes the tools displayed in [REGIUS Σ] area when you select [Adjustment].

16.1 • [Information Notification Setting]

Set the notification procedure of the communication control information.

16.1.1 Communication control information notification setting screen

Press [Information Notification Setting] in [REGIUS Σ] area to display the communication control information notification setting screen.



Number	Name	Function
(1)	[Display no registration dialogue]	Select it to display the "without examination registration" dialog when you have loaded the cassette to REGIUS SIGMA/SIGMA2. The default setting is [ON].
(2)	[Enable Eject Button]	Select it to display the eject button to enable the cassette to be taken out in the dialog when displaying the "without examination registration" dialog. (When the eject button is displayed, you can take out the cassette without using the lever on the top door.) The default setting is [ON].
(3)	[Re-erase is performed automatically.]	Select it to turn on the second-time deletion processing of images when a single processing operation is not sufficient for the images exposed with high-dose X-rays. When [ON] is selected, the second deletion is automatically executed. When [OFF] is selected, a message is displayed. Select to either perform the second deletion or eject the cassette. The default setting is [ON].
(4)	[Save & Exit]	Saves and closes the communication control information notification setting screen.
(5)	[Discard]	Closes the communication control information notification setting screen and saves the setting.

IMPORTANT

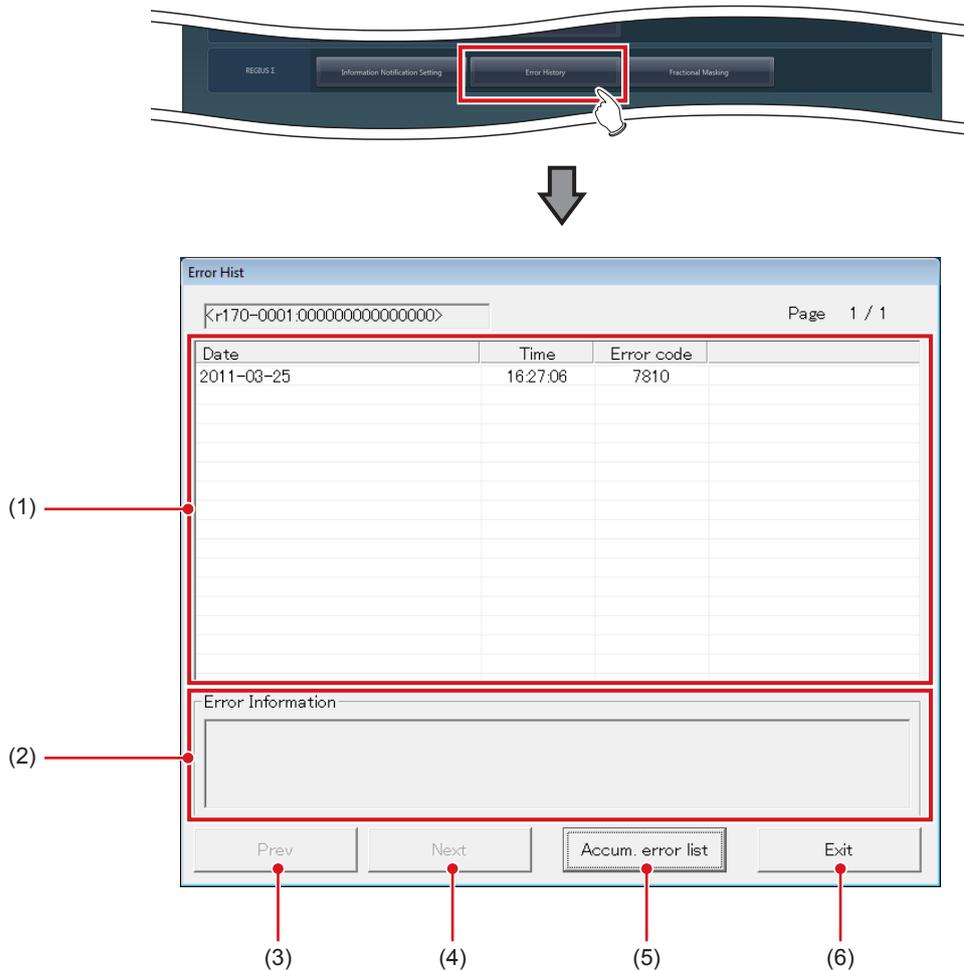
- Restart the device after changing [Warning setting] screen settings. The modified settings will not take effect until the device is restarted.

16.2 • [Error History]

Display the error history.

16.2.1 Error history display screen

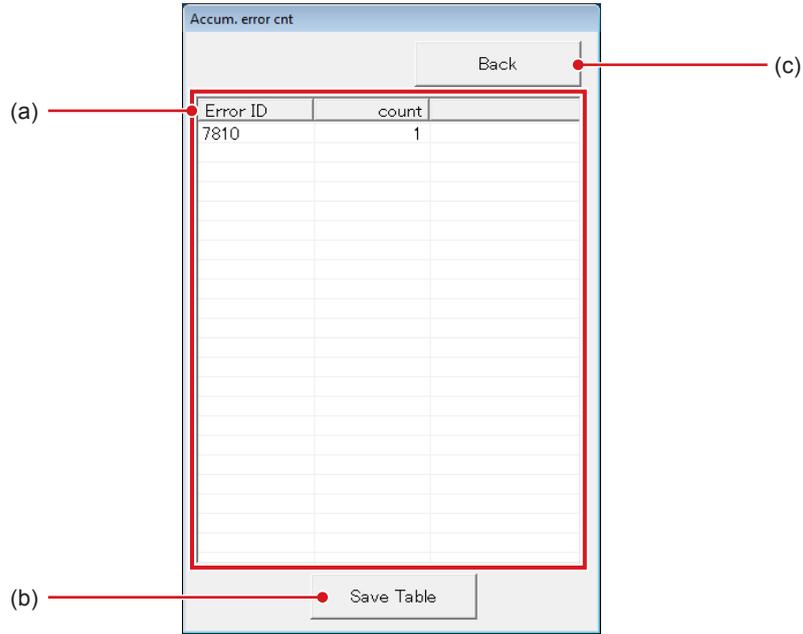
Press [Error History] in [REGIUS Σ] area to display the error history display screen.



Number	Name	Function
(1)	Error list	Displays the error history in descending order of the time of occurrence.
(2)	[Error Information]	Displays information of the errors selected in the error history list display field.
(3)	[Prev]	They are displayed when the error history cannot be fully displayed in a single page. Use either one to switch the page.
(4)	[Next]	
(5)	[Accum. error list]	Displays the number of incidents per error code. Select it to display the cumulative error list screen.
(6)	[Exit]	Closes the error history screen.

 **HINT**

- If you press [Accum. error list], the following dialog box is displayed.



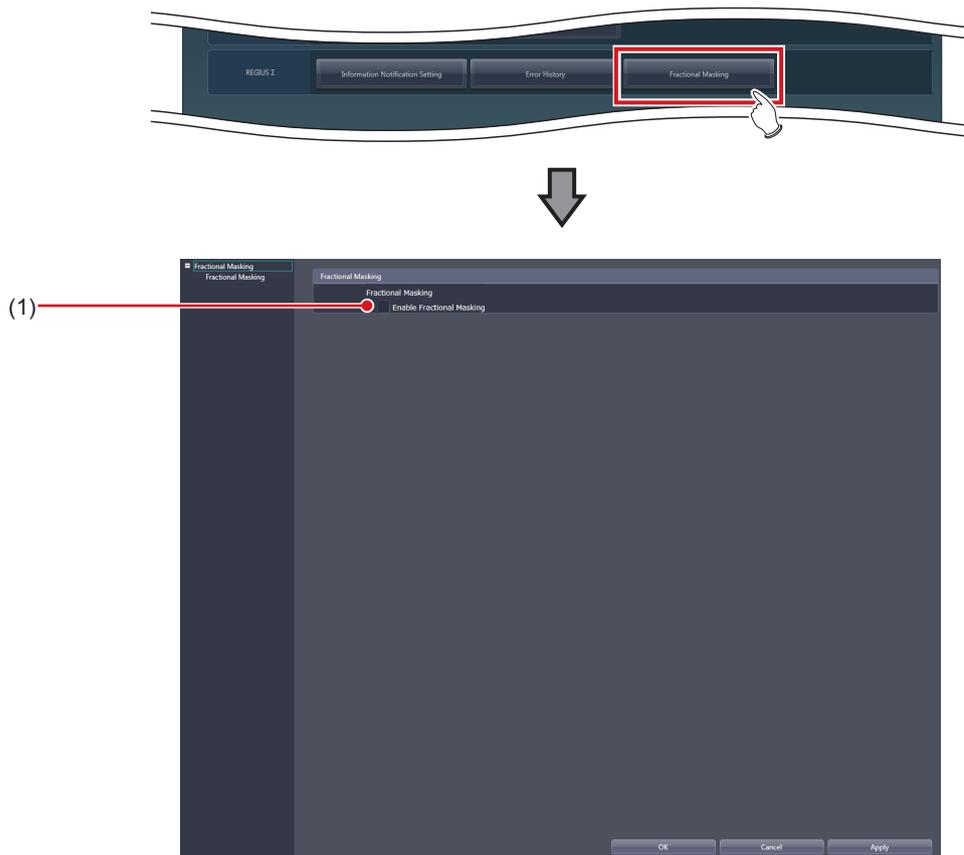
Number	Name	Function
(a)	Error list	Displays the error history in descending order of the time of occurrence.
(b)	[Save Table]	Outputs the cumulative error information to a text format (.txt) file.
(c)	[Back]	Closes the cumulative error information screen.

16.3 • [Fractional Masking]

When the masking area includes the end part of the image targeted for reading (along the entire contour, etc.), this screen allows fine adjustment to be made by moving the masking position to the inside of the image.

16.3.1 Fractional masking tool screen

If you press [Fractional Masking] in [REGIUS Σ] area, the fractional masking tool screen is displayed.



Number	Name	Function
(1)	[Enable Fractional Masking]	Select this when using the fractional masking function. The default setting is [OFF].

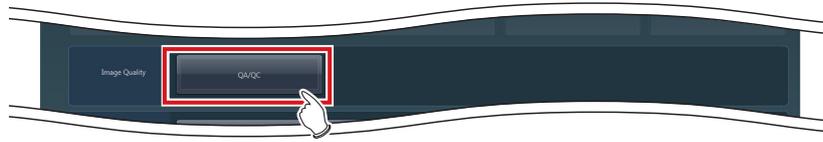
Chapter 17

Tools When [Analysis] Is Selected [Image Quality] Area

This chapter describes the tools in the [Image Quality] area displayed when [Analysis] is selected.

17.1 • [QA/QC]

This tool is for evaluating and managing image quality.



Name	Function
[QA/QC]	Starts the dedicated application for evaluating and managing image quality.

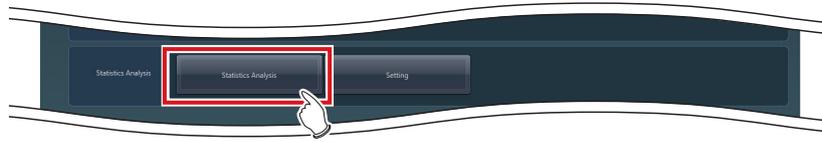
Chapter 18

Tools When [Analysis] Is Selected [Statistics Analysis] Area

This chapter describes the tools in the [Statistics Analysis] area displayed when [Analysis] is selected.

18.1 • [Statistics Analysis]

This tool is for aggregating and taking the statistics of exposure history.



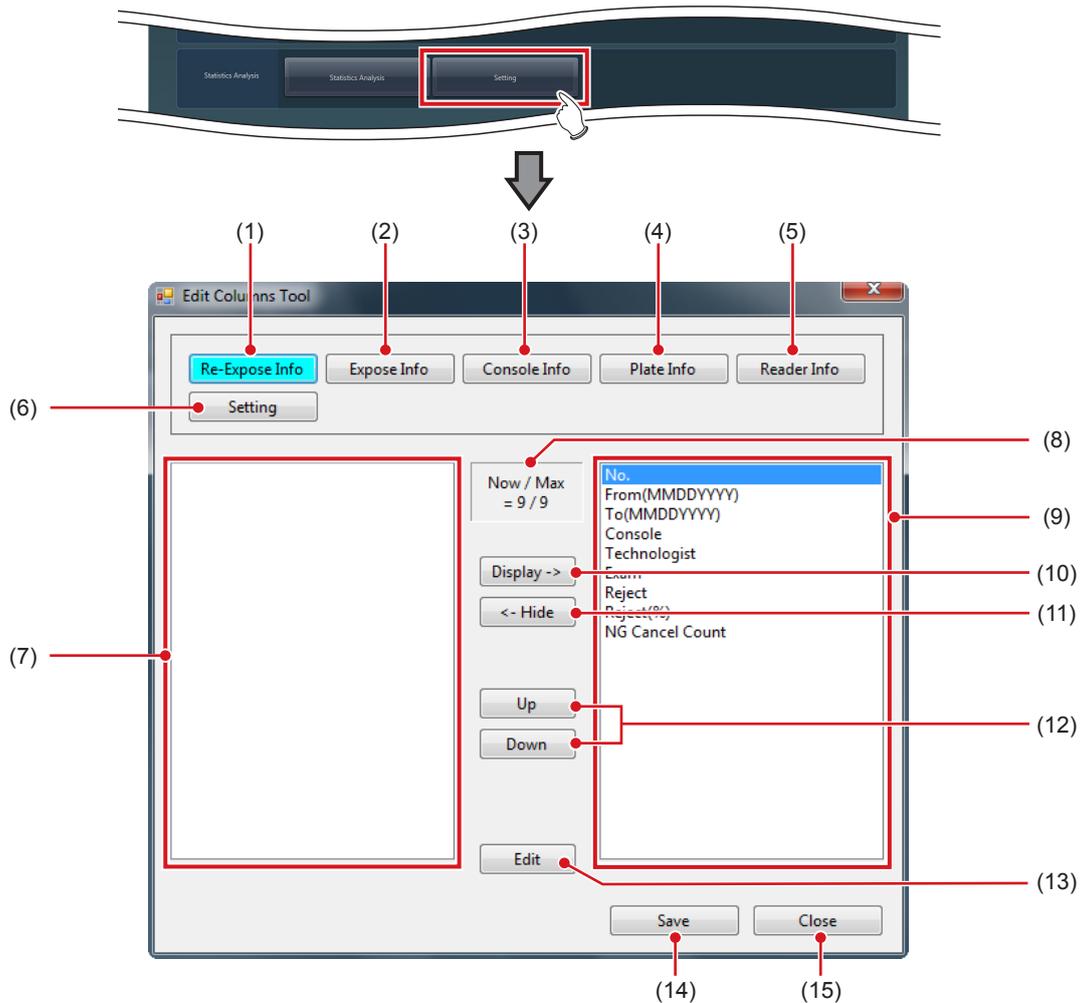
Name	Function
[Statistics Analysis]	Starts the dedicated application for aggregating and taking the statistics of exposure history.

18.2 • [Setting]

Set the dedicated application for aggregating and taking the statistics of exposure history.

18.2.1 Edit Columns Tool screen

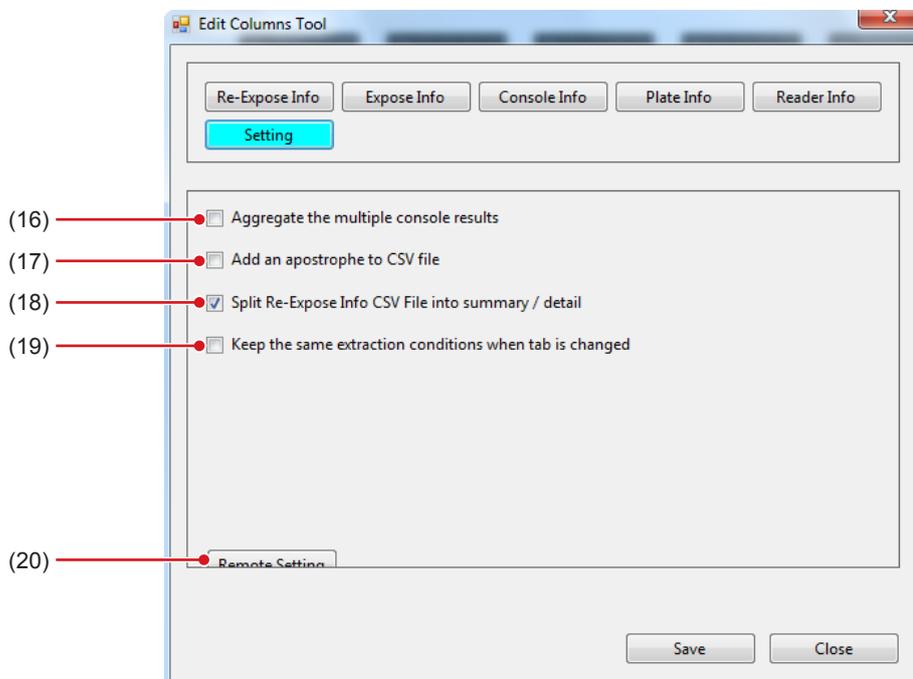
Pressing [Setting] in the [Statistics Analysis] area displays the Edit Columns Tool screen.



Number	Name	Functions
(1)	[Re-Expose Info]	Displays a screen for editing re-exposure information.
(2)	[Expose Info]	Displays a screen for editing exposure information.
(3)	[Console Info]	Displays a screen for editing console information.
(4)	[Plate Info]	Displays a screen for editing plate information.
(5)	[Reader Info]	Displays a screen for editing reader information.
(6)	[Setting]	Displays a screen for aggregating console, adding apostrophes, dividing a re-exposure information file, and sharing search conditions.
(7)	Hidden item display area	This is an area used to display items that are to be hidden in the columns.
(8)	[Now / Max]	Displays the number of items that are displayed and the maximum number of items you can see.
(9)	Display item display area	This is an area used to display items that are to be displayed in the columns.
(10)	[Display ->]	Displays the selected items.
(11)	[<- Hide]	Hides the selected items.

18.2 [Setting]

Number	Name	Functions
(12)	[Up]/[Down]	Sets the order in which the selected items are listed.
(13)	[Edit]	Edits the selected items. Select this to display the Edit Column Name screen.
(14)	[Save]	Saves the settings.
(15)	[Close]	Closes the screen.



Number	Name	Functions
(16)	[Aggregate the multiple console results]	Select this to display acquired statistics regardless of the consoles.
(17)	[Add an apostrophe to CSV file]	Select this to add an apostrophe (') to the beginning of each item during CSV file output.
(18)	[Split Re-expose Info CSV File into summary / detail]	Select this to split a CSV file containing re-exposure information into two files: one containing re-exposure information, and the other containing details of rejected images.
(19)	[Keep the same extraction conditions when tab is changed]	Select this to reflect the search conditions for the acquired information modified with the Statistics Tool to the search conditions for other acquired information. This item is restored to its initial state when the Statistics Tool is restarted.
(20)	[Remote Setting]	Press this to select this device to aggregate and take the statistics of exposure history. Press to display the Edit Remote Setting screen.

 **HINT**

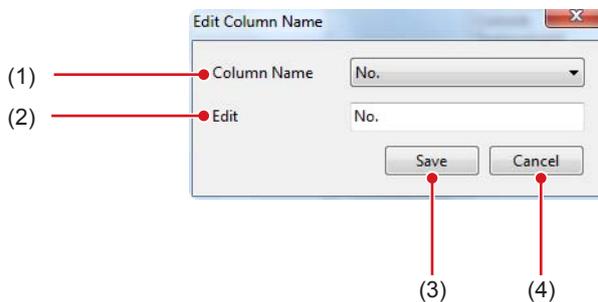
- [Aggregate the multiple console results] is enabled for the statistics information that is acquired by pressing [Re-Expose Info], [Plate Info], or [Reader Info] on the Statistics Analysis Tool screen.
- If you select [Aggregate the multiple console results], [Console] on the Statistics Analysis Tool screen is hidden.

● **Edit Column Name screen**

Screen displayed when [Edit] is pressed on the Edit Columns Tool screen.

The screen is also displayed when an item is double-clicked.

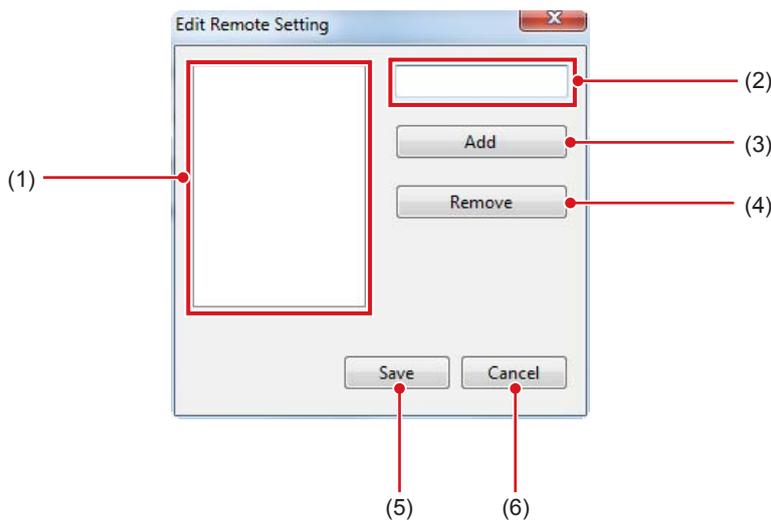
The following is a description using the screen when [Re-Expose Info] is selected as an example.



Number	Name	Function
(1)	[Column Name]	For selecting the item to be edited.
(2)	[Edit]	For inputting the item name.
(3)	[Save]	Saves the settings.
(4)	[Cancel]	Closes the screen.

● **Edit Remote Setting screen**

Screen displayed when [Setting] is selected and [Remote Setting] is pressed on the Edit Columns Tool screen.



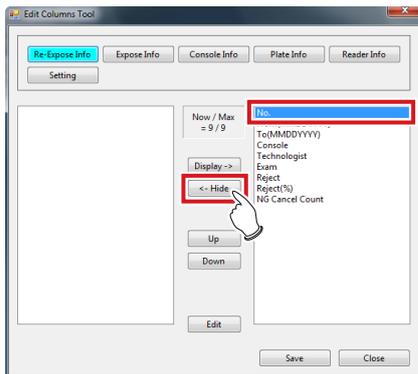
Number	Name	Function
(1)	IP address display area	Displays IP address of this device to aggregate and take the statistics of exposure history.
(2)	IP address input area	Area for inputting IP address of this device to aggregate and take the statistics of exposure history.
(3)	[Add]	Adds IP address input in the IP address input area to the IP address display area.
(4)	[Remove]	Deletes IP address selected in the IP address display area.
(5)	[Save]	Saves the settings.
(6)	[Cancel]	Closes the screen.

18.2.2 Edit Columns Tool operation

The column editing method is as follows.
The following is a description using the screen when [Re-Expose Info] is selected as an example.

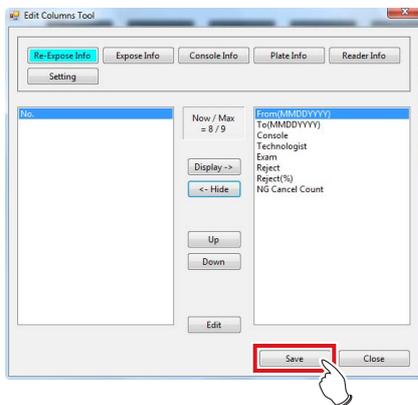
● To hide an item in the column

1 Select the item to be hidden and press [←-Hide].



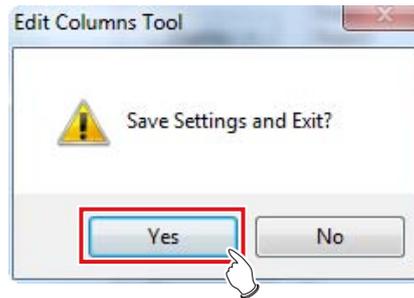
- The item is then added.

2 Press [Save].

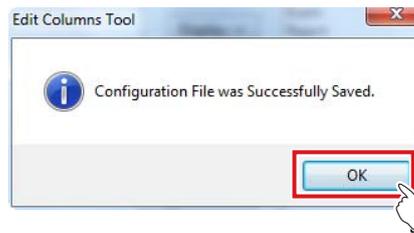


- A confirmation screen is displayed.

3 Press [Yes].



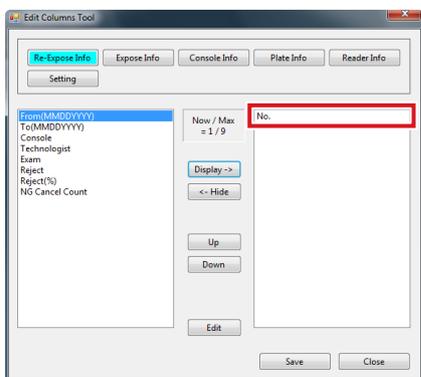
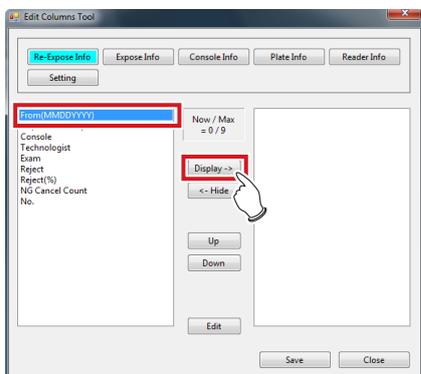
4 Press [OK].



- The setting is saved.

● To show an item in the column

1 Select the item to be displayed and press [Display->].



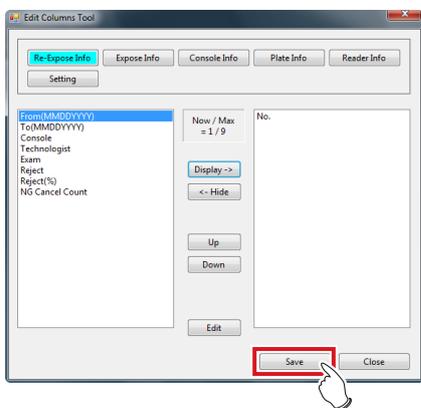
- The item is added.

HINT

- You can set the order in which the items are displayed in columns using [Up] or [Down].

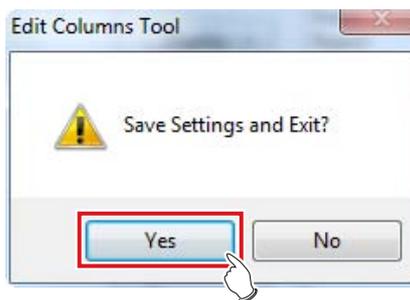
.....

2 Press [Save].

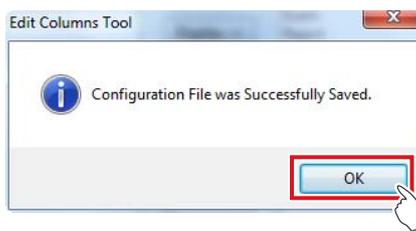


- A confirmation screen is displayed.

3 Press [Yes].



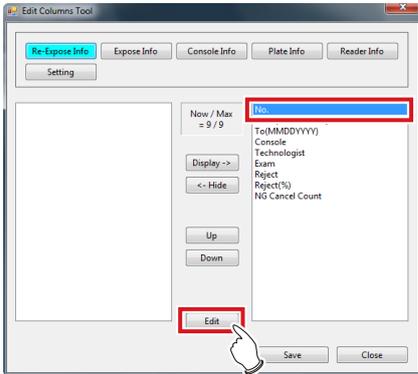
4 Press [OK].



- The setting is saved.

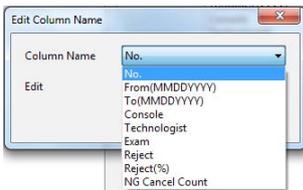
● Item name editing

1 Select the item and press [Edit].

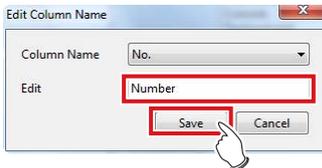


- The Edit Column Name screen is displayed.

2 Select the item to be edited from [Column Name].



3 Input a new name in [Edit] and press [Save].



- A confirmation screen is displayed.

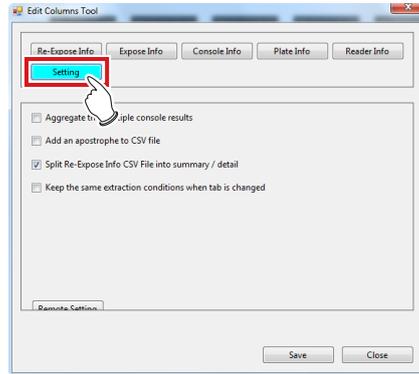
4 Press [Yes].



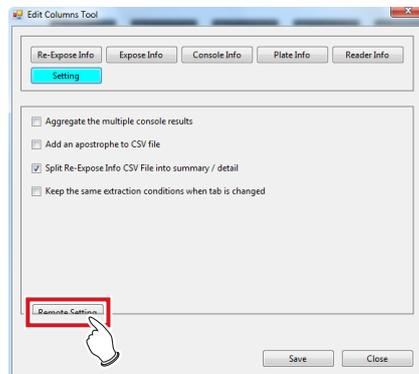
- The setting is then saved and the display returns to the Edit Column Name screen.

● To select this device

1 Press [Setting].

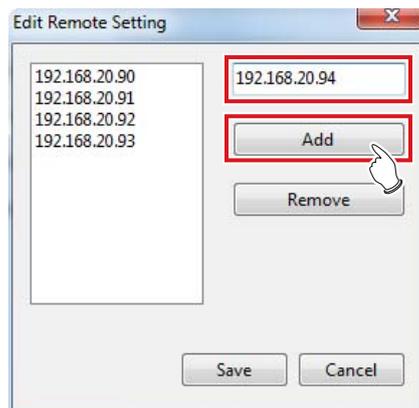


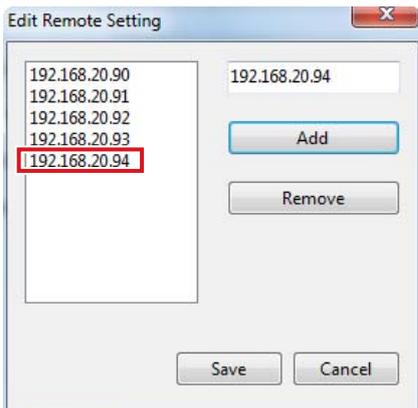
2 Press [Remote Setting].



- The Edit Remote Setting screen is displayed.

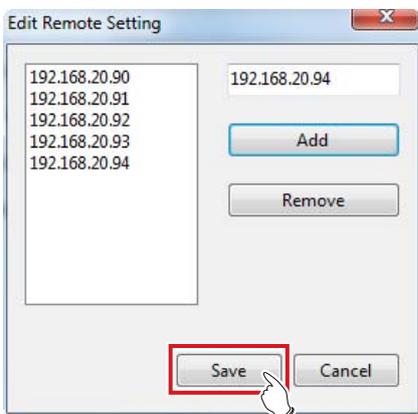
3 Input the IP address of this device to be selected and press [Add].





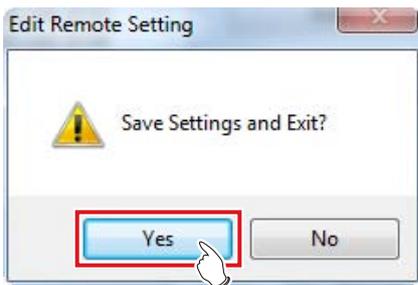
- The IP address is added.

4 Press [Save].

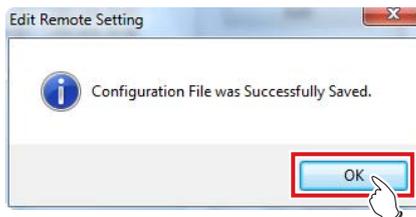


- A confirmation screen is displayed.

5 Press [Yes].



6 Press [OK].



- The setting is saved and the display returns to the Edit Columns Tool screen.

HINT
• When deselecting this device, select the IP address and press [Remove] and [Save] in that order.
.....

Chapter 19

Tools When [Analysis] Is Selected [Quality Management] Area

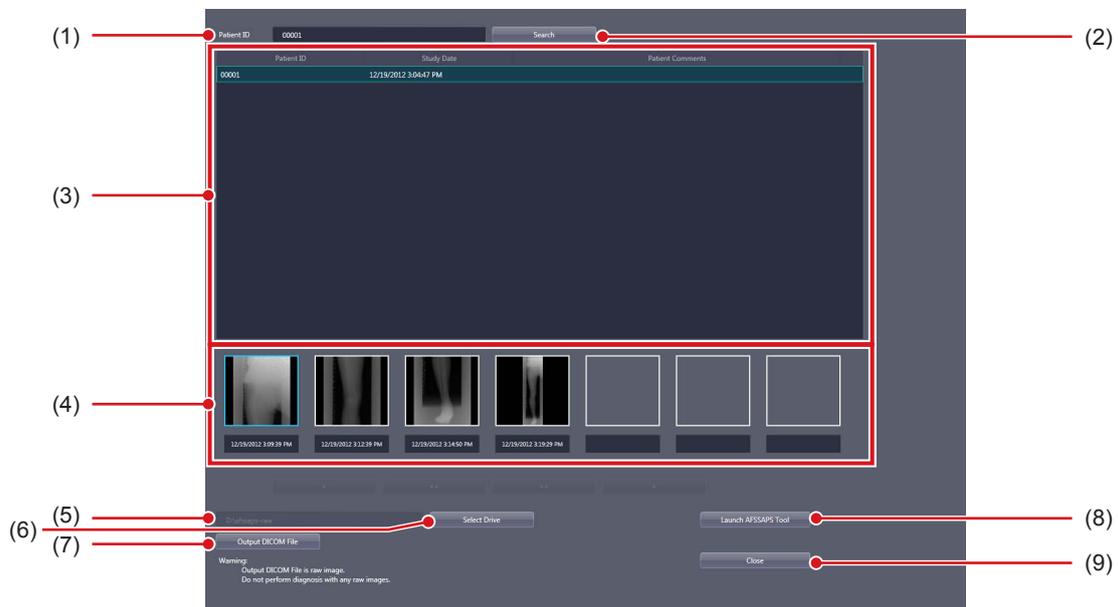
This chapter describes the tools in the [Quality Management] area displayed when [Analysis] is selected.

19.1 • [Raw Image Output]

This tool is for outputting unprocessed raw images to media.

19.1.1 Raw image output screen

Press [Raw Image Output] in [Quality Management] area to display the raw image output screen.



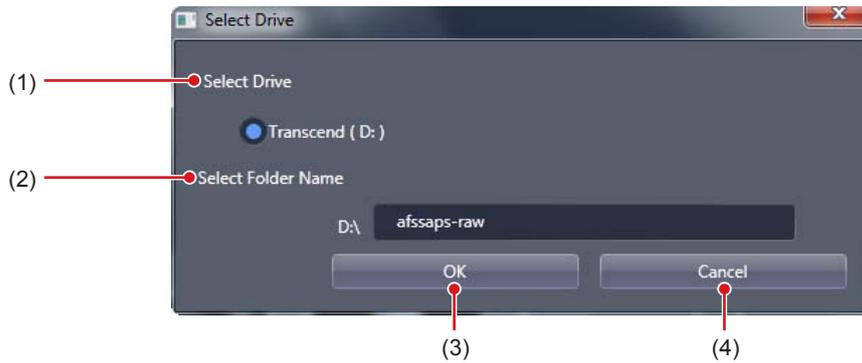
Number	Name	Function
(1)	[Patient ID]	Enter the patient ID to be searched.
(2)	[Search]	Select this to display the study list.
(3)	Study List	Select the study to be conducted on the output image.
(4)	Image List	Select the image you want to output.
(5)	Destination Setting	Displays the output destination.
(6)	[Select Drive]	Select this to display the output destination setting dialog.
(7)	[Output DICOM File]	Select this to output unprocessed raw images.
(8)	[Launch AFSSAPS Tool]	Starts the AFSSAPS tool.
(9)	[Close]	Pressing this ends the raw image output screen.

IMPORTANT

- DICOM file that is output through the raw image output contains unprocessed images. Do not use unprocessed images for the study.

● Output destination setting dialog

This dialog box is displayed when you press [Select Drive] on the raw image output screen.



Number	Name	Function
(1)	[Select Drive]	Select the backup drive.
(2)	[Select Folder Name]	Set the output folder.
(3)	[OK]	Press this to save the settings and return the display to the raw image output screen.
(4)	[Cancel]	Pressing this returns the display to the raw image output screen without saving the settings.

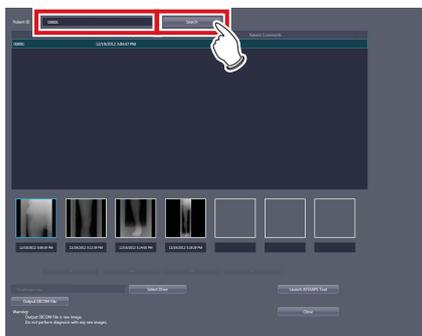
IMPORTANT

- Optical discs and internal hard disks are not displayed in [Select Drive]. Only external memory, such as USB memory and external hard disks, is displayed.

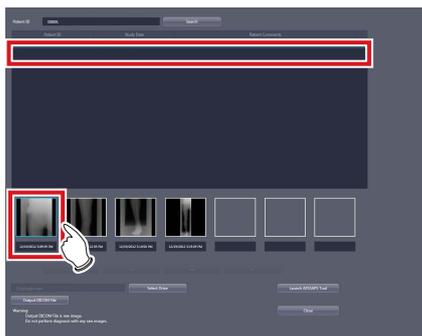
19.1.2 Operating the raw image output screen

The following describes the procedure to generate output of unprocessed raw images.

1 Enter the patient ID and press [Search].



2 Select the study and image to be output in this order.

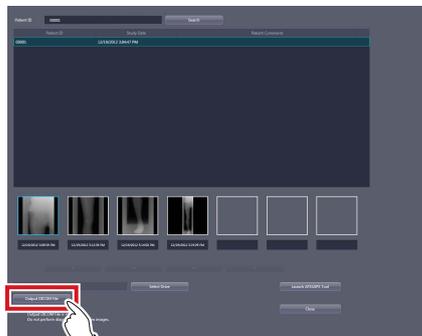


IMPORTANT

- You can output only one image at a time.

.....

3 Check the output destination and press [Output DICOM File].



- The raw image is output.

HINT

- When changing the output destination, press [Select Drive].
- The following is the name of the raw image file output to external memory.
 - Patient ID_Internal Order Number .dcm
- If a file with the same name exists, it is overwritten with the new file.
- When you want to deliver the output raw image to host, press [Launch AFSSAPS Tool].
- For the AFSSAPS tool, refer to "19.2 [AFSSAPS Tool]".

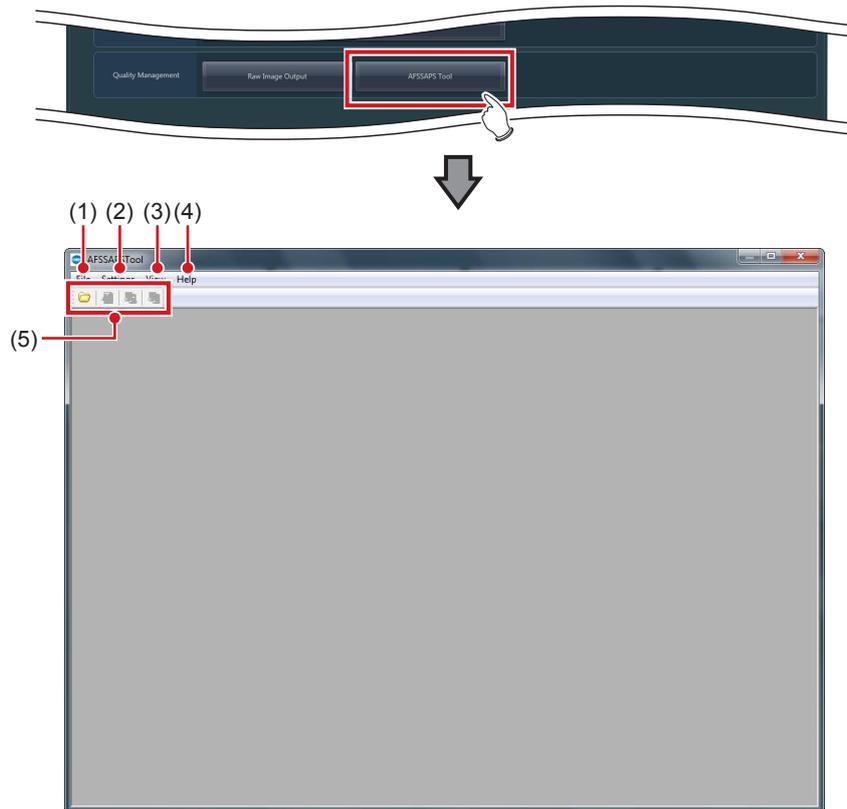
.....

19.2 • [AFSSAPS Tool]

Outputs raw images to the host. It also outputs the test pattern in DICOM file format to the host and the printer.

19.2.1 [AFSSAPSTool] screen

If you press [AFSSAPS Tool] in the [Quality Management] area, the [AFSSAPSTool] screen is displayed.



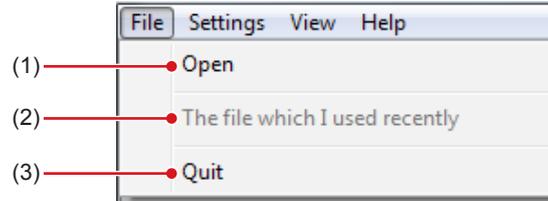
Number	Name	Function
(1)	[File]	Reads the file.
(2)	[Settings]	Sets the host output and printer output.
(3)	[View]	Displays the file list.
(4)	[Help]	Displays the AFSSAPS tool version.
(5)	Tool bar area	[Open]: Opens the file. [Attribute Information]: Displays the file list. [Storage]: Generates output to the host. [Print]: Generates output to the printer.



HINT

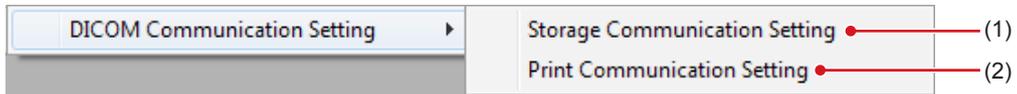
- You can also display the [AFSSAPSTool] screen by pressing [Launch AFSSAPS Tool] on the raw image output screen.

[File] menu



Number	Name	Function
(1)	[Open]	Opens the DICOM image file.
(2)	[The file which I used recently]	Opens the last used file.
(3)	[Quit]	Ends the AFSSAPS tool.

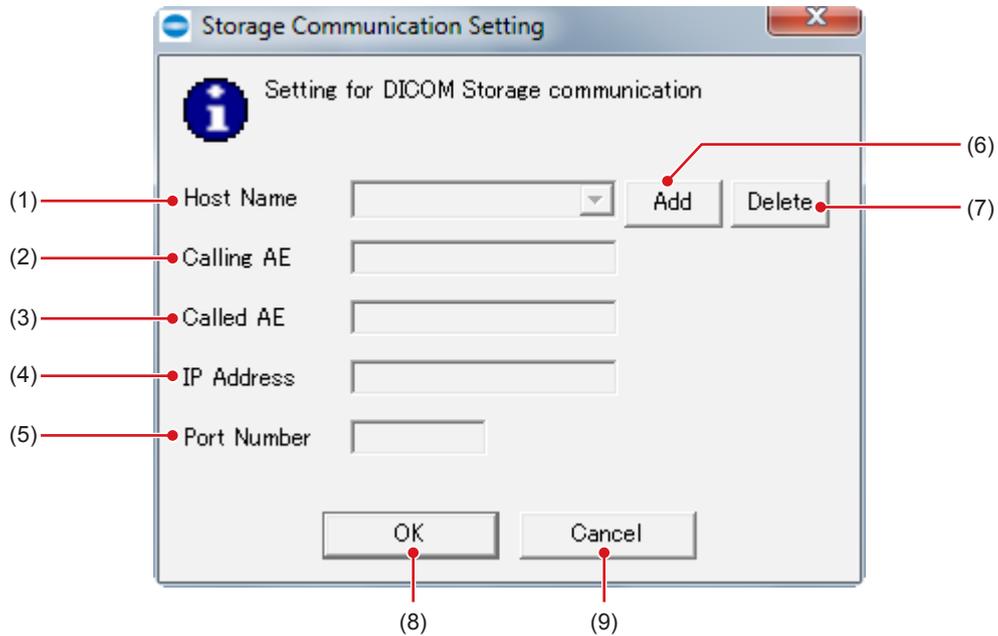
[Settings] menu



Number	Name	Function
(1)	[Storage Communication Setting]	Displays the [Storage Communication Setting] screen.
(2)	[Print Communication Setting]	Displays the [Print Communication Setting] screen.

● [Storage Communication Setting] screen

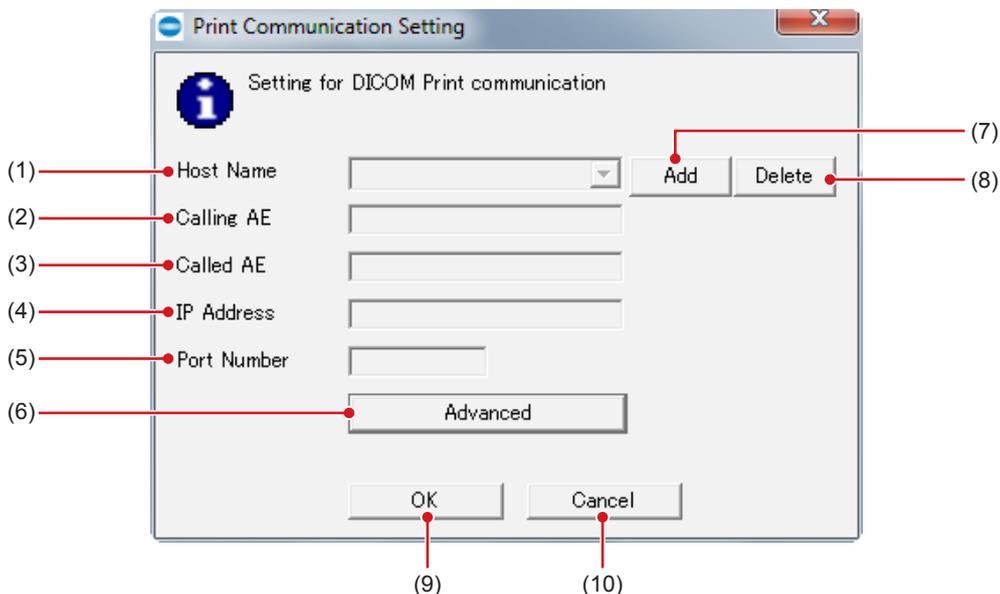
This screen is displayed when you select [Storage Communication Setting] from the [Settings] menu on the [AFSSAPS Tool] screen.



Number	Name	Function
(1)	[Host Name]	Select the output destination of Storage.
(2)	[Calling AE]	Enter the AE title of this device.
(3)	[Called AE]	Enter the AE title of the currently selected output destination of Storage.
(4)	[IP Address]	Enter the IP address of the currently selected output destination of Storage.
(5)	[Port Number]	Enter the port number of the currently selected output destination of Storage.
(6)	[Add]	Adds an output destination of Storage.
(7)	[Delete]	Deletes a currently selected output destination of Storage.
(8)	[OK]	Closes the dialog after saving the changes.
(9)	[Cancel]	Closes the dialog without saving the changes.

● **[Print Communication Setting] screen**

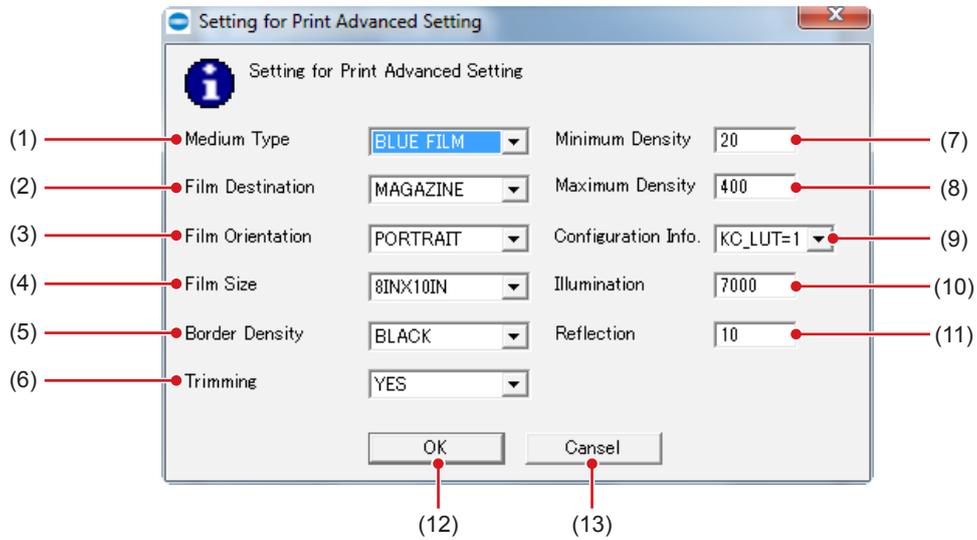
This screen is displayed when you select [Print Communication Setting] from the [Settings] menu on the [AFSSAPS Tool] screen.



Number	Name	Function
(1)	[Host Name]	Select the output destination of Print.
(2)	[Calling AE]	Enter the AE title of this device.
(3)	[Called AE]	Enter the AE title of the currently selected output destination of Print.
(4)	[IP Address]	Enter the IP address of the currently selected output destination of Print.
(5)	[Port Number]	Enter the port number of the currently selected output destination of Print.
(6)	[Advanced]	Displays the [Setting for Print Advanced Setting] screen.
(7)	[Add]	Adds an output destination of Print.
(8)	[Delete]	Deletes a currently selected output destination of Print.
(9)	[OK]	Closes the dialog after saving the changes.
(10)	[Cancel]	Closes the dialog without saving the changes.

● [Setting for Print Advanced Setting] screen

This screen is displayed when you press [Advanced] on the [Print Communication Setting] screen.



Number	Name	Function
(1)	[Medium Type]	Select the film type.
(2)	[Film Destination]	Select the output destination of the film.
(3)	[Film Orientation]	Select the film direction.
(4)	[Film Size]	Select the film size.
(5)	[Border Density]	Select the border density.
(6)	[Trimming]	Select whether trimming is conducted or not.
(7)	[Minimum Density]	Select the minimum density of the film.
(8)	[Maximum Density]	Select the maximum density of the film.
(9)	[Configuration Info.]	Select the printer configuration information.
(10)	[Illumination]	Select brightness of the light box.
(11)	[Reflection]	Selects the reflected surrounding light.
(12)	[OK]	Closes the dialog after saving the detailed setup.
(13)	[Cancel]	Closes the dialog without saving the changes.

19.2.2 Operating the [AFSSAPSTool] screen

The following describes the procedure to generate output of raw images to the host.

● Output of raw images to the host.

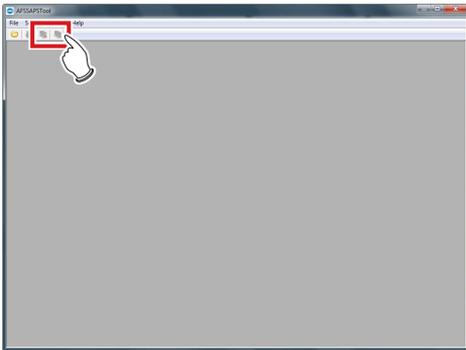
1 Open the raw image file.

- Raw images are displayed.

 **HINT**

- When you output the test pattern, specify the folder containing the designated file.
-

2 Press [Storage] or [Print] in the tool bar area.



3 Check the output destination and press [OK].

Chapter 20

Tools When [Analysis] Is Selected [Test] Area

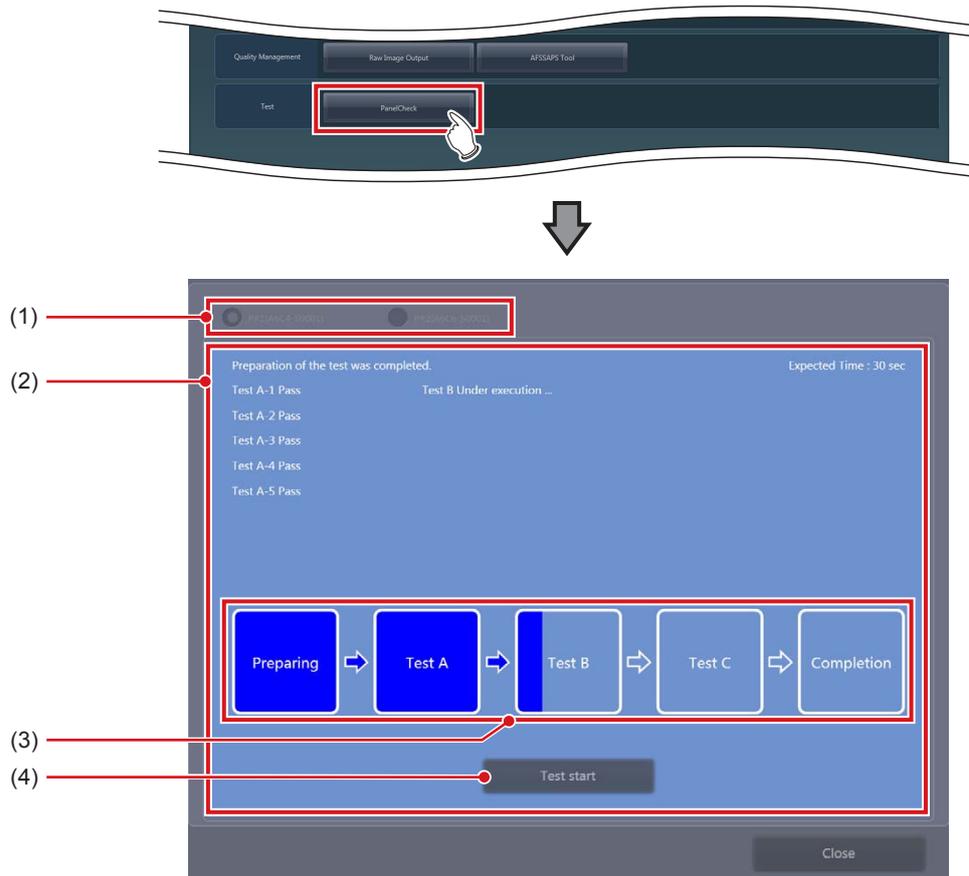
This chapter describes the tools in the [Test] area displayed when [Analysis] is selected.

20.1 • [PanelCheck]

This tool is for performing the AeroDR Detector test.

20.1.1 Panel check tool screen

Pressing [PanelCheck] in the [Test] area displays the panel check tool screen.



Number	Name	Function
(1)	AeroDR Detector display	Select the AeroDR Detector assigned to this device.
(2)	Message display area	Displays the status and test time of the AeroDR Detector.
(3)	Test status indicator icon	Indicates the status of the test process. The blue bar in the icon extends as the test progresses. If the test fails, the icon is displayed in red.
(4)	[Test start]	Starts testing.

IMPORTANT

- Fully charge the AeroDR Detector before testing the AeroDR Detector.
- If untransferred images remain in the AeroDR Detector, acquire those images before starting the test. The untransferred images in the AeroDR Detector will be deleted when the test starts.
- Do not test the AeroDR Detector while it is connected to the following devices.
 - AeroDR I/F Cable2 of the AeroDR Portable RF Unit2
 - AeroDR I/F Cable2 of the AeroDR Battery Charging Unit
 - AeroDR Portable UF Detector Charger Kit

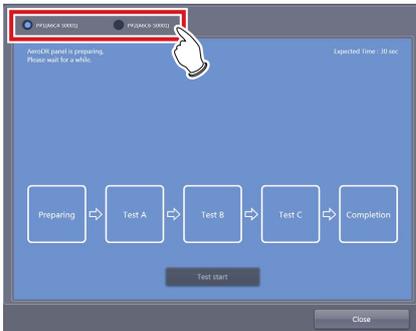
**HINT**

- When performing the test through a wireless connection, the test may last longer than the displayed estimated time period depending on the communication status.
- If an error occurs during the test preparation and the display is transferred to the list screen, the "[AeroDR Detector name] requires refresh operation to be used for next study." message may be displayed. If this message is displayed, perform the operation under "Deletion of untransferred images in the AeroDR Detector" described in the "CS-7 Operation Manual".

20.1.2 Operating the panel check tool screen

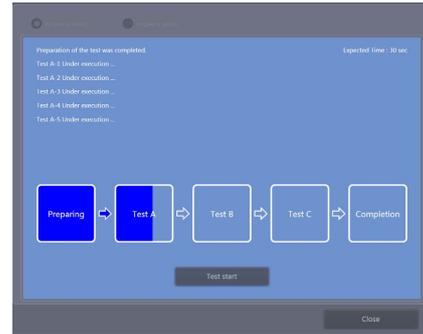
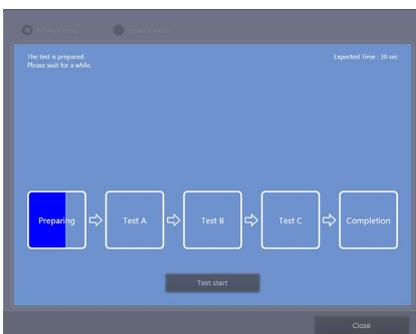
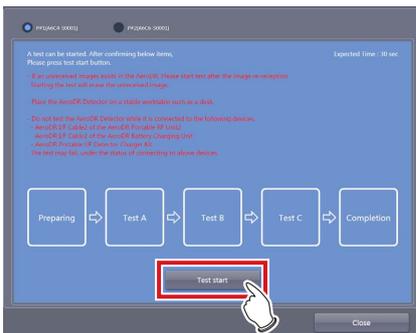
The following describes how to operate the panel check tool screen.

1 Select the AeroDR Detector to be tested.

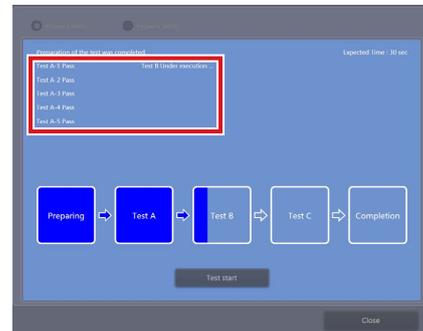


- The status of the AeroDR Detector is displayed in the message display area.

2 When the AeroDR Detector becomes ready for the test, press [Test start].

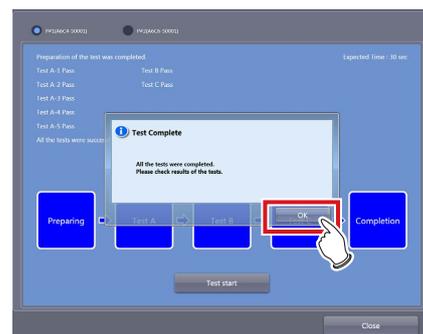


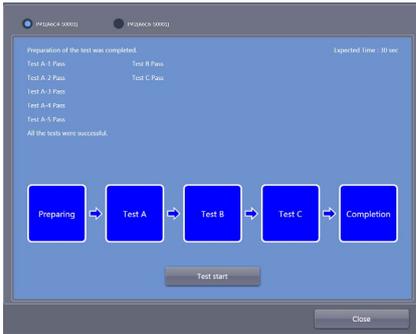
- When the tool becomes ready to execute test, testing starts.
- The dark blue bar in the icon extends as the test progresses. If the test fails, the icon is displayed in red.



- The result and progress of the test are displayed in the message display area.
- When all the test processes are completed, a confirmation screen is displayed.

3 Press [OK].





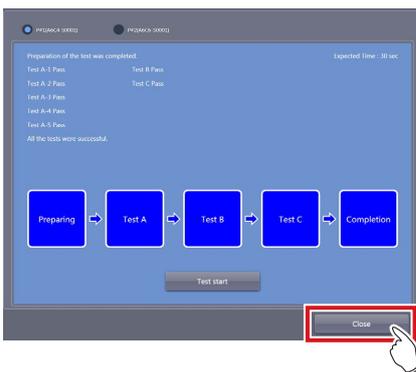
- The test results are displayed in the message display area.

HINT

- If the test fails, the icon and message are displayed in red, and a corrective action is displayed in the message display area. Carry out the corrective action that is displayed.



4 Press [Close] to close the panel check tool screen.



Chapter 21

Tools When [AeroRemote] Is Selected [Image Quality] Area

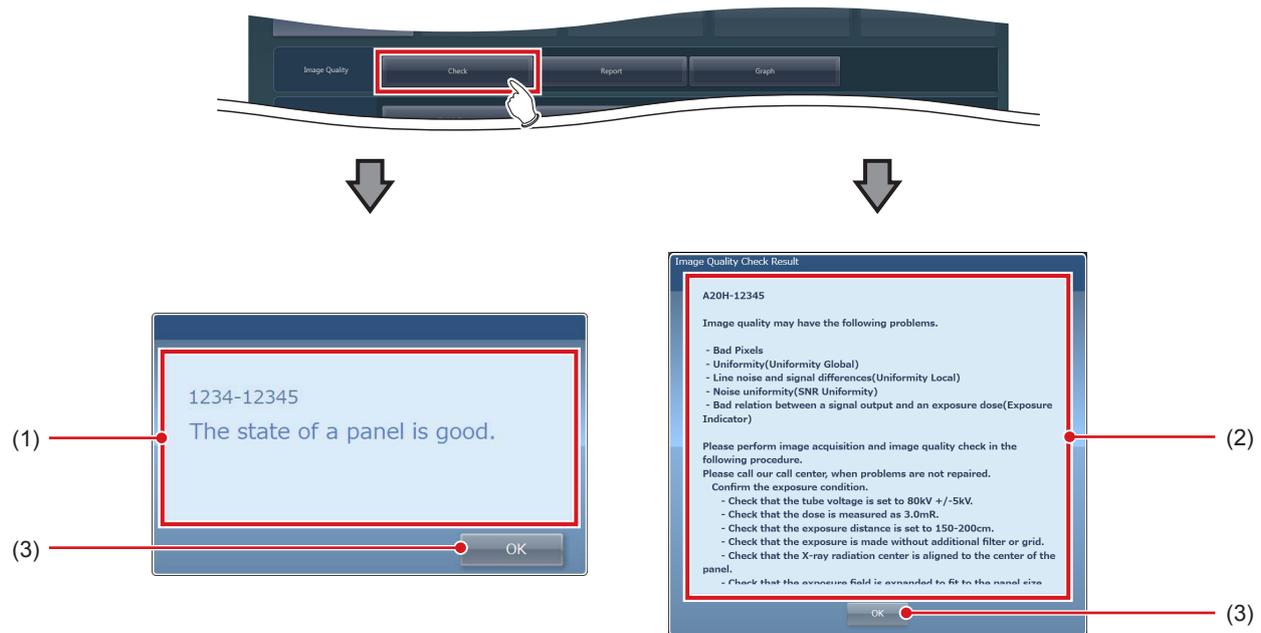
This chapter describes the tools in the [Image Quality] area displayed when [AeroRemote] is selected.

21.1 • [Check]

This tool is for checking the image quality of AeroRemote.

21.1.1 Image quality check result screen

Pressing [Check] in the [Image Quality] area performs the check of image quality of AeroRemote and displays the image quality check result screen.



Number	Name	Function
(1)	Message display area	Displays the image quality check result.
(2)	Message display area	Displays problems and corrective actions if there are potential problems with the image quality. Carry out the corrective action that is displayed.
(3)	[OK]	Closes the screen.



HINT

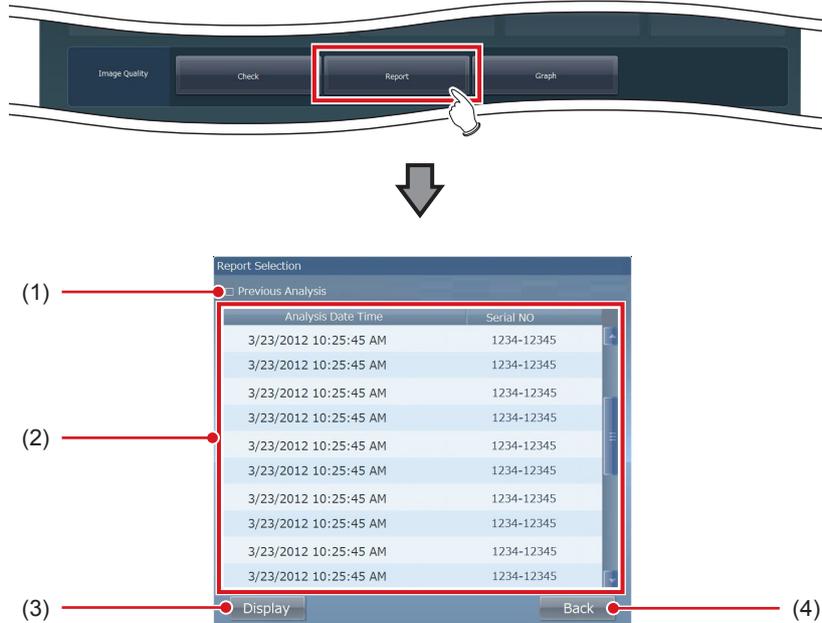
- When the analysis processing screen is on the display, pressing [Cancel] interrupts the processing and displays the previous screen.
- Performing 1 shot exposure of a Flat Field 3mR Image that is necessary for the image quality check in advance is required. Start the examination, and perform Flat Field 3mR exposure with the AeroDR Detector that will be used to execute the image quality check. After exposure, press [QA/QC] on the body part selection screen, select [Image Quality Check] in [AeroRemote], and perform exposure.
- The exposure conditions of Flat Field 3mR are as follows.
 - Tube Voltage: 80kV
 - Tube Current: 200mA
 - Exposure Time: 4.3mS (150cm), 4.9mS (160cm), 5.5mS (170cm), 6.0mS (180cm), 6.8mS (190cm), 7.5mS (200cm)
 - Exposure Distance: 150cm to 200cm
 - Dose: 3.0mR
 - Other conditions: Without filter and grid
- If exposures with multiple detectors have been performed, the image quality check result screens are displayed sequentially.

21.2 • [Report]

This tool is for displaying the image quality report selection screen.

21.2.1 Image quality report selection screen

Pressing [Report] in the [Image Quality] area displays the image quality report selection screen.



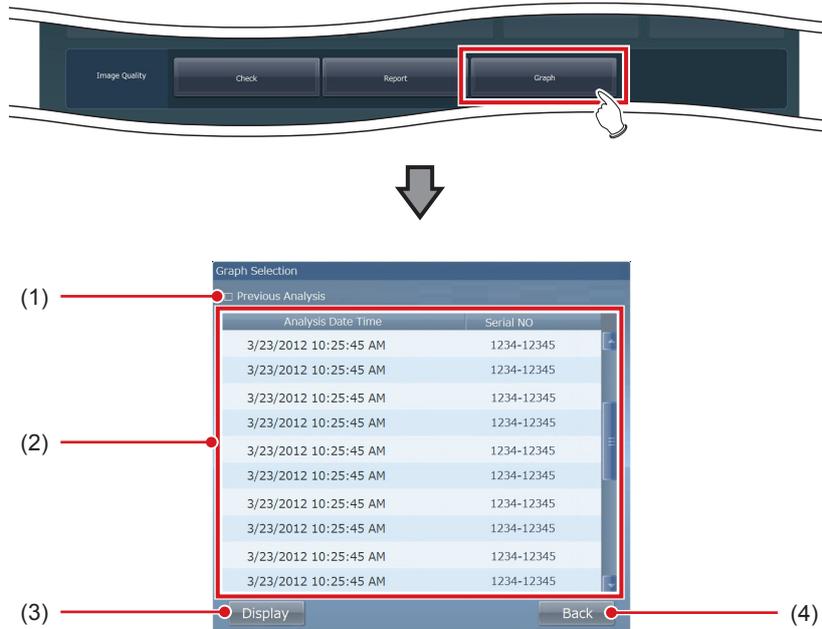
Number	Name	Function
(1)	[Previous Analysis]	Check to select image quality reports for AeroRemote image checks performed more than 30 days ago.
(2)	List display area	Displays the image quality report list.
(3)	[Display]	Displays the image quality report screen.
(4)	[Back]	Closes the screen.

21.3 • [Graph]

This tool is for displaying the image quality timeline graph selection screen.

21.3.1 Image quality timeline graph selection screen

Pressing [Graph] in the [Image Quality] area displays the image quality timeline graph selection screen.



Number	Name	Function
(1)	[Previous Analysis]	Check to select image quality timeline graphs for AeroRemote image checks performed more than 30 days ago.
(2)	List display area	Displays the image quality timeline graph list.
(3)	[Display]	Displays the image quality timeline graph screen.
(4)	[Back]	Closes the screen.

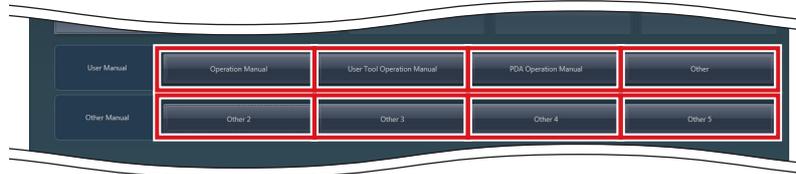
Chapter 22

Tools When [Manual] Is Selected [User Manual]/ [Other Manual] Area

This chapter describes the tools in [User Manual]/
[Other Manual] area displayed when [Manual] is selected.

22.1 • [Operation Manual], [User Tool Operation Manual], [PDA Operation Manual], [Other] to [Other 5]

When individual buttons in [User Manual] and [Other Manual] area are pressed, relevant manuals are displayed.



Name	Functions
[Operation Manual]	Displays "CS-7 Operation Manual".
[User Tool Operation Manual]	Displays "CS-7 User Tool Operation Manual".
[PDA Operation Manual]	Displays "PDA Operation Manual".
[Other]	Displays other manuals.
[Other 2]	
[Other 3]	
[Other 4]	
[Other 5]	



IMPORTANT

- Displays as many buttons as there are registered manuals. Displays up to eight buttons.



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