



Operation Manual

Elui - INNOVISION 2.1

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| Revision History |

Version 2.1

Version	Date	Detail History
0	Mar 16, 2012(First Edition)	First Edition
1	Mar 28, 2012(Amendment)	Add Local Worklist
2	Jun 29, 2012(Amendment)	Add Stitch
3	Nov 21, 2013(Amendment)	Add Vehicle Exam Change ImageParameter
4	Dec 30, 2014(Amendment)	Change manual design and add function Add AP On/Off Change ImageParameter
5	Jul 13, 2015(Amendment)	Change manual design and add function Add Import Excel Add interlocking DAP
6	Sep 1, 2016(Amendment)	UI design change and image engine(FUMA, XIPL) interworking
7	Jan 26, 2017(Modify)	Change CE manual cover
8	Aug 1, 2017(Amendment)	Add interlocking
9	Feb 13, 2018(Amendment)	Add Auto Voice
10	Aug 10, 2018(Amendment)	Add Vehicle Exam Add DicomPrint Preivew
11	Nov 8, 2019(Amendment)	Change Touch Mode Add Auto Login Interlocking LBDT
12	Jun 8, 2020(Amendment)	Change UI design
13	Dec 21, 2020(Amendment)	Add Barcode-parsing Add Stitch Grid
14	Feb 23, 2021(Amendment)	Add Multi Language Add Stats Add Dicom Preview Add Online support Change StitchApp UI
15	Jan 11, 2022(Amendment)	Add Retake time content Add the number of stitch Add Worklist patient name Korean language support Add DSLB – AutoSeparation Add DSLB Partial Mode Setting by position Add Grid Improvement Control Layout UI Add Stitch Range Add Simple Exam Add GridLinSuppression

| Revision History |

Version 2.1

Version	Date	Detail History
16	Mar 15, 2022(Amendment)	Add Vuno CXR AI
17	Apr 15, 2022(Amendment)	Add Wireless Detector Battery Level and Charging indication Add Next Study Add Stitch 4P, 5P
18	June 30, 2022(Amendment)	Improved Cross In ROI Add Copy And Process
19	Aug 03, 2022(Amendment)	Typo Correction
20	Sep 26, 2022(Amendment)	Add QR Parsing
21	Nov 16, 2022(Amendment)	Add PACS All Send For Vehicle Exam Add Flip/Rotate to DSLB 1717 Add ROI Rotate
22	Feb 06, 2023(Amendment)	Add Web Access Function Add Portrait Mode Addition correction of Web Access Function
23	June 30, 2023(Amendment)	Add Target E.I / D.I Add DSLBL Separation Add Select One Study
24	Sep 11, 2023(Amendment)	Add Dicom Tag Add Stitch Add Marker Add 4747 Detector AEC Add Resize Exam Status Icon
25	Dec 15, 2023(Amendment)	Add CSV Tab to statistics Add Calculation E.I without subject
26	Apr 01, 2024(Amendment)	Add Dicom Print Annotation Add Use mAs Fix Add Patient Size segmentation Add Ellipse ROI
27	June 11, 2024(Amendment)	Add Collimator Filter
28	Feb 03, 2025(Amendment)	Add DeepCatchX AI Add Visible Grid Pattern Add Sorting Ris Code-Body Part Add Display to Dicom Header and Unit change of ESE Value Add Auto Delete of Log Exam Status Icon Improvement and UI Change Add Change Password text View Button

User Manual



INNOVISION

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Chapter 14 | Web Access Function

14.1

14.2

Appendix

Introduction

Elui-W is a medical image sending software for acquiring patient's X-ray image, processing the readable images in working with diagnostic medical instrument, hospital information system and PACS. Elui program consists of Worklist mode that displays information of DICOM and of a patient whose images are to be acquired; Exam mode that displays images, irradiated body parts and filming conditions as well as conducts image processing; Database mode that stores and manages the acquired images and sends them to the server.

Minimum System Requirements

Operating System	Above Microsoft Windows 10
CPU	Above Intel Core i5
Memory	More than 8GB
HDD	500GB free space
VGA	More than 1G Memory
Monitor	1920*1080 Resolution 24bit color LCD Display
Ethernet (NIC)	Connect Internet based on Ethernet

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Chapter 1

Program

1.1 Starting

1.2 Worklist

1.3 Examination

1.4 Database

1.5 Elui-Setup

1.1 Starting

01

Elui-INNOVISION Start

Double click the **Elui-INNOVISION** icon in the screen to open the pop-up window. Then, input your ID and password.



02

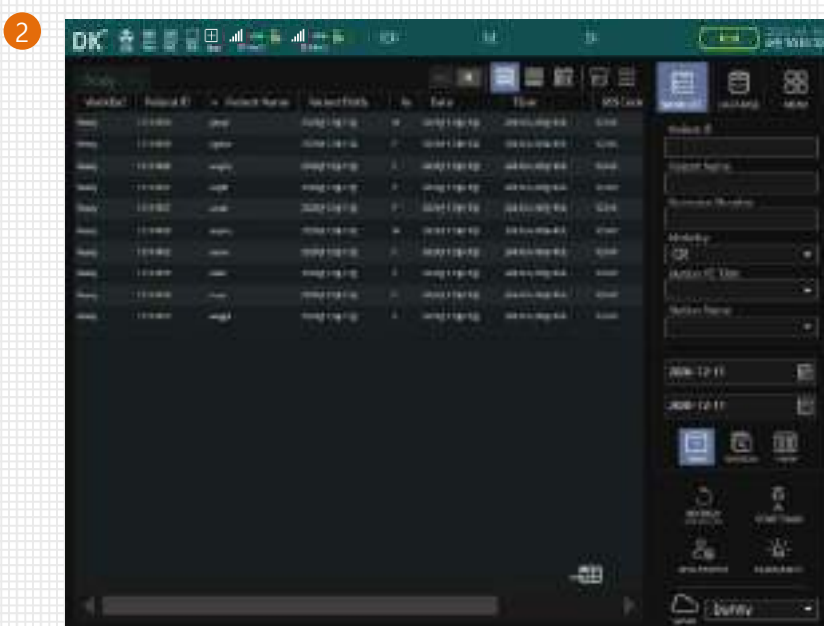
Log in



After inputting user's name ① (or ID) and password, start the program by selecting the ② **Login** button, or finish the program by pressing the **Exit** button if you wish to cancel. If pressing the ③ button, the virtual keyboard appears on the screen, and it can be used when inputting passwords on the touch panel.

1.2 Worklist

'DICOM Worklist Management' feature is basically installed in the Elui-INNOVISION, in order to synchronize with a Hospital Information System (HIS). Therefore, patient information encoded in HIS can be synchronized with a Worklist mode in the Elui through a Worklist server. For an emergency patient, it enables inputting new patient information and take irradiation quickly.



① 1920*1080 Display

② 1280*1024 Display
(Mobile Version)

1.3 Examination

In Worklist Mode, it is able to select and see generated patient information, and select a factor needed for X-ray irradiation such as relevant X-ray condition. It is also able to use the selected condition as it is, or acquire images by changing their conditions. Further, by importing the acquired or saved images, it is possible to check them and conduct the image processing, by using the function of Window Width /Level adjustment, Flip, Rotation, ROI Size changing, Zoom In/Out, Panning, and Fit Image.

1



2



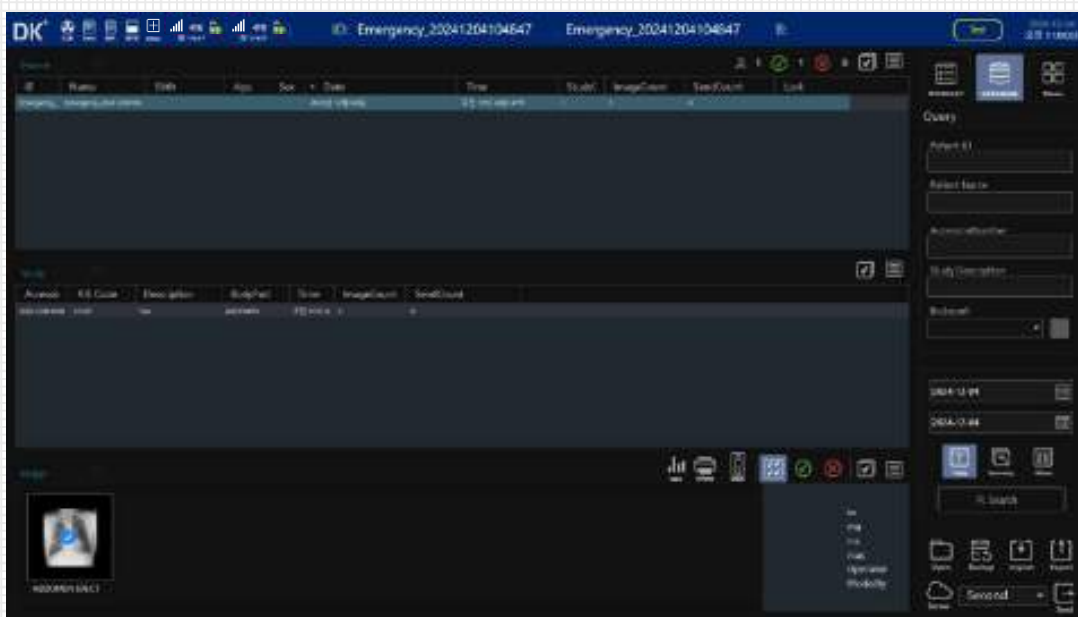
① 1920*1080 Display

② 1280*1024 Display
(Mobile Version)

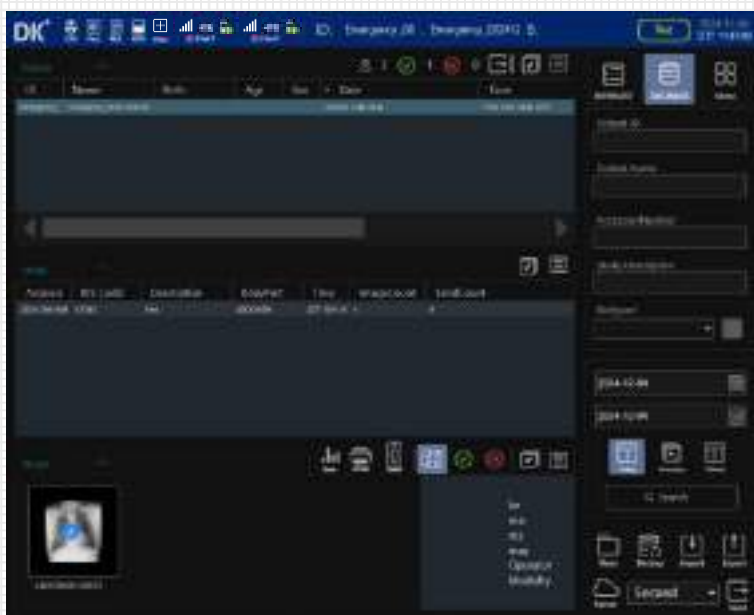
1.4 Database

It shows the completely-stored list after acquiring images. It is able to send the selected images to PACS server or confirm it in the Exam mode. And you can Backup/Export the Data of the Local Disk to another storage device, DCM Files from other devices can also be imported. Dicom Print is also available.

1



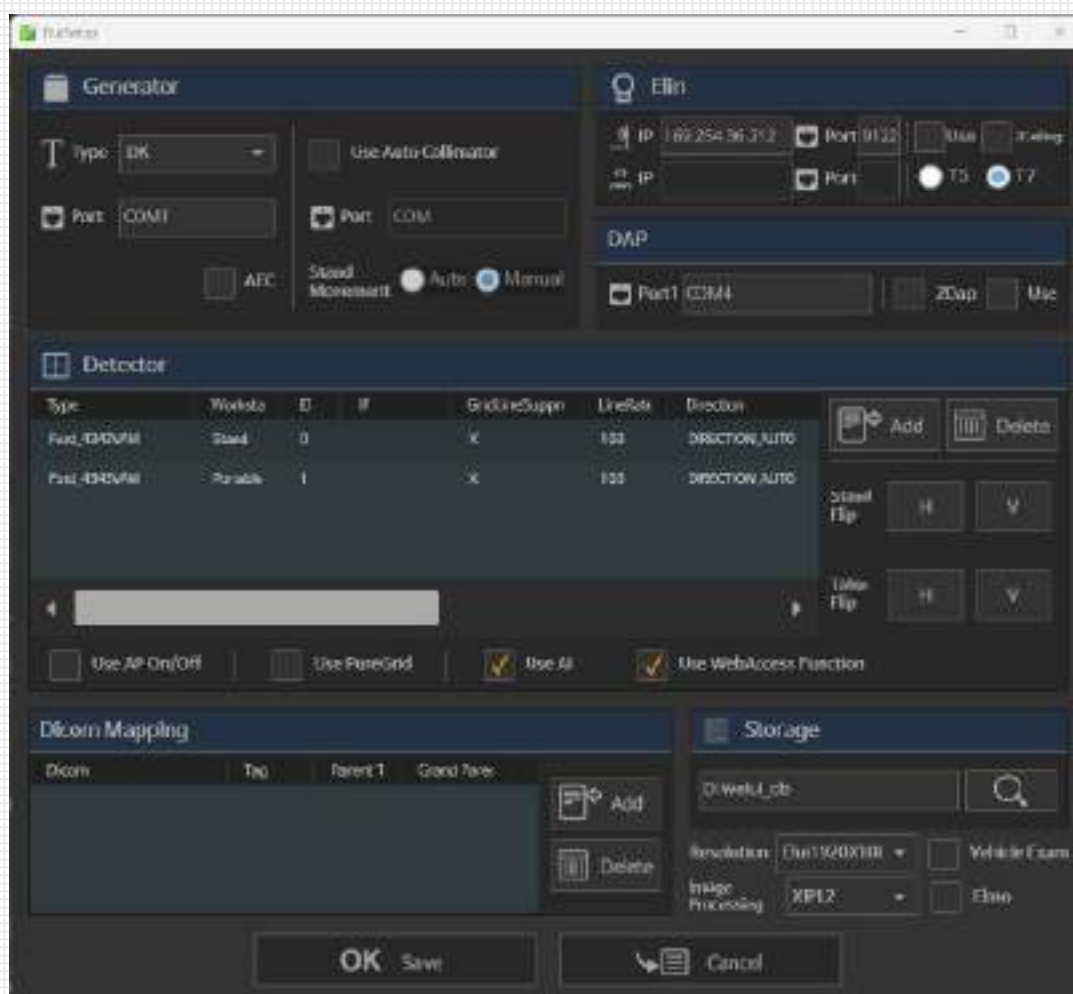
2



- ① 1920*1080 Display
- 1280*1024 Display
- ② (Mobile Version)

1.5 Elui-Setup

It can set the device to be linked to this program. It sets the device to be coupled with Generator/Elin/DAP/Detector actually and inputs the interlocking information. It is possible to link to the program, when you should input at least more than one detector information. And you can set a Dicom Mapping information/DB storing place/resolution/type of image processing/For Vehicle/Elmo.



Chapter 2

Composition Details

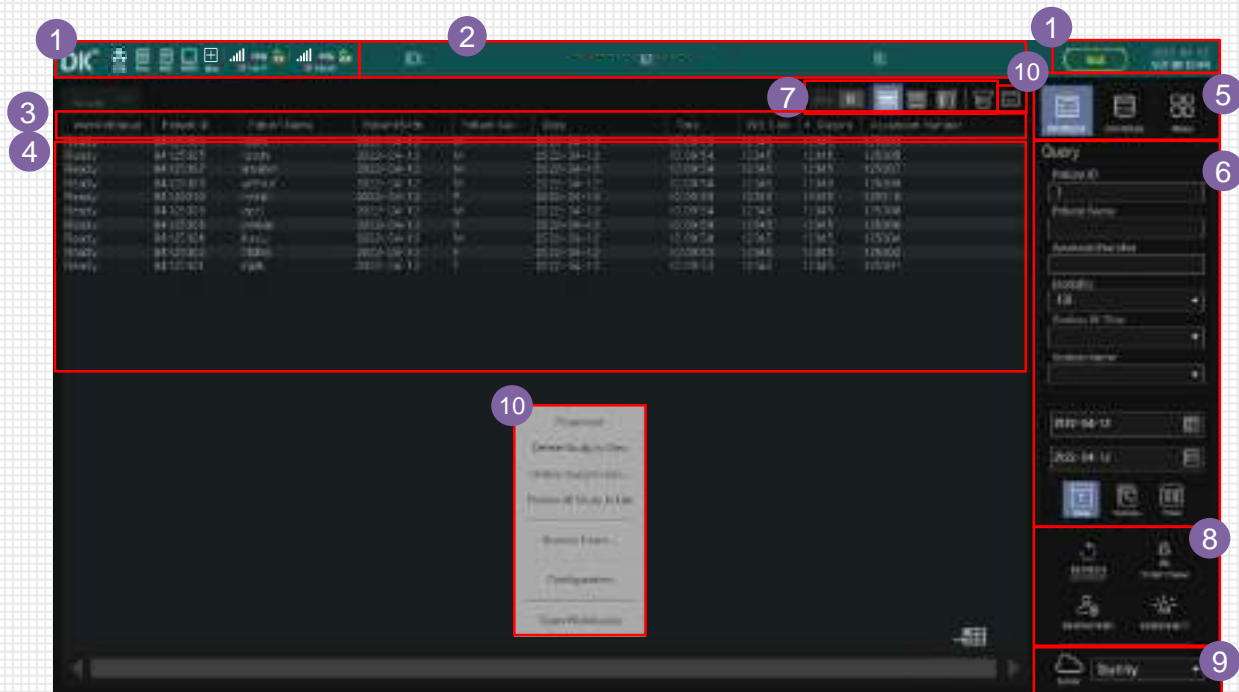
2.1 Worklist

2.2 Examination

2.3 Database

2.4 Elui-Setup

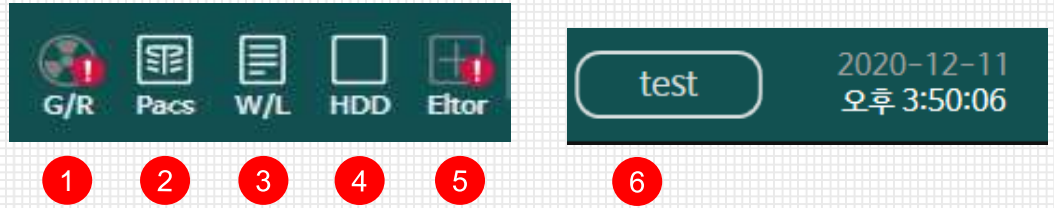
2.1 Worklist



- 1 Display (Common Items)
- 2 Patient Information Window (Common Items)
- 3 Description
- 4 Display Patient List
- 5 Button for Going to Another Screen
- 6 Query
- 7 Options for Patient List Display
- 8 New
- 9 Server
- 10 Context Menu

01

Display (Common Item)



- ① It shows a type and connection status of **Generator**.
- ② It shows the status of connection with **PACS Server**.
- ③ It shows the status of connection with **Worklist Server**.
- ④ It shows the drive space (including **Database**) in a ratio format.
- ⑤ It shows the connection status of **Detector**. When connecting a wireless detector, Battery & Signal Information is also displayed on the right. (Refer to the Picture ⑤ ⑥ below) When using a function of SCU AP On/Off, Refer to the Chapter 9.
- ⑥ It shows the current **Operator, Date and Time**.

Meaning of Icon	
01 Generator	① Ready Error
02 Detector	② Ready Error
03 Worklist	③ Ready Running Error
04 PACS	④ Ready Running Error
05 Wireless Detector Battery	⑤ 100% 75% 50% 25% Lack Disconnection Charging
06 Wireless Detector Signal Strength	⑥ 100% 75% 50% 25% Lack Disconnection

02.
Composition
Details

02

Patient
Information
Window
(Common Item)

ID: 0001	M. Elui	B: 1990-01-01 Y
----------	---------	-----------------

1

2

3

It shows currently-selected patient's:

- 1 Registration number;
- 2 Gender and Name;
- 3 Birthdate and Age.

03 04

Screen Scroll
Button
Patient List

Patient ID	Patient Name	Patient Birth	+	Date	Time	RIS Code	Description	Accessio
0001	Quat	1990년 01월 01일	M	2022년 12월 11일	12:00:00 AM	010011	CHST (R-PCR)	3000121115303
0002	Quat	1990년 01월 01일	M	2022년 12월 11일	12:00:00 AM	010011	CHST (R-PCR)	3000121115304

It shows the a list of the whole patients retrieved from the server.

- 1 Patient ID: Patient's Reg. No.
- 2 Patient Name
- 3 Patient Birth Date
- 4 Patient Sex
- 5 Patient Comment
- 6 Patient Age
- 7 Study ID
- 8 Study Instance UID
- 9 Referring Physicians Name
- 10 Requesting Physician
- 11 Requested Procedure Description
- 12 Admission ID
- 13 Current Patient Location
- 14 Worklist Modality: Worklist Server Modality, CR/DX
- 15 Scheduled Station AE Title:
 - It displays 'Scheduled Application Entity Title'; it is able to retrieve Worklist per room.
- 16 Scheduled Procedure Step Start Date: Date of order given
- 17 Scheduled Procedure Step Start Time: Time of order given
- 18 Scheduled Procedure Step ID: Regarding RIS Code
- 19 Code Value: Regarding RIS Code
- 20 Code Meaning: Regarding RIS Code
- 21 Scheduled Performing Physician Name: Regarding RIS Code
- 22 Scheduled Procedure Step Description: Regarding RIS Code
- 23 Scheduled Station Name: Place to conduct procedure
- 24 Accession Number: Serial No. given by HIS/RIS
- 25 Scheduled Procedure Step Location: ROI
- 26 Pre Medication: Whether a patient is pregnant
- 27 Scheduled Procedure Step Status: Regarding RIS Code
- 28 Comments On The Scheduled Procedure Step: Regarding RIS Code
- 29 Requested Procedure ID: Regarding RIS Code
- 30 Requested Procedure Location
- 31 Description
- 32 Requesting Service

Note

Through Configuration→Worklist→Field Menu, it is able to choose whether to display each field.

Tip

[Changing Column Order]

It is able to change column order shown in the 'Exam' list. By using the mouse, select the column to move, move it to the desired position and release the mouse button.

[Changing Column Size]

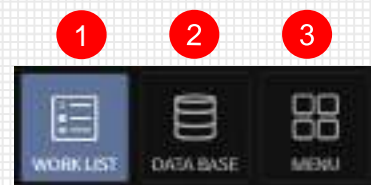
It is able to change the column size of patient list in order to see the additional information such as patient's full name.

1. By using the mouse, position your cursor on the place between headings of two columns. The cursor will be changed from an arrow shape to a size adjuster.
2. Click the size adjuster by dragging it to the right or left in order to adjust the width.
3. If it reaches the desired width, release the mouse button.
4. It is able to repeat the adjustment of size for another column.

05

Button for Going to Another Screen

- 1 **WORKLIST:** It shows the selected **Worklist** window.
- 2 **DATABASE:** It is able to go to the **Database** window.
- 3 **MENU:** It is able to see items and select a menu.



06

Query

Among Exam items, it is able to input the search conditions in order to display the desired list for a user.

- 1
 - a **Patient ID:** It enables searching the exam list to satisfy encoded patient ID.
 - b **Patient Name:** It enables searching a list by encoded patient's name.
 - c **Access. No.:** It enables searching a list by encoded serial no. of procedure.
 - d **Modality:** It enables searching a list by the selected modality.
 - e **Station AE Title:** It enables searching a list by the selected Station AE Title.
 - f **Schedule:** It enables searching a list by the selected appointment schedule.

2 **Refresh**

It is the feature to recall the items to satisfy the search conditions like entered Patient ID, Patient Name, and Access No. from Worklist Server.

3 **Start Exam**

Depending on the selected exam information, this feature enables going to Exam Mode. It is the same function that a user can use when he/she double-clicks a patient list from the Worklist.

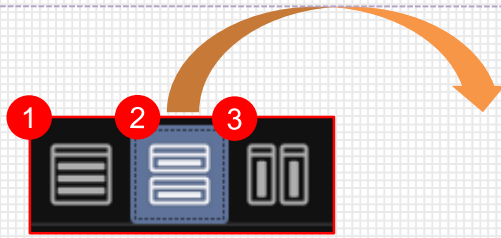
4 **Simple Exam**

- If Config -> Simple Exam is activated, click the button for 2 seconds to change the text to ' Simple Exam ' and enter Simple Exam Mode.

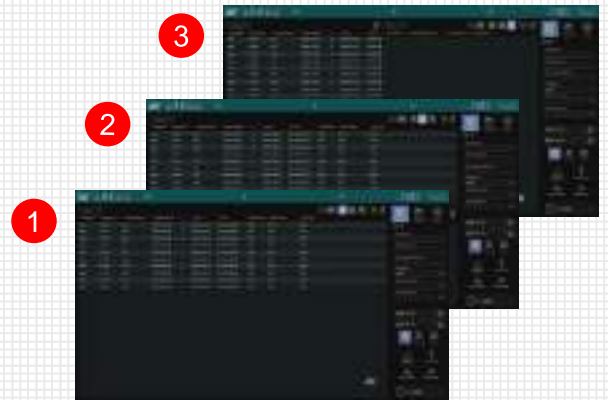


07

Options for Patient List Display



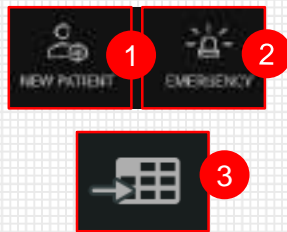
- 1 Display of **all treatments**
- 2 Horizontal display of **patient & treatment**
- 3 Vertical display of **patient & treatment**



- 4 Display all prescription.
- 5 Display not examined prescription only (Checking Database, the examined prescription does not show up.)
- 6 Delete all list (When using Managed Worklist)

08

New



1 **New Patient:**

It is able to register new patient information. It can be used when it is in emergency mode or HIS/RIS are not synchronized. Since Patient ID and Patient Name are mandatory items to fill out, it is possible to proceed further process only when they are typed in. After inputting other items selectively, it is able to start irradiation by using the 'Start Exam' button, or to cancel by 'CANCEL'.

a **Start Exam**

It enables going to the Exam mode on the basis of the typed Exam information.

b **Cancel**

It enables cancellation of the written information and termination of the dialogue.

2 **Emergency:**

It is the feature to start procedure without selecting a patient list or adding up a patient from the Worklist. In this case, the system assigns the individual tracking number for the procedure.

3 **Import Excel:** It is the feature to import excel file and add it to the worklist (Refer to Ch. 4 to 4.1)

a **Exist Column Header**

Check it if excel file has column header; uncheck it, if.

b **Add RIS Code**

It is able to add/change Exam list.

c **Sheet**

It is able to select a sheet of Excel.



d) DICOM Tag

It enables mapping DICOM Tag to Excel file's column.

f) Import

It enables adding items of preview list to a local server.

e) Open File

It enables opening an excel file.

Note

When registering new patient info., it is mandatory to input Patient ID and Patient Name.

09

Server

It is able to change the selection of worklist server.



10

Context
Menu

- 1 After selecting Worklist, click the right button of the mouse or a menu icon to see the pop up window on the screen.

- 2 **Parameter:** It is able to go to the Parameter window.
(Refer to p. 56.)



Configuration: It is able to go to the Configuration window. (Refer to p.44.)

Delete Study In View : Deletes the selected Order on list not to show up.

(If List Mode changes to "All", the deleted item will be displayed.. Refer to p23-7)

Delete Study In List : Deletes the selected Order on list.(When using Managed Worklist.)

Delete All Study : Deletes all Orders on list.(When using Managed Worklist.)

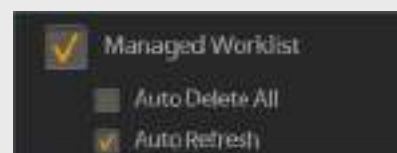
Restore Exam: It restores the selected Order.(At shutdown during irradiation)

Open WebAccess : Move to the Web Access window. (Reference: P.25)

Managed Worklist

It is a feature to manage the order information after Querying.

- 1 It stores the received order from server at Querying.
- 2 It displays the stored Order on screen without communication with server.
- 3 It can delete a Order (Delete Study In View), the deleted order will not display even after Querying.
If it inputs value in searching condition (Patient ID / Accession Number) and presses Enter, the stored
- 4 Order is searched first and switch the screen to Exam Mode. If there is no searching result in stored order, Query again.
- 5 If it is checked in Config – Worklist – Managed Worklist, it can be used.
 - Auto Delete All : if checked, it would delete the existed list at every time to query. If not checked, the user should delete personally.
 - Auto Refresh : If checked, it would query at every time to come back to Worklist screen. If not checked, the list would be renewed.



Simple Exam

Function that allows the examination to be carried out easily by calling the Worklist from Exam Mode, sending PACS and querying without leaving Exam Mode, and automatically setting the next patient examination.



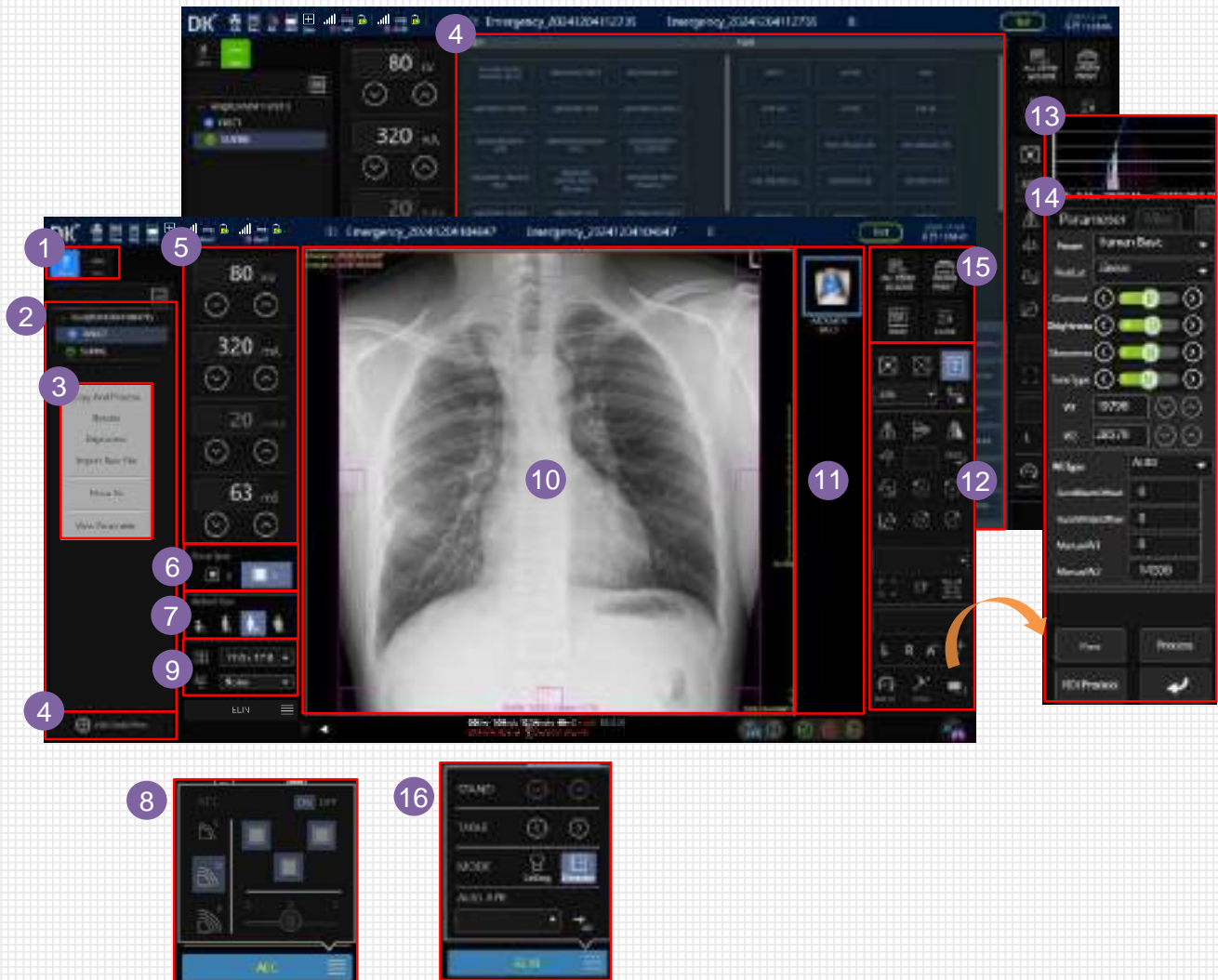
- ① It can enter patient information to retrieve from the Simple Exam list.
- ② Query(Refresh) the patient list. If you enter a value in ①, the search results are applied.
- ③ Select R(Ready Status)/All(All).
- ④ Displayed the patient list.
- ⑤ Set the completed patient to PACS transmission, query, and examination for the next patient.

Web Access Function

This Function imports the list of recorded images stored in the Detector, matches them with patients in the Worklist, and saves them in the Database. (Reference: Chapter.14)



2.2 Examination



- | | | | |
|---|-------------------------------------|---|-----------------------------|
| ① | Currently-selected Detector Display | ⑪ | Thumbnail Display |
| ② | Examination Information Display | ⑫ | Tools |
| ③ | Context Menu | ⑬ | Histogram |
| ④ | Add Study /View | ⑭ | IP (Image Processing) /LUT. |
| ⑤ | Setting Irradiation Condition | ⑮ | Menu for Send and End |
| ⑥ | Focal Spot | ⑯ | Elin Control |
| ⑦ | Patient Size | | |
| ⑧ | Setting AEC Environment | | |
| ⑨ | Collimator | | |
| ⑩ | Main Image | | |

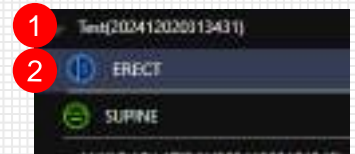
01
Currently-
selected
Detector
Display

It shows the **Connected detector modalities** of Stand/ Table /Portable1417 /Portable1012/LongBone.
(if portable, It is display as a modality suitable for the detector)
It is possible to change detector by **selecting the click button.**



02
Exam
Information
Display

It displays the information on irradiation to be used for examination.



1 **Description (Accession Number)**

It shows order information. (It shows the examination accession no. that HIS/RIS provided.)

2 **View Position**

It shows irradiation position matched as Description. It is possible to proceed the irradiation after selecting it.

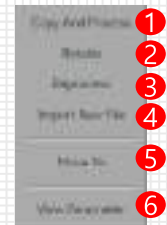
Note

According to settings, it is possible to go to the next View Position automatically. Cycle Time is within 8 seconds.

03
Context Menu

After selecting View Position, it displays on pop up window at clicking mouse right button.

- 1 It can copy the recorded image and apply the process.
- 2 Adding View Position makes possible to irradiate again.
- 3 It can copy the acquired images.
- 4 It can import the Raw file.
- 5 It can the set parameter in relevant View Position.
- 6 It can see the parameter set in the corresponding view position.



04
Add
Study / View

It is displayed when scrolling down the status bar or clicking the Add View button.



1 **Add Study**

It is the function to add study data when adding it aside from the currently-selected order, or manually irradiating under New Patient or Emergency mode. Double-click the study that you wish to add.

2 **Add View Position**

For currently-selected prescription, It enables adding a View Position. Double-click the view position data that you wish to add.

3 **Body Part List**

It shows study and view position data that belong to the relevant body part.

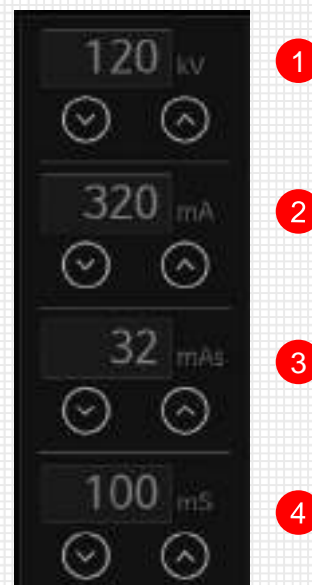


05

Setting
Irradiation
Condition

It sets the condition to irradiate X-ray from the Generator.

- ① **kV**: It shows Tube Voltage.
- ② **mA**: It shows Tube Current.
- ③ **mAs**: It shows Tube Current Time.
- ④ **mS**: It shows irradiating time.



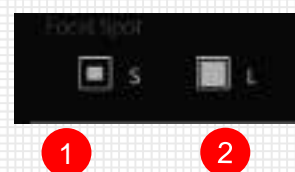
Note

Elmo-T3P&S (2023) can only set kv and mAs values.

06

Focal Spot

- ① **Small Focus**: For setting a small focus.
- ② **Large Focus**: For setting a large focus.



07

Patient Size

It is able to set irradiation conditions for **Patient Size**.

(Baby, Child, Small, Medium, Large)

When it Long-click after selecting Child, it can select baby.



Auto Voice in Multi-languages

Select the view position to proceed, and select Ready. Then, the relevant voice message will be played depending on a body part; total nine (9) languages are available, including Korean. (Available languages: Korean /English /Chinese /Japanese /Vietnamese /Thai /Russian /Mongolian /Arabic/Indonesian)

[How To Use]

- ① Click "F9" from the Exam screen to see the corresponding pop up window. Once it is popped up, select the language and Ready to play the voice message.
- ② The relevant voice message will still be played when X-ray irradiation is completed.
- ③ Even closing the screen, the lastly-selected language will be maintained so to use it again when restarting the program. Also, five (5) languages are supported for Chest purpose, and are available if pressing the Play button (▶) manually.



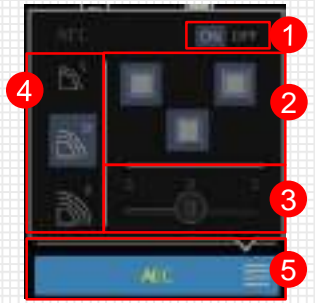
Note

In the parameter tab, it is able to select the language for each body part, respectively. (Refer to p. 60 for details.)

08

Setting AEC
Environment

- 1 **ON / OFF:** Whether to use the AEC.
- 2 **Field:** Selects the Chamber position to adapt AEC ON. (Field 1,2,3)
- 3 **Density:** Adjusts the density of AEC. (-3 ~ +3)
- 4 **Speed:** Adjusts the speed of AEC. (Low, Middle, High)
- 5 **AEC:** Able to see the current settings of whether AEC is used; if yes, the icons will be blue-colored as shown on the right image. The current setting values will appear if putting your cursor on the button, and will disappear if moving yours to another location. If you wish to modify the values, click the corresponding button.



Note

4747 Detector AEC

- The Detector AEC feature is available when linked up with FXRD-4747VA, FXRD-4747VA PLUS and FXRD-4747VB.

- 1 **ON / OFF:** Specifies whether to use AEC usage.
- 2 **Field:** Select the chamber location where you want to apply AEC ON. (Field 1, 2, 3)
- 3 **TargetValue :** Select AEC Target Value. (1000~10000)
- 4 **Density:** Adjust the Density of the AEC. (0 ~ 100%)
- 5 **Direction :** Select the Direction of Detector AEC. (0, 90 ,180, 270)



09

Collimator

- 1 It enables selecting the **auto collimator** settings.
- 2 Selected Collimator Filter.



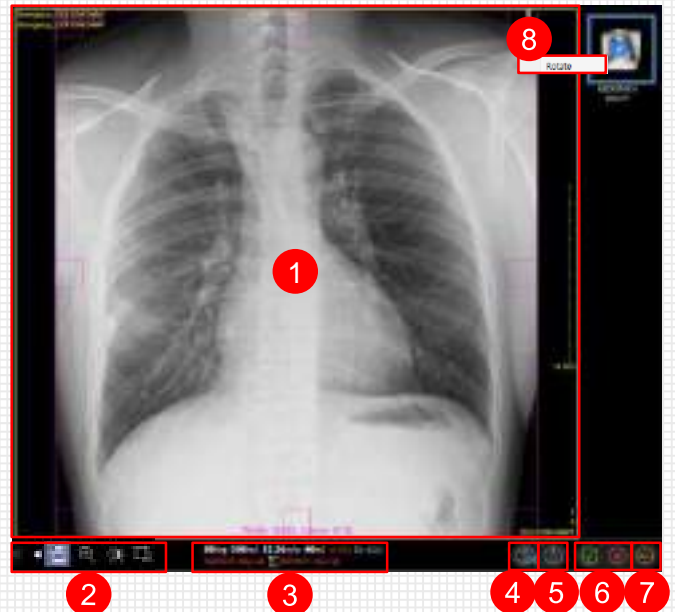
10

Main Image

1 **Exam Information Display**

Shows Exam Info. (It is able to decide the scene to be displayed, as an option. Refer to 4.3.1)

- a Patient ID
- b Patient Name
- c Patient Sex
- d Patient Birth Date
- e Accession Number
- f Body part
- g View Position
- h Series Number
- i Series Date
- j Series Time
- k Instance Number
- l Content Date
- m Content Time
- n Operator Name
- o Institution Name



11

Thumbnail Display

2 Touch Mode Selection:

Panning, Zooming and Windowing can be done by touching it, instead of using the mouse.

3 Irradiation Condition and Image Info. Display:

It shows Irradiation condition, EI (Exposure Index value), and DAP Info.

4 DSLB Separation :

Select the Image to be separated from the thumbnail and click the button to move to the Separation Dialog.

5 Stitch:

Select Images to stitch from the Thumbnail and click the Stitch button; then another window for stitching will appear.

6 Accept/Reject:

Select Images to Accept/Reject from the Thumbnail, and click the Accept/Reject button; then the system will assign the relevant status to the image.

7 All:

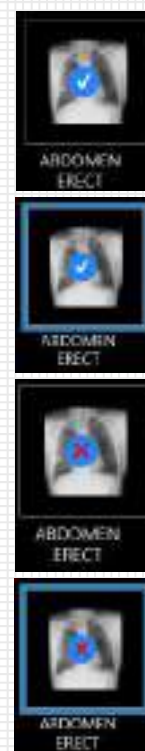
If unchecked, only accepted video will be displayed. If checked, Rejected image is also displayed.

8 Rotate :

Rotate the ROI to display on the image.

It displays the **currently-opened or acquired images** as small sized ones.

- 1 After Irradiation, it displays the status as **Accepted** in Thumbnail.
- 2 In order to **Reject** the acquired Images, **click the Icon button in the middle** after **clicking the Thumbnail**.
- 3 Clicking **Reject button** makes images Reject and invisible from the Thumbnail window. (**Reject Completed**)
- 4 To recover the rejected image (which is invisible from the Thumbnail), click the Icon in the middle after clicking the Thumbnail. (Then, the status will be as **Accepted**.)



Note

To select multiple thumbnails, Use Ctrl or Shift key on the keyboard.

The following icons are displayed on the mobile mode, and multiple selection is possible in the Touch mode.

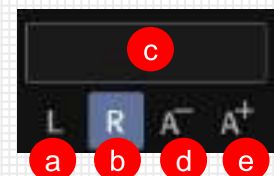


- 1 Move the thumbnail list to the left.
- 2 Move the Thumbnail list to the right.
- 3 Changes the thumbnail list to multi-select mode.

12

Tools

- ① **Fit ROI To Window:** Fitting ROI region to the marked region
- ② **Fit Image To Window:** Fitting the image size to the marked region
- ③ **On/ Off Display DICOM Header:**
Selection on DICOM Header of image
- ④ **Zoom:** Zoom In /Out, or 100% size for image
- ⑤ **Flip Horizontal:** Rotating an image to the left /right.
- ⑥ **Flip Vertical:** Rotating an image up /down.
- ⑦ **Invert:** Inverting each pixel value in image.
- ⑧ **Reset Transform& Rotate Indicator:**
Resetting the Flipped /Rotated image to the original status.
- ⑨ **Image Rotation:**
Rotating the selected image every 1 ° in clockwise or counterclockwise direction. (Available range from -180 ° to + 180 °)
- ⑩ **Rotate Clockwise , Counterclockwise 90°:**
It rotates an image every 90 ° to the left /right.
- ⑪ **Rotate Clockwise , Counterclockwise 90°:**
It rotates an image every 5 ° or 1 ° to the left /right.
- ⑫ **Marker:**
As an essential factor of image, this feature enables adding texts for remarks such as Eject and R /L directions.



- ① It inserts L marker, or changes marker R to L (when R marker is already inserted).
- ② It inserts R marker, or changes marker L to R (when L marker is already inserted).
- ③ If a marker is inserted in a text-adding way, or if the already-inserted marker is selected, then the corresponding contents will be displayed and be editable.
- ④ It is able to make the marker size smaller.
- ⑤ It is able to make the marker size larger.

A) Deleting Marker

It enables deleting a marker. After selecting a marker, it is possible to delete it by pressing the mouse's right button or the DELETE key.

B) Moving Marker

Select a **Marker** to move, and drag it to the desired location.

C) Editing Marker

If selecting a **Marker** to edit, the selected **Marker** will appear and be editable.

D) Marker Size Adjustment

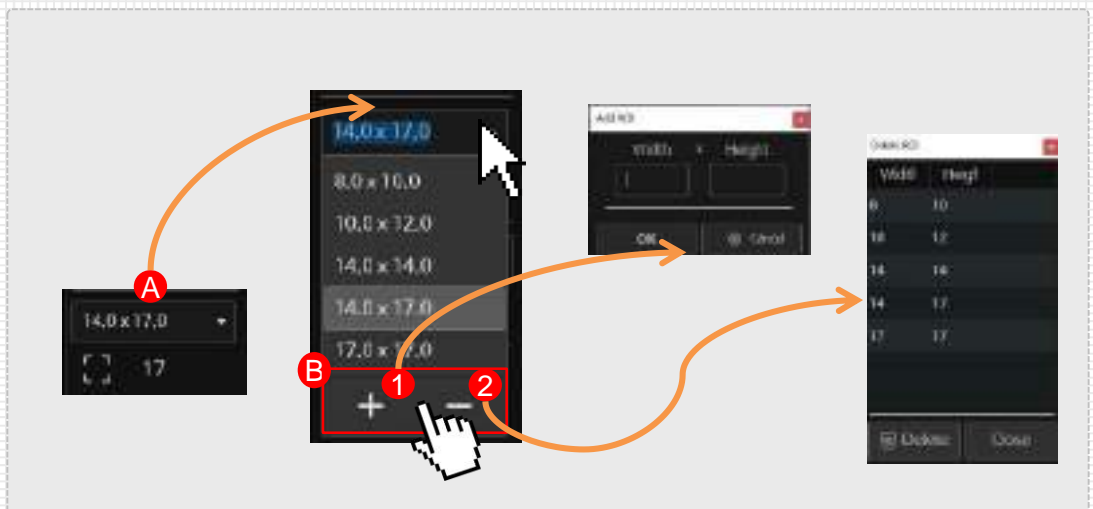
Select a **Marker** to adjust its size, click the right button of the mouse and **Size Up** or **Size Down**. Or, use the **Up/Down** keys that are next to the area where **Marker** is inserted manually.

13) Move Parameter: It enables going to the Image Parameter window.

14) Grid Pattern : It can add a grid pattern to image.

15) ROI: It is possible to **set** the size of image; part of image to save.

a) It displays **ROI size**.



A) Change ROI Size

It changes ROI. If the Arrow **A** is selected, it is possible to change the selected one among set ROI.

B) Add /Change ROI Size

1. Add ROI

It is able to add ROI; type in a number in an item and press 'OK' button.

2. Delete ROI

It is able to delete ROI; select the ROI data that you wish to delete, and press 'Delete' button.

ⓑ **17 x 17**: Set ROI size as 17 x 17.

ⓒ **ROI Shape**



Ⓐ **Rectangle**

It sets the shape of ROI as Rectangle format. Double-clicking the applied Icon can change the shape.



Ⓑ **ROI Ellipse**

It sets the shape of ROI as Ellipse.

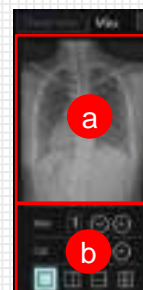
It can draw a circle ROI by Changing the size width Shift+Drag.

- 16 **Save As Default** : If you click the right mouse button, then the Save As Default menu will appear. It is able to save the Changed Angle, Flip, Marker, ROI as default value of View Position of the current image.

Save View Param As Default...

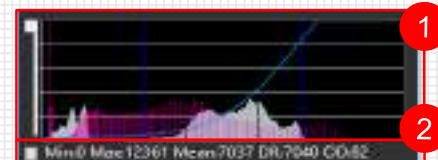
17 **Misc. (Miscellaneous)**

- Ⓐ **Navigation Image**: It displays position information on the currently-shown image on the screen.
- Ⓑ **Layout**: It enables comparing multiple images in segmented area of the screen; divided as left, right, up and down.



13 Histogram

- 1 It is able to figure out the position of window for image Histogram, because when the window is adjusted, Histogram is also changed.
- 2 It displays Min/Max Pixel values and the average Pixel value in Histogram.



14

IP(Image Process) / LUT

- ① **Reset:** It initializes the parameter value of image.
- ② **XIPL Parameter:** It adjusts XIPL Parameter of image.
- ③ **Raw:** It enables viewing the Raw file.
- ④ **Process / ROI Process:** XIPL Parameter can be applied if clicking Process button. "ROI Process" processes only the image within the ROI area.
- ⑤ **Move Image Tools:** It enables going to the Image Tool Screen.

Note

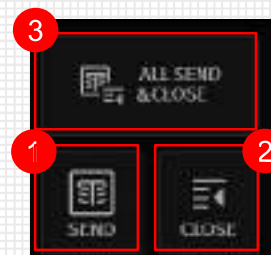
If XIPL is selected for GPU Type in Elui-Setup, the parameters shown on the right are displayed. If you select a different GPU Type, different parameters will be displayed.



15

Send and End Menu

- ① **Send** To send the selected image without ending the Exam Mode.
- ② **Close** To close the Exam Mode without sending an image.
- ③ **Send & Close** To send the image to PACS and end the Exam Mode.



16

Elin Control

- ① **Fine Adjustment Control** If the mode in modality and Ceiling in selected View position are matched, Detector and Tube are synchronized..
 - Stand:** By moving its Detector up and down, It synchronizes with the Tube.
 - Table:** Ceiling Mode – By moving itself to the left /right, it synchronizes with the Detector.
Detector Mode – It synchronizes with the Tube moving the Detector to the left /right.
- ② **Show/Hide Control** It shows or hides ① Fine Adjustment Control.

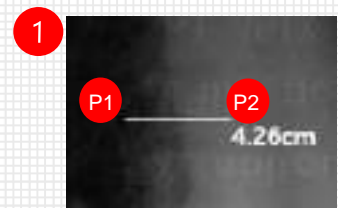


17

Measure Tool

- 3 Auto APR**
It is able to select whether to display Auto APR Position list.
- 4 APR Go**
While keeping pressing down the Go button, it enables moving the device from the place shown in the item no. ③ , to the selected APR; it stops moving if button is released.

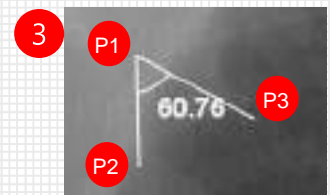
- 1 Measure Length**
It is a feature to measure the length. If you drag the mouse over the image and hold it down the Ctrl key on the keyboard and drag between P1 and P2, the length value of that part will be displayed on the screen.



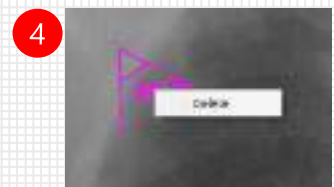
- 2 Calibration**
It is a feature to change the reference value(pixel pitch) used when measuring length. After adding a Ruler, clicking "Calibration.." from the right button on mouse makes pop up the window to input the value. If input the actual length on window, re-calculate the Pixel Pitch and it will calculate with input value for further use.

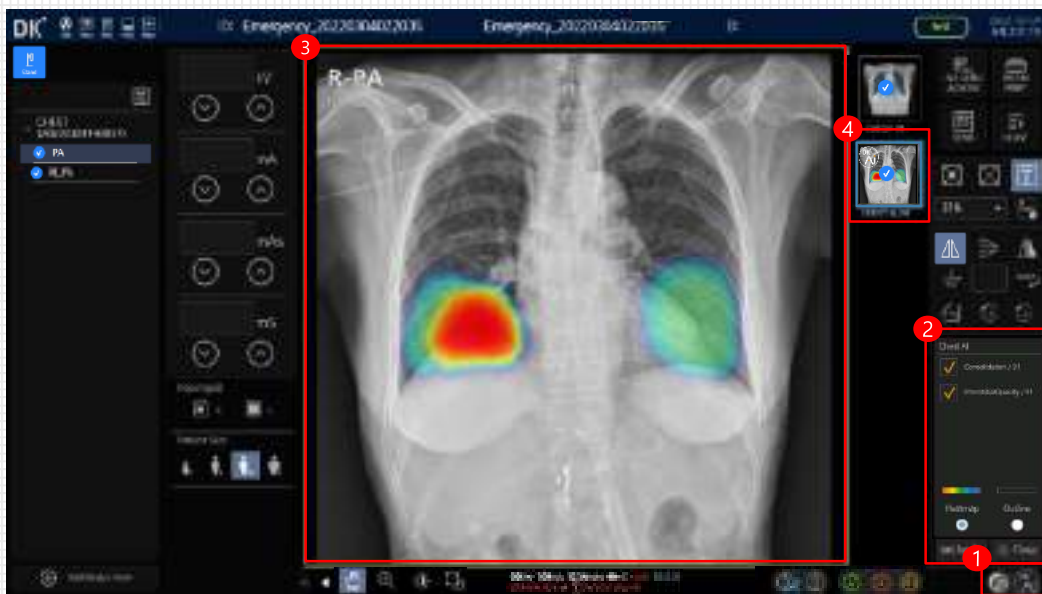


- 3 Measure Angle**
It is a feature to measure the Angle. While holding the mouse over the image and holding down the Ctrl + Alt key on the keyboard, dragging the part between P1 / P2 where to measure the angle and clicking the mouse on P3 makes the measured Angle value is displayed on screen.



- 4 Delete**
Selecting the measured value to erase and clicking Delete key on right menu on mouse makes delete the value.



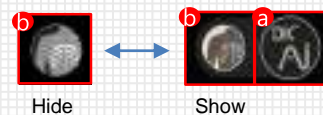


1 **AI Processing**

Processed by AI to display the lesion predicted by AI.

a Image Processed by AI.

b It can hide/show the pop-up that display AI Result.



2 **AI Result**

a **Lesion and Probability**

- Display the result(Lesion/Probability) of the AI processed Image
- Select only the desired result among the displayed lesion.

b **Display**

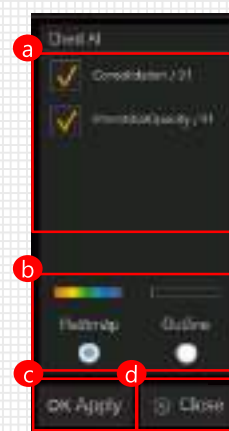
Select how to display AI processing results on the image (Heatmap/Outline).

c **Apply**

- Apply the settings selected in a and b to the image.

d **Close**

- Close the AI Result.



3 **Result Display**

- The Result of the selected lesion is displayed on the exam according to the display method(Heatmap/Outline).
- Abbreviations for each lesion are as follows
Nodule – **ndl**, Consolidation – **cons**, Interstitial Opacity – **io**, Pleural Effusion – **pe**, Pneumothorax – **ptx**, Tuberculosis – **Type T**, Pneumonia – **Type P**
(Tuberculosis and Pneumonia only show lesion rate.)

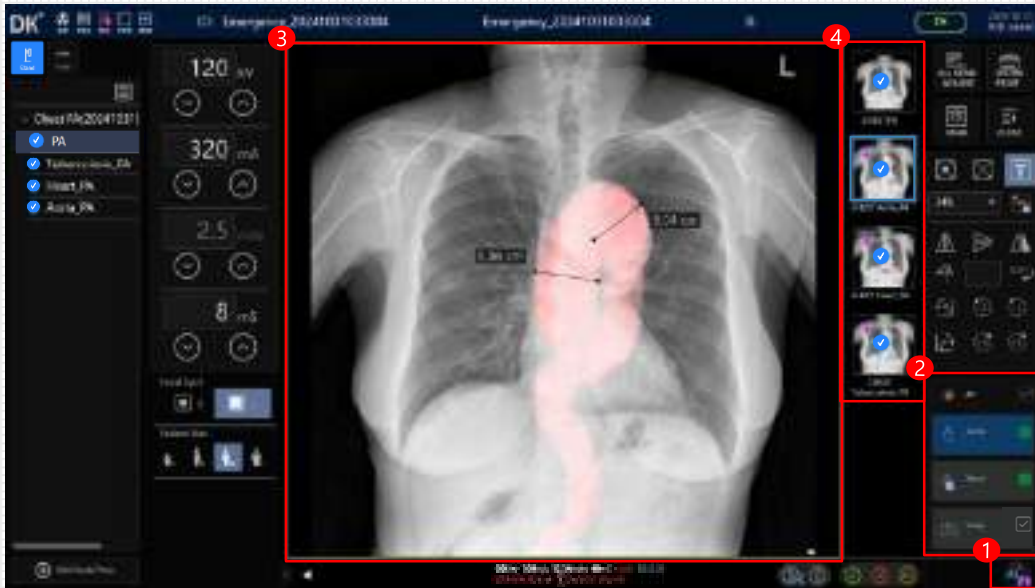
4 **AI Thumbnail**

- AI Thumbnail have been added when AI running.

Note

※ A separate license entry is required to use AI Mode.

(Contact DK Medical system Customer support team)



1 AI

Chest PA image are processed by AI and Displayed on the screen.

Aorta : Measures and displays the diameter of the aorta.

- Heart : Measures and displays the CT Ratio.
- Lung : Measure and display Lung Volume, and generate and display Bone/Bone Suppression image separately.
- It can hide/show the pip-up that display the AI Result 2 by right button click the mouse.



2 AI Result

Function 및 진행률

- a It can select/deselect all functions
- b It can select the function It want to derive the result from.
- c Display the progress of processing the result.
- d Display the Function that has completed deriving the result.



3 Result Image Display

- Display the result of the selected lesion on the image.

4 AI Thumbnail

- AI Processing is executed, AI Thumbnail is Added.

4

Note

※ A separate license entry is required to use AI Mode.

(Contact DK Medical system Customer support team)

19

Verticl Mode

If you have a vertical monitor installed, you can view large images by displaying long images, such as the Longbone image.

You can set options for Vertical Mode in Config -> Exam.

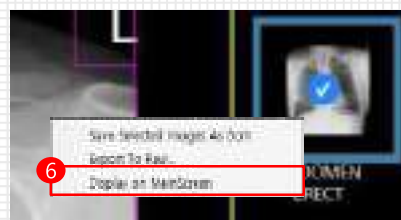
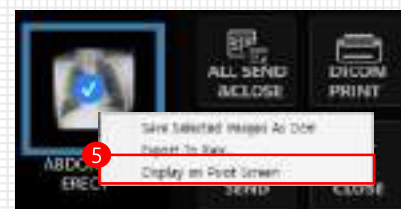


- 1 **Vertical Mode**
 - You can choose whether to use the Vertical Screen in the Exam.
- 2 **Monitor Number**
 - You can enter the Number of Vertical Monitors installed.

- 1 **Display image**
 - Displays a long image in the vertical direction.
- 2 **Thumbnail**
 - Displays an image displayed on a vertical screen.
- 3 **Tools**
 - Rotate/flip, etc. can be applied to the image.
- 4 **IP(Image Process)/LUT**
 - Image Processing can be applied to images.
- 5 **Display On Pivot Screen**
 - Images displayed on the Existing Exam Screen can be displayed on a vertical screen.
- 6 **Display On MainScreen**
 - The image displayed on the vertical screen can be displayed on the Existing Exam Screen.



※ All functions can be used the same as the existing Exam Screen



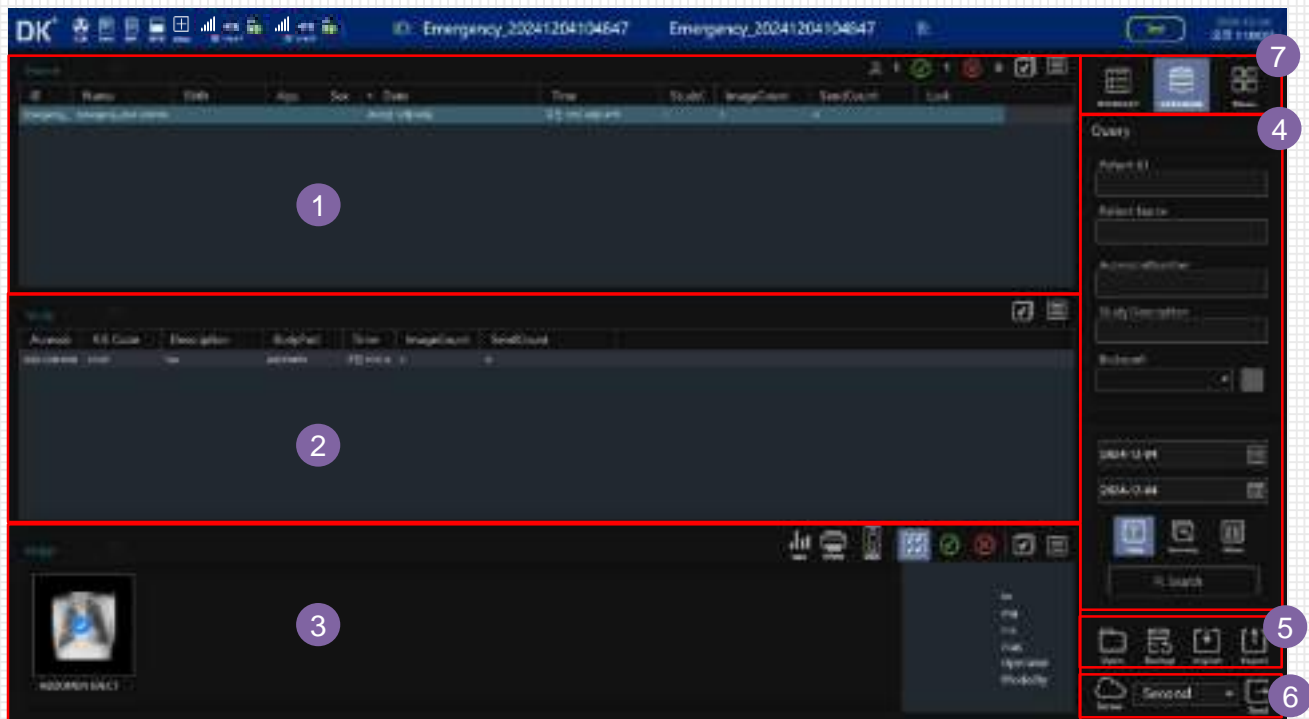
20

DSLB Separation



- 1 Display**
 - Selected DSLB image is displayed on the screen and the area to be separated is displayed
 - It can designate the area to be separated with the control at the top/bottom
- 2 Separation Count / Overlap**
 - Display the number of images to be separated and overlap.
- 3 Separate**
 - The Image is separated by the set range and count.
- 4 Close**
 - Close the DSLB Separation Dialog.

2.3 Database



- | | |
|-----------------------|---|
| 1 Patient List | 5 Tools |
| 2 Study List | 6 Server |
| 3 Image List | 7 Button for Going to Another Screen |
| 4 Search | |

Note

- ※ Able to choose whether to display each field of list, in **Configuration→Database→Field** menu
- ※ Adjustable size of column and changeable Order
- ※ Thumbnail Display
- ※ Statistics Display
- ※ Searchable as of Today/Yesterday/Week/Manual
- ※ Searchable as of Body Part

01

Patient List



1 Statistics

- a **Patient:** Depending on a user's preferred search conditions (e.g., date, body part, etc.), a user can check the number of patients being completed their procedures.
- b **Accepted:** Depending on a user's preferred search conditions (e.g., date, body part, etc.), a user can check the number of accepted images.
- c **Rejected:** Depending on a user's preferred search conditions (e.g., date, body part, etc.), it is able to check the number of rejected images.

Note Regarding how to check the statistics, refer to the below description on Search Filter.

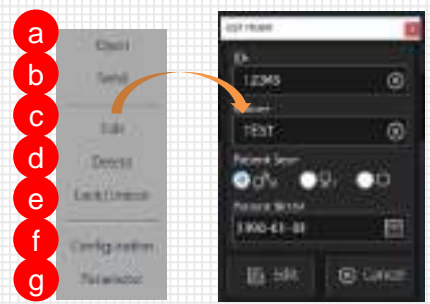
2 Column: It is able to choose whether to see each field of list, in the **Configuration** → **Database**

→ **Field** menu. Choice of Column Display & Size Adjustment & Order changeable.

- a **ID:** Patient's Registration Number
- b **Name:** Patient Name
- c **Birth:** Patient's Birthdate
- d **Age:** Patient's Age
- e **Sex:** Patient's Gender
- f **Date:** Date that the Procedure Is Taken
- g **Time:** Time that the Procedure Is Taken
- h **Study Count:** No. of Studies
- i **Image Count:** No. of Images
- j **Send Count:** No. of Images Sent
- k **Lock/Unlock:** Whether to Lock Patient's Image
- l **RequestDepart :** Dept. in Charge

3 Patient List Function: After selecting Study, it can be used by clicking the right button of the mouse or the menu icon.

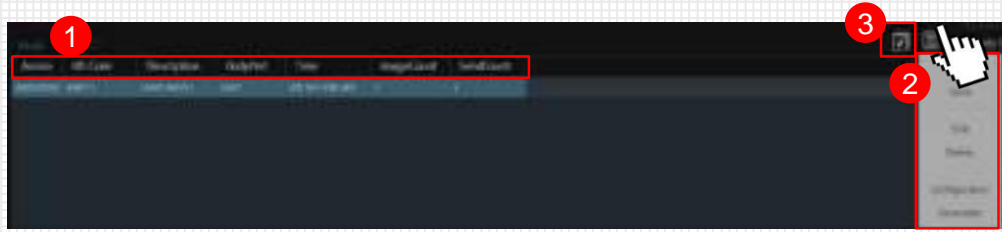
- a **Open :** After selecting patient, it can work like confirming image with moving to Exam window and re-irradiation or image adjustment.
- b **Send :** After selecting a patient, all accepted images for applied patient are sent to PACS.
- c **Edit :** Study ID/ Accession No/ Body part/ Description can be edited.
- d **Delete:** It deletes the data of applied study.
- e **Lock/Unlock :** Lock or Unlock the image of the selected patient.
If you lock the image, it will not be deleted.
- f **Configuration :** It enables going to the Configuration window.
- g **Parameter :** It enables going to the Parameter window.



4 Edit Mode

It is able to select multiple data by clicking the checkbox on each Row. (Same as Ctrl+Click)





1 Column

It is able to choose whether to see each field of list, in the **Configuration** → **Database** → **Field** menu. Column Display & Size Adjustment & Order are changeable.

- | | |
|--|---|
| (a) Accession No
Serial No. of Exam generated in HIS/RIS | (f) Image Count: No. of Irradiating image |
| (b) RIS Code: Radiology Information Systems Code | (g) Date: Date that Examination Is Taken |
| (c) Description: Contents of Exam. | (h) Send Count: No. of Image Sent |
| (d) Body Part: Applied Body Part | (i) Study ID: ID Applied in Examination |
| (e) Time: Time that Examination Is Taken | (j) Study Instance UID:
Unique ID Given to the Case |
| | (k) RequestDpart : Dept. in Charge |

2 Study List Function

After selecting **Study**, the function is available if **selecting the right button of the mouse**, or **clicking the menu icon**.

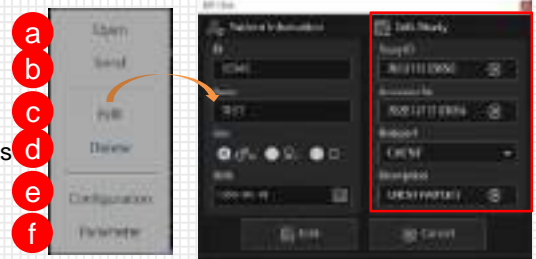
(a) Open : After selecting patient, it can work like confirming image with moving to Exam window and re-irradiation or image adjustment.

(b) Send : After selecting patient, all accepted images for applied patient are sent to PACS.

(c) Edit : Study ID/ Accession No/ Body part/ Description can be edited.

(d) Delete: It deletes the data of study applied.

(f) Parameter : It enables going to the Parameter window.



3 Edit Mode

It is able to conduct a multiple selection by clicking a checkbox of each row. (Same as Ctrl+Click)



03

Image List



1 Image Filter

It displays the Accepted/Rejected images, particularly or as a whole.

2 Image List Function

After selecting Study, the function is available if selecting the right button of the mouse, or clicking the menu icon.

a Open : If selecting and opening an image, it is possible to go to the Exam. Window and conduct re-checking images, re-filming, and adjustment of images, etc.

b Send : If selecting and sending images, the accepted ones will be sent to PACS.

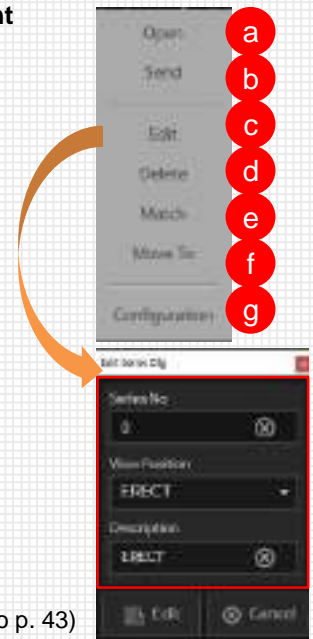
c Edit : It is able to edit View Position / Description.

d Delete : It is able to delete the selected image.

e Match : It can match the acquired image to Study in un-irradiated worklist.

f Move To: It matches the acquired image to another Study in irradiated Database.

g Configuration: It is able to go to the Program set up window. (Refer to p. 43)



3 Edit Mode

It enables the multiple selection of images.

4 Image Information : It shows the information on the selected image.

a Body part: Applied Body Part

b View Position: Applied Position

c Operator: Operator's name

d Modality: it shows the type of Modality

e kV: Irradiated Tube Voltage value

g mA: Irradiated Tube Current value

h mS: Irradiated Time value

i Date: Date that Procedure Is Taken

j Time: Time that Procedure Is Taken

5 Stitch(Refer to Chapter 6)

It is the feature to stitch the selected images.

6 Dicom Print(Refer to Chapter 11)

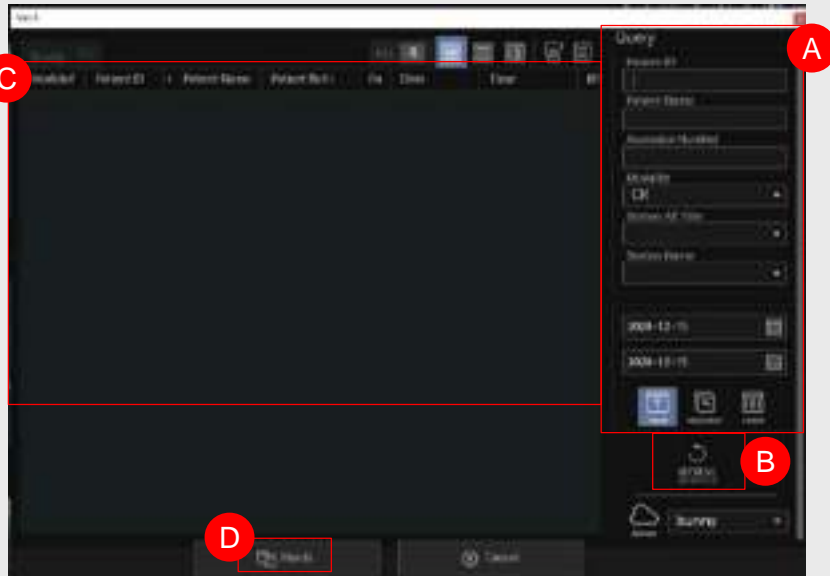
It is the feature to print out the selected images through DICOM.

7 Stats(Refer to Chapter 12)

It is the Function to view statistics for the selected images.

Note

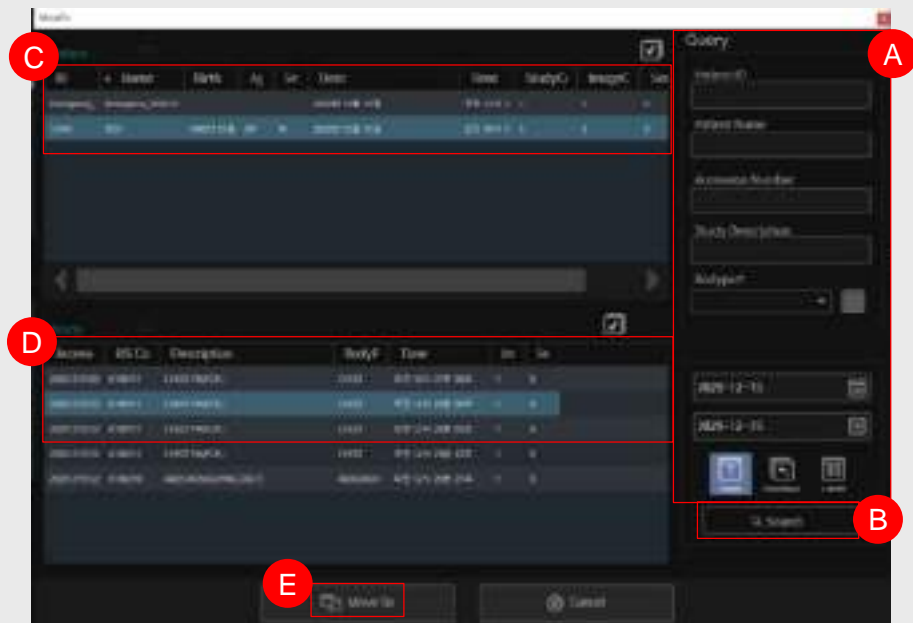
[How To Match Data]



- (A) Input Search Keywords.
- (B) Click the Refresh button.

- (C) Select the data to match.
- (D) Select the Match button.

[How To Conduct 'Move To']



- (A) Input Search Keywords.
- (B) Click the Search button.
- (C) Select a patient data to move.

- (D) Select the study data to move.
- (E) Select the Move To button.

04

Search

It can input conditions to search the Patient and Exam for Operator in examining items.

- 1 **Patient ID:**
Input Patient ID to search.
- 2 **Patient Name:**
Input Patient Name to search.
- 3 **Accession Number:**
Input Accession Number of Study to search.
- 4 **Study Description:**
Input Description of Study to search.
- 5 **Body Part:** Select Bodypart of Study to search.
- 6 **Schedule:**
Select the starting and ending date to search. It is possible to search quickly, by using irradiating Date.
 - a Today: Rapid search for acquired image taken that day
 - b Yesterday: Rapid search for acquired image being taken on the current date and the day before.
 - c 1 Week: Rapid search for acquired image during a week.
 - d Manual: Rapid search for images being taken for the search duration that a user sets.

The screenshot shows a 'Query' search form with the following fields and callouts:

- 1: Patient ID input field
- 2: Patient Name input field
- 3: Accession Number input field
- 4: Study Description input field
- 5: Bodypart dropdown menu with a checkbox
- 6: Schedule section containing two date input fields (2020-12-10 and 2020-12-15) and four radio buttons labeled TODAY, YESTERDAY, 1 WEEK, and MANUAL.

Note

After checking the no. ⑤ checkbox, select the desired body part in the combo box.

05

Tools

- 1 **Open**
It enables opening the selected image (marked in Thumbnail.).
- 2 **Backup**
It enables Backup of the Database folder to another storage device.
- 3 **Import**
It enables importing the external DCM file reading to the Database.
- 4 **Export**
It enables copying the DCM file of the selected image to another storage device. The viewer is copied together, and the Burner is executed automatically when being copied to CD.
- 5 **Send**
It enables sending the selected image to PACS Server.



06

Server

It is possible to select /edit the PACS server that images are sent to.



07

Button for Going to Another Screen

① **Worklist**

It is able to go to the Worklist window.

② **Database**

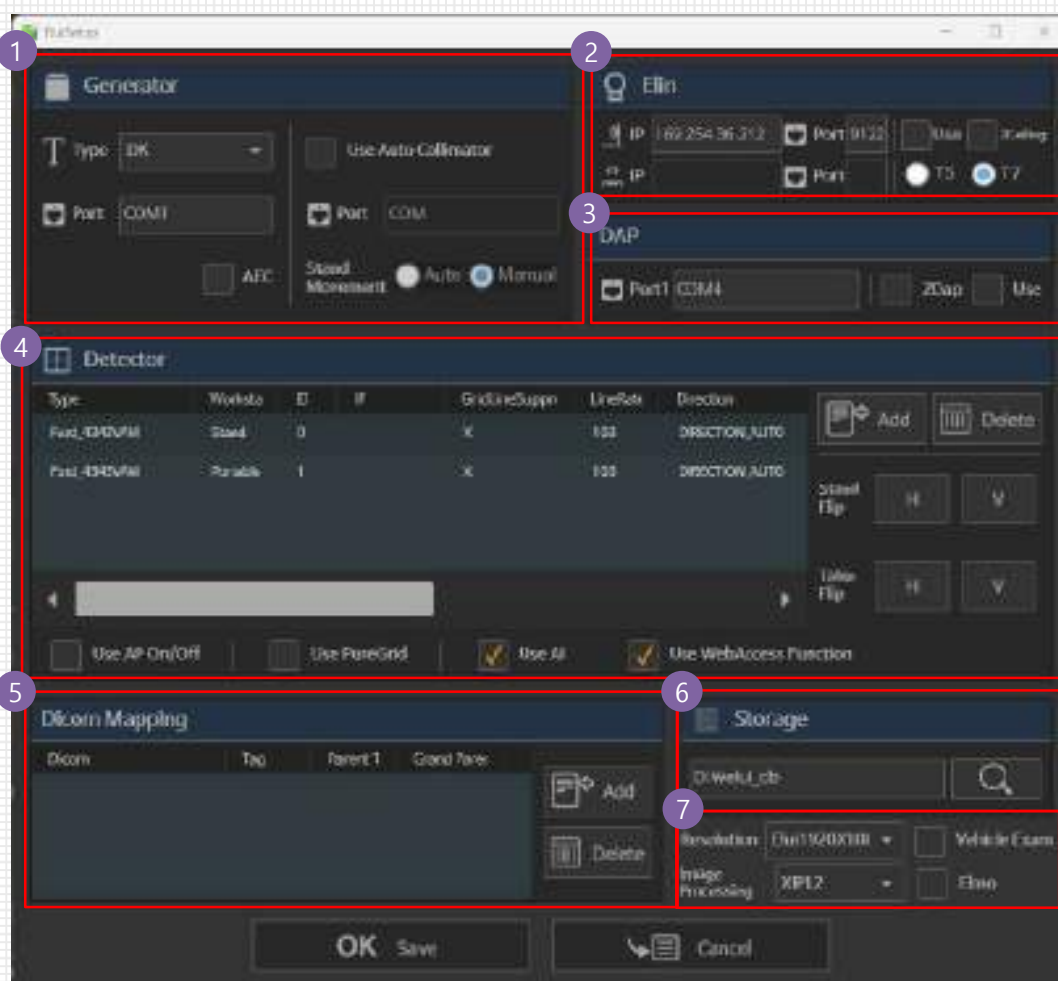
It is able to go to the Database window.

③ **Menu**

It is able to see items and select the menu.



2.4 Elui-Setup



- ① Set Generator and Collimator
- ② Set Elin
- ③ Set DAP
- ④ Set Detector
- ⑤ Set Dicom Mapping
- ⑥ Set Storage
- ⑦ Set Others

01

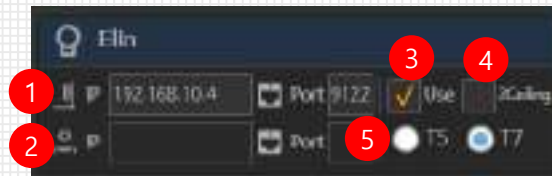
Generator



- 1 Select Type in Generator.
- 2 Input COM Port information connected with Generator.
- 3 If Generator Type is "SH", it displays and 8 windows show up.
- 4 When AEC is used, please check this.
- 5 When Generator Type is "SH", and Auto Collimator is adapted, it is checked.
- 6 If Auto Collimator is used, COM Port information should be input.
- 7 When Generator Type is "SH", set Movement Type in Stand Bucky.
- 8 When Generator Type is "SH", set followings.
 - IS 630R : When model 630R is used, check this.
 - Use APR : When APR is linked, check this.
 - Stand-Tube : Select Stand-Tube.
 - Table-Tube : Select Table-Tube.
 - Portable-Tube : Select Portable-Tube.
 - Portable Tech : Select Tech using with Portable..

02

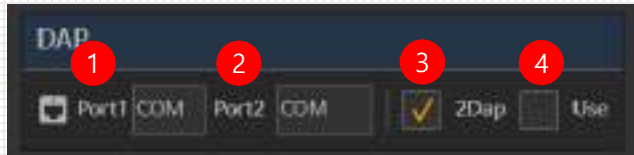
Elin



- 1 When linking with Elin, input IP number and Port number.
When linking with Elin 2-Ceiling, input IP and Port related to Stand Elin.
- 2 When linking with Elin 2-Ceiling, input IP and Port related to Table Elin..
- 3 When linking with Elin, check here.
- 4 When linking with Elin 2-Ceiling , check here.
- 5 Select Model of Elin. You may select T5 or T7.

03

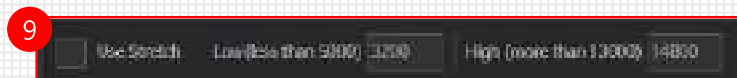
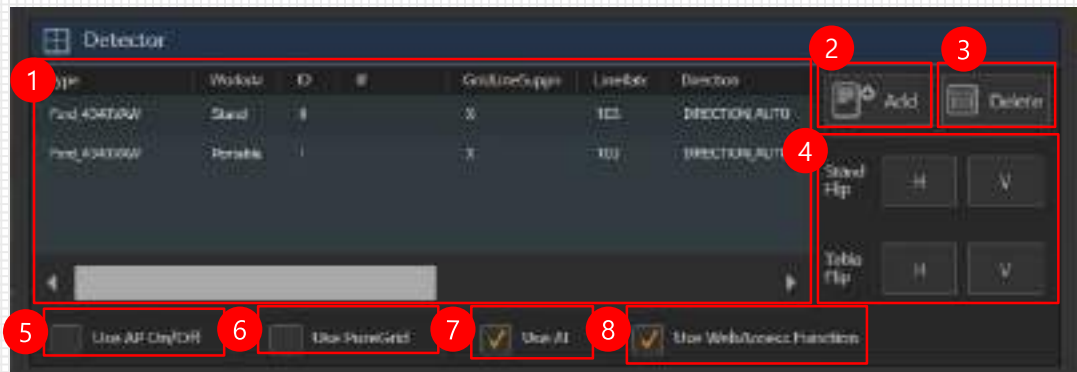
DAP



- 1 **Port1** : Input Com Port information of related DAP.
When using 2DAP, input COM port information of Stand DAP.
- 2 **Port2** : When using 2DAP, input COM port information of Table DAP.
- 3 **2DAP** : When Tube is used for Stand/Table separately with 2DAP, check this.
- 4 **Use** : When linking with DAP, check this.

04

Detector



- 1 **Detector List** : It displays Detector list.
- 2 **Add Detector** : It can add Detector. When 10 window is popped up, you can add Detector.
- 3 **Delete Detector**: You can delete Detector in Detector list.
- 4 **Flip** : It can set Flip H/V of Stand/Table Detector.
- 5 **Use AP On/Off** : When AP On/Off feature in SCU, check this.
- 6 **Use PureGrid** : It can set wheter to apply PureGrid to the detector.
- 7 **Use AI** : Check When using AI processing function.
- 8 **Use WebAccess Function** : Check when using the Web Access Function.
- 9 **Use Stretch** :It can apply Stitch feature for acquired images, it is possible to use this feature before V2.0.14.618 version.

10 Add Detector

- Type : It selects kinds of Detector to add up. It should select the same with actual model.
- Workstation : It selects Workstation of Detector to add up. It is selectable among Stand/Table/Portable/Portable2/LongBone.
- DetectorID : It inputs actual ID to add Detector. It inputs ID to display on VivixSetup.
- IP : It is not mandatory to input Detector ID to add up.
- Use Web Access Function : Select whether to use the Web Access Function for each Detector. When used, NickName can be set.
- Select whether to use the GridLineSuppression frction for each detector. When used, LineRate/Direction/Strength Values can be set.
- Use Detector AEC : Select to use AEC for each Detector.



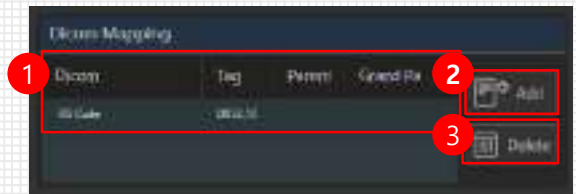
Note

It is possible to use Stand / Table Type simultaneously with one detector. At adding Detector, the Workstation should be different and input the same Type and Detector ID.

05

Dicom Mapping

Dicom Mapping is a function used when RIS Code / Code Description information comes from a tag other than the preset tag during Worklist Query.



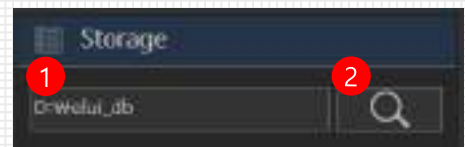
- 1 It displays Dicom Mapping list.
- 2 It can add Dicom Mapping. 4 Window is displayed.
- 3 The selected item in Dicom Mapping list can be deleted.
- 4 Add DicomMapping
 - Dicom ID : It selects the item to change Tag value.
 - Tag : Input Tag ID to change.



06

Storage

- 1 It displays Storage path.
- 2 It can change Storage path..



07

Others



- 1 **Resolution** : It selects Resolution.
- 2 **Image Processing** : It selects Image Processing Type.
- 3 **Vehicle Exam** : When it is used for Vehicle mode, check this.
- 4 **Elmo** : When it is used under Vehicle circumstances, check this.

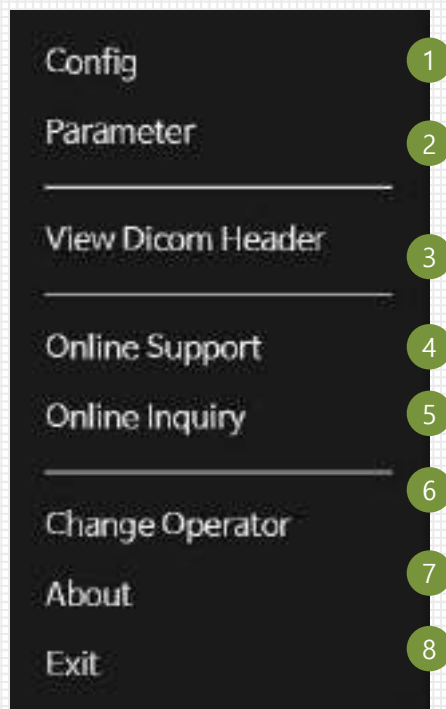
This page is blank.

Chapter 3

Menu

3.1 Main Menu

3.1 Main Menu



- ① **Configuration:** It sets up the necessary factors to operate the program.

Note

Some functions are not available in the user mode.

- ② **Parameter**

It enables setup of Annotation, Generator factor value, and Processing factor value for each applied Body Part, and carrying on the code matching.

Note

Some functions are not available in the user mode.

- ③ **View DICOM Header:** It enables viewing the Header of DCM file.

- ④ **Online Support :** It enables using the remote access program. Regarding settings of the program, it can be conducted in the 'Configuration'.

- ⑤ **Online Inquiry :** it can go to inquiry on the website.

- ⑥ **Change Operator:** It enables changing a user.

- ⑦ **About:** It displays the program title and version.

- ⑧ **Exit:** It closes the program.

Chapter 4

Configuration

4.1 Worklist

4.2 Exam

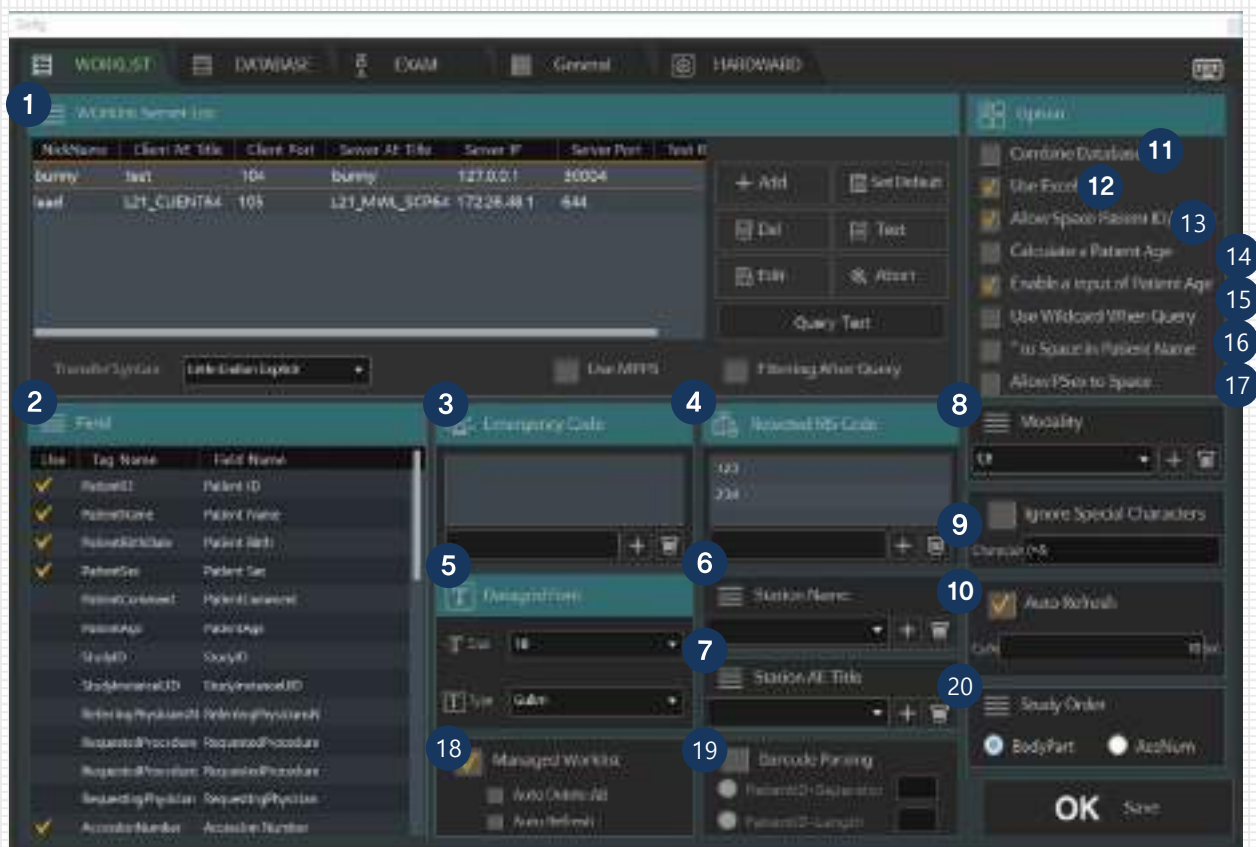
4.3 Database

4.4 General

4.5 Hardware

4.1 Worklist

It enables setting the Server Environment and Client Environment for using DICOM Worklist.



- ① Worklist Server List
- ② Field
- ③ Emergency Code
- ④ Rejected RIS Code
- ⑤ Data Grid Font
- ⑥ Station AE Title
- ⑦ Station Name
- ⑧ Modality
- ⑨ Character
- ⑩ Auto Refresh

- ⑪ Combine Database
- ⑫ Use Excel
- ⑬ Allow Space Patient ID/Name
- ⑭ Calculate a Patient Age
- ⑮ Enable a input of Patient Age
- ⑯ Use Wildcard When Query
- ⑰ ^ to Space in PatientName
- ⑱ Managed Worklist
- ⑲ Barcode Parsing
- ⑳ Study Order

01

Worklist
Server List

Set the Server Environment to supply the DICOM Worklist service.

- | | |
|---|--|
| <p>1 Nick Name : It displays NickName.</p> <p>2 Client AE Title: It displays Client AE Title.</p> <p>3 Client Port: It displays Client Port.</p> <p>4 Server AE Title: It displays Server AE title.</p> <p>5 Server IP: It displays Server IP.</p> <p>6 Server Port: It displays Port.</p> <p>7 Test Result:
It displays test status of connection with the server (C-Echo).</p> | <p>8 Add: It adds new Server setup.</p> <p>9 Delete: It deletes the selected server setup.</p> <p>10 Edit: It edits selected server setup.</p> <p>11 Set Default:
It sets the selected server as a Default.</p> <p>12 Test:
It checks the normal operation with the server (C-Echo).</p> <p>13 Abort : It cuts the connection with the server.</p> |
|---|--|

02

Field

Select items to display as Field in Worklist.

- | | |
|--|---|
| <p>1 Patient ID</p> <p>2 Patient Name</p> <p>3 Patient Birth Date</p> <p>4 Patient Sex</p> <p>5 Patient Comment</p> <p>6 Patient Age</p> <p>7 Study ID</p> <p>8 Study Instance UID</p> <p>9 Referring Physicians Name</p> <p>10 Requesting Physician</p> <p>11 Requested Procedure Description</p> <p>12 Admission ID</p> <p>13 Current Patient Location</p> <p>14 Worklist Modality</p> <p>15 Scheduled Station AE Title</p> <p>16 Scheduled Procedure Step Start Date</p> <p>17 Scheduled Procedure Step Start Time</p> | <p>18 Scheduled Procedure Step ID</p> <p>19 Code Value</p> <p>20 Code Meaning</p> <p>21 Scheduled Performing Physician Name</p> <p>22 Scheduled Procedure Step Description</p> <p>23 Scheduled Station Name</p> <p>24 Accession Number</p> <p>25 Scheduled Procedure Step Location</p> <p>26 Pre Medication</p> <p>27 Scheduled Procedure Step Status</p> <p>28 Comments On The Scheduled Procedure Step</p> <p>29 Requested Procedure ID</p> <p>30 Requested Procedure Location</p> <p>31 Requesting Service</p> <p>32 Patient institution Residence</p> <p>33 Worklist Status</p> |
|--|---|

Note

It is possible to set whether to display them on the screen.

04. Configuration

03

Emergency
Code

It is the feature to add the study in advance that will be seen automatically, without worklist. Emergency mode only.

Note

- ※ For example, there is no need to add View Position separately if the applied code is added, in case of irradiating Chest PALAT prescription many times under Emergency.
- ※ It is addable, and erasable.

04

Reject RIS Code

It is the feature to add RIS Code in advance that needs to be hidden from the Worklist. For example, if RIS Code of different modality is displayed, it is able to make invisible from the Worklist, by inputting applied code in this item.

05

Data Grid Font

It enables selecting /editing the Font Size and Type of Worklist.

Also you can set the Font size by placing the mouse cursor on Worklist and moving the mouse wheel up & down under holding down the Control key on the keyboard.

06

Station AE Title

It enables selecting the Station AE Title to search on the Worklist Server, when doing Query. Station AE Title values can be Add / Delete.

07

Station Name

It enables selecting the Station Name to search on the Worklist Server when doing Query in CR/DX.

08

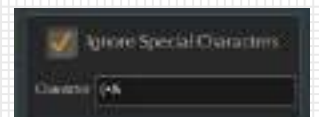
Modality

It enables selecting the Modality to search on the Worklist Server, when doing Query.

09

Character

In case of doing Worklist Query, this feature enables displaying all characters except some special characters encoded herein this item.



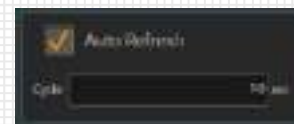
Note

- ※ If Checking 'Add Special characters', Special Characters in Configuration – Worklist will be disregarded.
- ※ It is applied only to Patient ID, Patient Name, RIS Code, Code Description.

10

Auto Refresh

On the basis of interval that was encoded in Cycle, the system will conduct the Worklist Query automatically.



11

Combine Database

If checking the Combine Database, the system will search the study data in DB and will load the same patient's study on the Exam. screen, when selecting a study data from the Worklist and entering the Exam. Screen.

12

Use Excel

It activates the function of importing Excel file. (Refer to between 2.1 to 2.8 in the Chapter 2)

13

Allow Space Patient ID/Name

If checking, it allows Space in Patient ID/Name value.

If it is unchecked, it deletes all Space in Patient ID/Name value coming at querying Worklist. And blank input is disabled when inputting in New Patient window.

14

Calculate a Patient Age

Age is calculated and saved based on the date of birth without using Age value in the Worklist Query.

15

Enable a input Of Patient Age

If checked, text box is added to input age in New Patient screen as below.



04. Configuration

16

Use Wildcard When Query

If checked, Patient ID/Name value with adding Wildcard * is querying at worklist Query.

If querying with adding *, all searching result including value before * displayed. For example, if inputting 'Hong' before patient name and querying patient name, patient name starting 'Hong' will be displayed.

17

^ to Space in Patient Name

^ (Circumplex Mark) is treated as blank in Patient Name.

18

Managed Worklist

It is a function to manage order information coming from the server at worklist query.

- The order from server is saved, so you can see the order even if the server is not connected.
- For the order proceeded irradiation, it does not show on screen after classifying the status. (Ready Mode)
- There is a 'Delete' feature, so a once deleted order can not be seen on screen even if querying again.
- If you do not use the Managed Worklist function, the Order list is displayed as it is received from the server..

Auto Delete All – If checked, all existing list will be deleted each time you query. If unchecked, the user should delete the list periodically.

Auto Refresh – If checked, Query will be performed every time you return to the Worklist screen.

19

Barcode Parsing

It is a function to parse the Patient ID from the input value when a barcode is entered in the Worklist – Query – Patient ID. It can choose between Separator/Length.

PatientID-Separator : Enter the separator to classify PatientID from the value entered as a barcode.

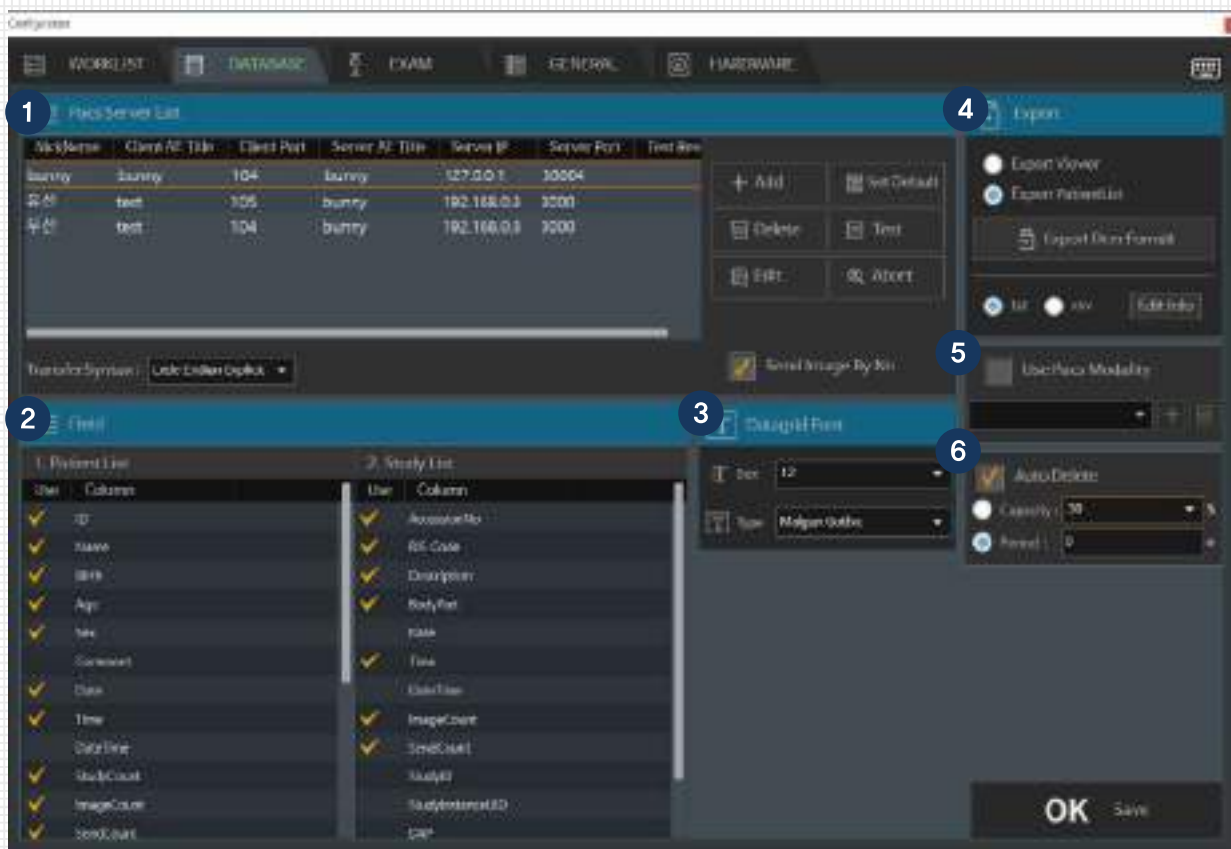
PatientID-Length : Enter the length of the PatientID from the value entered as a barcode.

20

Study Order

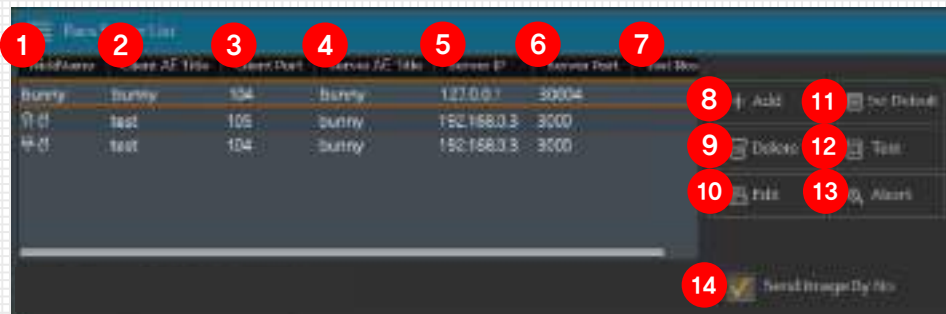
If there are multiple orders, It can select the sorting method (BodyPart, Accession Number) of the exam mode list study.

4.2 Database



- 1 PACS Server List
- 2 Field
- 3 Use PACS Modality
- 4 Auto Delete
- 5 Data Grid Font
- 6 Export

01

PACS
Server List

It is able to set the Server environment for DICOM Send.

- | | |
|--|---|
| 1 Nick Name: It displays Nick Name. | 8 Add: It adds new Server setup. |
| 2 Client AE Title: It displays Client AE Title. | 9 Delete: It deletes the selected server setup. |
| 3 Client Port: It displays Client Port. | 10 Edit: It edits selected server setup. |
| 4 Server AE Title: It displays Server AE title. | 11 Set Default:
It sets the selected server as a Default. |
| 5 Server IP: It displays Server IP. | 12 Test (Active):
It checks the normal operation with the server (C-Echo). |
| 6 Server Port: It displays Port. | 13 Abort (Active):
It cuts the connection with the server. |
| 7 Test Result:
It displays test status of connection with the server (C-Echo). | 14 Send Image By No :
When you send and close in Exam Mode, the images are sent in Sending Order (number) rather than examined order. |

02

Field

It is able to choose whether to show fields on the Patient / Study list.

1. Fields in Patient List

- | | |
|-----------------------------|---------------------------|
| 1 Patient ID | 9 Patient DateTime |
| 2 Patient Name | 10 StudyCount |
| 3 Patient Birth Date | 11 ImageCount |
| 4 Patient Age | 12 SendCount |
| 5 Patient Sex | 13 Lock |
| 6 Patient Comment | 14 Company |
| 7 Patient Date | 15 ID(Number) |
| 8 Patient Time | 16 DAP |
| | 17 RequestDepart |
| | 18 ExportCount |
| | 19 VehicleID |

2. Fields in Study List

①	Study Access No	⑧	Study Image Count
②	Study RIS Code	⑨	Study Send Count
③	Study Description	⑩	Study ID
④	Study Bodypart	⑪	Study InstanceUID
⑤	Study Date	⑫	DAP
⑥	Study Time	⑬	Request Depart
⑦	Study DateTime		

Note

It is possible to set the choice of Display.

03

Data Grid Font

It is able to select the font type and size of **Patient / Study Lists**.

Also you can set the Font size by placing the mouse cursor on Patient/Study list and moving the mouse wheel up & down under holding down the Control key on the keyboard.

04

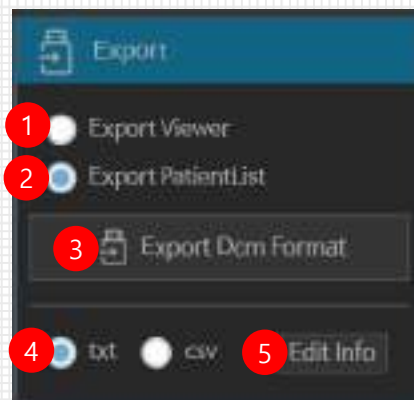
Export

① **Export Viewer** : At Exporting, Viewer is copied together and it can be confirmed with executing Viewer. (refer to Chapter 8 about Viewer)

② **Export PatientList** : At Exporting, ExportList.txt file which Exported patient information with DCM file is saved in is saved together. The format to be saved is txt or csv.

③ **Export Dcm Format**
② When selecting the Export PatientList option, you can set the file name format of the exported dcm file. Clicking the button displays the screen on ⑥ window.

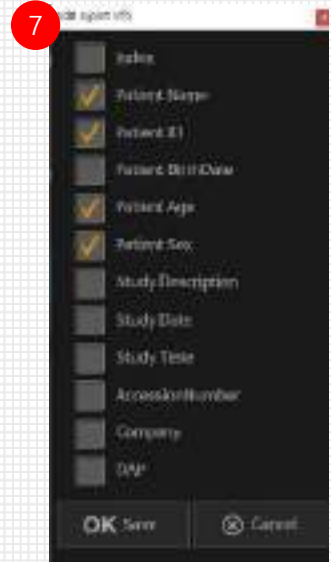
In Window ⑥, you can set the desired file name format in the right Use List. Set the desired information and order and press 'OK' to save the file name as set..



04. Configuration

- 4 txt / csv :**
When exporting the PatientList file, specify the file format to be saved.
If you select txt, it is saved as a text file that can be opened in Notepad.
If you select with csv, it is saved as a text based Excel file which can be opened in Excel.

- 5 Edit Info :**
When clicking the 'Edit Info' button, you will see **7** window. When saving the PatientList file, set the patient information saved.
If you check the information that you want to save, it will be saved in order.



05

Use PACS Modality

- It is the setting for whether to store the Modality value additionally, when saving DICOM file.
- If not checked, the Modality will be saved as the Worklist Query's data.
- If checked, the system will save the selected Modality.

06

Auto Delete

- It sets the automatic Delete for Hard Disk Capacity Management in Workstation.
Automatic deletion begins when you exit the Elui program.

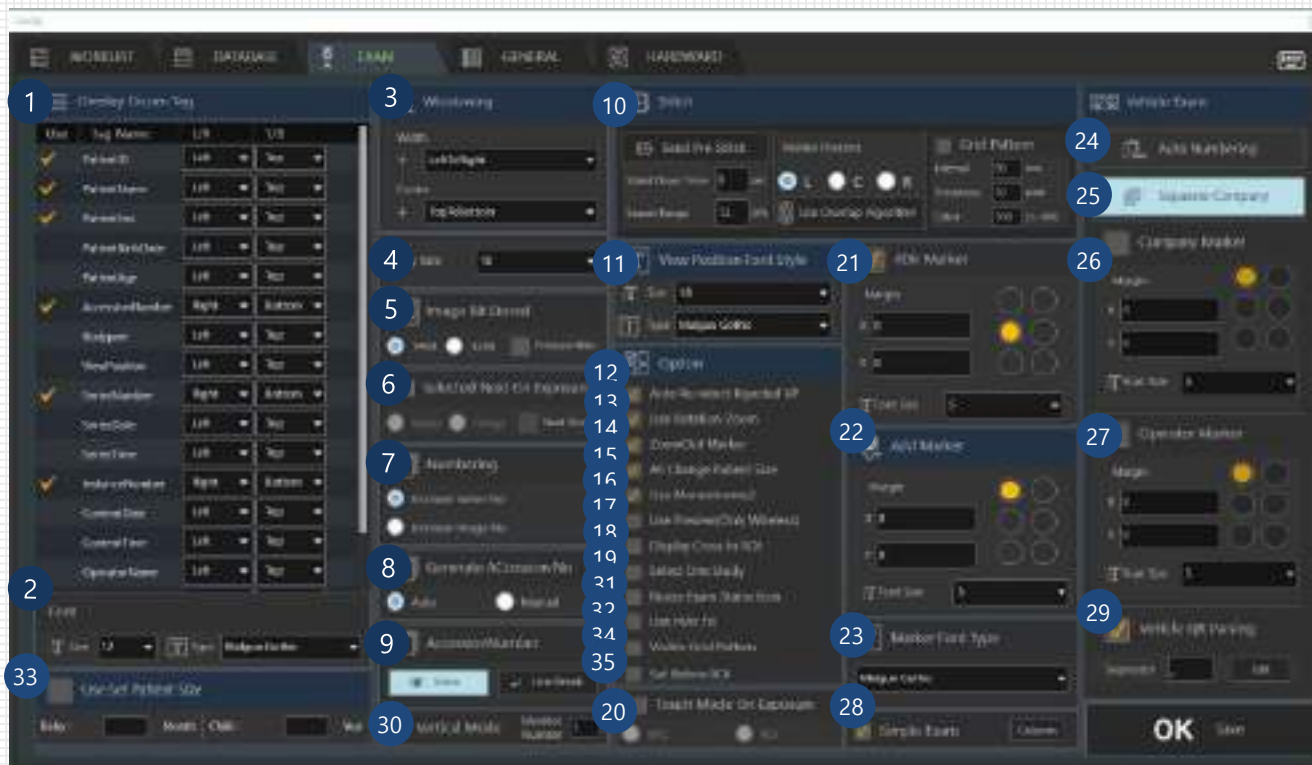
- 1 Auto Delete**
If not checked, It does not delete automatically.
If checked, the selected option is deleted automatically.



- 2 Capacity**
: If the stored capacity is bigger than the set capacity, it is automatically deleted.
If automatic deletion starts, it deletes 10% of the total capacity per each.

- 3 Period**
: Only the set period will be saved, and the rest will be automatically deleted.
It is possible to enter weekly.

4.3 Exam



- | | |
|------------------------------|-------------------------------|
| ① Overlay DICOM Tag | ①7 Use Preview(Only Wireless) |
| ② Font | ①8 Display Cross In ROI |
| ③ Windowing | ①9 Select One Study |
| ④ Verify Rate | ②0 Touch Mode On Exposure |
| ⑤ Image Bit | ②1 4Dir Marker |
| ⑥ Select Next On Exposure | ②2 Add Marker |
| ⑦ Numbering | ②3 Marker Font Type |
| ⑧ Generate Accession No | ②4 Auto Numbering |
| ⑨ Accession No | ②5 Separate Company |
| ⑩ Stitch | ②6 Company Marker |
| ⑪ View Position Font Style | ②7 Operator Marker |
| ⑫ Auto Re-select Rejected VP | ②8 Simple Exam |
| ⑬ Use Rotation-Zoom | ②9 Vehicle QR Parsing |
| ⑭ ZoomOut Marker | ③0 Vertical Mode |
| ⑮ All Change Patient Size | ③1 Resize Exam Status Icon |
| ⑯ Use Monochrome2 | ③2 Use mAs Fix |
| | ③3 Use Set Patient Size |
| | ③4 Visible Grid Pattern |
| | ③5 Set Before ROI |

04. Configuration

01

Overlay DICOM Tag

It is able to select the information that will be seen with an image.

- ① Patient ID
- ② Patient Name
- ③ Patient Sex
- ④ Patient Birth Date
- ⑤ Accession Number
- ⑥ Bodypart
- ⑦ View Position
- ⑧ Series Number
- ⑨ Series Date
- ⑩ Series Time
- ⑪ Instance Number
- ⑫ Content Date
- ⑬ Content Time
- ⑭ Operator Name
- ⑮ Institution Name
- ⑯ DAP

Use	Name	L/R	T/B
<input checked="" type="checkbox"/>	PatientID	Left	Top
<input checked="" type="checkbox"/>	PatientName	Left	Top
<input checked="" type="checkbox"/>	PatientSex	Left	Top
<input type="checkbox"/>	PatientBirthDate	Left	Top
<input type="checkbox"/>	PatientAge	Left	Top
<input checked="" type="checkbox"/>	AccessionNumber	Right	Bottom
<input type="checkbox"/>	Bodypart	Left	Top
<input type="checkbox"/>	ViewPosition	Left	Top
<input checked="" type="checkbox"/>	SeriesNumber	Right	Bottom
<input type="checkbox"/>	SeriesDate	Left	Top
<input type="checkbox"/>	SeriesTime	Left	Top
<input checked="" type="checkbox"/>	InstanceNumber	Right	Bottom
<input type="checkbox"/>	ContentDate	Left	Top
<input type="checkbox"/>	ContentTime	Left	Top
<input type="checkbox"/>	OperatorName	Left	Top
<input type="checkbox"/>	InstitutionName	Left	Top
<input type="checkbox"/>	DAP	Left	Top

Note

Possible to specify position by selecting Left / Right and Top / Bottom, You can set whether to display or not by checking the Checkbox of the 'Use' Column.

02

Font

It is able to change the type of Font Size / Type of 01. Overlay DICOM Tag

03

Windowing

When windowing an image, it is able to set the direction of increment/decrement of Width/Center. Movement to the left and right will change the Width (Contrast), and to up and down will change the Center (Brightness).

04

Verify Rate

It is able to select the variation when verifying an image in Exam Mode. It is able to select from 1 to 19; the higher value makes the width larger.

05

Image Bit

It is able to set the bit to save image at saving DCM file. (Between 14bit or 12bit)

06

Select
Next on
Exposure

In the Exam Mode, it is able to set whether to do an automatic selection to the next View Position. It is about the selection of View Position that will automatically selected after the exposure is completed.

- ① **Series**
It enables selecting the next View Position automatically.
- ② **Group**
It enables selecting automatically the View Position as the same with that of Workstation (Stand/Table/Portable).
- ③ **Next Study**
If selecting the option, immediately after image acquisition, if the image acquisition of all view positions in the study is completed, it is automatically selected as the first view position in the next study.

07

Numbering

It is able to set numbering the images for a procedure.

- ① **Increase Series Number:** Tagging image numbers as of series number.
(Image No. is fixed as 1.)
- ② **Increase Image Number:** Numbering images as of image number.
(Series Number is fixed as 1.)

08

Generate
Accession
Number

At adding Study manually, it is able to select Auto/Manual for generating Accession Number.

09

Accession
Number

- ① **Show**
It select whether displaying the Accession Number in Checklist of Exam Mode.
- ② **Line Break**
It selects whether changing the line at displaying the Accession Number in Checklist of Exam Mode.

10

Stitch

It sets a Stitch feature

- ① **Send Pre-Stitch :**
It selects whether to send divided images.
- ② **Stand Down Time :** It sets a descending time for Stand Bucky automatically at Stand Stitch with the value interlocking with SH Equipment.
- ③ **Search Range :** It sets the Search Range value using on StitchApp basically.
- ④ **Marker Position :** Choose the default location of the cross markers to show the overlap in StitchApp.
- ⑤ **Use Overlap Algorithm :** Choose whether or not StitchApp uses the overlapping algorithm used.
- ⑥ **Grid Pattern :** Sets whether to automatically insert Grid Pattern into stitched images in StitchApp.
(Reference Ch.6) You can set the interval, thickness, and color of the Grid (1: black - 100: white).



04. Configuration

11

View Position Font Style

It is able to set a font type and size of View Position List.

Also you can set the Font size by placing the mouse cursor on View Position list and moving the mouse wheel up & down under holding down the Control key on the keyboard.

12

Auto Re-select Rejected VP

When rejecting an image, it is able to set whether to reselect the applied View Position automatically. If checking it, a position will be reselected automatically.

13

Rotation Zoom

If checking it, it reduces the image size to fit into the whole screen when rotating the image.

14

ZoomOut Marker

If checked, the size of marker will be reduced according to ROI size when saving dcm file. Adjust the size of the marker just after the image acquisition and the size of the ROI to make the marker size the same.

15

All Change Patient Size

If checked, changes made to other ViewPositions will be applied when changing the Patient Size in Exam Mode.

If unchecked, only the Patient Size of the selected ViewPosition is changed.

16

Use Monochrome2

If checked, video will be saved in Monochrome2 Type when saving dcm file.

If unchecked, the video will be saved in Monochrome1 Type.

17

Use Preview (Only Wireless)

Set whether to display the preview image of the image when the image is acquired with the wireless detector.

If checked, the initial image acquisition time decreases, but the final image acquisition time increases by about 1 second.

18

Display Cross In ROI

When checked, It can mark the center of the ROI with cross.

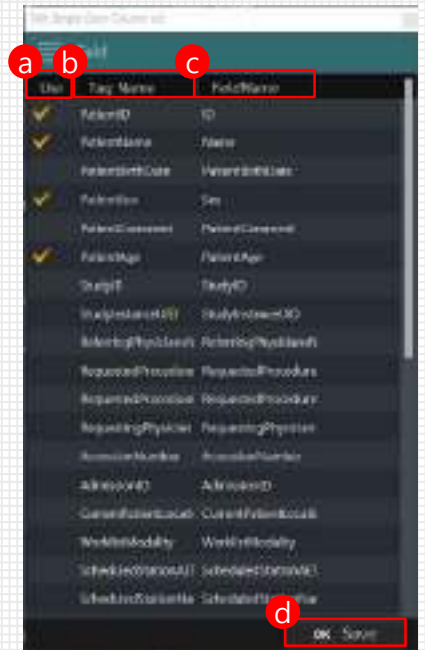
It is displayed When it click the mouse on the top of the ROI.



<p>19</p> <p>Select One Study</p>	<p>It can set the display method of Study and Series list in the Exam. If checked, only the study of the selected series is displayed. If unchecked, all studies are expanded and displayed.</p>
<p>20</p> <p>Touch Mode On Exposure</p>	<p>Set the touch Mode immediately after image acquisition in the touch environment. If checked, It is set to the selected Mode every time an image is acquired. If unchecked, the last selected Mode is maintained.</p>
<p>21</p> <p>4Dir Marker</p>	<p>Transform information of an image can be inserted into an image in the form of a marker. If checked, a "4" direction indicator is added each time an image is acquired, and information applied to Transform(Flip/Rotation) is displayed.</p>
<p>22</p> <p>Add Marker</p>	<p>When you add a marker in Exam Mode, you can set the position and font size on the marker.</p>
<p>23</p> <p>Marker Font Type</p>	<p>It is able to set a font type of Marker that will be displayed together with an image.</p>
<p>24</p> <p>Auto Numbering</p>	<p>If checked, the next number of patients will be selected automatically after acquiring the image in Exam Mode for use in a vehicle.</p>
<p>25</p> <p>Separate Company</p>	<p>If checked, you will be examined per company in Exam Mode. If unchecked, exam can be proceeded without company classification. (Only separated by date)</p>
<p>26</p> <p>Company Marker</p>	<p>If checked, Company value will be added to the image marker when used for vehicles. You can also set the position and font size of the company marker.</p>
<p>27</p> <p>Operator Marker</p>	<p>If Checked, the operator name is added as a marker of the video when used for vehicle use. It can also set the position of the Operator Marker and the Font size.</p>
<p>28</p> <p>Simple Exam</p>	<p>Simple Exam</p> <p>- It can set whether to use simple exam mode and set the column.</p> 

04. Configuration

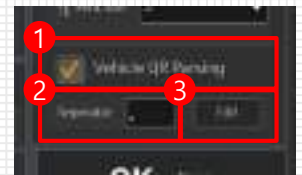
- 1 **Simple Exam** : Simple Exam Enable/Disable
- 2 **Column** : When using simple exam, select and set the worklist column displayed in exam mode.
 - a **USE** : Select a column to display in simple exam worklist.
 - b **Tag Name** : Display the type of column.
 - c **Field Name** : Change the name desired by the user for each column.
 - d **OK** : Save column Information.



29 QR Parsing

It can add or edit QR Code input information in vehicle exam mode.

- 1 Select whether to use Vehicle QR Parsing.
- 2 Separator : Set the separator of QR information to be input.
- 3 Edit : Set up the Column List to input with QR Code and display a pop-up window 4. It can select QR Parsing Mode.



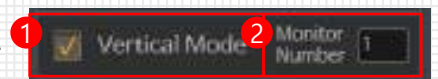
- a **Unuse** : It can set a list of unused patient information.
- b **Use** : It can set the list used patient information.
- c **Left/Right** : Change Unuse/Use Item.
- d **Up/Down** : Change the order of information to be parsed by QR.
- e **Mode** : Select QR Parsing mode.
- f **OK** : Save QR Parsing List.



30 Vertical Mode

Vertically long images like Longbone can be displayed on a Vertical Monitor.

- 1 If checked, a vertical screen can be displayed on the Exam.
- 2 You can enter the Number of Vertical Monitors installed.



31 Resize Exam Status Icon

If Font size is changed by entering ctrl + MouseWheel Event in Exam mode, It can set the size of the status icon to change as well.

32

Use mAs Fix

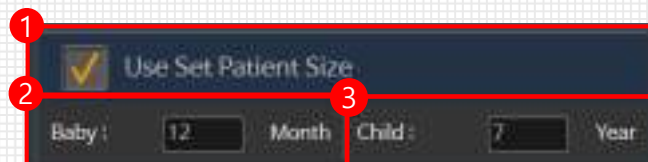
It can select either mA or mAs to fix the value and set mS or mAs to be adjustable.

- If Checked, when mA is Up/Down, mAs is fixed and the mS is Down/Up.
when mAs is Up/Down, the mS is Up/Down.
- If not checked, when mA or mS is Up/Down, the mAs is Up/Down.

33

Use Set Patient Size

When entering the exam, the Patient size type can be automatically set according to the patient size and age.



- Use : Select whether to automatically set the Patient Size according to the patient age.
 - Baby : it can enter and save the number of months to be set as baby.
 - Child : it can enter and save the age to be set as Child.
- ex) When set to baby under 12 months, and child over 12 months but under 7 years of age
= Baby : 12 Month / Child : 7 Year

34

Visible Grid Pattern

It can change the size of the ROI and Set whether to display the Grid Pattern when moving the position.

- If Checked, the Grid Pattern will be displayed even when ROI Click.
- If Unchecked, the Grid Pattern will not be displayed when it click on the ROI, and Grid Pattern will be displayed when it unclick.

35

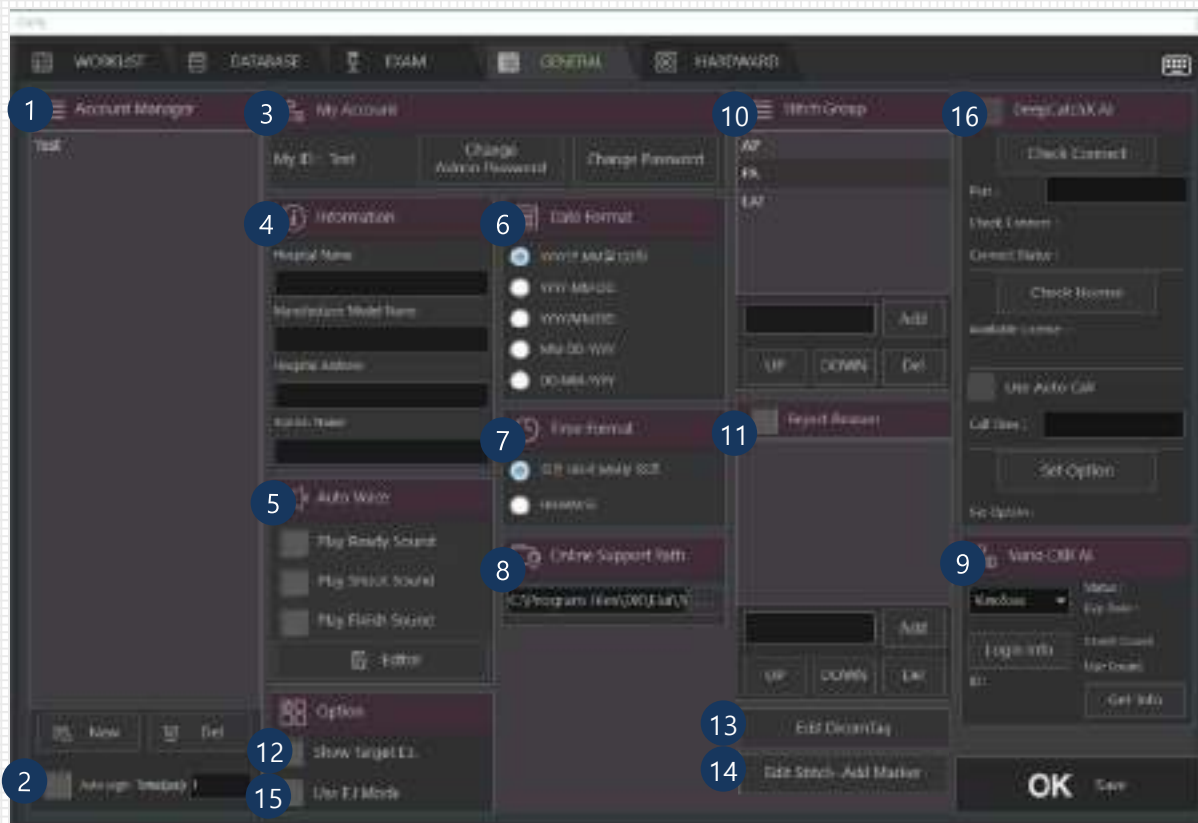
Set Before ROI

It can copy and apply the first test ROI Size of the same study by double click on the roi.

본 페이지는 공백입니다.

4.4 General

It is able to input operator's list and hospital name and designates a date format.



- ① **Account Manager** : Displays a list of operators that can log in.
You can also add or delete Operators. (Admin Mode)
- ② **Auto Login** : After executing the program, if the set time is exceeded while the login screen is displayed, this is a function to log in automatically.
- ③ **My Account**: It can show the current logged ID and change Password.
- ④ **Hospital Information**: Hospital name.
- ⑤ **Auto Voice** : It can set guidance voice when shooting chest.
- ⑥ **Date Format**: It designates format to display Date.
- ⑦ **Time Format**: It designates format to display Time.
- ⑧ **Online Support Path**: It sets Remote Program.
- ⑨ **Vuno CXR AI** : It sets Vuno CXR AI.
- ⑩ **Stitch Group** : It can add or delete Stitch Group name and change the order.
- ⑪ **Reject Reason** : It can create a Reject Reason. It can select reject reason when reject to image.
- ⑫ **Show Target E.I** : Target E.I for each study/view position can be displayed in the parameter window.
- ⑬ **Edit DicomTag** : It can set up and save the required Dicom Tag.
- ⑭ **Edit Stitch-Add Marker** : It can set the default position of the marker that add to the Stitch Image.
- ⑮ **Use E.I Mode** : Show the Calculate E.I Menu where you can calculate the E.I Value from an image without a subject.
- ⑯ **DeepCatchX AI** : DeepCatchX AI를 설정할 수 있습니다.

Vuno CXR AI

It can select and set an AI Model that predicts lesions with AI for chest.

1 AI Model

- It can select the desired AI Model.
- (VunoOnDevice, VunoSaasm DK)

2 Display model status

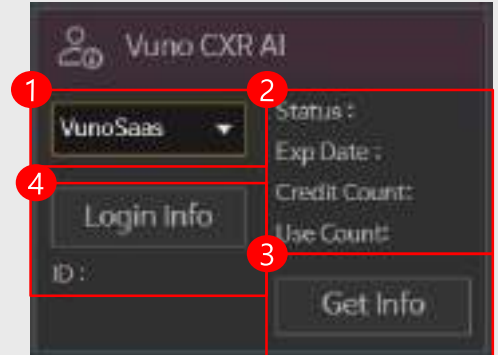
- Display Status, Exp Date, Credit Count, Use Count

3 Get Info

- It can get model information.

4 Login Info

- It is displayed when VunoSaas is selected among AI Models, and license information is imported.



a Password

- It can enter Login Info by entering account password.

b Login Info

- It can enter ID and Password.

c Login Test

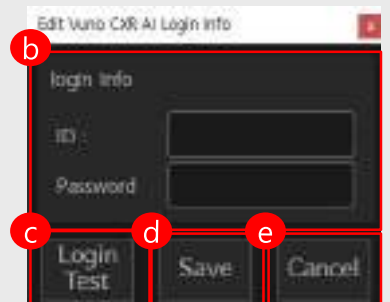
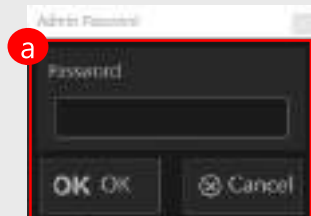
- It can test whether the login is complete.

d Save

- It can save the entered ID and password.

e Cancel

- Close the window without saving the entered ID and password.



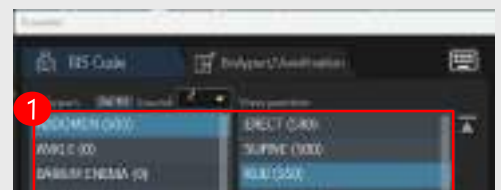
Note

※ A separate license entry is required to use AI Mode.
(Contact DK Medical system Customer support team)

Show Target E.I

Target E.I

- It can set to see the Target E.I value set in study/view position in the parameter dialog.

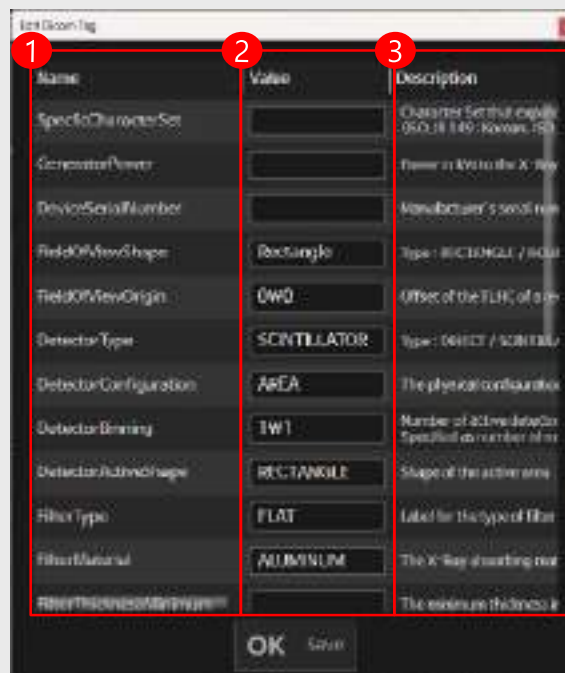


Edit Dicom Tag

Dicom Tag

- It can set up and save the required Dicom Tag.

- 1 Name**
 - Displays Dicom Tag name.
- 2 Value**
 - Set the value to be stored in each Dicom Tag.
- 3 Description**
 - Displays a description of each Dicom Tag.
- 4 Save ESD**
 - ESD Value is displayed immediately after image acquisition and stored in the dicom header.
- 5 Save ESE**
 - ESE Value is displayed immediately after image acquisition and stored in the dicom header.
- 6 Save SID**
 - SID Value is displayed immediately after image acquisition and stored in the dicom header.

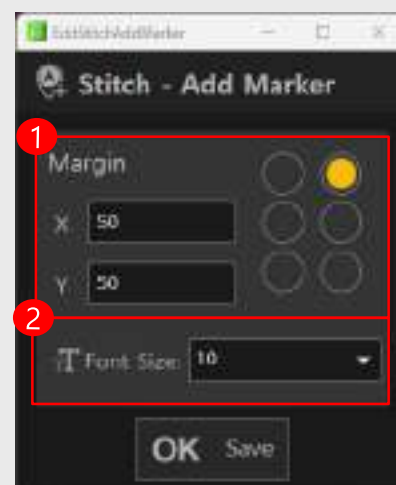


Edit Stitch-Add Marker

Stitch – Add Marker

- When add a marker in the Stitch image, it can set the default position and font size of the marker.

- 1 Margin**
 - It can set where to add markers.
- 2 Font Size**
 - It can set the font size for the marker.

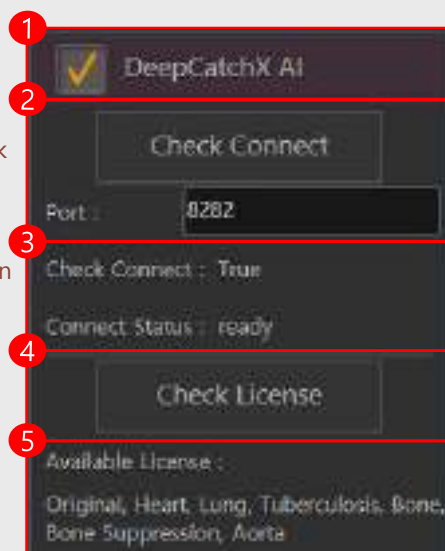


DeepCatchX AI

DeepCatchX AI

- The exam image is processed by AI to measure and display the size of the aorta, CT Ratio, and Lung Volume.

- 1 Use DeepCatchX**
 - Check Use DeepCatchX AI.
- 2 Check Connect**
 - After entering the DeepCatchX port, check the Connect status.
- 3 Connect Info**
 - Check Connect : Check the communication status with DeepCatchX Server.
 - Connect Status : Check the status of DeepCatchX Server.
- 4 Check License**
 - Get activated License information.
- 5 Available License**
 - Display activated licenses.

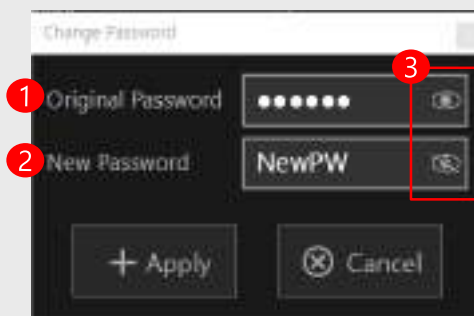


My Account - Change Password

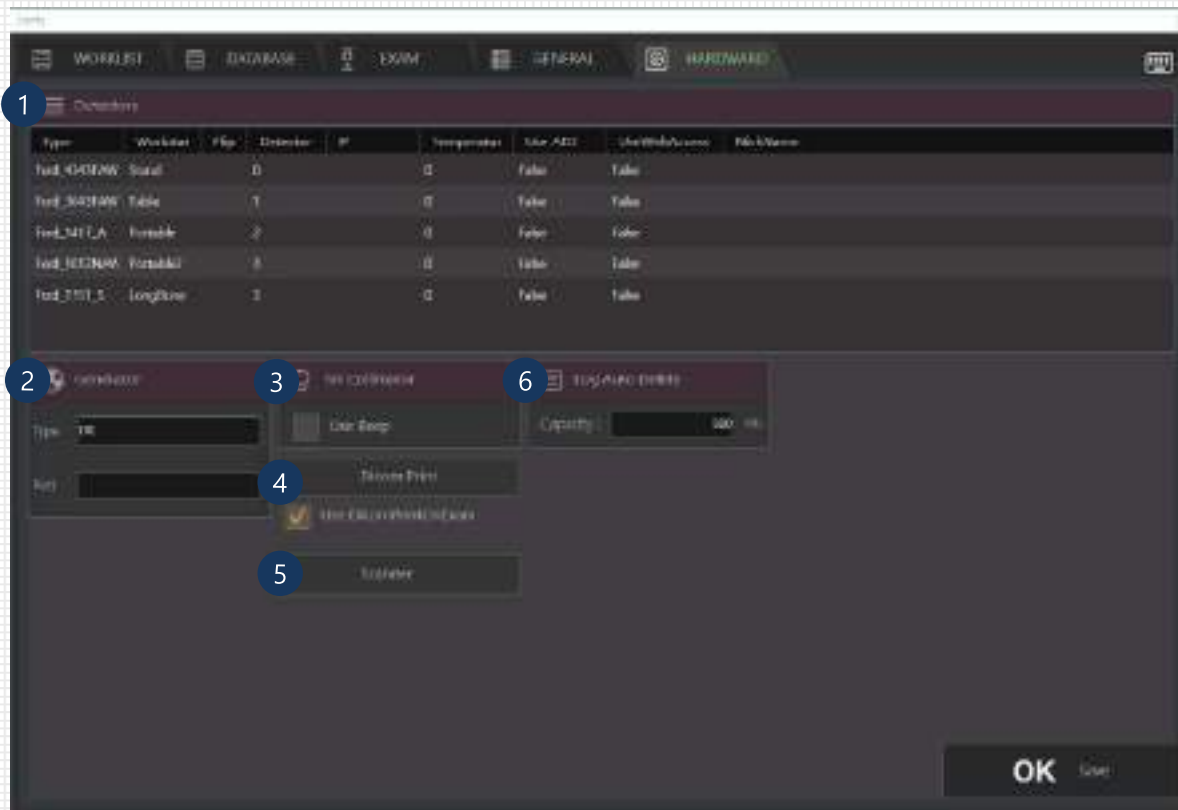
My Account

- It display the currently logged in ID, and It can change the password by clicking the [Change Password] button.

- 1 Original Password**
 - Enter the password for the currently logged in ID.
- 2 New Password**
 - Enter the New Password It want to change.
- 3 Show/Unshow Password**
 - It can show/hide the entered password by click the button to the right of the password input field.
 - **Show** (👁️) : If it is display with icon, the password is hidden. It Clicked the password is visible.
 - **Unshow** (🙈) : If it is display with icon, the password is visible. It clicked the password is hidden.



4.5 Hardware



- ① Detectors ② Generator ③ SH Collimator ④ DICOM Print ⑤ Scanner ⑥ Log Auto Delete

01

Detectors

It displays the information about the connected Detector.

- ① **Type:** Detector Type.
- ② **Workstation:** It displays setup about Stand/Table/Portable of each Detector.
- ③ **Flip:** It displays the Flip Horizontal choice of Detector.
- ④ **Detector ID:** Detector ID.
- ⑤ **IP:** It displays set IP of Detector.

02

Generator

It displays the Port and Type of connected Generator.

03

SH Collimator

It comes under only when linking SH Collimator. If checked, Beep Sound is made when Collimator Size is changed.

04

Dicom Print

A screen for setting up Dicom Print is displayed.

05

Scanner

A screen that allows you to make settings for the QR scanner is displayed.

06

Log Auto Delete

If the capacity of the Log folder exceeds the set Capacity, it will be automatically deleted.

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Chapter 5

Parameter

5.1 RIS Code

5.2 View Position for Body Part


5.3 Parameters for View Position

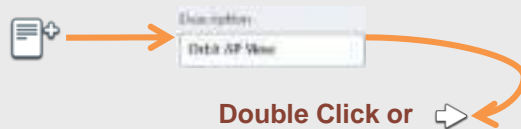
5.1 RIS Code



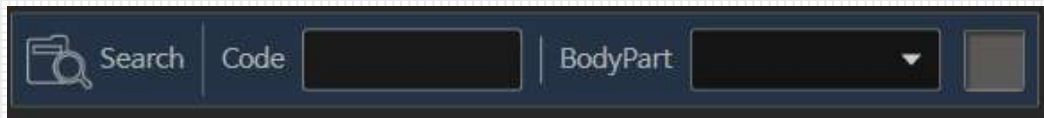
- ① Search
- ② Code List
- ③ Body Part /View Position setting for each Code
- ④ Setting Tab of Stitch Range

How To Match Codes

- ① Input RIS Code. (Add a new code)
- ② Select applied body part after confirming a code description.
- ③ It adds to Associated View Position by double clicking the applied View Position to Description in Master View Position for BODYPART or using .



01 Search



It is able to search a code by inputting a code name or selecting a body part.

02 Code

- ① **RIS Code:** It displays a hospital's own RIS Code that is synchronized with the Worklist.
- ② **Add New Code:** It enables adding new RIS Code item through an input window.
- ③ **Delete:** It enables deleting the selected RIS Code item from the list.
- ④ **Import :** Import the Ris Code list xml file.
- ⑤ **Add New Code:** Add new Ris Code entry through the input window.
- ⑥ **Delete:** Delete the selected ris code entry from the list.

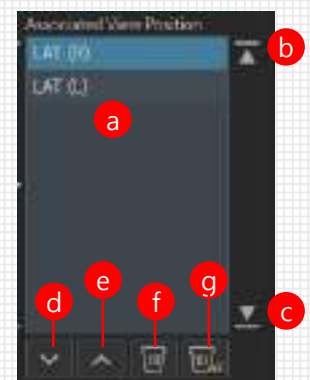


03 View Position Settings for Code

- ① **Description:** It shows the information on order of the selected RIS Code.
- ② **Body part:** It shows the information on body part of the selected RIS Code.
- ③ **Master View Position:**
It is able to check the Master View Position of the selected Body Part (shown in no. ②).
- ④ **Associated Codes:**
It shows the list of codes matched in the View Position.
- ⑤ **Associated View Position:**
Depending RIS Code, it shows the corresponding View Positions added.



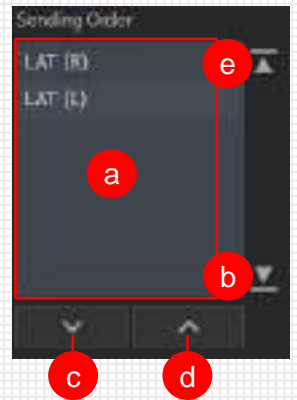
- a It shows the procedure order.
- b **Top:** It enables moving up the location of the selected View Position to the highest of the screen.
- c **Bottom:**
It enables moving the location of the selected View Position to the lowest of the screen.
- d **Down:**
It enables moving down the location of the selected View Position on the screen.
- e **Up:** It enables moving up the location of the selected View Position on the screen.
- f **Delete:** It deletes the selected View Position's item from the list.
- g **Delete All:** It deletes the whole items of View Position.



6 Sending Order

It decides the sending order of View Position that has matched codes.

- a** It displays the sending order.
- b Bottom:**
It enables moving the location of the selected View Position to the lowest of the screen.
- c Down:**
It enables moving down the location of the selected View Position on the screen.
- d Up:**
It enables moving up the location of the selected View Position on the screen.
- e Top:**
It enables moving up the location of the selected View Position to the highest of the screen.

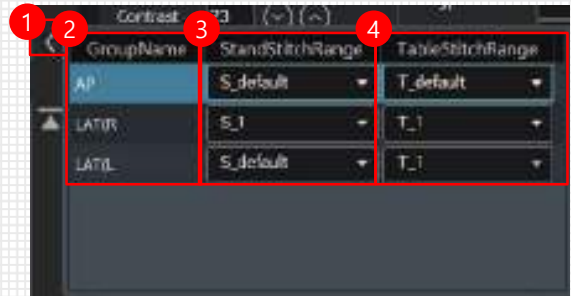


04

Stitch Range

Stitch Range

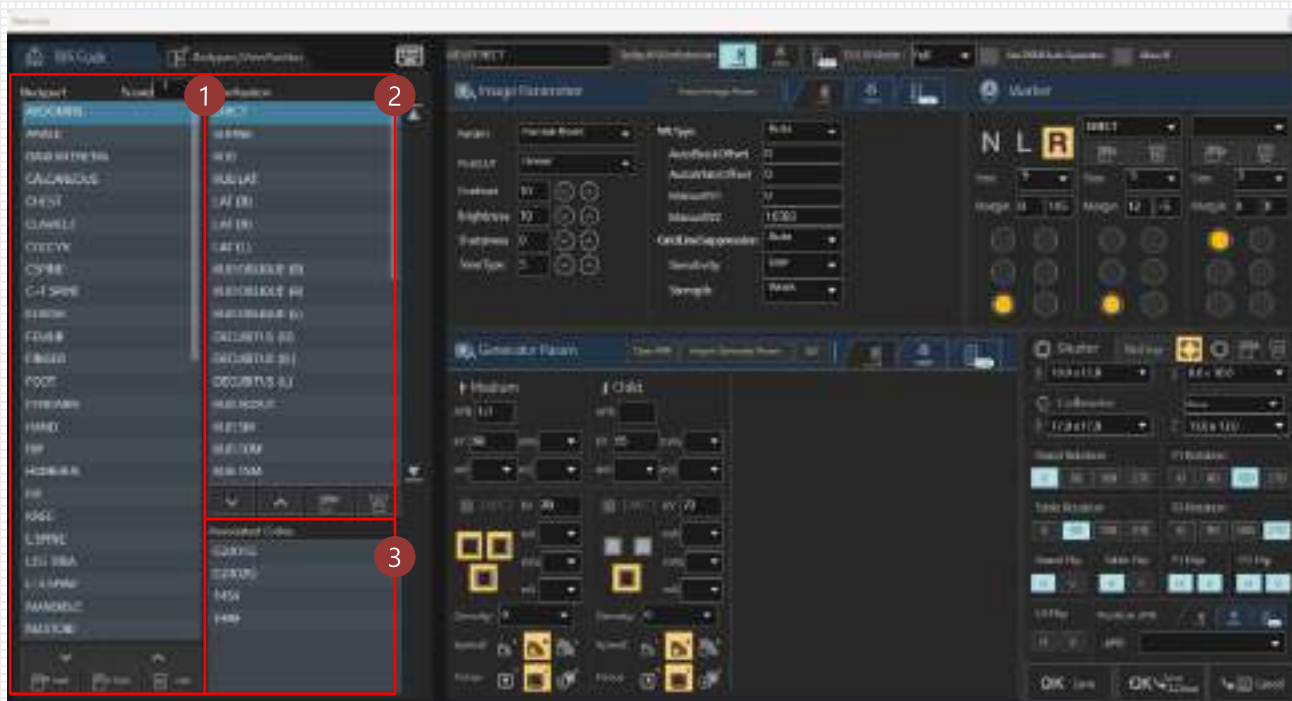
Get the StitchRange list form Elin-T7
Stitch Range by StitchGroup of study can be set.
(Cannot be used except for Elin-T7)



- 1 Stitch Range Open/Close**
: It can Open/Close the Stitch Range Setting tab.
- 2 Stitch Group** : Displays the Stitch Group name.
- 3 Stand Stitch Range** : Stand Stitch Range is displayed and the selection can be changed.(List only show Stand Stitch Range Set)
- 4 Table Stitch Range** : Table Stitch Range is displayed and the selection can be changed.(List only show Table Stitch Range Set)

5.2

View Position for Body Part



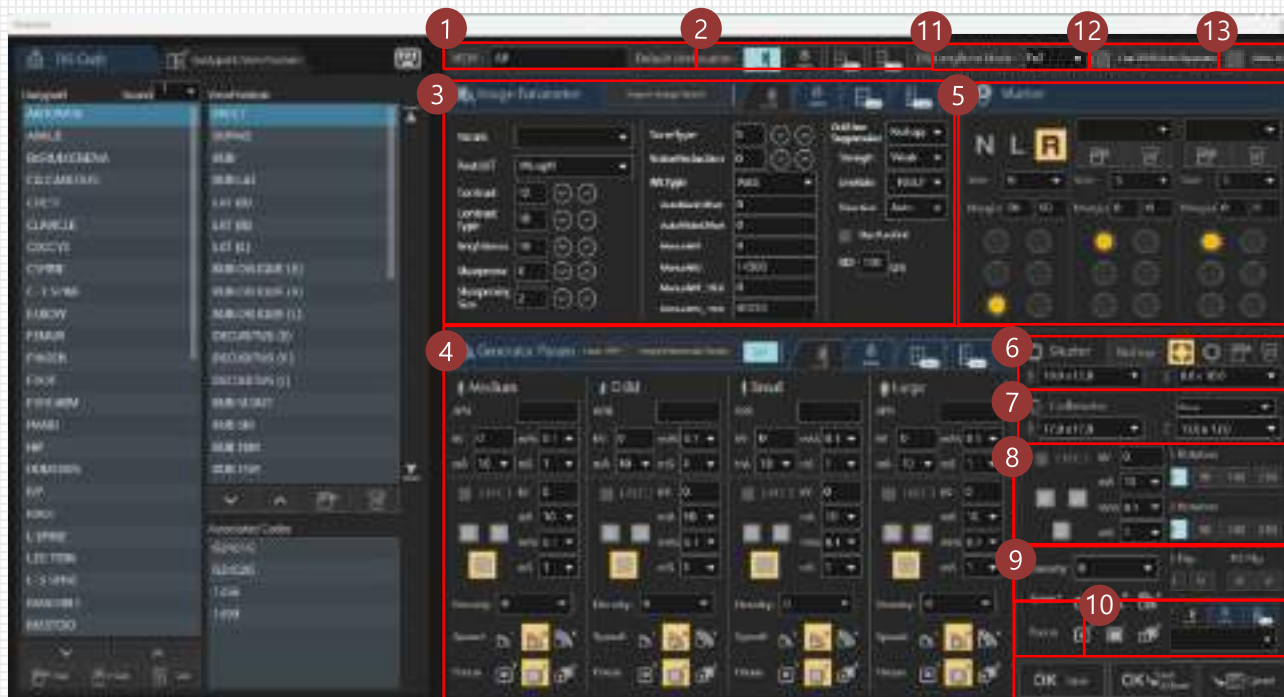
- 1 **Body part:** It displays the list of all data related to body parts. It is able to select a voice message depending on a body part. If having 'Ready' in Exam Mode, the corresponding voice message will be played.
 - No. 1 : Exhale deeply and hold your breath. Now, X-raying begins.
 - No. 2 : Inhale deeply and hold your breath. Now, X-raying begins.
 - No. 3 : Please do not move. Now, X-raying begins.
- 2 **View Position:** It will show a list of all View Positions of the selected Body Part.
- 3 **Associated Codes:** It is able to check which code is matched with the selected View Position.

Note

Not applicable in the User mode (only viewable)

5.3

Parameters for View Position



- | | |
|------------------------|----------------------------|
| 1 View Position Name | 8 Rotation |
| 2 Default Workstation | 9 Flip |
| 3 Image Parameters | 10 Position APR |
| 4 Generator Parameters | 11 LBDT - Partial Mode |
| 5 Marker | 12 Use DSLB Auto Separator |
| 6 Shutter | 13 Allow AI |
| 7 Collimator | |

Note

Not applicable in the User mode (only viewable)

01

View Position

Name

02

Default

Workstation

03

Image

Parameters

It displays the selected View Position name. You can also change it.

Displays the Default Workstation of the selected View Position. You can also change the selection.

It assigns the value for image processing.

1 Import Image Param

Imports Image Parameter values from the selected user-param-xxxx.xml file

2 Workstation Tab

It can apply the image parameter for Workstation.

3 Parameter

It displays the image parameter set in selected Workstation.



Note

If you select the GPU Type as XIPL in EluiSetup, the above parameters are displayed. If selecting a different GPU type, different parameters are displayed.

04

Generator

Parameters

It sets the condition for X-ray irradiation in Generator.

1 Irradiation Condition

It can input Irradiation condition for Patient Size / Workstation.

2 APR Number

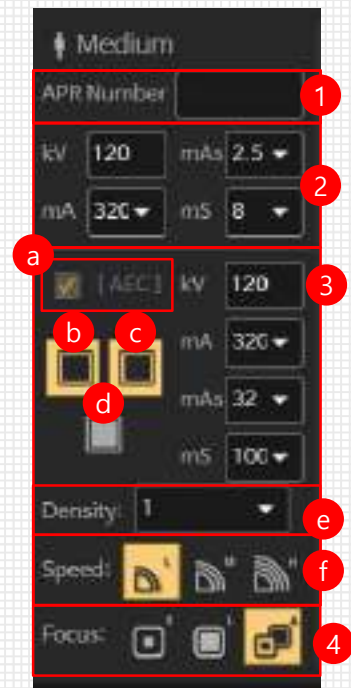
It inputs the address number of applied irradiation condition stored in console.

3 AEC Setting

- (a) ON/OFF (d) Field3
- (b) Field1 (e) Density: -3~+3
- (c) Field2 (f) Speed: Low, Middle, High

4 Focus Setting

It displays Focus Setting value.



Note

- In Exam Mode, the conditions of the generator are set using one of ①②③ according to the installation environment.
- Elmo-T3P&S (2023) can only set kV and mAs values.

05. Parameter

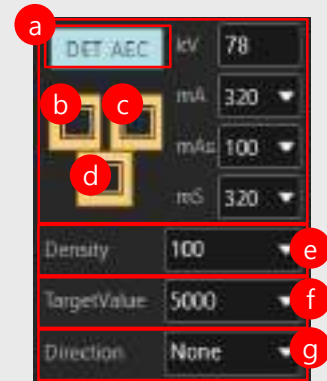
Note

AEC settings when using the 4747 Detector AEC function

Detector AEC settings

Displays shooting conditions when using AEC.

- Ⓐ ON/OFF
- Ⓑ Field1
- Ⓒ Field2
- Ⓓ Field3
- Ⓔ Density: 0~100%
- Ⓕ TargetValue : 1000 ~ 10000
- Ⓖ Direction : None, 0, 90, 180, 270



05

Marker

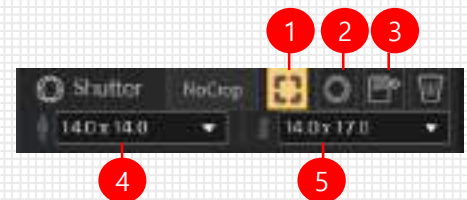
As the essential factor of X-Ray image, it sets mainly direction like R, L and text for additional explanation as a default. It is possible to set marker position and size.

06

Shutter

It selects the region size to save image.

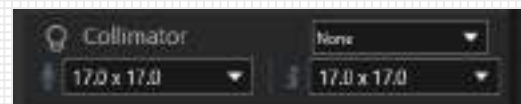
- ① **NoCrop**: Normally it stores DICOM file cutting as ROI size, but it stores image with 12*12 as ROI positioning in center.
- ② **ROI Rectangle**: It sets ROI shape as rectangle.
- ③ **ROI Ellipse**: It sets ROI shape as ellipse.
- ④ **Medium Shutter** : : It is a ROI value when Patient Size is not Child.
- ⑤ **Child Shutter** : It is a ROI value when Patient Size is Child.



07

Collimator

It sets the size of auto collimation and Collimator Filter.



08

Rotation

It sets the rotation of image. (0, 90, 180, 270)
It is possible to set for each Workstation (Stand/Table/Portable 1/2).

※ In the case of DSLB angle, it can set Angle(0, 90, 180, 270) by mouse right clicking in the LB Flip area, and it is applicable only to DSLB 1717 image.



09

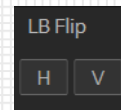
Flip

1 Flip Horizontal

It selects whether it applies the automatic mirror feature until displaying image (feature to flip over left and right).

2 Flip Vertical

It selects whether it applies the automatic mirror feature until displaying image. (feature to flip over up and down).



It is possible to set for each Workstation (Stand/Table/Portable ½ , DSLB).

10

Position APR

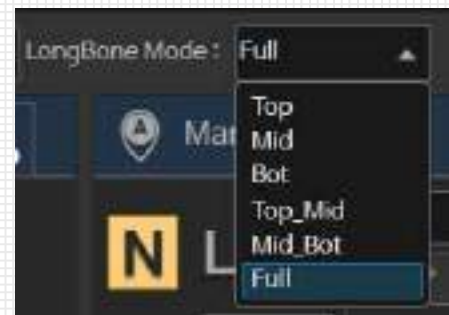
This is a option using at linking with Elin-T5. It can set Position APR value for each Workstation of the selected ViewPosition.



11

LBDT - Partial Mode

When Using Longbone Detector(DSLB), Partial Mode can be set for each position.



12

Use DSLB Auto Separator

It can set whether to use Auto Separator for each view position.

13

Allow AI

It can set to use Vuno CXR AI function for each view position.

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Chapter 6

ELUI-Stitch

Manual

6.1 Setting Stitch Study in Parameters

6.2 Setting Options in Configuration

6.3 Set Stitch Range

6.4 Stitching in Examination

6.5 UI of Stitching Program

6.6 Stitching in Database

6.1

Setting Stitch Study in Parameters

01

First of all, select the Stitch RIS Code from the parameter screen, and conduct :

- 1 Checking "Stitch Study".
- 2 Matching the View Position.
 - When using Auto Stitch, the View Position must contain one of StitchGroup Name.
 - In one study, classify the View Position of group in same Stitch as the duplicate StitchGroup Name.
- * StitchGroup name can be set in Config – General - StitchGroup.
- After selecting all ViewPosition grouped in one group, you can click on Set StitchGroup 3 in the right menu on mouse to proceed the Stitch of that group on the Exam screen..
- Set StitchGroup allows you to set the transmission order for merged images in SendingOrder 4 .
- If you right-click on the Stitch Study button, you can see the Stitch Group 5 of the current Study



6.2

Setting Options in Configuration

01

Configuration – Exam- Stitch

1 Search Range:

Among images to conduct stitching, type in the highest height of images' area that are overlapped. (When conducting the Stitch program, conduct the Auto Stitch as of the value encoded in "Search Range". If a user inputs 5 cm but conducts the overlapping of areas as longer than 5 cm, an error may occur.)

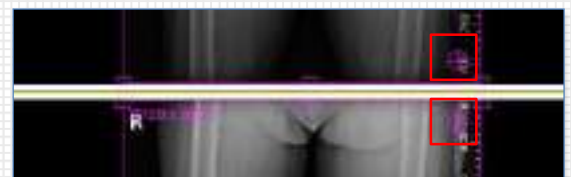
2 Send Pre – Stitch:

When conducting 'Send All', this function enables a user to decide whether to send original images that are not stitched. If this function is not checked, then only 'stitched' images will be sent, upon clicking the 'Send All'.

3 Manual Stitch Marker Position (Left / Center / Right):

When conducting the Stitch manually, this function enables a user to select the initial location of crosswise icon to make an image overlapped. (If selecting as R, the icon will automatically be moved to the right side on the screen.)

- 4 It is the setting to decide whether to use the algorithm for making the overlapped areas look more natural, when stitching images.



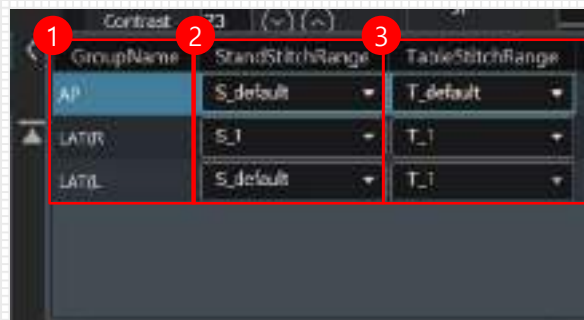
6.3 Set Stitch Range

01

※ **Cannot be Used except for Elin-T7**

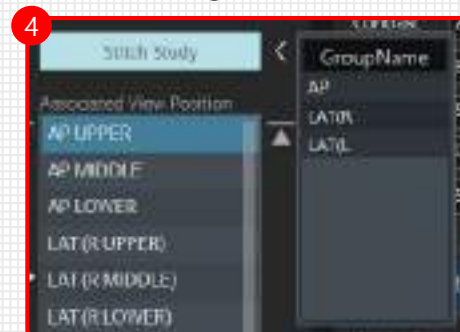
Create Stitch Group with Set Stitch Group.

- Stitch Group displayed in Stitch Range Tab -> **1 Add to Group Name**
- It can set the StitchRange for each Stand /Table in the Stitch Group for each study.
- The initial setting of Stitch Range is set to default.



- It can Set the stitch range for each Stand/Table in the Stitch Group for each study.

- 2 Stand Stitch Range** : It can set the stitch range to user when shooting stand, and only the stand stitch range list.(With "S_")
- 3 Table Stitch Range** : It can set the stitch range to user when shooting table, and only the table stitch range list.(With "T_")
- 4 If it is not connected to Elin-T7**, the Stitch Range tab display only the group name of the stitch group.



02

- 1** If stitch group exists in the study, Auto stitch control at the bottom of Exam Mode.

(a) Ready

- Move to the Stitch first position.

(b) Start

- Stitch start when the set signal is received.

(c) Reset

- Cancel the stitch and return to the initialization. If want to restart exam, it is set to a state that can be restart.

(d) Restart

- Stitch can be restart in the selected stitch range.

(e) Stitch Range

- Display Stitch Group Name, and display the stitch range of Stand/Table. It can also change your selection.



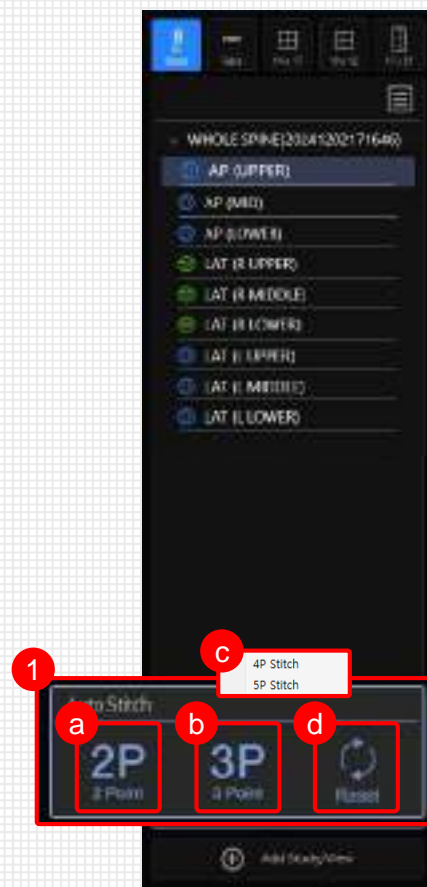
6.4 Stitching not linked to Elin

01

If stitch group exists in the study, Auto stitch control at the bottom of Exam Mode.

- Ⓐ 2P Stitch
 - Start 2P Stitch
- Ⓑ 3P Stitch
 - Start 3P Stitch
- Ⓒ 4P/5P Stitch
 - Right-Click on 3P and select 4P or 5P Stitch to start
- Ⓓ Reset
 - Cancel the stitch and return to the initialization.

※ **Stitch can be performed only when view positions are added as much as the number of stitch to be stitched.**



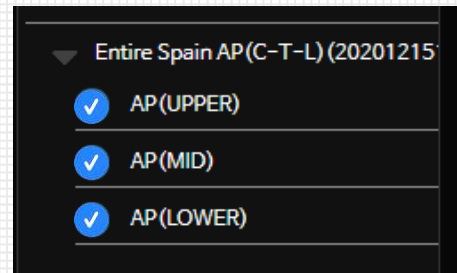
6.5 Stitching in Examination

01

Select the 'Stitch Study' in the Exam Mode.

02

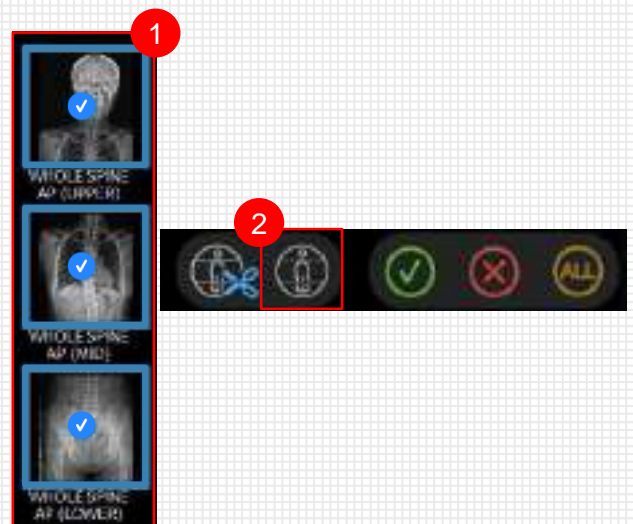
Conduct the examination according to the view position, for producing images to stitch.



03

For images to stitch,

- 1 Select the Thumbnail (Select the Ctrl).
- 2 Click the "Stitch" button.



Note

You can Stitch 2 to a maximum of 5 images.

04

Stitch program will be executed, and:

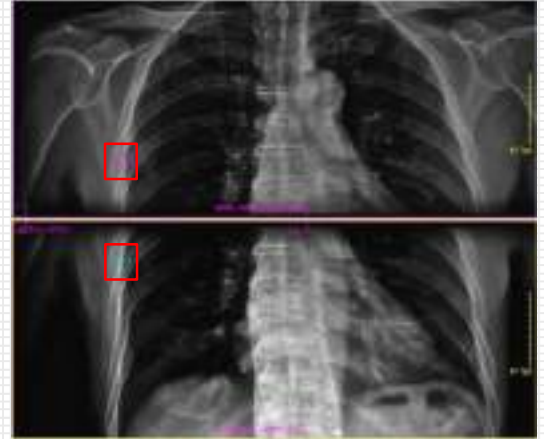
- 1 Auto Stitched image will appear on the left side of the screen.



6.5 Stitching in Examination

05

- ① In order to stitch images manually, put the crosswise icons (“+”) on the overlapped areas.
- ② If images to be stitched are three (3), the second image needs to have two crosswise icons (“+”), on the top and bottom parts respectively. It is able to zoom in/out by using the mouse wheel.



06

Click the “Manual” button to see the stitched image.



07

Save the image after checking the completion of stitching.



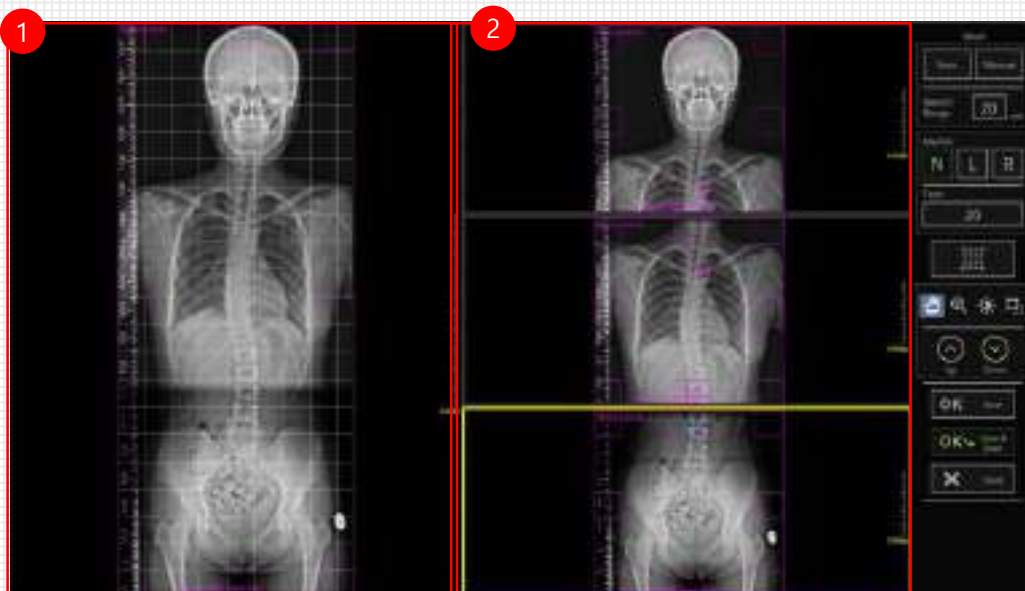
08

You can see that the stitched image is displayed on ELUI screen.



6.6 UI of Stitching Program

01



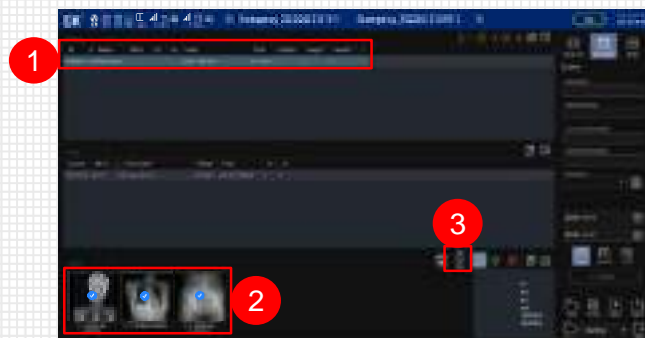
- 1 The stitched image will be displayed on this area. It is possible to adjust ROI, or conduct Zoom/Pan.
- 2 Each image of View Position will appear.
- 3 Conduct the Auto Stitching.
- 4 Conduct the Manual Stitching.
- 5 It is able to input the additional Marker.
- 6 It is able to a grid pattern to the 1 Stitching Image.
- 7 If activated when used in Touch Mode, Select Pan, Zoom, Windowing, ROI operation.
- 8 It is able to move up/down the sequence order of the selected image.
- 9 It is able to save the stitched image.
- 10 It is able to send the stitched image to PACS server.
- 11 It is able to close the stitch program without saving the stitched image.



6.7 Stitching in Database

01

- 1 Select a patient to stitch from the Patient List.
- 2 Select more than two images to stitch.
- 3 Click the “Stitch” button



02

Stitch program will be executed.

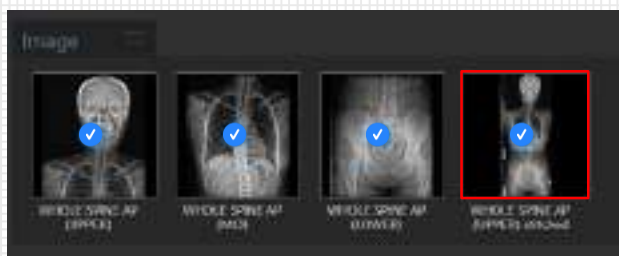


03

Repeat the process described in no. 04 to 07 steps of the **Chapter 6.3** (p. 66 to 67).

04

You can confirm that the stitched image is added now.



본 페이지는 공백입니다.

Chapter 7

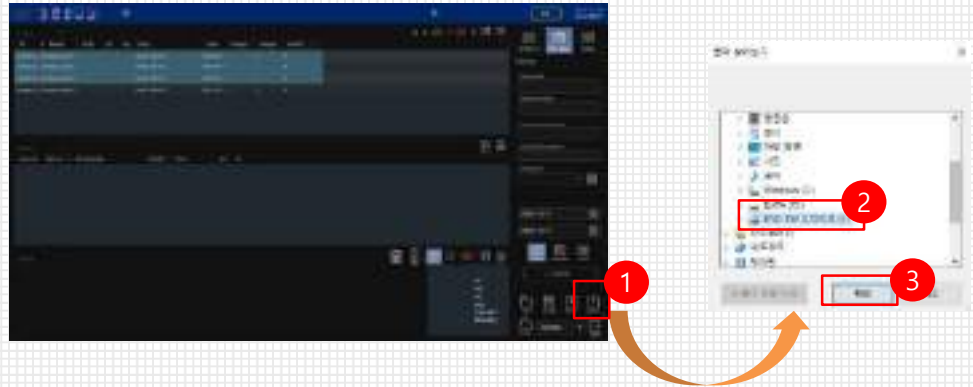
ELUI-Burner Manual

7.1 Run Burner in Database

7.2 UI of Burner Program

7.1 Run Burner in Database

01



First off, select a study, series or patient to export, and:

- 1 click the Export button.
- 2 select a CD Drive.
- 3 click the 'OK' button to run the Burner.

7.2 UI of Burner Program

01



- 1 It displays the list of studies that you will burn to a media.
- 2 It shows the size of data to be burnt.
- 3 You can select a CD Rom.
- 4 It is able to insert a label for the media.
- 5 It provides the total size of media, and the data to be burnt in percentage.
- 6 It enables burning the data.
- 7 It enables closing the program.
- 8 It shows the burning status of data; it is possible to cancel it before its completion.

Chapter 8

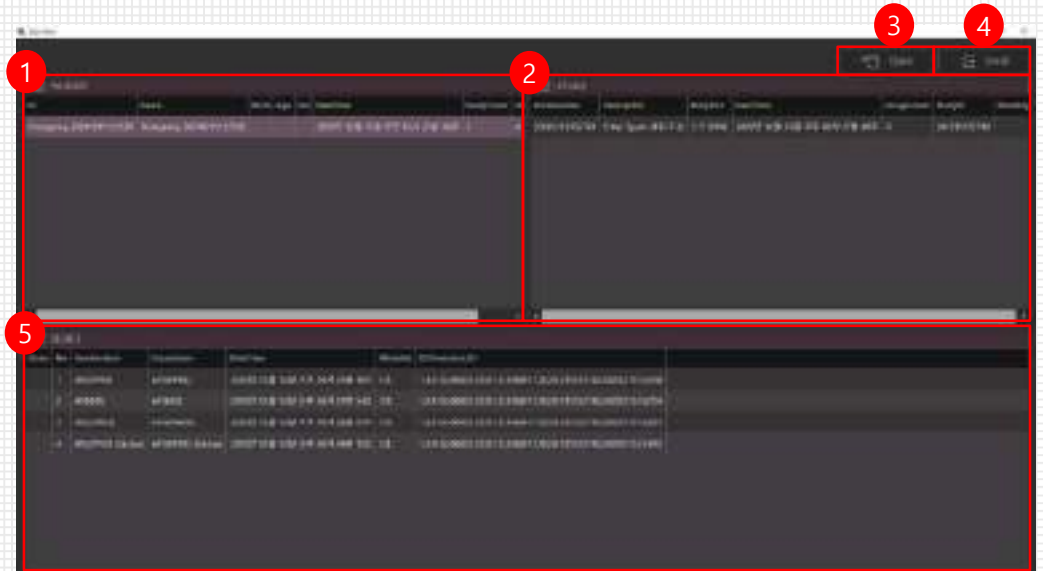
ELUI-Mini Manual

8.1 Database

8.2 Viewer

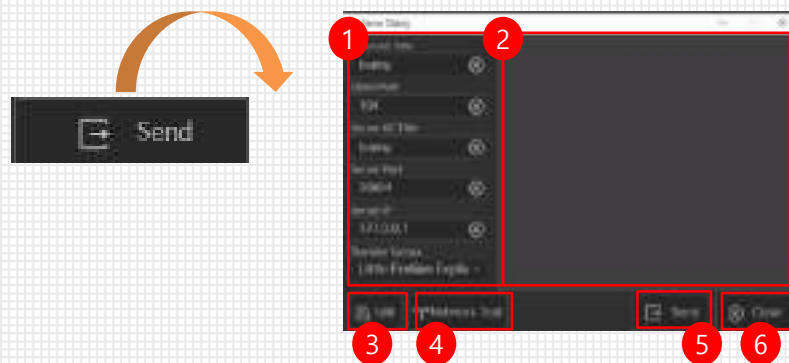
8.1 Database

01



- ① List of Patients
- ② List of Studies
- ③ Go to the Viewer
- ④ Transmit Data to PACS
- ⑤ List of Series

02

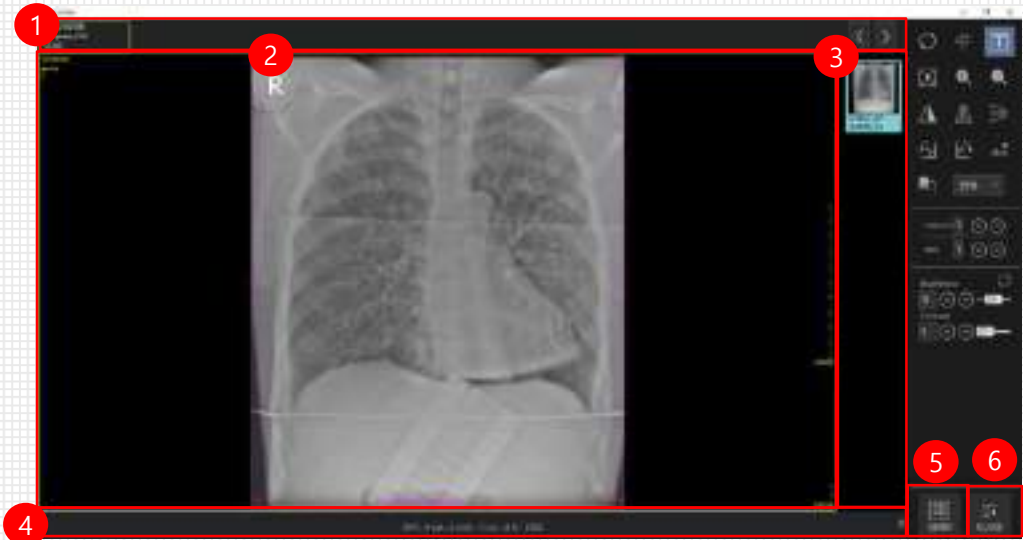


If you click the Send button, the above window will appear.

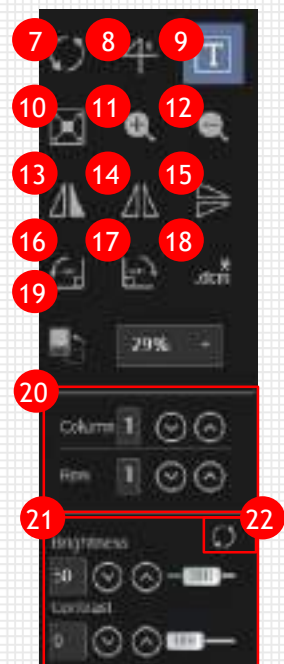
- ① PACS Server Information
- ② Log Screen
- ③ Edit PASC Server information
- ④ Test the Server Connection Status
- ⑤ Transmit an Image to Server
- ⑥ Close the Program

8.2 Viewer

01



- 1 It displays the list of studies in tab.
- 2 It shows the image.
- 3 It zooms out the images in a study, and displays them as thumbnail.
- 4 It displays the width and center of image, and its pixel value.
- 5 It enables transmitting images that are shows in thumbnail, to PACS.
- 6 It is converted to Database.
- 7 It clears the selected image's 'Transform'.
- 8 It shows the direction of image.
- 9 It displays or hide the Annotation.
- 10 It makes an image fit to the designated area.
- 11 It zooms in the image.
- 12 It zooms out the image.
- 13 It shows a reversed image.
- 14 It mirrors an image.
- 15 It flips an image upside down.
- 16 It rotates an image 90° counterclockwise.
- 17 It rotates an image 90° clockwise.
- 18 It displays DICOM header information of image.
- 19 It converts a mini-viewer into vertical or horizontal mode.
- 20 It adjusts layouts.
- 21 It adjusts LUT of image.
- 22 It clears LUT's values.



Chapter 9

AP On/Off, Detector Refresh Manual

9.1 AP On/Off

9.2 Detector Refresh

9.1 AP On/Off




01

Description

- ① It is the feature that a user can turn On/Off the SCU's AP function from Elui.
- ② This feature is used normally when a user would like to use a single, wireless detector in two or more workstations.
- ③ If turning off the AP function of SCU, it will be turned Off and disconnected from the wireless detector.
- ④ If turning on the AP function of SCU, it will be turned On and connected to the wireless detector.

02

Icon

Status	AP On	AP Off	AP Under Progress
Icon			
Remarks			It is shown when the AP is under progress to be from ON to OFF, or vice versa.

In Elui, this icon is placed on the Status Bar as shown below.

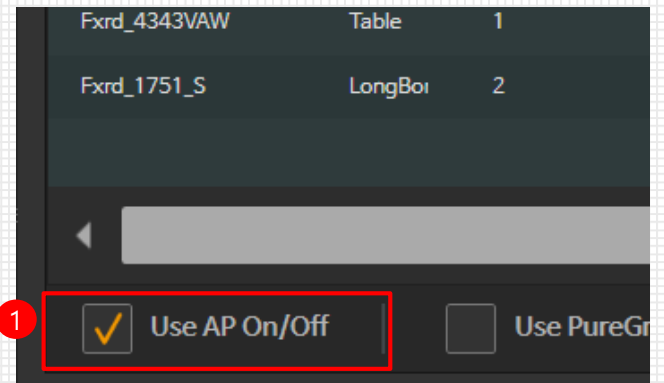


03

How To Use

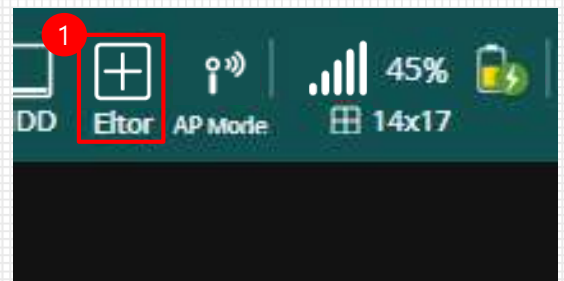
① Settings in Elui Setup


- 1 Run the Elui Setup and check the "Use AP On/Off" checkbox.

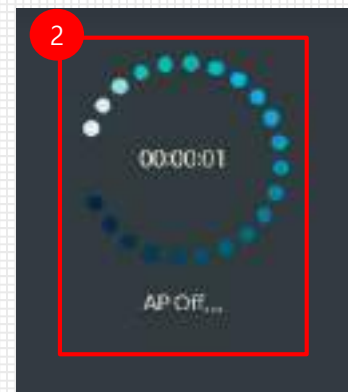



② AP Off

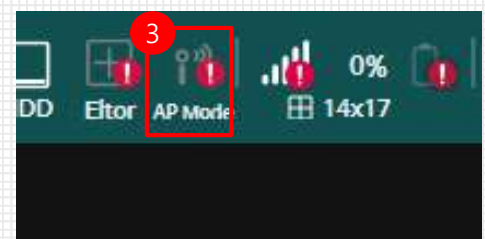
- 1 Place your cursor on the AP On icon, and you can see the Tooltip. Click the icon.



- 2 The icon of Status Bar () is changed, and in the middle of Elui there will appear a Loading icon displaying AP status.



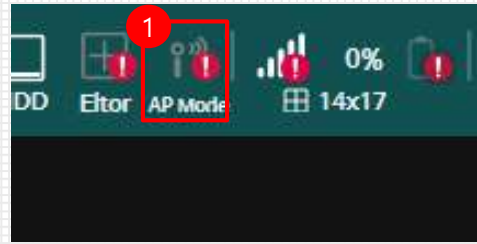
- 3 When the AP is Off, the Status Bar icon is changed as , and icons of Detector Status and Wireless Status are also changed.




09. AP On/Off, Detector Refresh Manual


3 AP On

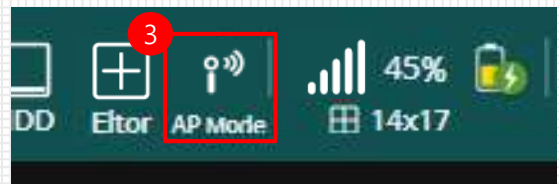
1 Place your cursor on the AP Off icon and click it.



2 The icon of Status Bar will be changed (), and in the middle of Elui screen there will be a Loading icon changing the AP status.



3 When the AP is On, the Status Bar icon will be changed (). If there is any Wireless Detector ready, the relevant Detector Status and Wireless Status icons will be changed as the figure given on the right side of this page.



04

Caution

- 1 It is not available in Exam Mode.
- 2 It becomes available only when the "Use AP On/Off" icon is checked in the EluiSetup.

9.2 Detector Refresh

01

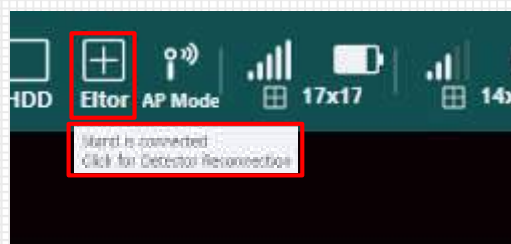
Description

- 1 Cut every connection from detectors, clear all detectors, and make them connected again.
- 2 It takes time depending on the number of detectors. (Wired : 10 sec, Wireless : 20 sec or more)

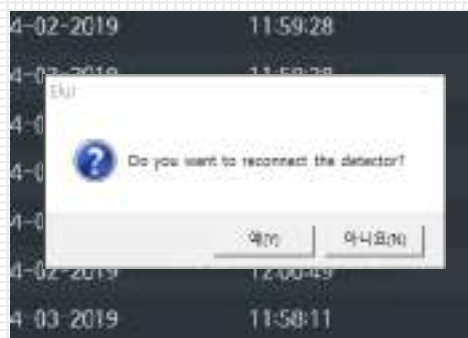
02

How To Use

- 1 If placing your cursor on the Detector icon, the Tooltip will appear.



- 2 When clicking the Detector icon, the message asking "Would you like to reconnect the detector?" will appear.



- 3 If clicking "Yes", the Detector Refresh starts and the Loading icon will appear.

- 4 When the Detector Refresh is completed, the Loading icon disappears. If the number of Detectors are more than one, it is possible to check each detector's connection status in the Tooltip of detector icon.



03

Caution

It is not available in Exam Mode.

This page is blank.

Chapter 10

ELUI-W

Manual for Vehicle

10.1 Settings for Vehicle

10.2 New Patient

10.3 Import Excel

10.4 QR Parsing

10.5 Option

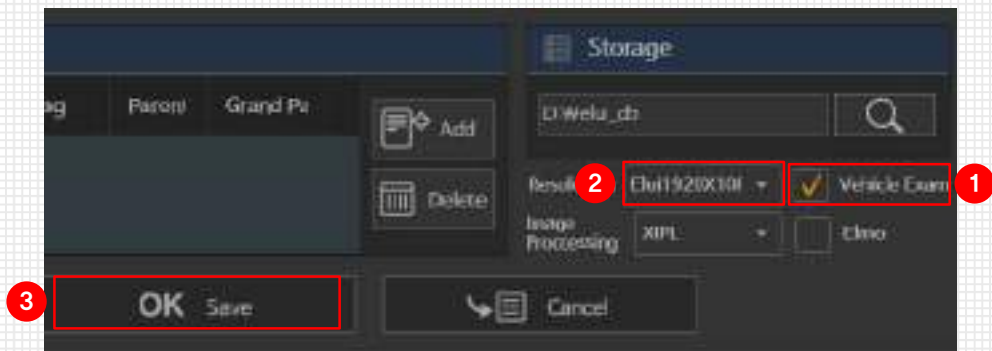
10.1 Settings for Vehicle

01

Settings

This 'Elui-W for Vehicle' is the program for X-ray Irradiation in a medical checkup bus; this program optimizes quick, easy Irradiations for hundreds of patients.

- ① Run the 'Elui-Setup'.
 - ① Check the checkbox 'For Use in Vehicle'.
 - ② Conduct the settings for resolution (Elui1920X1080 or Elui1280X1024T).
 - ③ Click the 'OK' button and close the Elui-Setup.



- ② Once you run the 'Elui-W', the program for vehicle appears as follows. Depending on its resolution, UI will appear differently.



- ① Elui1920X1080
- ② Elui1280X1024T

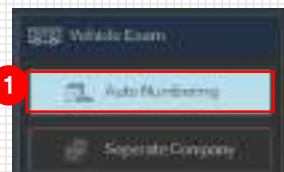
10.2 New Patient

01

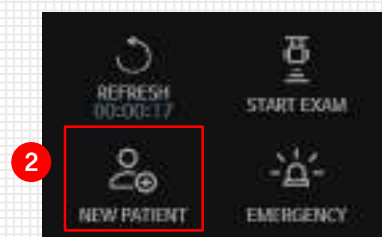
Preparation

The word 'New Patient' herein refers to Irradiation an X-ray procedure and tagging a Patient ID to data in chronological order, starting from no. 1. Therefore, with the exception of Patient ID, a user must input all mandatory information (e.g., Name/Sex/Birthdate) manually.

- 1 Check the checkbox 'Auto Numbering'.
(Click Configuration → Exam → Auto Numbering).



- 2 On the Worklist screen, click the 'New (Patient)'.



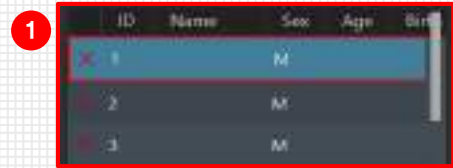
- 3 Select a study to film.
(There is no need to click the Add button below additionally.)
- 4 Click a route to which the filmed image file (DCM) and Viewer are automatically copied. If clicking the 'Export Path' button, it will load the corresponding screen that you can select a folder from.
- 5 Input the name of facility that proceeds the medical checkup.
- 6 Please note that you need to input the number of patients more than the actual ones.
- 7 IDs are generated up to the number of patients which a user typed.
- 8 If clicking the Start Exam button, X-ray irradiation begins starting from the value that a user inserted.



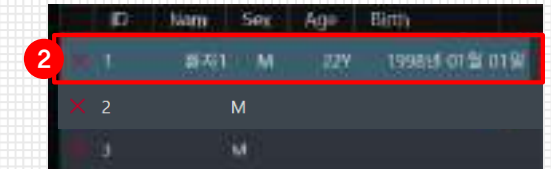
02

Irradiation

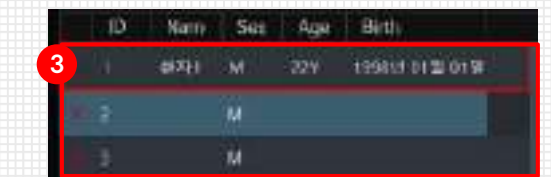
1 A user can see that IDs are generated, for the number of patients which the user encoded.



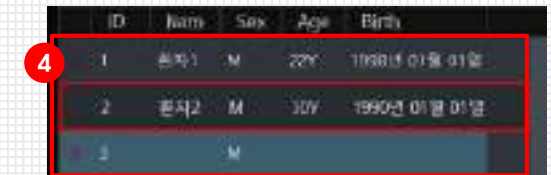
2 Input patient's information in No. 1 manually. If clicking the Cell aside from ID, it will be changed into the input item for no. of controls. Then, conduct the X-ray irradiation.



3 On the right example image, you can see no. 1 patient appears on the screen and then the focus is moved on to the next patient (no. 2). (The orange-colored cells indicate the currently-selected patient. The mark 'O /X' of the first cell means whether the X-ray irradiation has been done or not.)



4 Input the patient information in the cells of ID no. 2. And then, proceed the X-ray irradiation. Once it is completed, no. 2 patient's image will appear on the right side of the screen, and then no. 3 patient will be automatically selected (orange-colored).



5 If PACS Server exists, all image are transmitted to PACS. If PACS Server not exists, all images are copied to USB and saved.



6 When you complete your Irradiation and thus click the Close button, then the 'Export' process will also be completed. In the folder that a user selected as the Export Path, a user will be able to check that there are Viewer and DCM of images taken.

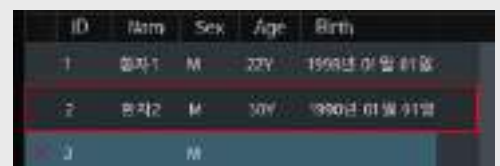
Note

Background Color and Frame Color in Patient List

Orange-colored background: It specifies a patient to film. It is selected when clicking it with the left button of the mouse.

Red-colored Frame: It indicates a patient whose image is shown on the right side of the screen. It is selected when clicking it with the right button of the mouse.

For example, the right image means that no. 2 patient's image is currently shown on the screen, and no.3 patient is the one to be filmed this time.



10.3 Import Excel

01

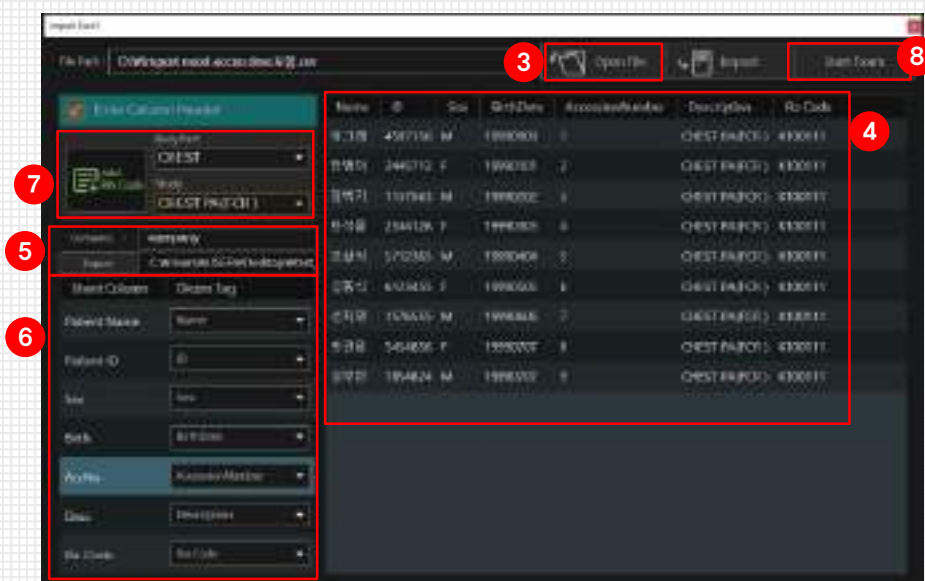
Preparation

'Import Excel' refers to loading CSV file, which is a list of patients in excel, and conducting the examination. Thus, a user does not have to load any patient information additionally.

- 1 Uncheck the 'Auto Numbering'.
(Configuration – Exam – Auto Numbering)



- 2 Click the 'Import Excel' on the Worklist screen.
(The 'Import Excel' button appears only when the 'Use Excel' is checked.
(Configuration – Worklist – Use Excel)



- 3 Click the Open File and load the CSV file.
- 4 On the screen, the patient information loaded from CSV file will appear.
- 5 Set the name of company to conduct medical checkup, and the Export Path to which images will be automatically copied.
(If clicking the Export Path button, the window will pop up for selecting a folder.)
- 6 Select data value of each row.
If there is any row that you do not use, select it as 'Not Used'.
- 7 To conduct X-ray irradiation, it is able to add RIS Codes (Studies) simultaneously.
Click the 'Add RIS Code', select a body part and then 'Study'.
- 8 Click the 'Start Exam' button to begin X-ray irradiation for patients in the selected list.

02

Irradiation

- 1 It is able to see a list of patients that a user imported.
- 2 Input ID /Name of a patient to film, press the 'Enter' button or click the 'Search' button.
- 3 The list of patients' data that have search condition (encoded ID) will appear. It is the default that the first patient in the list is selected. Then, proceed X-ray irradiation.
- 4 X-ray irradiation of the selected patient is completed.
- 5 Then, search the patient to conduct X-ray irradiation further. And, proceed the radiation.
- 6 If photographing a patient who is not on the imported list, can add them by pressing the "+" button. Pressing the "+" button will display the same screen as the right, enter patient information, test information and pressing the "Add" button will add that patient to the bottom of the patient list.
- 7 If PACS Server exists, all images are transmitted to PACS. If PACS Server not exists, all images are copied to USB and saved.
- 8 When you complete your Irradiation and thus click the Close button, then the 'Export' process will also be completed. In the folder that a user selected as the Export Path, a user will be able to check that there are Viewer and DCM of images taken.



10.4 QR Parsing

01

Preparation

It can add or edit QR Code input information in vehicle exam mode.

- ① Check Configuration – Exam – Vehicle QR Parsing.
- ② Separator : Set the separator of QR information to be input.
- ③ Edit : Set up the Column List to input with QR Code and display a pop-up window ④ . It can select QR Parsing Mode.



- Ⓐ **Unuse** : It can set a list of unused patient information.
- Ⓑ **Use** : It can set the list used patient information.
- Ⓒ **Left/Right** : Change Unuse/Use Item.
- Ⓓ **Up/Down** : Change the order of information to be parsed by QR.
- Ⓔ **Mode** : Select QR Parsing mode.



02

Add QR

It can add patient information by reading the QR from the worlist.

- ① Place the mouse cursor in the search bar and enter the QR Code.
At this time, the QR Code information to be input must be entered in the order of the set Use Items.
- ② The patient entered in the worlist is added
※ If the same patient information exists, select the patient of that information without add the patient.
- ③ Setting Patient examination.

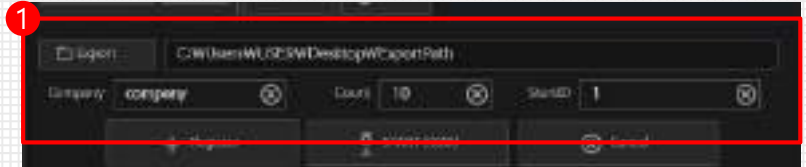


03

Modify QR

It can edit patient information by entering the QR Code in the worklist.

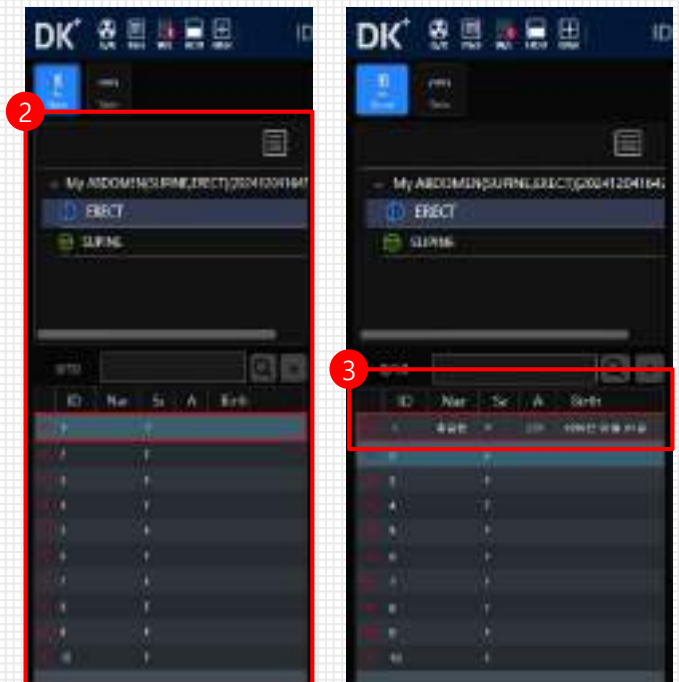
- 1 Enter information about the exam in New Patient. (Export Path, Company, Count, StartID)



- 2 Random patients are added as much as the number of count entered, and examination
- 3 information is set.

It can edit patient information by entering the QR by selecting the exam for which It want to edit patient information.

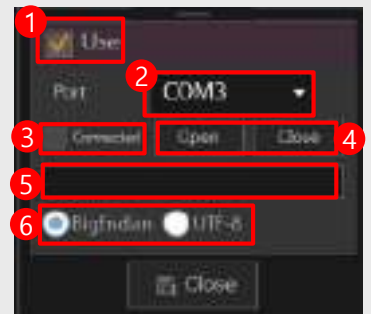
※ It can select whether to change the patient information, when the QR Code is input while patient information has already been entered.



Note QR Scanner Registration

It can be configured in Configuration – Hardware - Scanner.

- 1 Use – Check When using serial connection.
- 2 Port – Select the port number to which the scanner is connected.
- 3 Connected – Check if serial connection is established.
- 4 Open/Close – Open or close serial connection.
- 5 TestText – After serial connection, scan the QR and it will be displayed here.
- 6 DecodingType – Select the Decoding Type of the scanner.

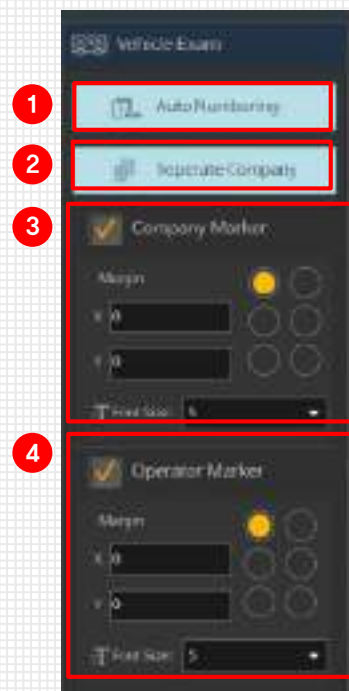


10.5 Option

01

Configuration -Exam

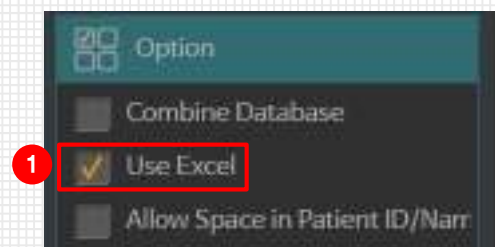
- 1 Check the 'Auto Numbering', then the next patient to film will be selected automatically.
- 2 If checking 'Separate Company', the patients in one company are displayed.
If Not check 'Separate Company', all the patients in every company on same day only are displayed.
- 3 **Company Marker**
In the image, the name of company will be put on the location and size designated as Marker type.
- 4 **Operator Marker**
In the image, the name of operator (who currently- logged in) will be put on the location and size designated as Marker type.



02

Configuration -Worklist

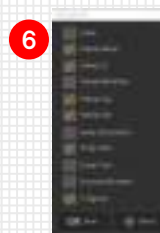
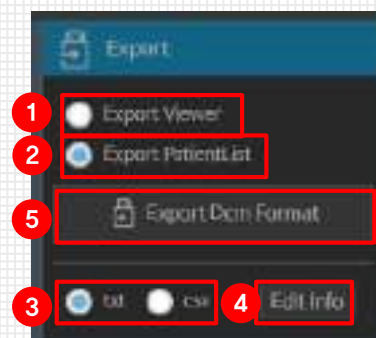
- 1 The "Import Excel" function is available only when the 'Use Excel' is checked.



03

Configuration -Database

- 1 Checking 'Export Viewer' makes Viewer to copy to USB together when exporting.
- 2 If checking Export PatientList, PatientList file will be copied together to USB when exporting. The Patient List file including patient information to be exported stores a list of patients,
- 3 When selecting Export PatientList, you can select the extension name of the PatientList file.
- 4 When selecting Export PatientList, screen 6 which can select the patient and Exam information stored in Patient List file is displayed.
- 5 When selecting 'Export Patient List', screen 7 which can select the file format of dcm file to be exported is displayed.



This page is blank.

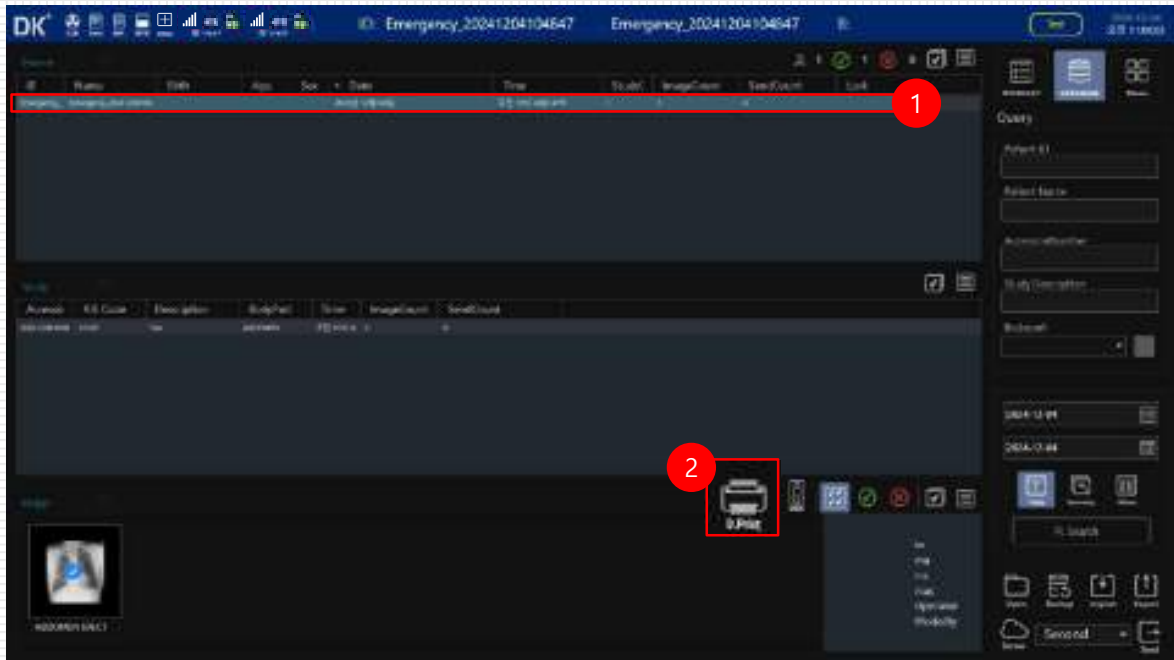
Chapter 11

DICOM Print

11.1 Dicom Print

11.2 Dicom Print Option

11.1 Dicom Print

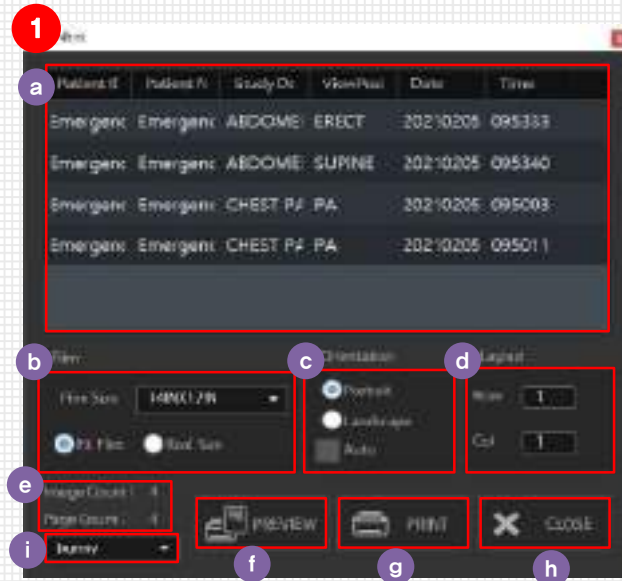


- 1 On the Database screen, select the patient (Study / Image) you want to Dicom print.
- 2 Press the Dicom Print button.

01

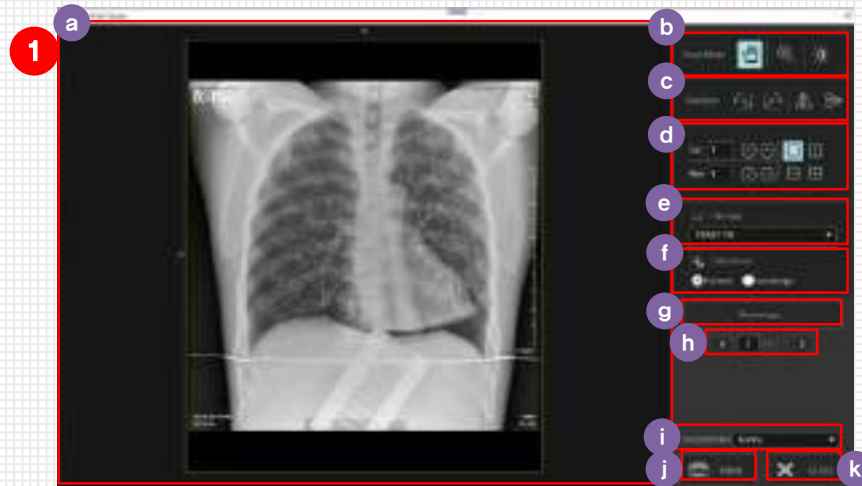
Dicom Print

- 1 After confirming every kinds of Option, press Print button

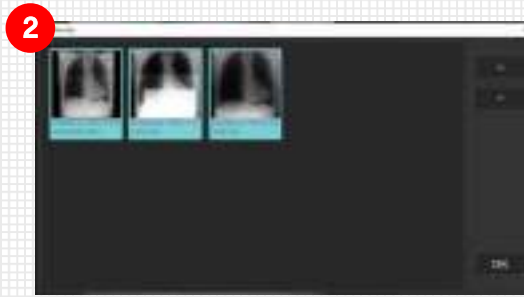


- a** It displays image list to DicomPrint.
- b** **FilmSize** : It selects Film size to print out.
Fit Film : It fits image size to Film size.
Real Size : It prints out to Film with actual size.
When printing out with RealSize, Layout is fixed to **1:1**.
- c** **Orientation** : It selects Film direction (Landscape/Portrait).
Auto : When printing out with RealSize, Orientation is automatically set according to the video size.
- d** **Layout** : Sets the layout of the image to be printed on one film.
- e** **Image Count** : Shows the number of images output.
Page Count : It indicates the number of film to be output..
- f** **PREVIEW** : A print preview is available, and a window for DicomPrint is displayed. (Refer to Chapter11.1 -02.)
- g** **PRINT** : It starts DicomPrint.
- h** **CLOSE** : It closes screen without proceeding DicomPrint.
- i** **Server** : Select **DicomPrint Server**.

- 1 The following screen will be displayed, and you can preview print by page

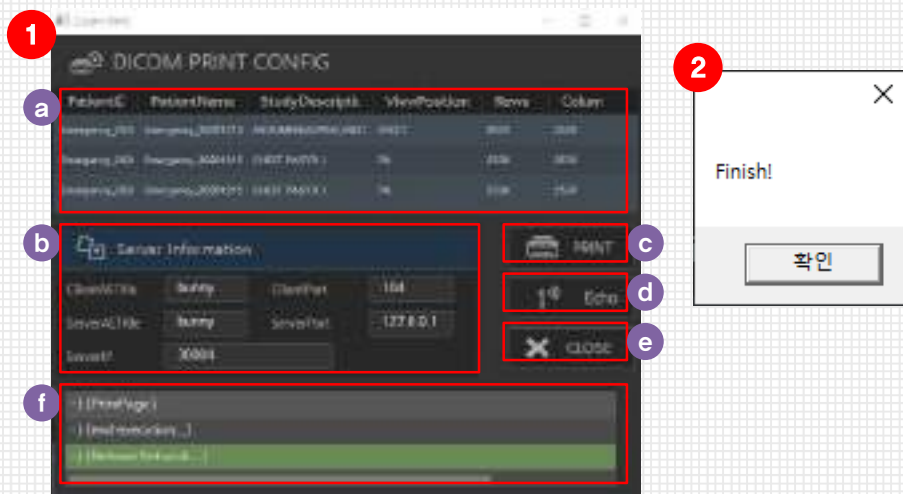


- a **Preview** : It shows preview.
- b **Touch Mode** : Select Pan, Zoom, Windowing in **Touch Mode**.
- c **Transform** : It rotates an image every 90° to the left /right.
Rotating an image to the left /right, up/down.
If it changed the selection, the preview change as well.
- d **Layout** : It sets the layout of the image to be printed on one film. When you change selection, the preview changes as well.
- e **FilmSize** : It selects the size of the film to be printed. When you change your selection, the preview changes as well.
- f **Orientation** : Select the direction (Landscape / Portrait) of the film. When you change selection, the preview changes as well.
- g **Rearrange** : You can change the order of the output images. The screen below is displayed, and you can change the order.
(Refer to Chapter11.1 – 2 **2**.)
- h **Page** : Displays the page of the current preview, and you can change the page.
- i **DicomPrinter** : Select the DicomPrinter server.
- j **PRINT** : You can use Dicom Print with the current settings.
- k **CLOSE** : It closes screen without proceeding Dicom Print.



- 2 Rearrange** : You can change the order of the images to output.
Select the video and press the Up / Down button.

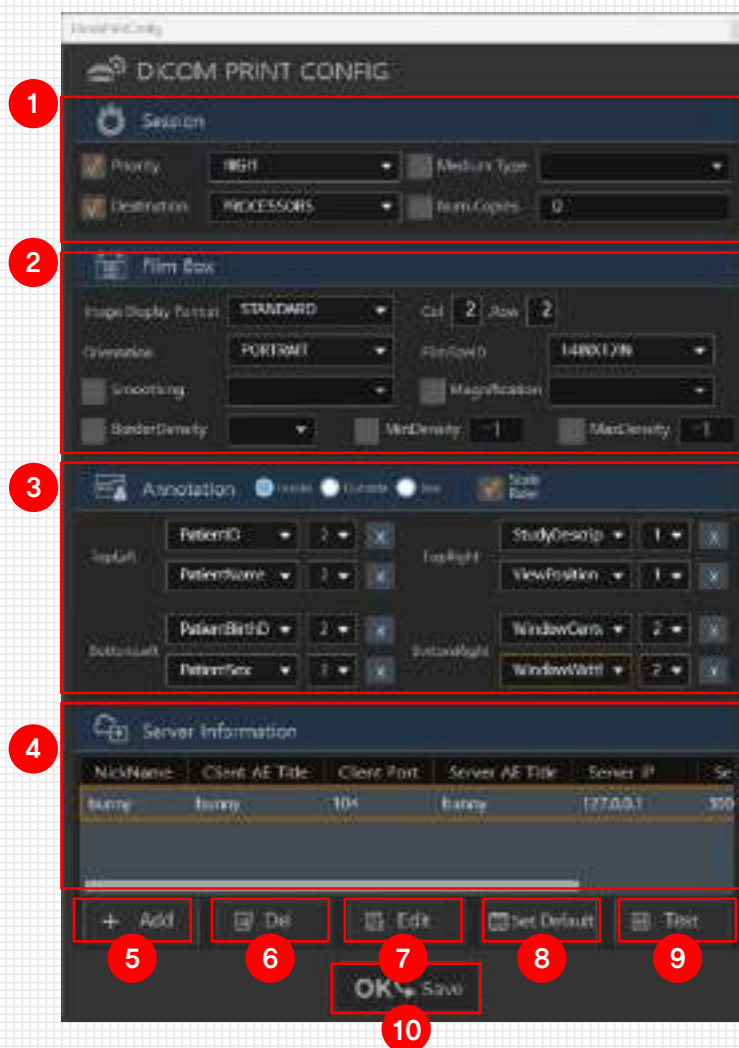
03

Dicom
Print Config

- 1** The following screen will be displayed and Dicom Print will proceed automatically.
2 When Dicom Print is complete, a message box is displayed. Press OK to close the screen.

- a** It shows Image List on proceeding DicomPrint.
b It displays DicomPrint Server information.
c It proceed Print.
d It can test communication with DicomPrint Server.
e It completes program.
f It displays log.

11.2 Dicom Print Option



- 1 Session**
 - You can set Priority / Medium Type / Destination / Num. Copies value. Check the option to use and select the value.
- 2 Film Box**
 - Image Display Format / Orientation / FilmSizeID is the default option and you must select a setting value.
 - Smoothing / Magnification / BorderDensity / MinDensity / MaxDensity can be set. Check the options you want to use and select a value.
- 3 Annotation**
 - you can select the Exam information to save together at the corner of the image to be output. Select the information and fontsize to print at each location.
 - Inside : Annotation is displayed in image.
 - Outside : Annotation is displayed on edge of film outside the image.
 - Box : Annotation is displayed on left side upper corner of this image.
 - Scale Ruler : You can select whether to display a Scale Ruler on the image to be output.
- 4 Server Information** – List of registered Dicom Print Server is display. Select the desired Dicom Print Server, it is displayed as a box. After selection, press Set Default to select.

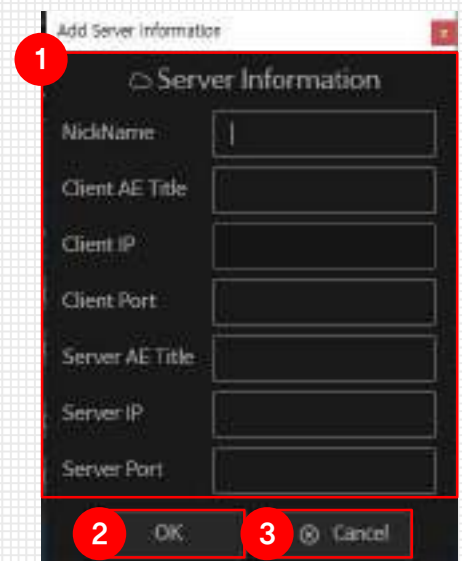
- 5 **Add : Create/Add Dicom Print Server.**
(Refer to Chapter11.2 – 01)
- 6 **Del :** Delete the select **Dicom Print Server.**
- 7 **Edit :** Modify the select **Dicom Print Server.**
- 8 **Set Default :** Set the selected **Dicom Print Server** as the default.
- 9 **Test :** Checking the communication status with **Dicom Print Server.**
- 10 **OK :** Save the selected option and close.

01

Dicom Print - Add

- 1 - **NickName :** Set the **NickName** of the Server.
- **Client AE Title :** Set the **AE Title** of the client.
- **Client IP :** Set the **IP** of the client.
- **Client Port :** Set the **Port** of the client.
- **Server AE Title :** Set the **AE Title** of the Server.
- **Server IP :** Set the **IP** of the Server.
- **Server Port :** Set the **Port** of the Server.

- 2 **OK :** Save the selected option and close.
- 3 **Cancel :** Close the screen without creating a new Dicom Print Server.

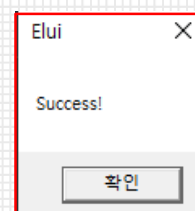
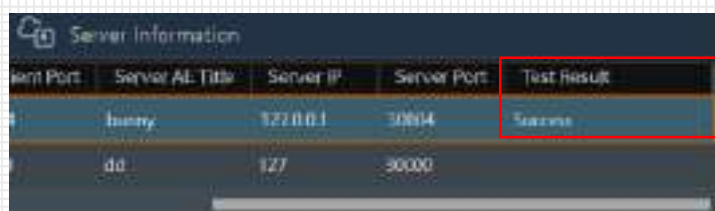


02

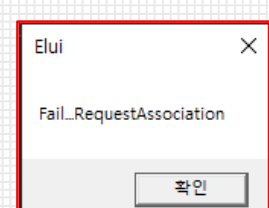
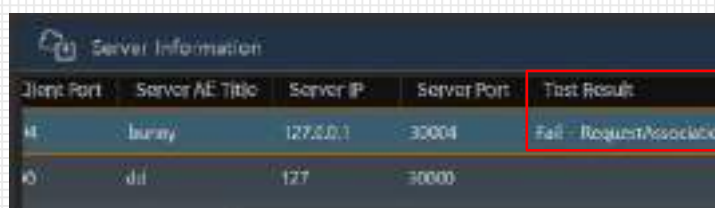
Dicom Print - Test

Check the communication status with **Dicom Print Server.**

- **Success :** Success is display in the Test Result and a Success message is display.



- **Fail :** Fail is display in the Test Result and a Fail message is display.



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Chapter 12

Statistics

12.1 Statistics function execution

12.2 General

12.3 Reject

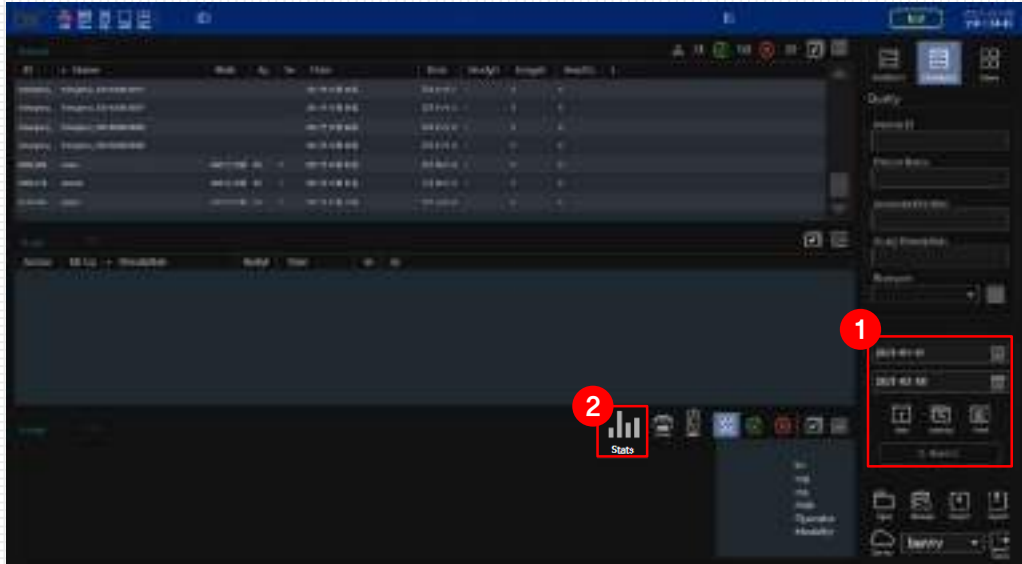
12.4 Dose

12.5 Person

12.1 Statistics function execution

01

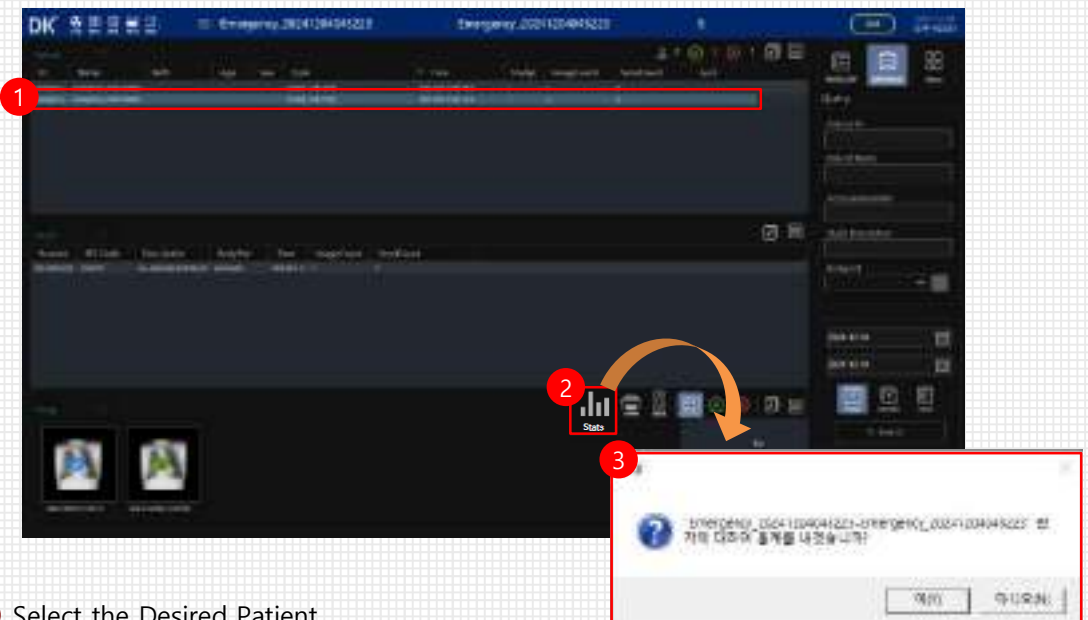
Stats on the exam



- ① Search for exam in the desired period.
- ② Click the Stats Button.

02

Stats on the Patient

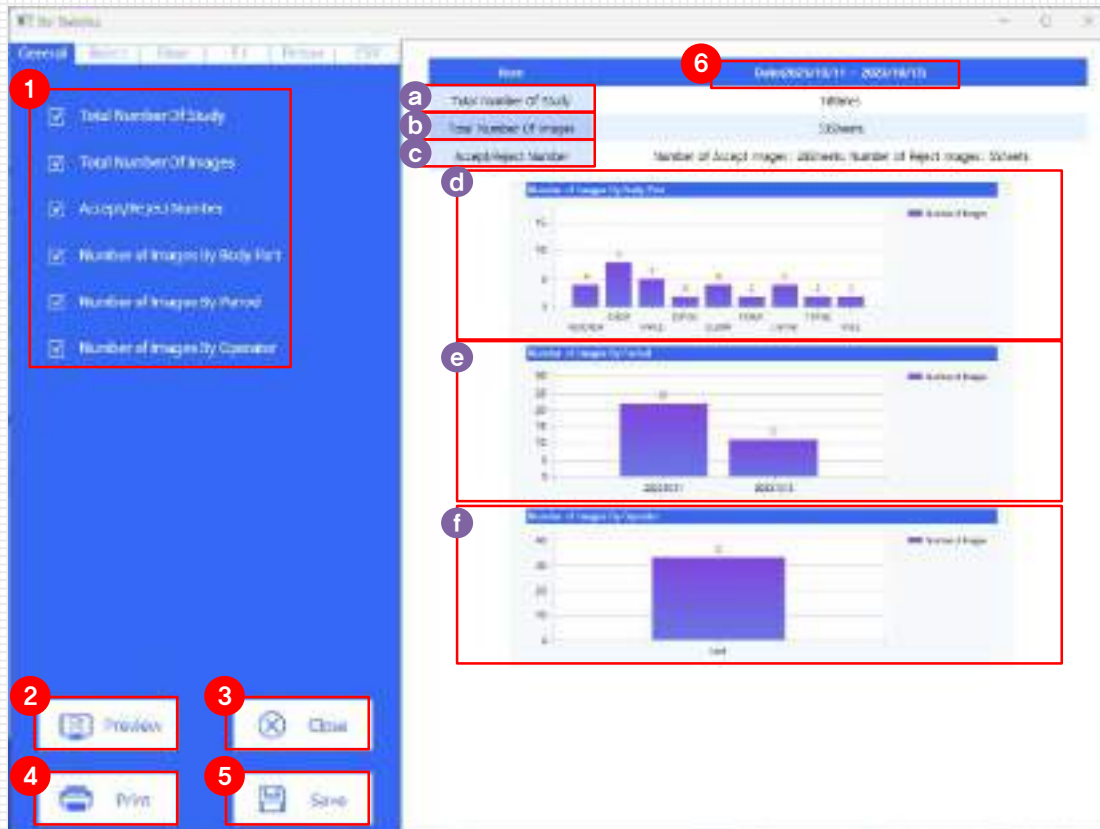


- ① Select the Desired Patient.
- ② Click the Stats Button.
- ③ Message to "Patient Name" "Would you like statistics on the patient?" appears and clicks "yes" to bring up the Stats window.

Note

If 'Stats on the exam', go to Stats to General.
If 'Stats on the Patient', go to Stats to Person.

12.2 General



- 1 Select the item want to check. Only the item with the CheckBox selected are display.
 - a Total Number Of Study
 - b Total Number Of Images
 - c Accept / Reject Number
 - d Number of Images by Body Part
 - e Number of Images by Period
 - f Number of Images by Operator
- 2 **Preview**
Display the selected items.
- 3 **Close**
Save the selected item information and close the stats.
- 4 **Print**
Print the display item.
- 5 **Save**
Save the preview of the selected stats item in PNG format to the desired folder.
- 6 **The date information of the saved DB.**

01

Table

Item	Data(2021년01월19일 ~ 2021/02/01일)
a Total Number Of Study	35Sheets
b Total Number Of Images	725Images
c Accept/Reject Number	Number of Accept Images : 555heets; Number of Reject Images : 205heets

- a **Total Number Of Study** : Display total numbers of study.
- b **Total Number Of Images**: Display total number of images.
- c **Accept/Reject Number** : Display the number of Accept and Reject images.

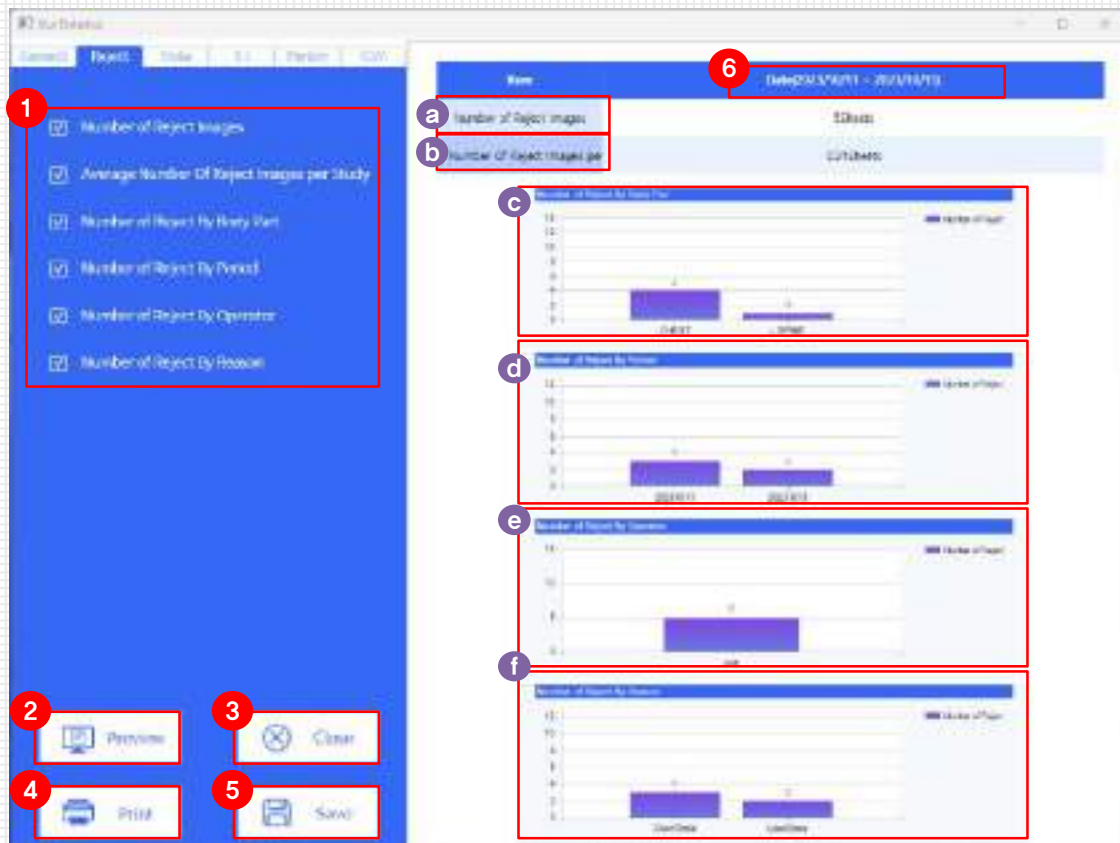
02

Graph



- d **Number of Images by Body Part** : Display the number of images by body part.
- e **Number of Images by Period** : Display the number of images by period.
- f **Number of Images by Operator** : Display the number of images by operator.

12.3 Reject



- 1 **Select the item want to check. Only the item with the CheckBox selected are display.**
 - a Number of Reject Images
 - b Average Number Of Reject Images per Study
 - c Number of Reject by Body Part
 - d Number of Reject by Period
 - e Number of Reject by Operator
 - f Number of Reject by Reason
- 2 **Preview**
Display the selected items.
- 3 **Close**
Save the selected item information and close the stats.
- 4 **Print**
Print the display item.
- 5 **Save**
Save the preview of the selected stats item in PNG format to the desired folder.
- 6 **The date information of the saved DB.**

01

Table

Item	Date(2021년01월15일 - 2021년02월09일)
a Number of Reject Images	205sheets
b Average Number Of Reject Images per Study	0.533sheets

- a **Number of Reject Image** : Display the number of reject image among the exam image.
- b **Average Number Of Reject Images per Study**: Display the average number of reject images per study.

02

Graph



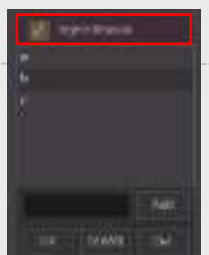
- c **Number of Reject by Body Part**: Display the number of reject by body part.
- d **Number of Reject by Period** : Display the number of reject by period.
- e **Number of Reject by Operator** : Display the number of reject by operator.
- f **Number of Reject by Reason** : Display the number of reject by reason.

Note

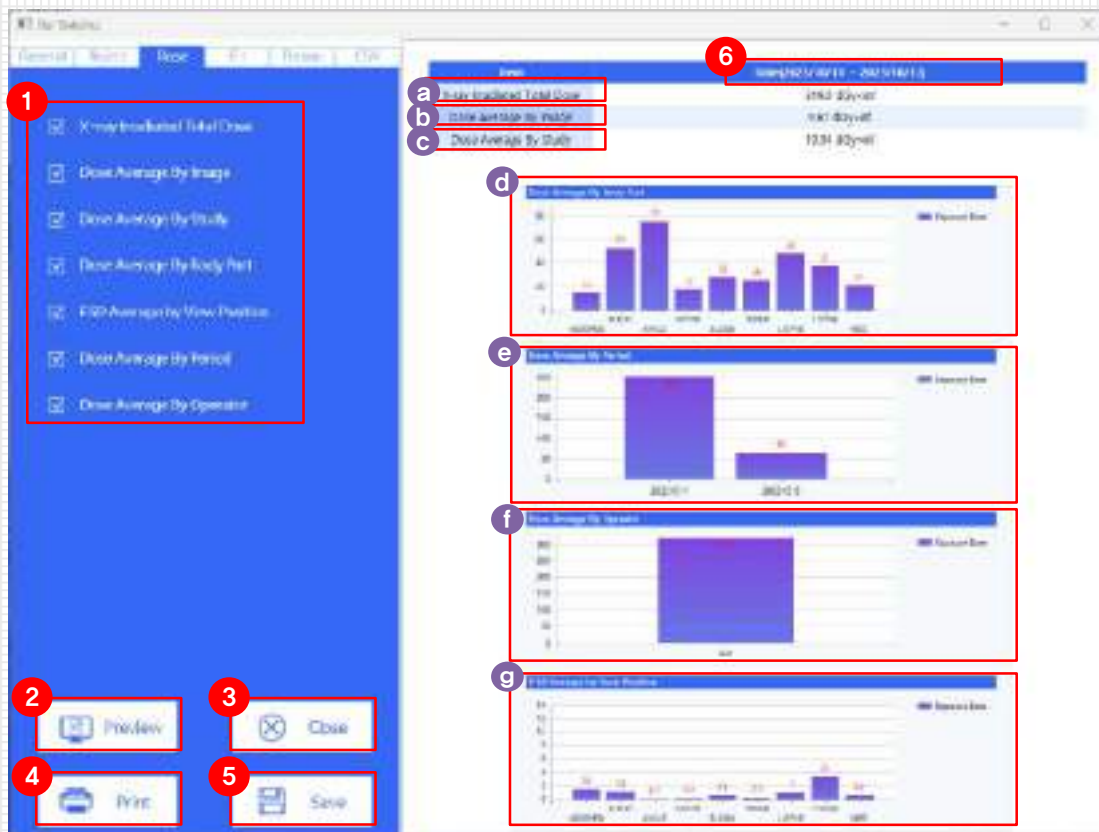
Reject Reason

If tick the checkbox in **Config – General – Reject Reason**, It can select reject reason when reject to image.

- Add : Add reject reason.
- UP/DOWN : Change the order of reject reason
- Del : Delete the reject reason.



12.4 Dose



- 1 Select the item want to check. Only the item with the CheckBox selected are display.
 - a X-ray Irradiated Total Dose
 - b Dose Average By Image
 - c Dose Average By Study
 - d Dose Average By Body Part
 - e Dose Average By Period
 - f Dose Average By Operator
 - g ESD Average by ViewPosition
- 2 **Preview**
Display the selected items.
- 3 **Close**
Save the selected item information and close the stats.
- 4 **Print**
Print the display item.
- 5 **Save**
Save the preview of the selected stats item in PNG format to the desired folder.
- 6 **The date information of the saved DB.**

12. 통계 기능

01

Table

Item	Data(2021년01월19일 ~ 2021년02월04일)
a X-ray Irradiated Total Dose	2.3 dGy=0F
b Dose Average By Image	0.08 dGy=0F
c Dose Average By Study	0.06 dGy=0F

- a **X-ray Irradiated Total Dose**: Display the X-ray irradiated total dose for Images.
- b **Dose Average By Image** : Display the average of the dose for Images.
- c **Dose Average By Study** : Display the average of the dose for study.

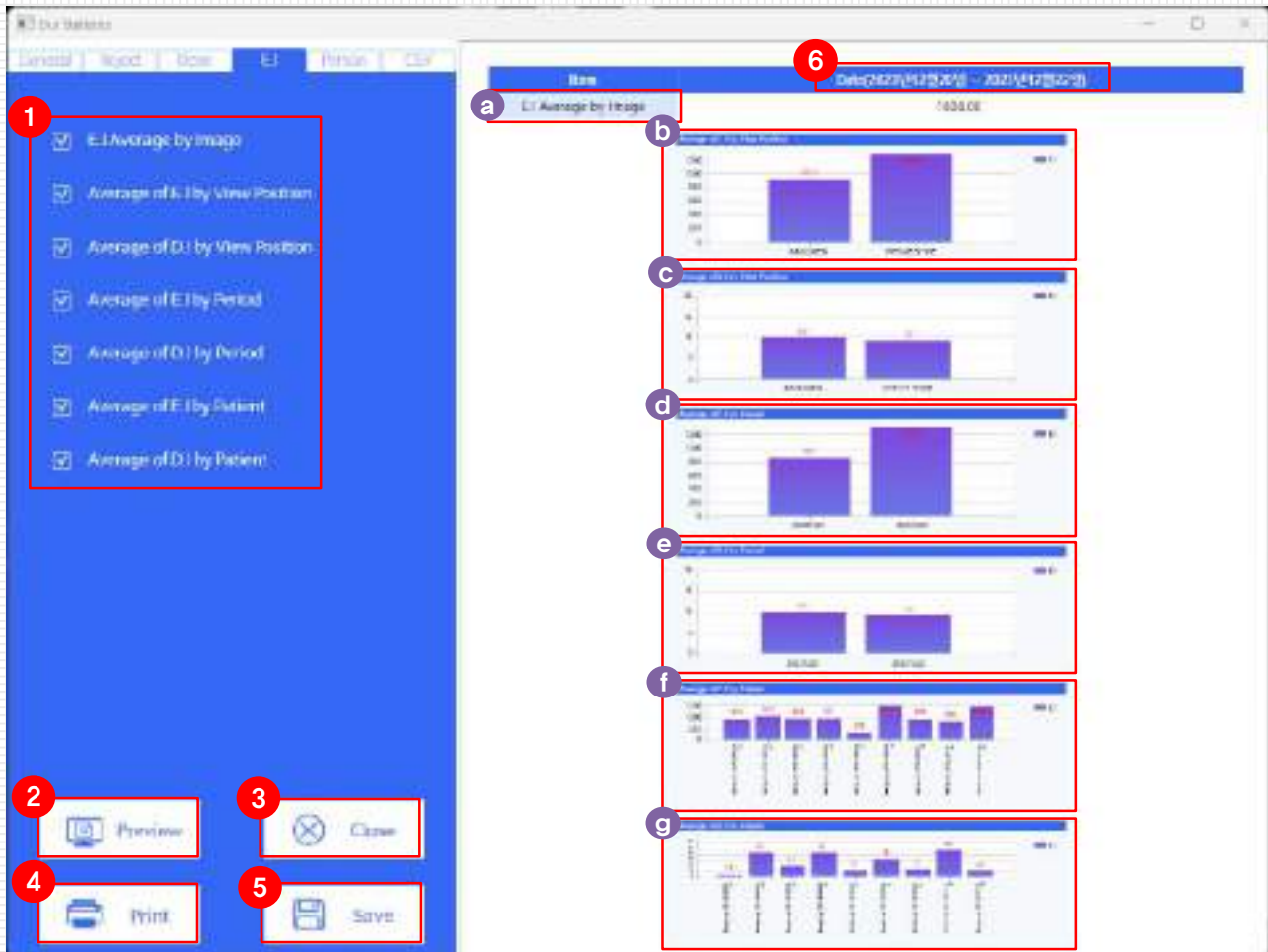
02

Graph



- d **Dose Average By Body Part** : Display the average of the dose for body part.
- e **Dose Average By Period** : Display the average of the dose for period.
- f **Dose Average By Operator** : Display the average of the dose for operator.
- g **ESD Average By View Position** : Display the average of the ESD for view position

12.5 E.I



- 1 Select the item want to check. Only the item with the CheckBox selected are display.
 - a E.I Average by Image
 - b Average of E.I by View Position
 - c Average of D.I by View Position
 - d Average of E.I by Period
 - e Average of D.I by Period
 - f Average of E.I by Patient
 - g Average of D.I by Patient
- 2 **Preview**
- 3 Display the selected items.
- 3 **Close**
- Save the selected item information and close the stats.
- 4 **Print**
- Print the display item.
- 5 **Save**
- Save the preview of the selected stats item in PNG format to the desired folder.
- 6 **The date information of the saved DB.**

01

표

02

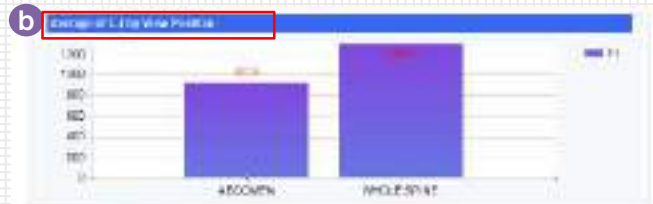
그래프



a E.I Average by Image : Displays the E.I average of Images.

b Average of E.I by View Position

- Displays the E.I Average of View Position.



c Average of D.I by View Position

- Displays the D.I Average of View Position.



d Average of E.I by Period

- Displays the E.I Average of Period.



e Average of D.I by Period

- Displays the D.I Average of Period.



f Average of E.I by Patient

- Displays the E.I Average of Patient.

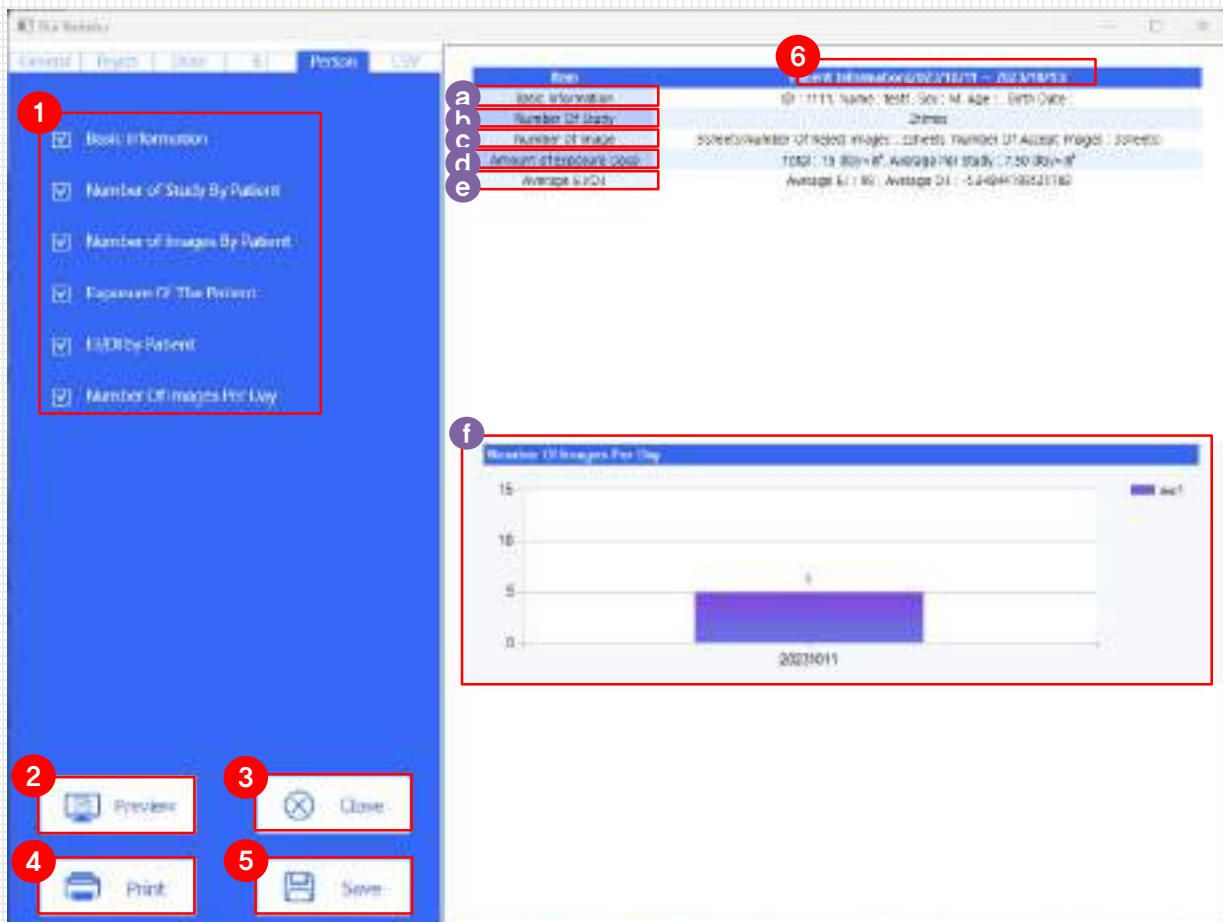


g Average of D.I by Patient

- Displays the D.I Average of Patient.



12.6 Person



1 Select the item want to check. Only the item with the CheckBox selected are display.

- a** Basic Information
- b** Number of Study By Patient
- c** Number of Images By Patient
- d** Exposure Of The Patient
- e** Average E.I/D.I
- f** Number Of Images Per Day

2 **Preview**

Display the selected items.

3 **Close**

Save the selected item information and close the stats.

4 **Print**

Print the display item.

5 **Save**

Save the preview of the selected stats item in PNG format to the desired folder.

6 **The date information of the saved DB.**

01
Table

Item	Patient Information(2023/10/11 ~ 2023/10/13)
a Basic Information	ID : 1111, Name : test1, Sex : M, Age : , Birth Date :
b Number Of Study	2times
c Number of Image	55sheets(Number Of Reject Images : 25sheets, Number Of Accept Images : 35sheets)
d Amount of Exposure Dose	Total : 15 dGy×cm ² , Average Per Study : 7.50 dGy×11"
e Average E.I/D.I	Average EI : 99 , Average DI : -5.34644199521769

- a **Basic Information** : Display basic information(ID, Name, Sex, Age, Birth Date) about the patient.
- b **Number Of Study** : Display the number of study by patient.
- c **Number Of Image** : Display the number of image(Reject/Accept) by patient.
- d **Amount of Exposure** : Display the amount of exposure by exam.
- e **Average E.I/D.I** : Display the Average E.I/D.I

02
Graph



- f **Number Of Images Per Day**: Display the number of images per day by patient.

12.6 CSV

The screenshot shows the 'CSV Statistics' application. The left panel has a list of statistics with checkboxes. The right panel shows a table with columns labeled a through g. The table data is as follows:

View Position	Patient Count	Image Count	Reject Count	DAP Average (mAs)	E.I. Avg	D.I. Avg	ESD Page
ABDOMEN DIRECT	53	53	0	0.00	664.75	NaN	0.00
ABDOMEN KUB	4	4	0	0.00	15.00	NaN	0.00
ABDOMEN SUPINE	3	3	0	0.00	792.00	NaN	0.00
CHEST PA	2	2	0	0.00	757.00	0.00	0.00
L-SPINE AP	2	2	0	0.00	1582.50	0.00	0.00
L-SPINE LAT	1	1	0	0.00	593.00	0.00	0.00
L-L-SPINE AP	1	1	0	0.00	1000.00	0.00	0.00
L-S-SPINE AP 1	1	1	0	0.00	393.00	0.00	0.00
L-S-SPINE AP 2	1	1	0	0.00	395.00	0.00	0.00
L-S-SPINE AP 3	1	1	0	0.00	393.00	0.00	0.00
L-S-SPINE AP 4	1	1	0	0.00	503.00	0.00	0.00
WHOLE SPINE AP (LOWER)	2	2	0	0.00	706.50	0.00	0.00
WHOLE SPINE AP (MID)	2	2	0	0.00	1255.50	0.00	0.00
WHOLE SPINE AP (UPPER)	1	1	0	0.00	952.00	0.00	0.00

1 Select the item want to check. Only the item with the CheckBox selected are display.

- a Display number of patient by view position.
- b Display number of image by view position.
- c Display number of reject by view position.
- d Display average of DAP by view position.
- e Display average of E.I by view position.
- f Display average of D.I by view position.
- g Display average of ESD by view position.

2 Preview

3 Display the selected items.

Close

4 Save the selected item information and close the stats.

Print

5 Print the display item.

Save

Save the preview of the selected stats item in CSV format to the desired folder.

Chapter 13

Custom Language

13.1 Custom Language

13.2 Work List

13.3 Database

13.4Exam

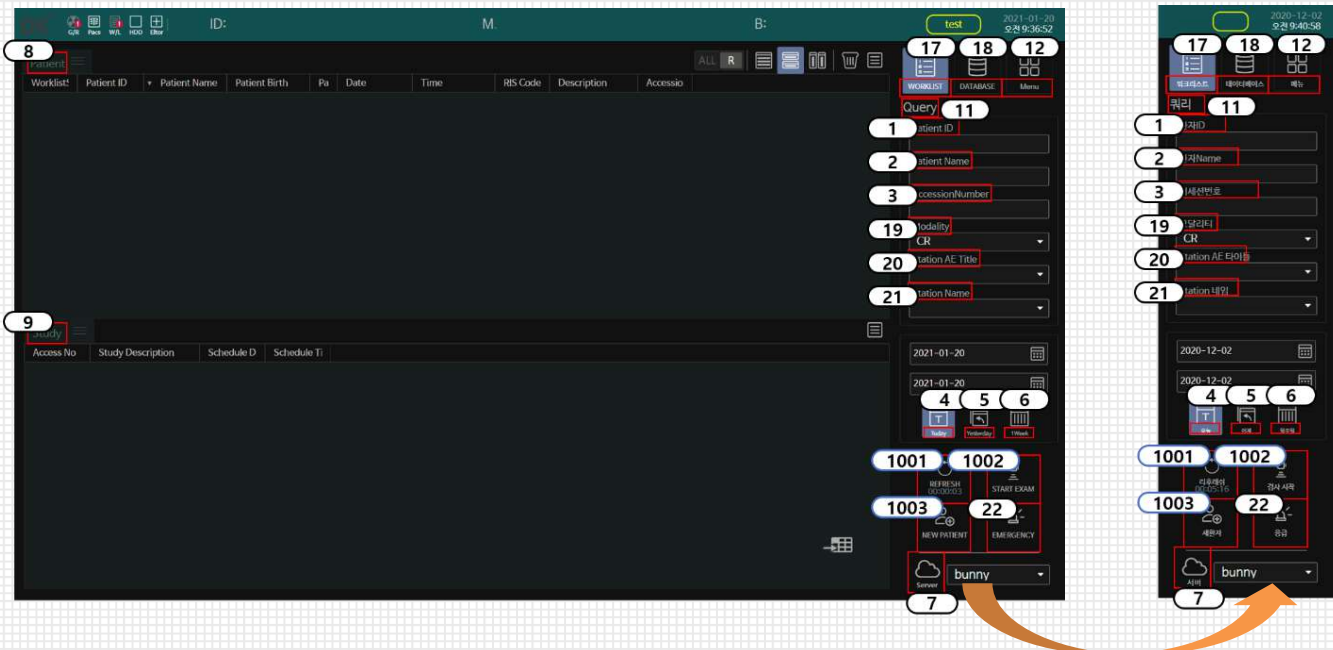
13.5 Configuration

13.6 Parameter

13.7 Dicom Print

13.1 Custom Language

It can check the code no of text in **Elui – xml - custom-language.xml**, and it can change the text as user want.



If modify the text of that number in the **Custom-language.xml**, it will be change.

Note

Code No 0~ is a definition of a common term.

```

<UI>
<code no="1">Patient ID</code>
<code no="2">Patient Name</code>
<code no="3">AccessionNumber</code>
<code no="4">Today</code>
<code no="5">Yesterday</code>
<code no="6">1Week</code>
<code no="7">Server</code>
<code no="8">Patient</code>
<code no="9">Study</code>
<code no="10">Image</code>
<code no="11">Query</code>
<code no="12">Menu</code>
<code no="13">TransferSyntax</code>
<code no="14">Size</code>
<code no="15">Type</code>
<code no="16">Save</code>
  
```

How to use 'custom_language.xml'

If the **custom_language.xml** does not exist after initial installation, copy and modify **multi-language.xml**.

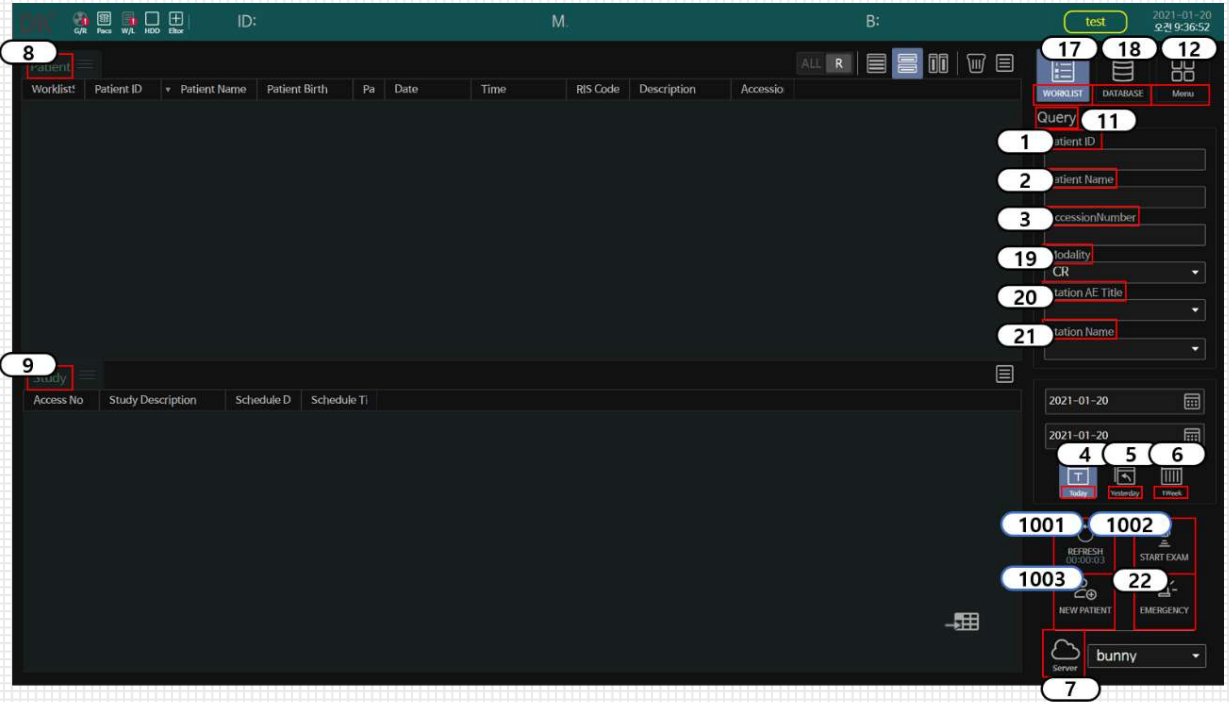
※ multi_language.xml and custom_language.xml

- multi_language.xml : A file installed by default when installing the program. When update, the file is overwritten.
- Custom_language.xml : Use by modify text as user want. When update, not changed or deleted.

13.2 Worklist

01 Main

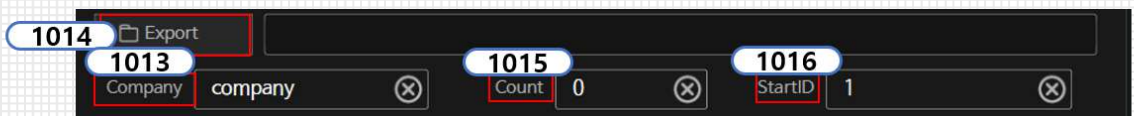
The code no in the Worklist start with 1001 ~



02 New Patient



Vehicle



1002
START EXAM

03 Import Excel

1006 File Path: D:\import excel accno desc포함.csv

1007 OpenFile 1008 Import

1009 Exist Column Header

1010 Add RIS Code Bodyps: 24 Stu: 9

1011 Sheet Column 1012 Dicom Tag

Patient Name	Patient ID	Sex	BirthDate	AccNo	Description
장그래	4587156	M	19990909	1	Chest PA
안영이	2445712	F	19990101	2	Chest PA
장백기	1157563	M	19990202	3	Chest PA
한석용	2544126	F	19990303	4	Chest PA
오상식	5712365	M	19990404	5	Chest PA
김동식	6123455	F	19990505	6	Chest PA
선지영	1576555	M	19990606	7	Chest PA
천관용	5454856	F	19990707	8	Chest PA
김부련	7854624	M	19990707	9	Chest PA

Patient Name:
 Patient ID:
 Sex:
 Birth:
 AccNo:
 Desc:

Vehicle

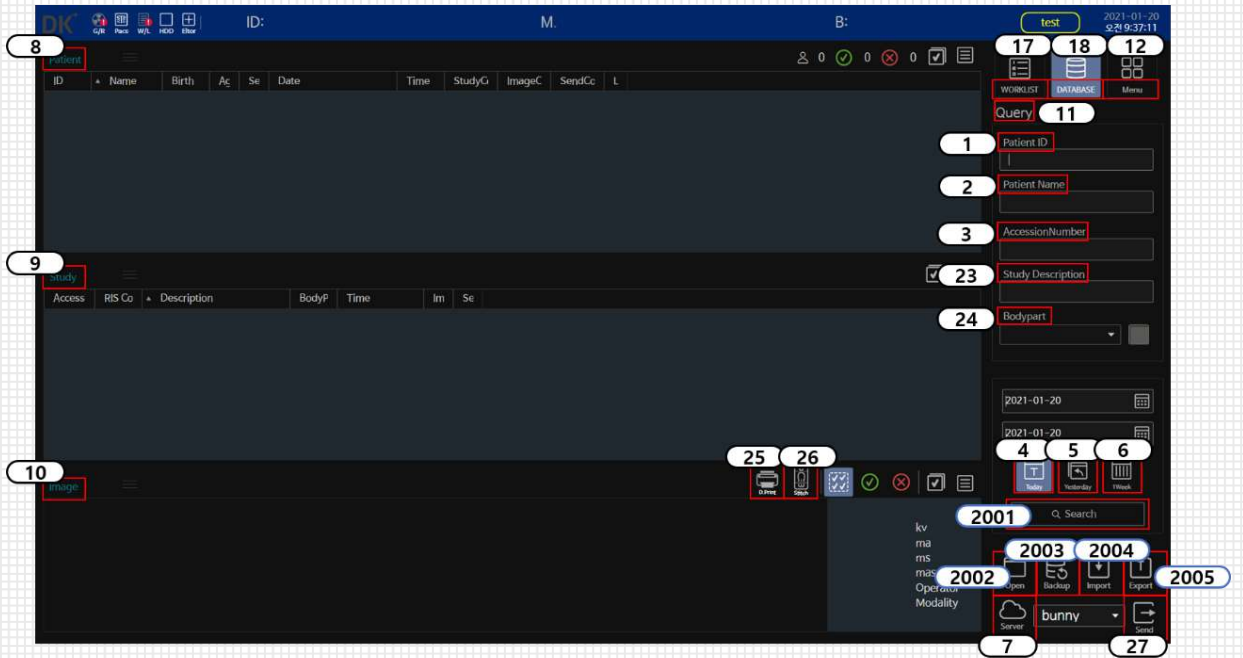
1013 Company: company

1014 Export: C:\Users\USER\Desktop\new

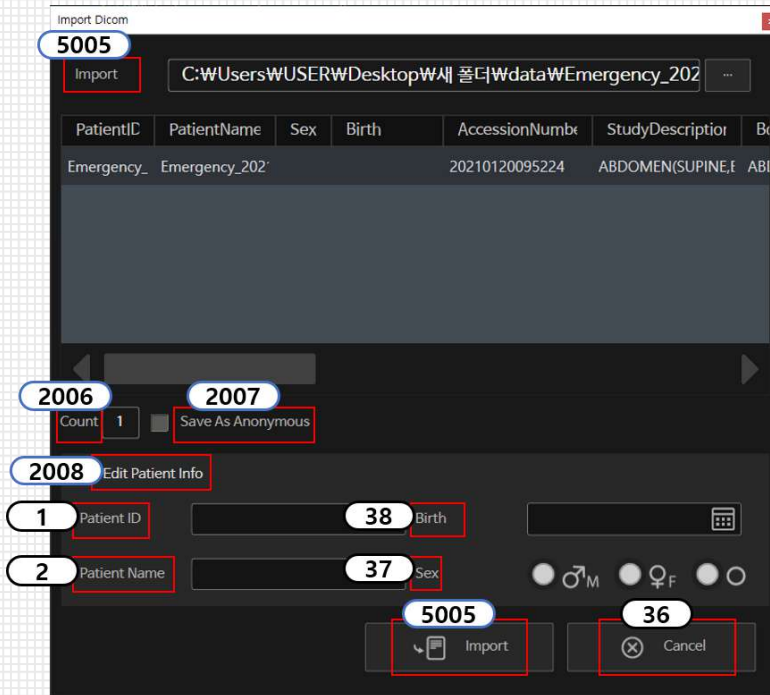
13.3 Database

01 Main

The code no in the Database start with 2001 ~

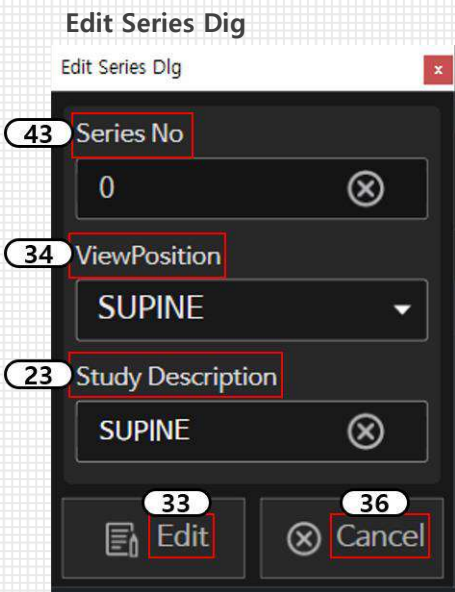
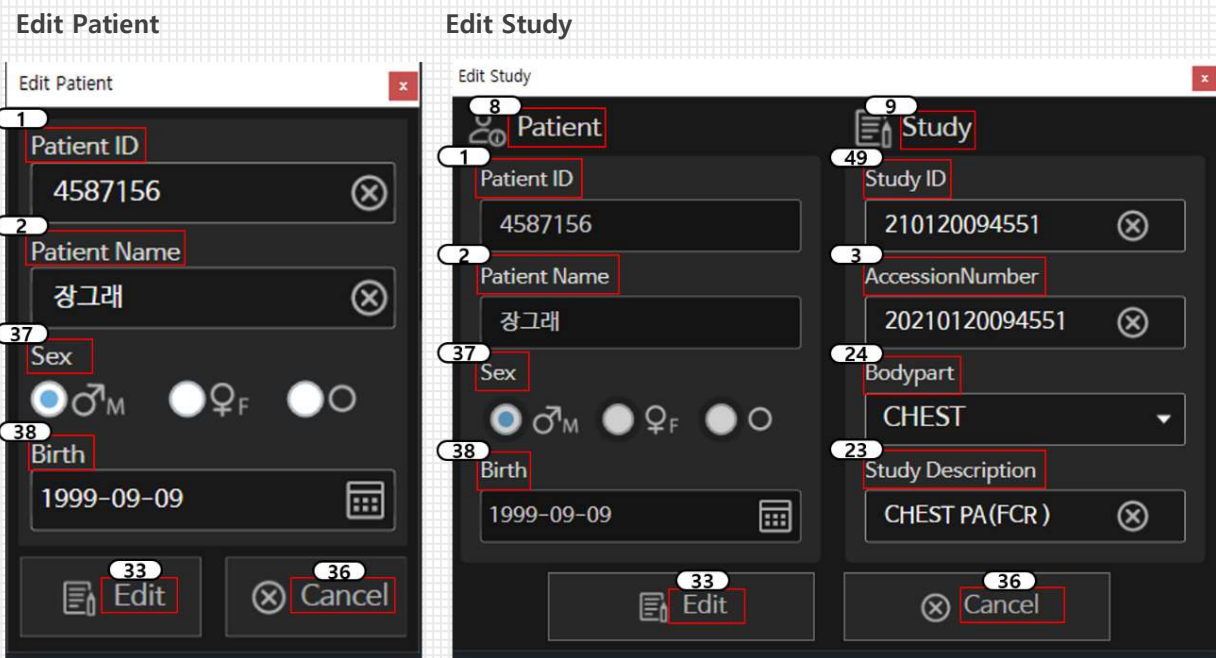


02 Import



03

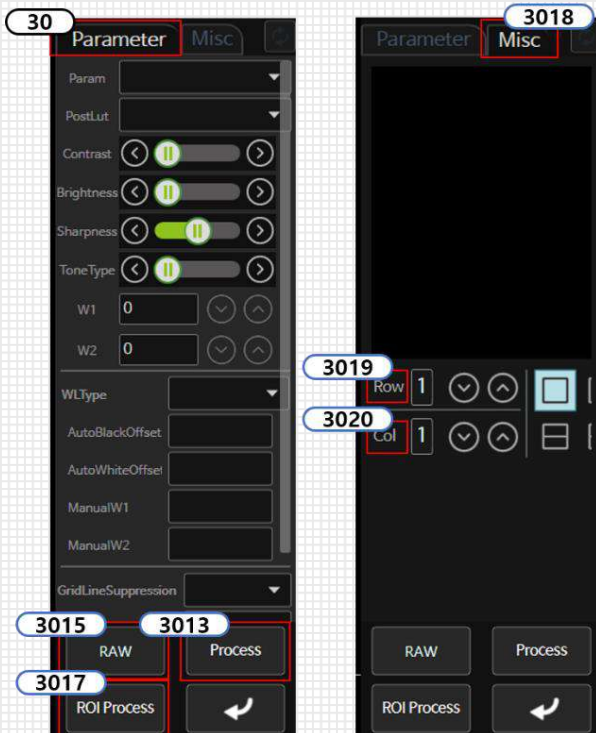
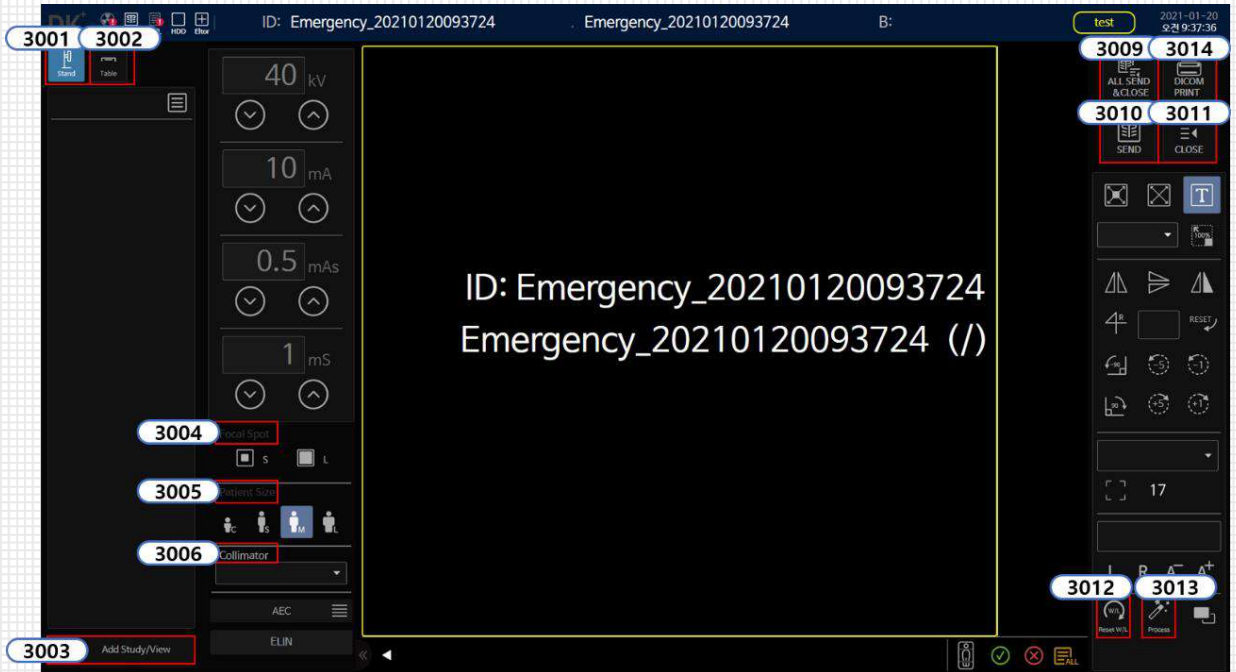
Popup



13.4 Exam

01
Main

The code no in the Exam start with 3001 ~



02

Popup

Auto Voice Player



13.5 Configuration

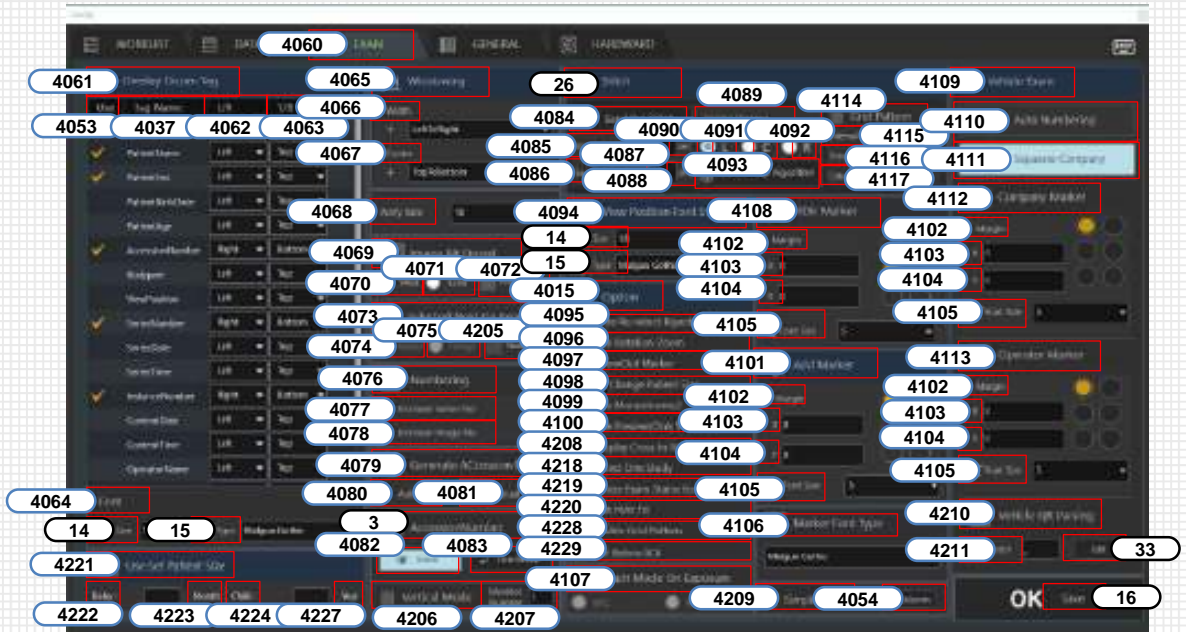
01 WORKLIST

The code no in the Configuration start with 4001 ~

02 DATABASE

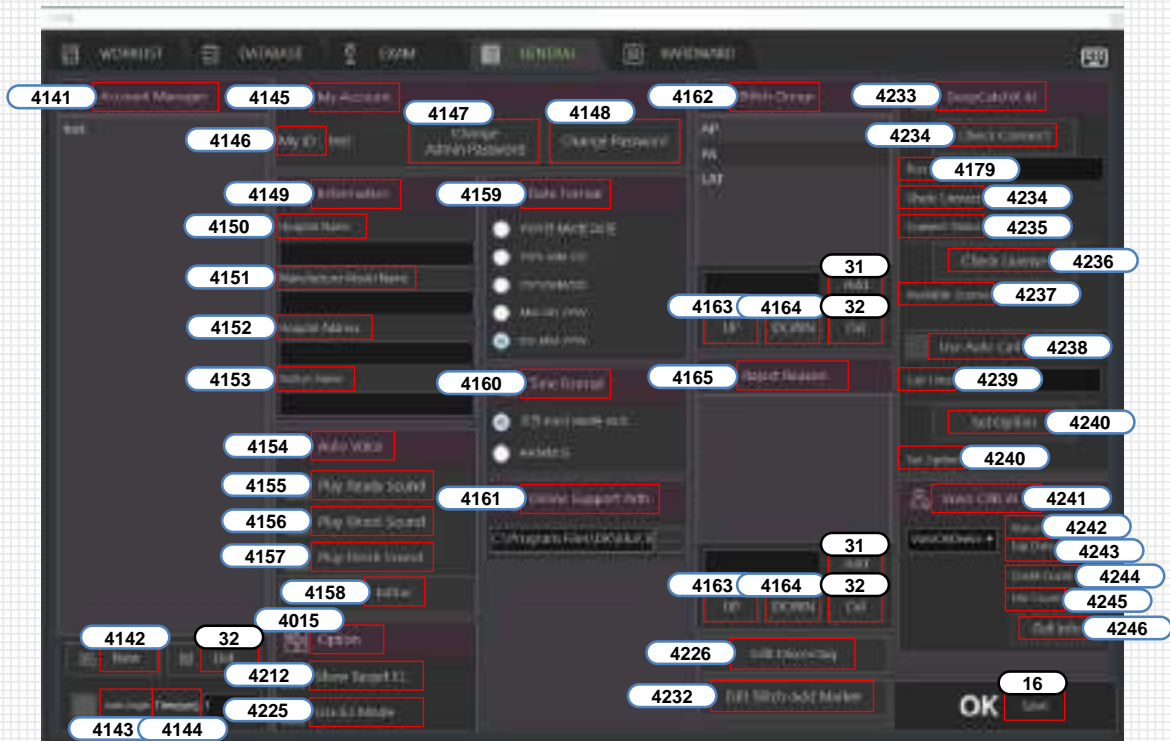
03

EXAM



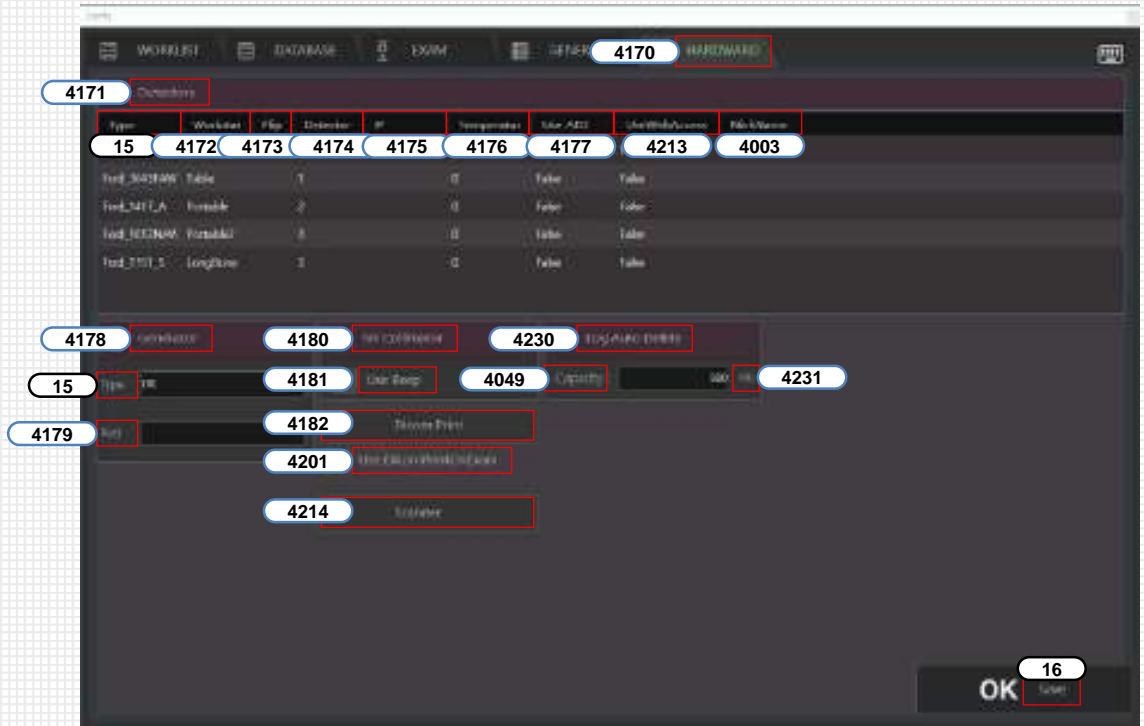
04

GENERAL



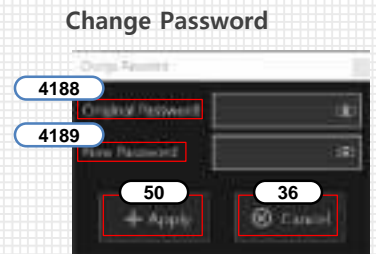
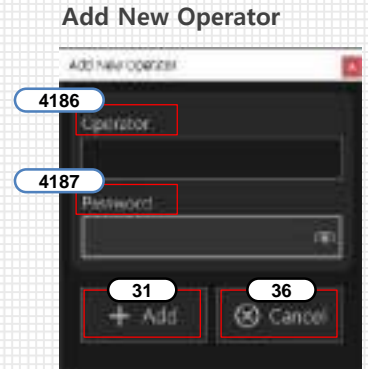
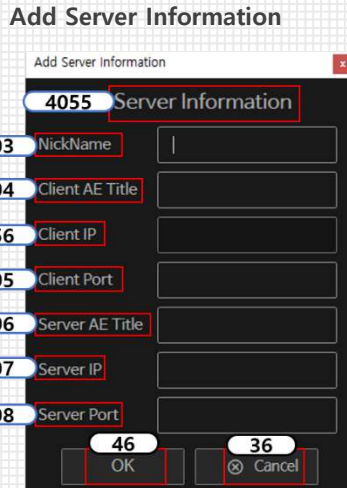
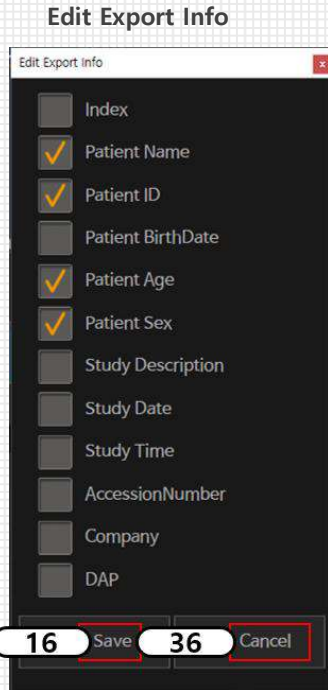
05

HARDWARD

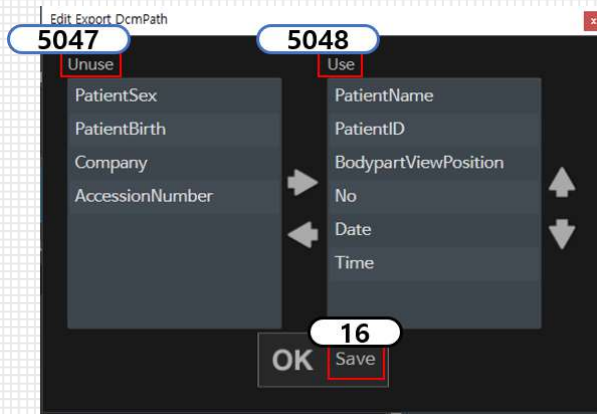


06

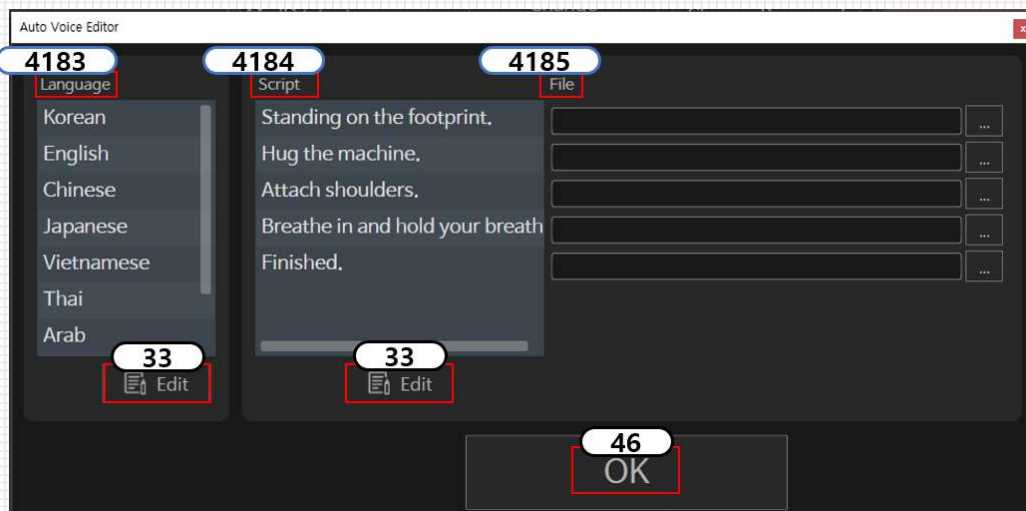
Popup



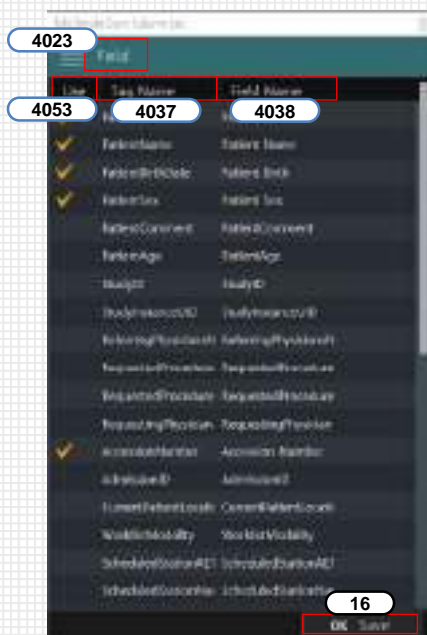
Edit Export DcmPath



Auto Voice Editor



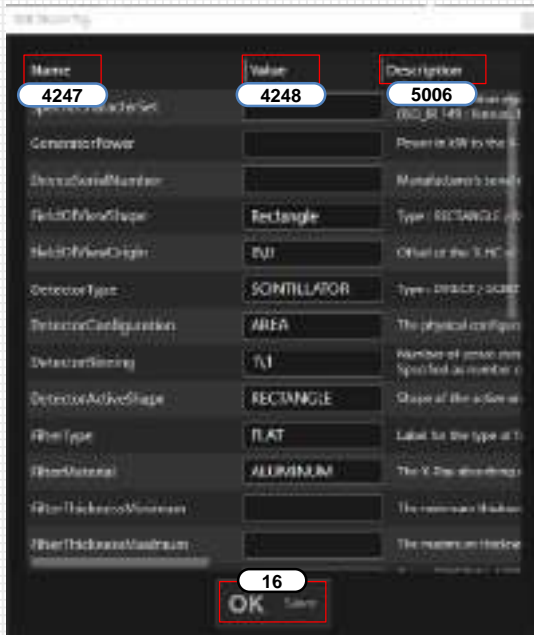
Edit Simple Exam Colum List



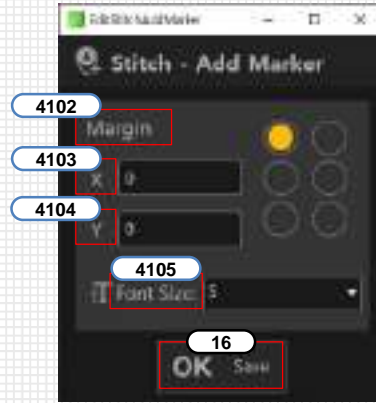
Edit QRPasing List



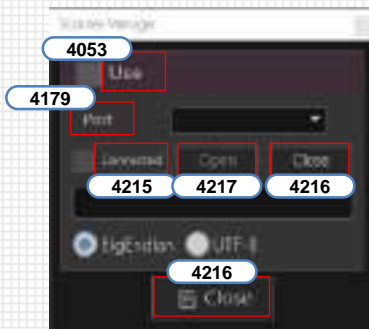
Edit Dicom Tag



Edit Stitch-Add Marker



Scanner

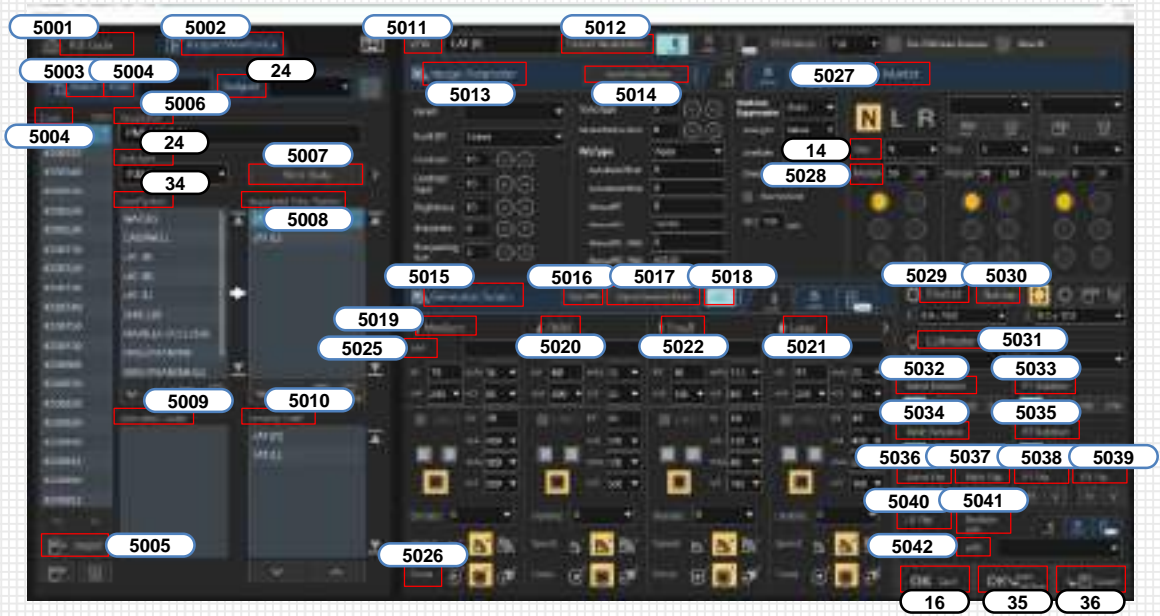


13.6 Parameter

01

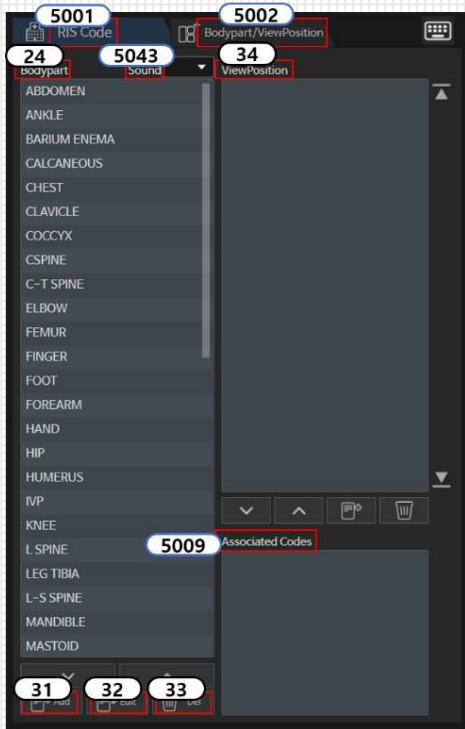
RIS Code

The code no in the Parameter start with 5001 ~



02

Bodypart/ ViewPosition



03 Popup

Add New ViewPosition

The 'Add New ViewPosition' dialog box contains the following elements:

- 5044**: A text input field labeled 'New ViewPosition Name'.
- 5045**: A dropdown menu labeled 'Select Source BodyPart' with 'ABDOMEN' selected.
- 5046**: A dropdown menu labeled 'Select Source ViewPosition'.
- 46**: An 'OK' button.
- 36**: A 'Cancel' button.

Add New Code

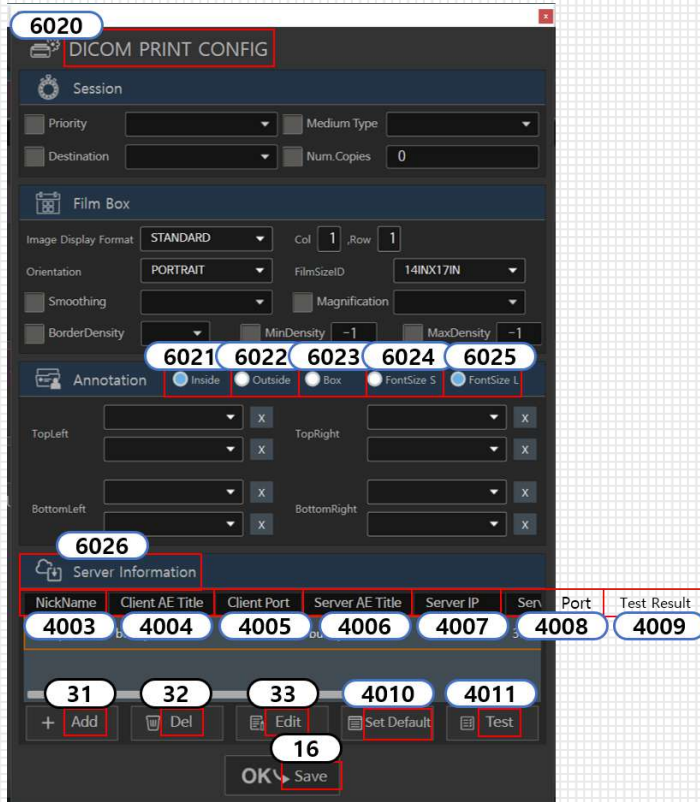
The 'Add New Code' dialog box contains the following elements:

- 5004**: A text input field labeled 'Code'.
- 23**: A text input field labeled 'Study Description'.
- 46**: An 'OK' button.
- 36**: A 'Cancel' button.

13.7 Dicom Print

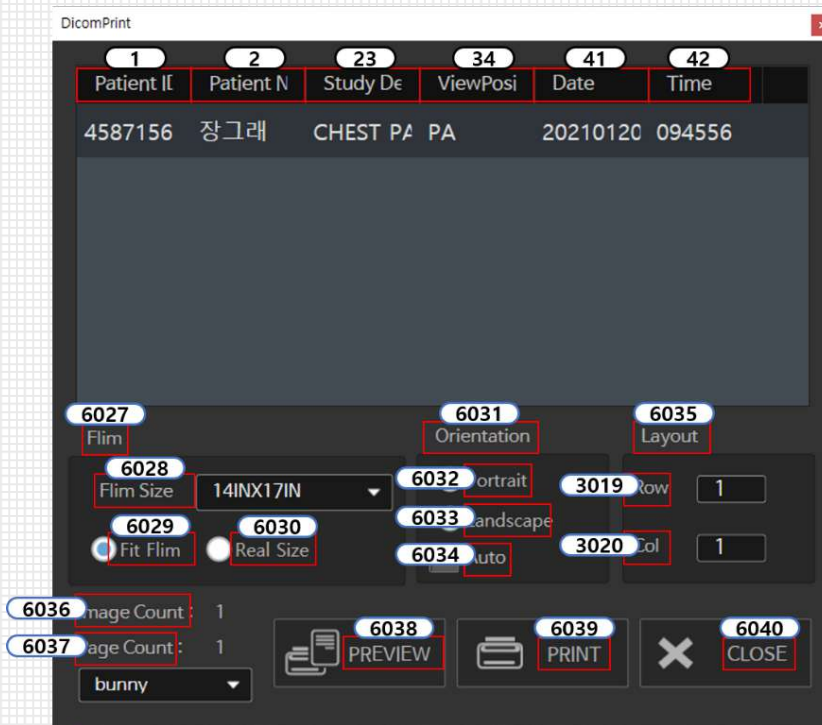
01

Dicom Print Config



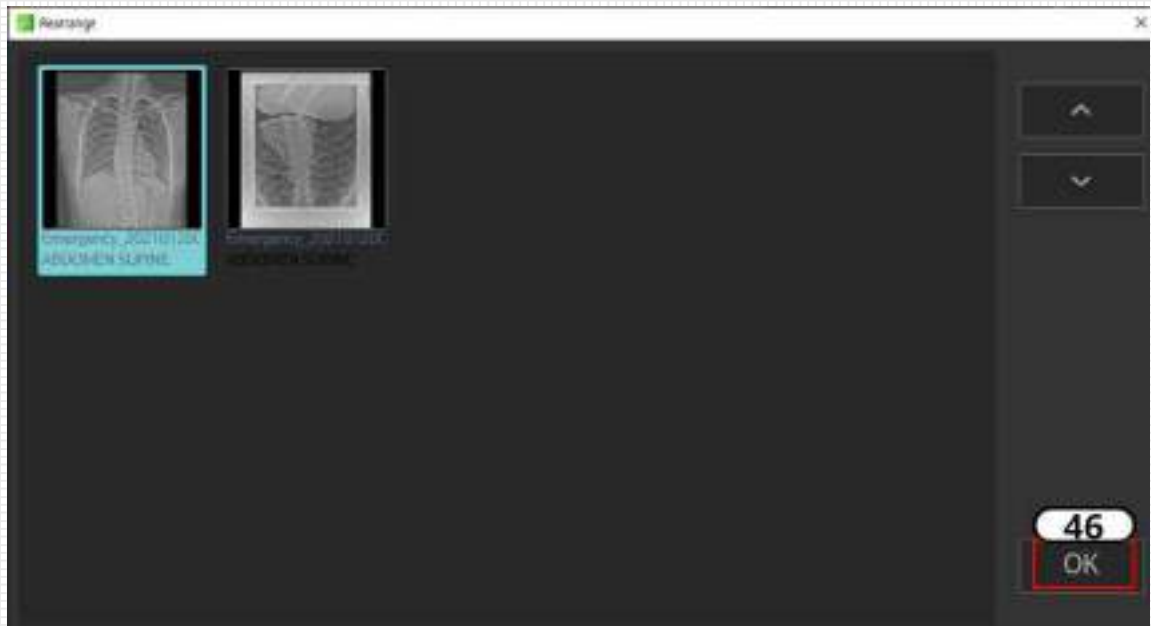
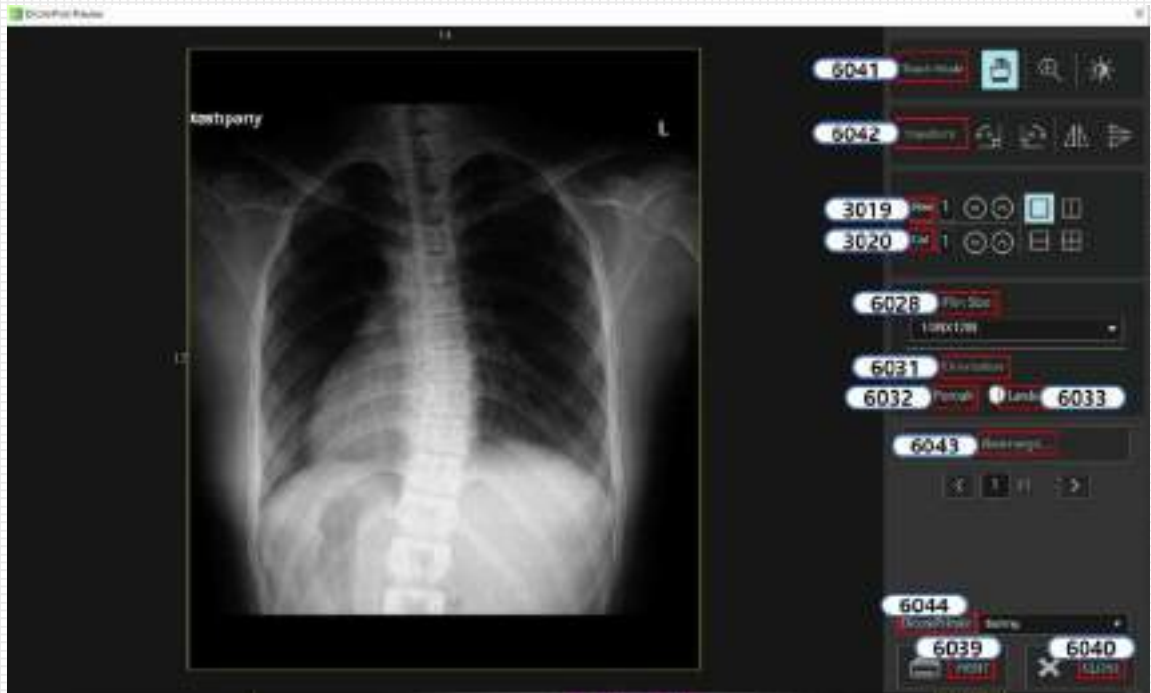
02

Dicom Print



03

Dicom Print Preview



Chapter 14

Web Access Function

14.1 Settings for Web Access Function

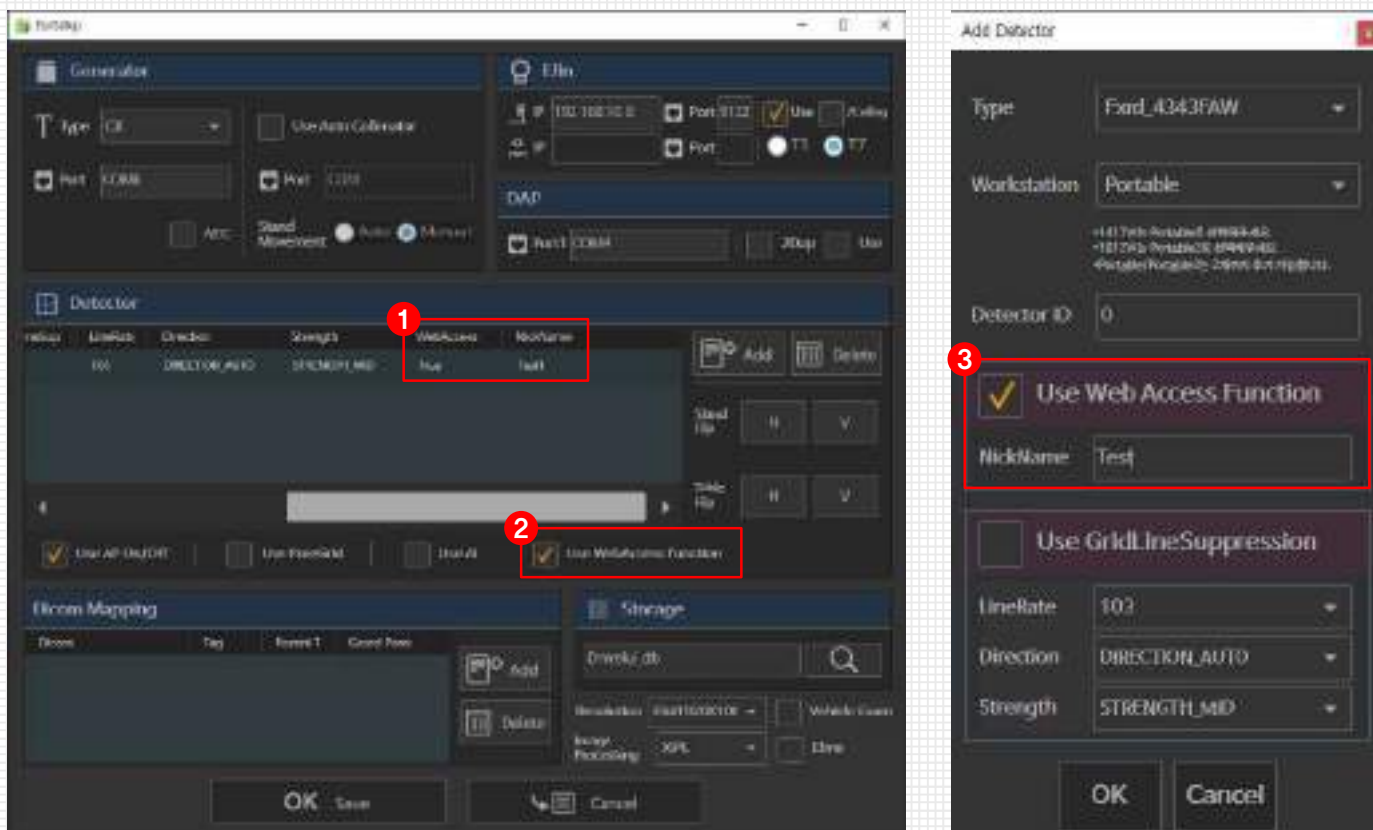
14.2 Web Access Function Screen

14.3 Bodypart – Set Key for each ViewPosition

14.4 Workflow for Web Access Function

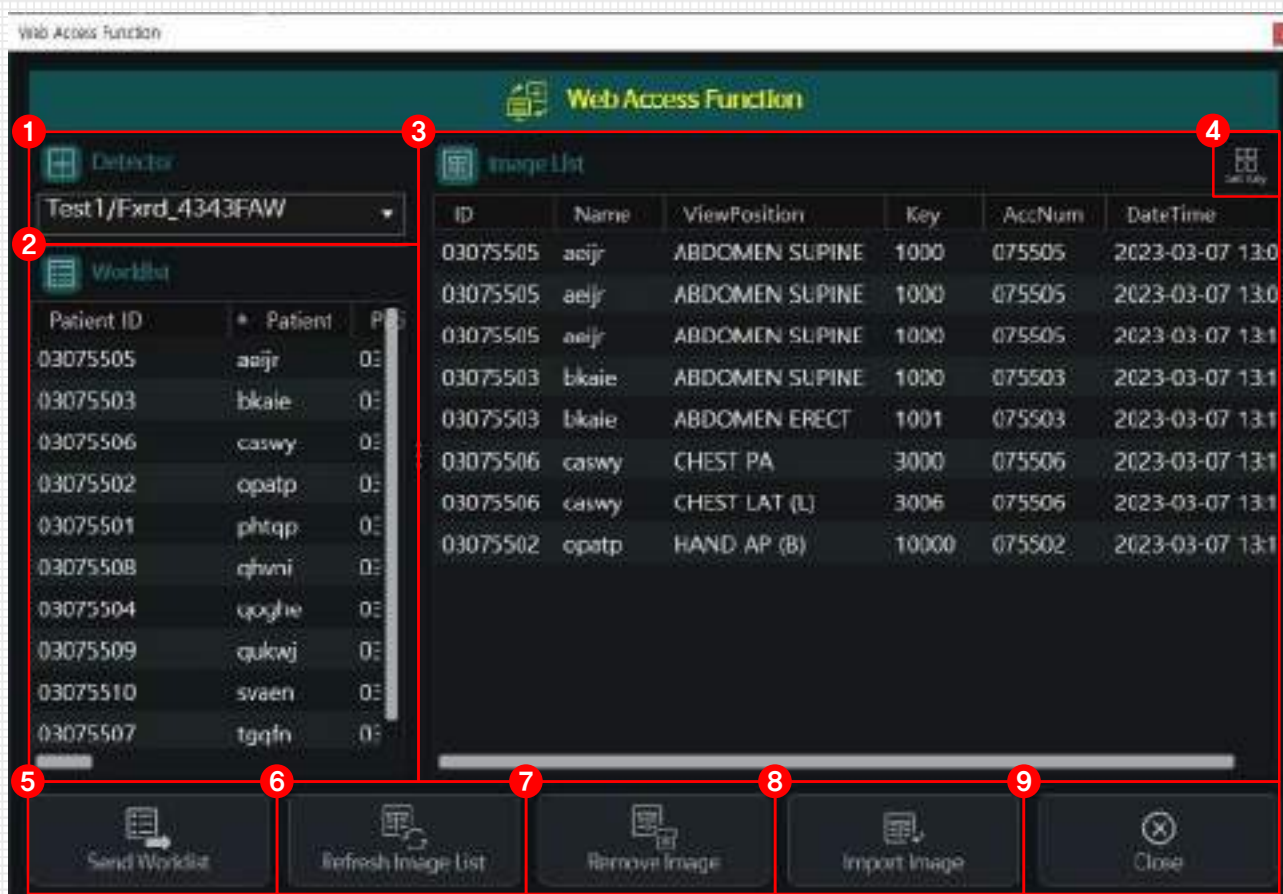
14.1 Settings for Web Access Function

The Web Access Function is a function that allows you to perform the Exam by setting the Detector to AP Mode on a laptop or tablet without Elui installed, and to get images from Elui, transmit them to PACS, and store them in the Database.



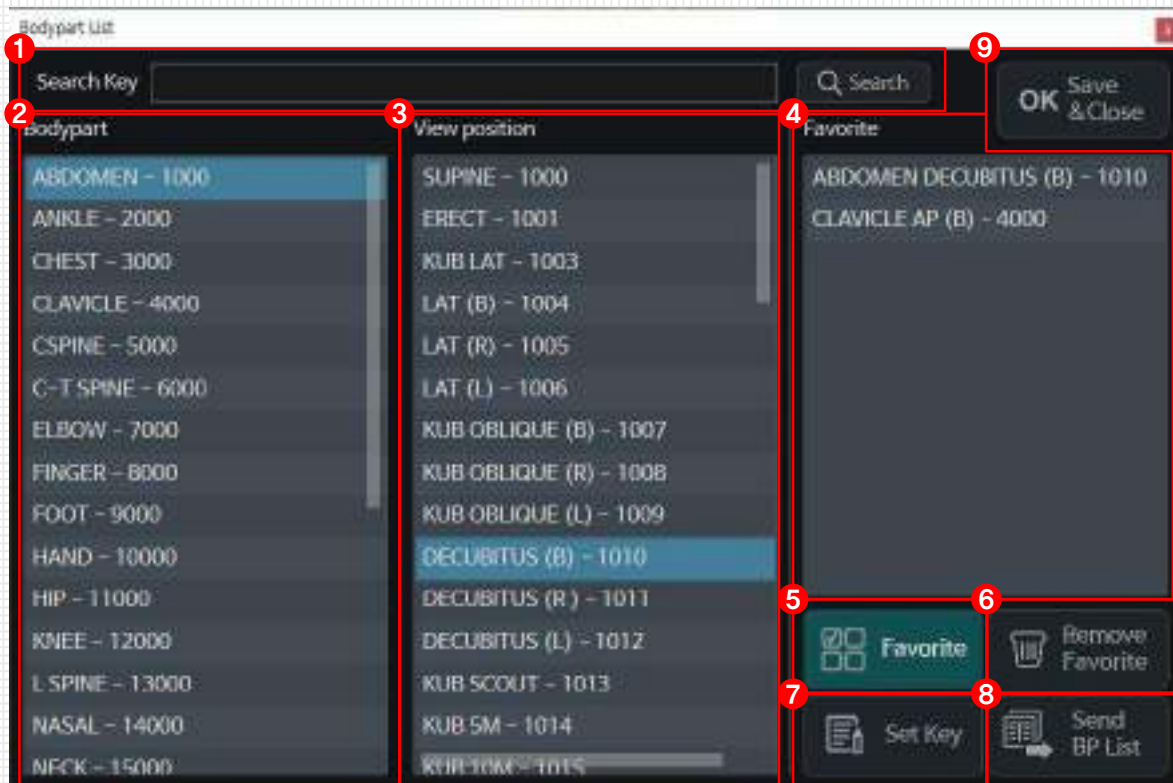
- 1 Display Web Access setting values for each Detector.
- 2 Select whether or not to use the Web Access Function.
- 3 Set Web Access for each Detector.
 - Whether to use the Web Access function for each Detector
 - Nickname by Detector

14.2 Web Access Function Screen



- 1 Detector**
 - Displays a list of Detectors that have Web Access Function enabled.(NickName/ Detector Model Name)
- 2 Worklist**
 - Display a list of patients to send to the Detector. It was displayed the same as the list on the Worklist screen.
- 3 Image List**
 - Displays a list of images stored in the Detector.
- 4 Set Key**
 - When clicked, the BodyPart – Set Key for each ViewPosition screen appears.
- 5 Send Worklist**
 - Send ②Worklist to the Detector.
- 6 Refresh Image List**
 - Refresh the ③Image List of Detector.
- 7 Remove Image**
 - Delete the selected image from the ③Image List. (Images stored inside the Detector are also deleted.)
- 8 Import Image**
 - Import the selected image from the ③Image List and display it on the Exam screen. Available in Exam Mode only.
- 9 Close**
 - Close the Web Access Function screen.

14.3 BodyPart–Set Key for each ViewPosition



- ① **Search Key**
 - Search by entering the Key value you want to search for it.
- ② **Bodypart**
 - Display a list of BodyPart.(BodyPart – Key Value)
- ③ **ViewPosition**
 - Display a list of ViewPosition.(ViewPosition – Key Value)
- ④ **Favorite List**
 - Display a list of ViewPosition set as Favorite.(BodyPart ViewPosition – Key Value)
- ⑤ **Favorite**
 - Selects the desired ViewPosition and set it as Favorite.
 - If you select a ViewPosition that you have set as a Favorite, it will display in the ④Favorite List.
- ⑥ **Remove Favorite**
 - You can select the ViewPosition you want to delete from ④Favorite List and delete it from the list.
- ⑦ **Set Key**
 - Assign Key values to all BodyPart and ViewPosition. Only by assigning Key values, it possible to distinguish BodyPart/ViewPosition for each filmed image.
- ⑧ **Send BP List**
 - Send Bodypart/ViewPosition List to the selected Detector.
- ⑨ **Save & Close**
 - Save the set value and Close the screen.

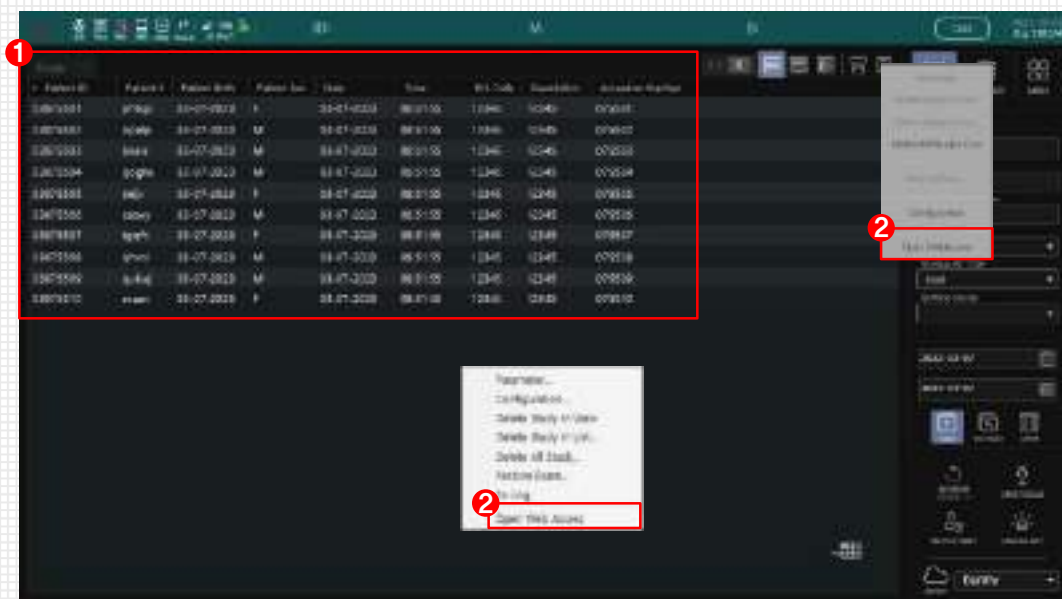
Note

※ When you run Web Access for the first time, must proceed with Set Key and Send BP List.

14.4 Workflow for Web Access Function

01

Starting Web Access



1 Refresh Worklist

- Refresh the list of the Worklist to update the patient list.

2 Open Web Access

- Click to display the Web Access Function screen.
 - 1) When selecting a patient in the Worklist, only the selected patient is set to the Web Access patient list.
 - 2) When a patient is not selected in the Worklist, the entire Worklist is set as the Web Access patient list.

02

Send Worklist

Send patient list got from Worklist to Detector.

1 Worklist

- Display the patient list got from Worklist.

2 Detector

- Select the Detector to send the patient list.

3 Send Worklist

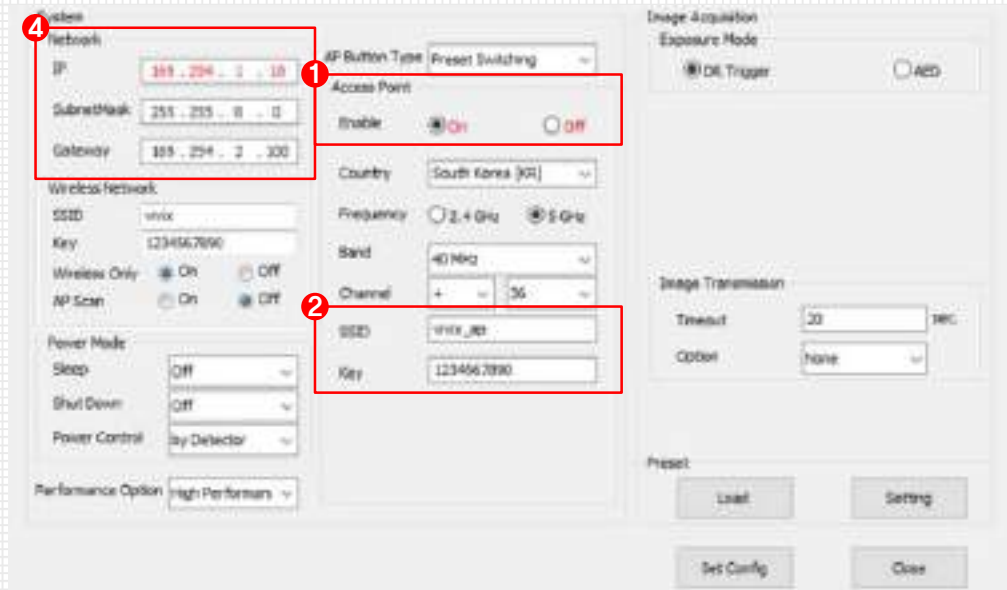
- Send the patient list to the selected Detector.



03

AP Mode On

After exiting Elui, run VIVIX Setup and enter [Configuration] of the Detector that will use the Web Access Function.



1 Access Point(AP)

- Change the Detector's AP Mode to On.

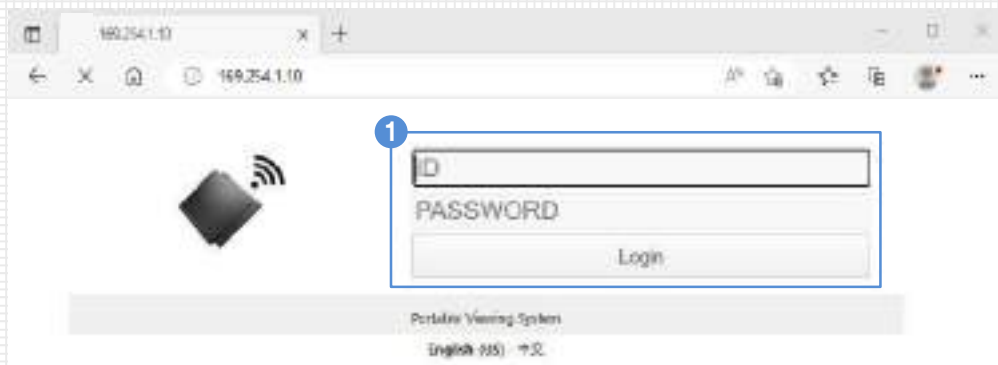
2 ※ Press the AP Button on the exterior of the Detector to change to AP Mode.

3 AP Wireless Communication SSID and Key
It's the SSID and Key value of the Detector AP.
Detector AP connection

- Select and connect the Detector AP on the laptop or tablet to be connected with the Detector, and enter the Key value to connect the wireless communication network by Detector AP.
- If AP Mode is On, disconnected with Elui.

4 Network

- After running a Web Browser such as Edge or Chrome on a laptop or tablet connected with Detector, enter ④Network IP in the address bar to go to the Web Access web page.



1 Login

- Enter the ID and Password to enter the Web Access page.

Note

※ Web Access ID and Password
ID : user / Password : user

04

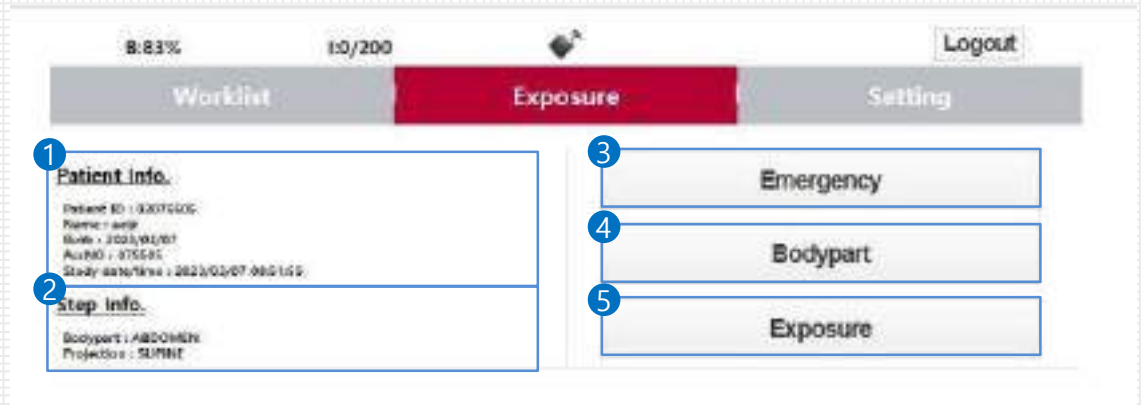
Exam the Web Access

1 Worklist

- It shows the sent Worklist from Elui.
- Double-click the patient to do Exam in the Worklist to move to the Exposure screen.



2 Exposure



- 1 **Patient Info** : Displays selected patient information.
- 2 **Step Info** : Display the Bodypart and Projection to do Exam.
- 3 **Emergency** : Click to proceed with an Emergency Exam by randomly specifying patient information.
- 4 **Bodypart** : Display the list of BodyPart/ViewPosition to do exam and selects the ViewPosition to do exam. When selected, it is displayed in 2 Step Info.

Selected

- Displays the selected ViewPosition for the patient's Exam.

Favorite

- Displays the list of ViewPosition set as Favorite in Elui.

All

- List all BodyPart/ViewPosition sent from Elui.

- 5 **Exposure** : If you click it, set it to enabled shooting mode, and if you shoot an X-ray, an image displays.

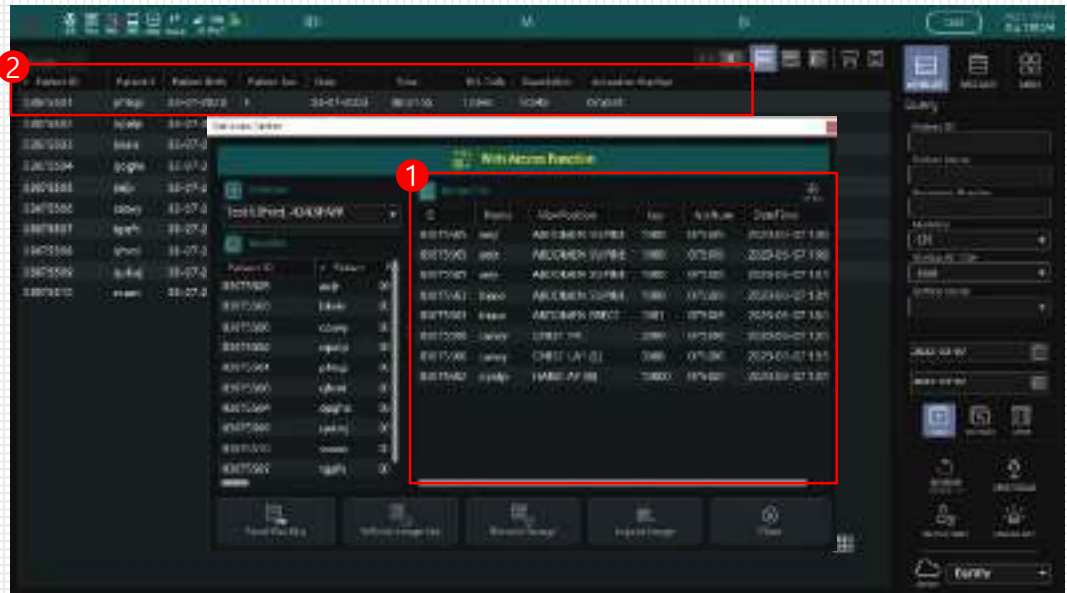
- 6 **Complete** : Return to the Worklist and click the patient to see a list of ViewPosition that the exam completed.



05

Import image from Elui

- 1) After the all Exam completed, set Off the Detector's AP Mode and change it to Station Mode.
- 2) Restart Elui and connect with Detector. Display the Web Access Function screen from the Worklist screen.

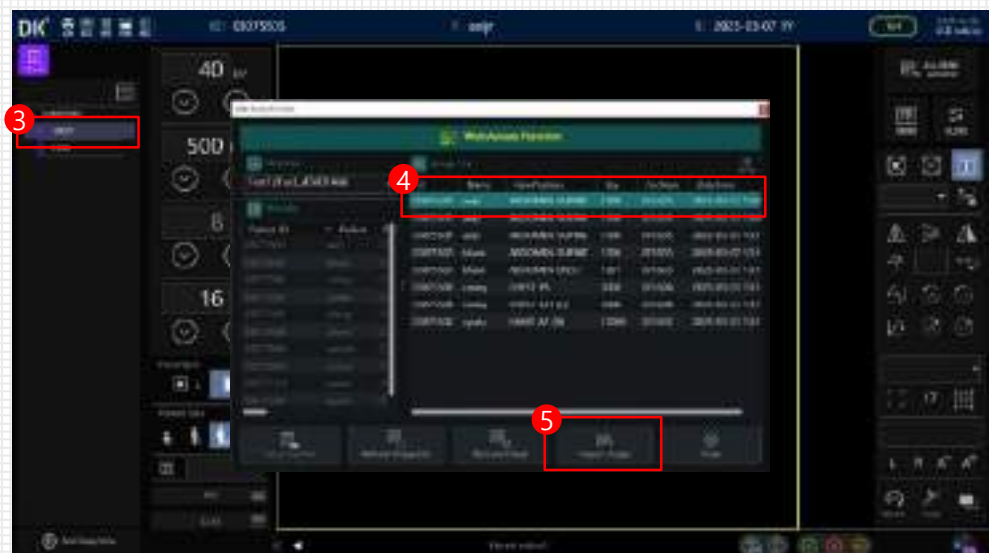


1 Image List

- Display the list of images that did exam saved at Detector.

2 Select patient to Import

- Double-click the patient to Import on the Worklist screen to enter the Exam screen. You can proceed with the Web Access Function screen is opened.



3 Select ViewPosition

- Select the ViewPosition to Import image.

4 Select Image

- Select the image to Import.

5 Import Image

- When clicked, the image selected in 4 is imported as the image of the ViewPosition selected in 3.

14. Web Access Function

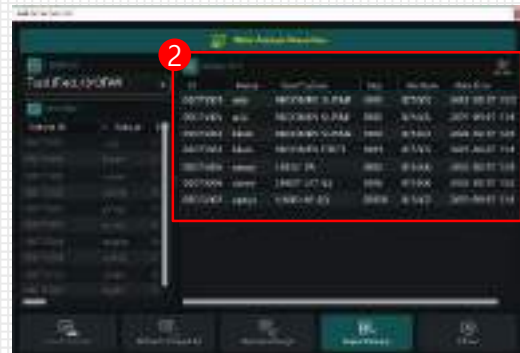


① Display Image

- The selected image is imported and displayed on the screen.

② Update Image List

- Imported image disappear from the list.



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Short Key

Mode	Short Key	Description
Worklist/Database	F2	Worklist /Database Search
Exam	F3	Send
Exam	F4	Close
Exam	F5	Send & Close
Worklist/Database	F6	Start /Restart Exam of the selected Study.
Worklist/Database	F7	Go to the Worklist /Database screen
Exam	F9	The screen will be displayed that enables selecting a language for Auto Voice.
Exam	F10	"Inhale deeply and hold your breath. Now, X-raying begins." Voice play
Exam	F11	"Exhale deeply and hold your breath. Now, X-raying begins." Voice play
Exam	F12	"Please do not move. Now, X-raying begins." Voice play

Short Term

AE	Application Entity	LED	Light Emitting Diode
A.E.C	Automatic Exposure Control	mA	Milliampere
APR	Anatomically Programmed Radiography	OCS	Order Communication System
CD	Compact Disk	PACS	Picture Archiving and Communication System
DB	Database	RIS	Radiology Information System
DICO M	Digital Imaging and Communications in Medicine	ROI	Region Of Interest
		SCU	Service Class Unit
DR	Digital Radiography	SCP	Service Class Provider
HIS	Hospital Information System	SID	Source to Image Receptor Distance
ID	Identification Number	SOP	Service-object Pair
kV	Kilovolt	VR	Value Representation

DK⁺Medical Systems