



# SUPiA User Manual



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# SUPiA User Manual

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SUPiA product is designed and developed to satisfy local & international standards of safety. Operator should learn exactly how to use and handle this device before he uses. This manual is to educate and guide correct way to whom it may operate this product. Before start the device, you must completely understand about how to use SUPiA unit.

If there is any question or unidentified functions on the product, please contact local distributor or manufacturer.

Manufacturer

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# 1. Introduction

## 1.1 Safety guideline

### 1.1.1 General Recommendation

- ❖ Please familiarize yourself with the safety and operating instructions before using the product.
- ❖ Please keep this manual well so that you can view it later.
- ❖ Please note that all warnings listed in the manual.
- ❖ Please Follow all instructions when operating and using.

### 1.1.2 Warnings and Symbols

The below symbols are used in the manual.



#### Danger

This symbol is used when there is a possibility that serious damage or accidents happen in the physical and human.

If you operate or change the software and hardware arbitrarily not in a way defined by the manufacturer, the warranty of manufacturer and supplier will be ineffective.



#### Cautions

The symbol indicates the procedure to be followed exactly to all users of the system to prevent file corruption or damage to system components, loss of data, or software applications.



#### Importance

The symbol emphasizes the important policy information influencing on the manual and how to use the product.



#### Reference

It provides the additional information such as detailed descriptions, tips or precautions.

### 1.1.3 General Safety Guideline



- ✓ This product complies with all safety regulations applicable to medical equipment. However, all users who operate the system should be familiar with the potential risks.
- ✓ If the product does not operate normally, please contact the authorized agency who is approved by **Signers**.
- ✓ Do not attempt to modify this product in whole or in part, without the prior written permission of **Signers**.
- ✓ Do not access to the system without notice.
- ✓ If the product does not operate or is out of control as described in this manual, please perform the following instructions.
  - Follow the safety precautions that are described in this manual
  - Stop to use the system and don't change any thing.
  - Report the problem to the authorized distributor immediately and follow instructions.
- ✓ Only use cassettes provided by **Signers**. Check the cassettes periodically and replace if there is a defect.
- ✓ Notice the product specifications, system accuracy and stability limitations.
- ✓ To achieve stability of ground connection, it should be connected with a grounded electric outlet.

### 1.1.5 Electrical Hazard



- ✓ Do not remove the cover or plug. Sine high-voltage current flows inside, it may cause serious injury.
- ✓ When replacing a fuse , the certified service experts by **Signers** will have to check the system before replacing. Do not replace the fuse by yourself.
- ✓ The liquids penetrated the internal of the product can cause a short circuit and a fire. Therefore, do not leave food or liquids on the system.
- ✓ Electrical medical equipment requires the special precautions with regard to electromagnetic EMS.
- ✓ Portable and Mobile RF communication equipment can affect EMS performance of electrical medical equipment.
- ✓ If using a cable except for the cable which is sold by the manufacture as the replacement parts of internal component, it increases the release of medical devices or reduces the resistance function.
- ✓ Do not use the system at the place adjacent to or stacked with other equipment. If you need to use at adjacent or overlapping position, you should make sure if it works properly.

### 1.1.6 Explosion and implosion Hazard



- ✓ Do not operate the equipment in the presence of explosive liquids, vapors or gases.
- ✓ Do not plug in or turn on the system if there is any risk materials. If you find a hazardous substance after turning on the device, you must not turn off the system or unplug. First, avoid and ventilate the area and then, turn off the system.

### 1.1.7 Overheating



- ✓ Do not block the air flow around the device. To prevent system from overheating and damaging, it must always maintain a distance of at least 15cm from the device.

### 1.1.8 Movement



- ✓ The weight of this product is approximately 21.5kg. If moving the equipment forcedly, you may be injured seriously or the equipment can be damaged.

### 1.1.9 Natural Disaster



- ✓ If there is a critical error or damage in the equipment caused by natural disaster (Lightning, flood, etc.), it's not related to the manufacturer's responsibility.

## 1.2 Minimum Requirements



### 1.2.1 Computer Minimum requirement

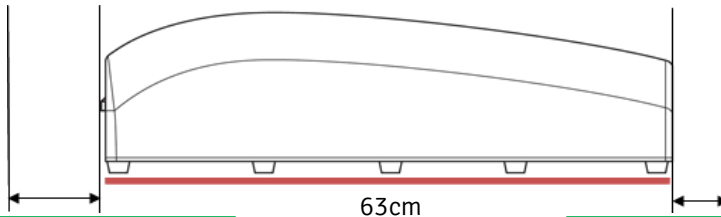
OS	Win 7 or 10	Graphic Card	Intel HD 2500
CPU	Intel i5	HDD	500GB
RAM	4GB	Network	100Mbit

### 1.2.2 Monitor Minimum Requirement

- ✓ Full HD 1920x 1080

### 1.2.3 Installation Place Size

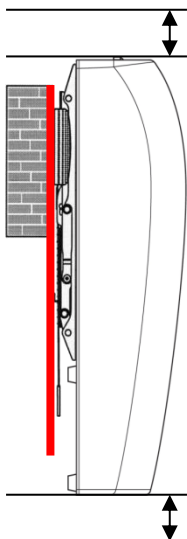
- ✓ When installing a Table-Top way ( It needs more than 1.4m of free space at the minimum)
  - Install in accordance with the horizontal installation base.



For the space of inserting cassettes or etc, secure the space of over 70cm at the minimum.

Given the operation of switch, power cord and USB cable, ensure available space of more than 10cm at least.

- ✓ When installing a Wall-hanging way
  - You should use the wall bracket provided by Signers. In case of an incident occurring by using the third-party product, SIGNERS hold no responsibility.



- ✓ Considering the height of the user, install without inconvenience of inserting and drawing out the cassettes.
- ✓ Given the operation of switch, power cord and USB cable, ensure available floor space of more than 10cm at least.
- ✓ Install at the place to avoid the scattered radiation as much as possible.
- ✓ Install considering the movement for X-ray.

### 1.2.4 Temperature and Humidity

- ✓ Temperature : 10 ~ 30 °C
- ✓ Humidity : 15 ~ 85% RH

### 1.2.5 Power Outlet and Ground Connection

- ✓ Power Outlet : Please check what Volt is wall power supply.
- ✓ Ground Connection : Please make sure the ground connection is in a good condition.

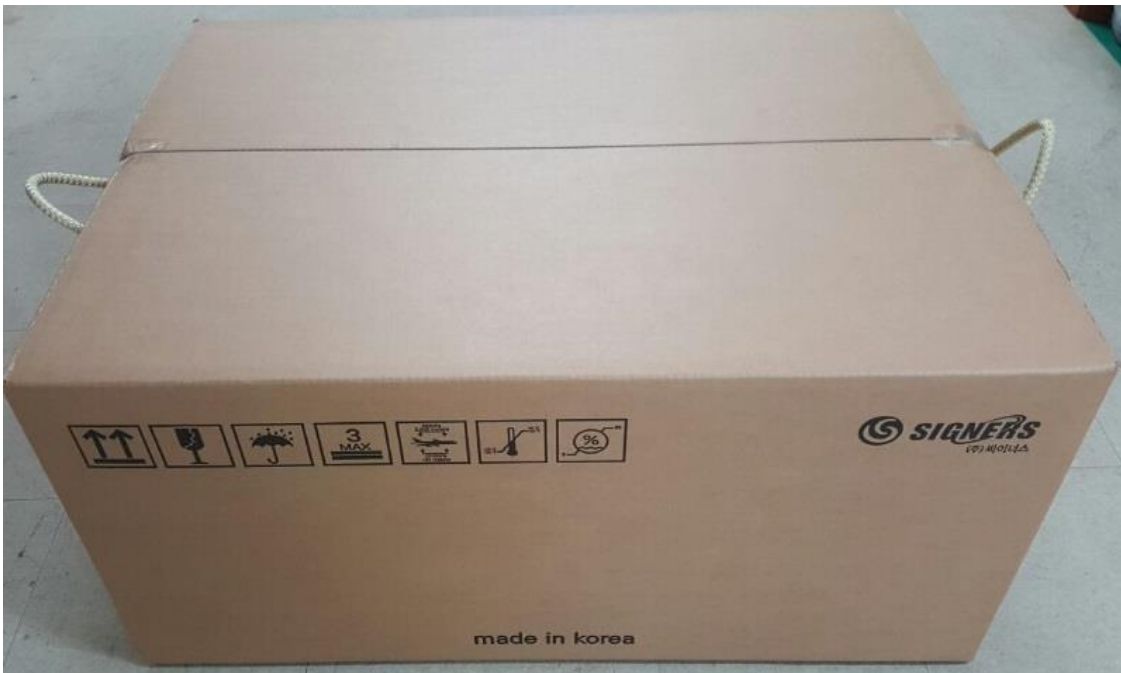
## 1.3 Unpacking and Handling Key point



### Cautions

#### 1.3.1 External Box Check

- ✓ Before unpacking, make sure the severe damage may be found and caused by the external shock to the box appearance. If damage is found, immediately notify the fact to the delivery person or the installation engineer and wait for the action.



**1.3.2 Contents**

- ✓ The contents in the box are introduced in 2.2. of this manual. 1ea of 14x17 and 1ea of small size (Between 10X12 or 18x24) can be included only. If you purchase an additional cassette, please check.



USB/Power Cable

14X17 Cassette  
(One more small size cassette can be placed below.)

S/W CD and User Manual



“SUPiA”

## 2. Product Introduction

### 2.1 Introduction



Reference

Thanks you for purchasing “SUPiACR”.

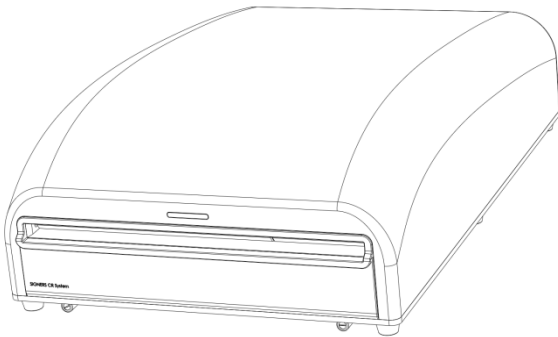
“SUPiA” is a digital imaging system for acquiring and processing an image of X-ray system by using an image plate with the energy saving fuction as the X-ray image scanner.

### 2.2 Components



Reference

#### 2.2.1 Basic Component



SUPiACR



S/W CD



User manual



USB Cable



Power Cable

2.2.2 Option



14x17 Cassette  
(Image Plate Included)



10x12 Cassette  
(Image Plate Included)

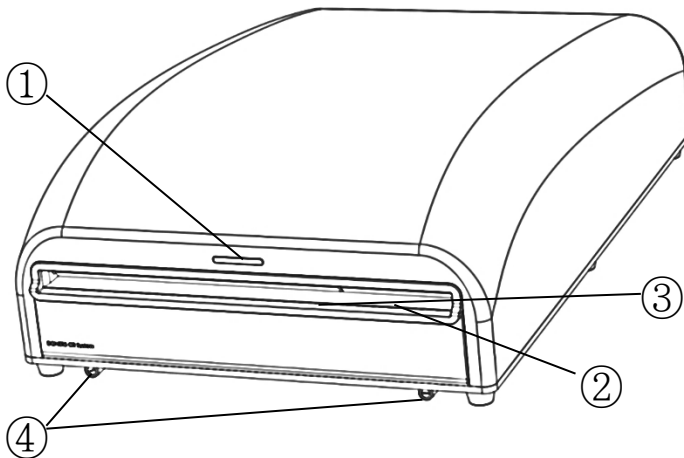


18x24 Cassette  
(Image Plate Included)

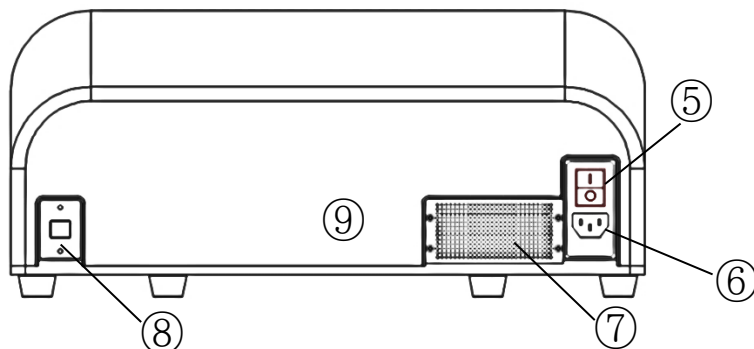


Wall-hanging bracket

2.3 Appearance and Connection



<Front>



<Back>

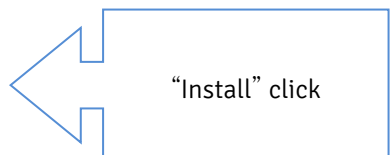
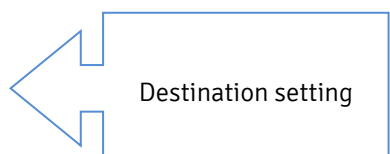
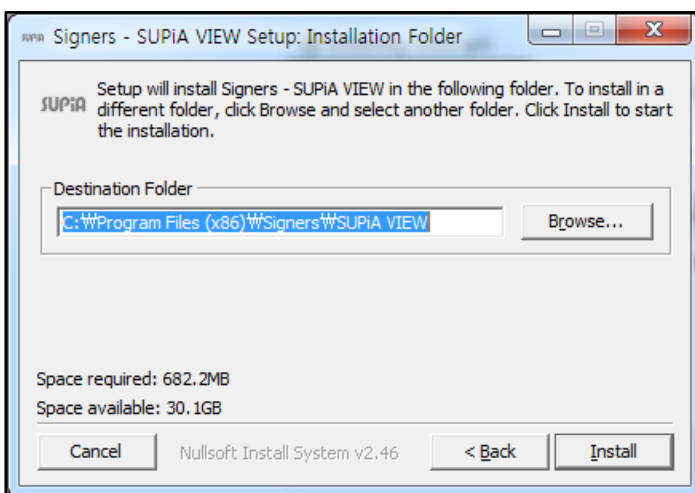
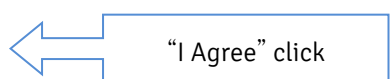
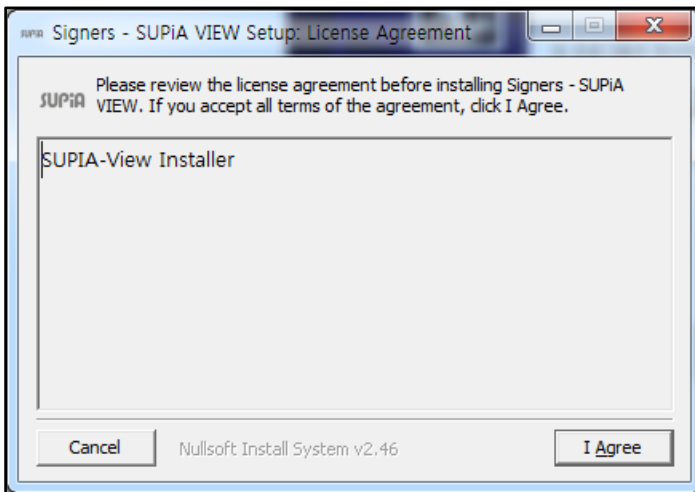
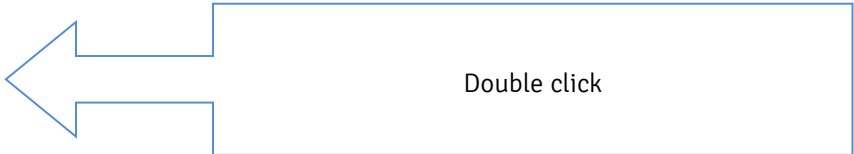
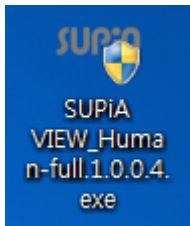
①	CR Status Light
②	Cassette Tray
③	Cassette Position Mark
④	Cassette manual eject lever
⑤	Power Switch
⑥	Power Connector
⑦	Air Outlet
⑧	USB Connector
⑨	Label

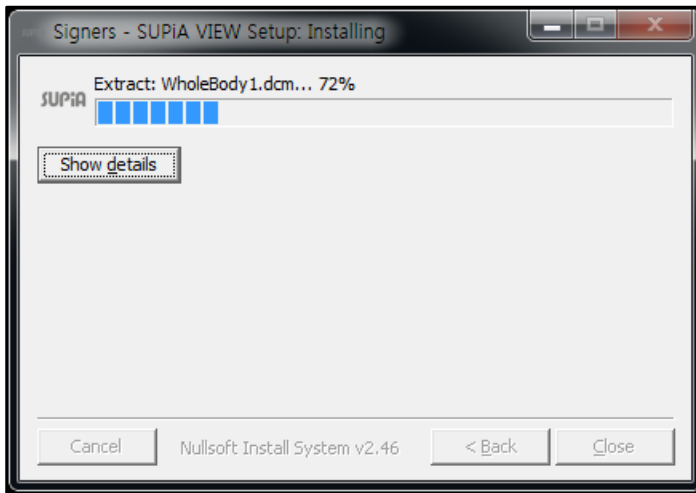
### 3. Installation

#### 3.1 Software installation



Caution

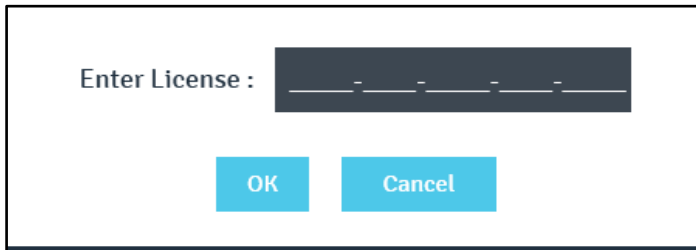




Installation process



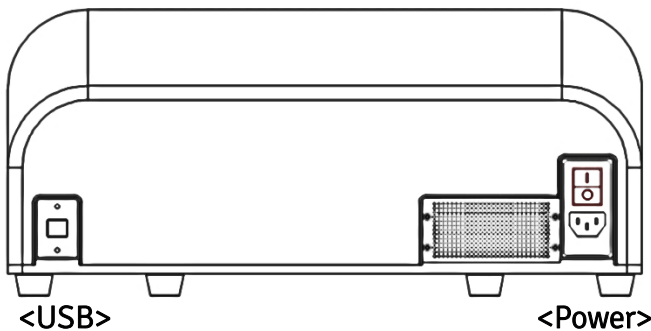
Icon created on desktop  
Double click



Enter license key

### 3.2 Connection of SUPiACR to workstation

**Caution**



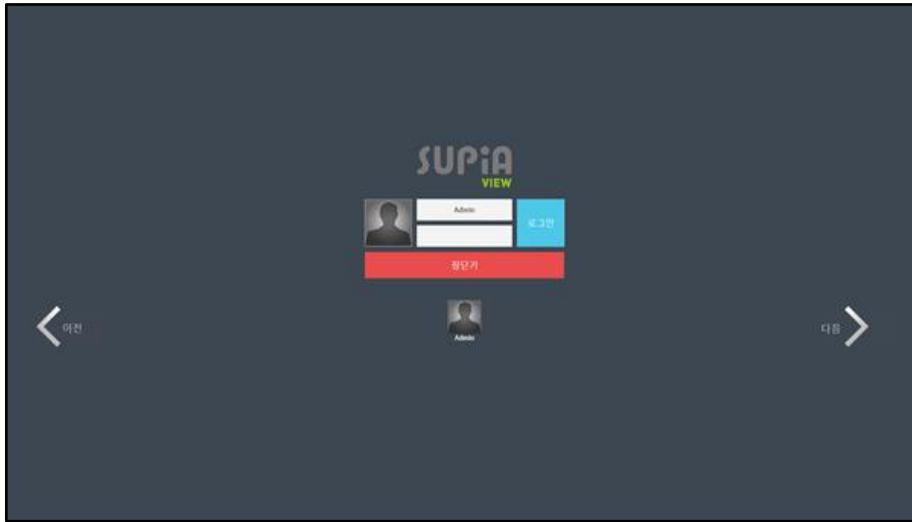
- ✓ Connect power cable to the SUPiA
- ✓ Connect USB cable to the SUPiA USB port and the other end to the workstation USB 2.0 port.

## 4. SUPiA VIEW (Console software)

### 4.1 Login



Caution



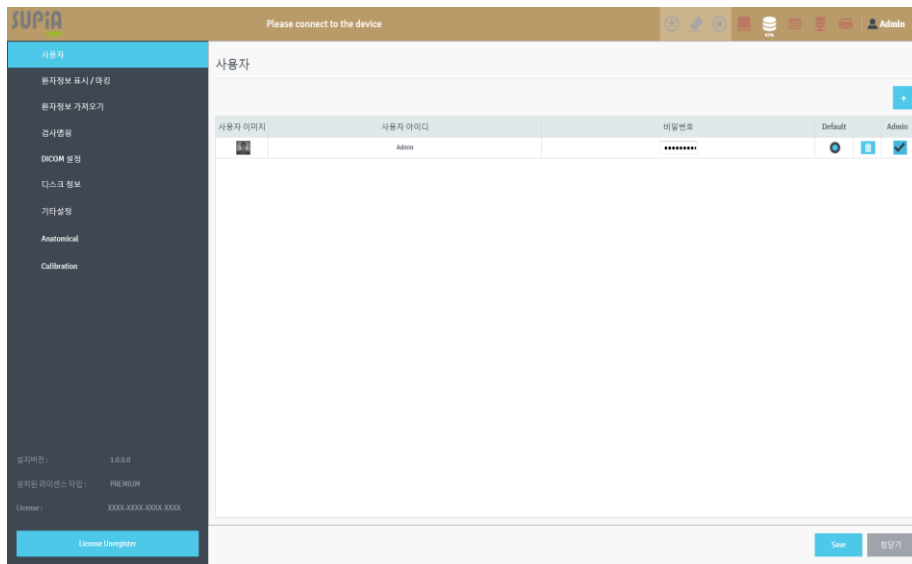
Insert ID and  
PASSWORD

### 4.2 Configuration



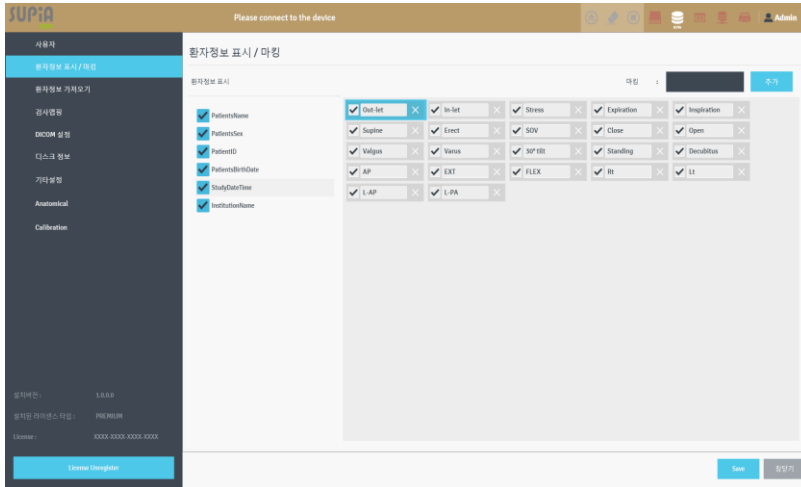
Caution

#### 4.2.1 User configuration



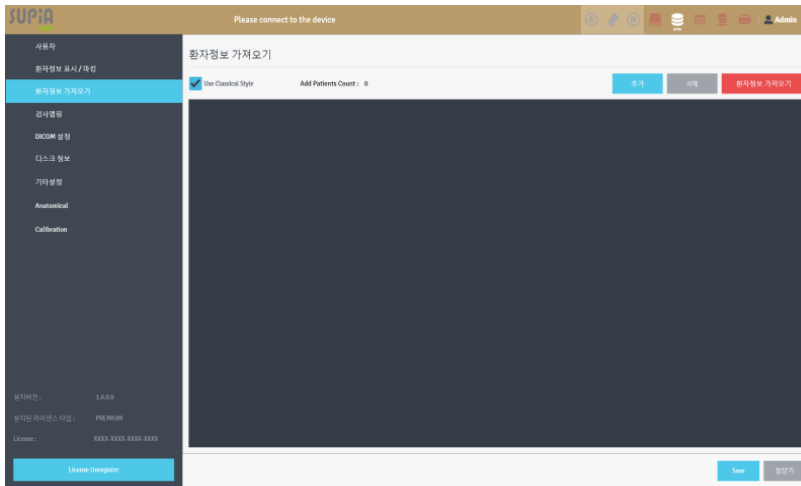
In setting menu, User  
tab you can modify,  
add or delete users  
ID's

### 4.2.2 Patients information and marking



Decision Board tab configure desired patient information to be displayed

### 4.2.3 Worklist creation

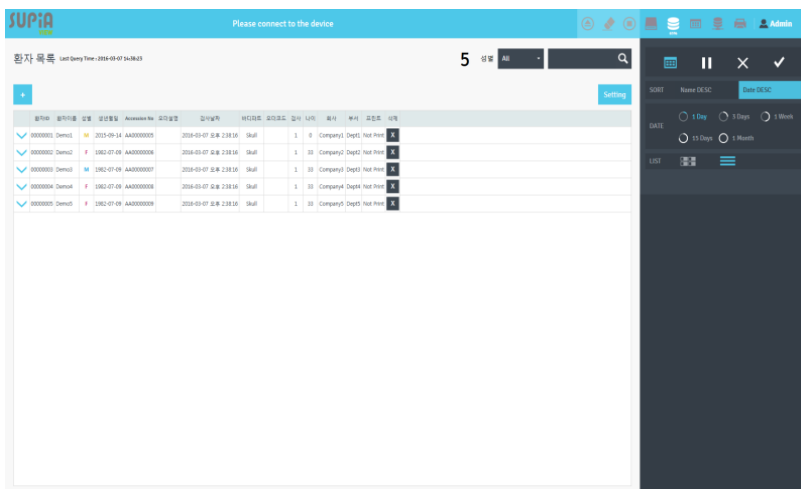


Press "Add", select body parts to examine and press "save"

Press "open file" to search csv file to open.

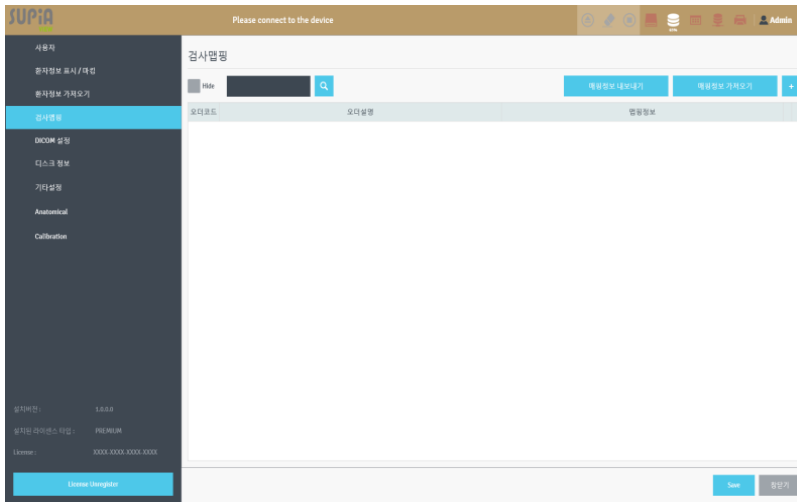
Verify patients list and save

<This function is used in homecare nursing>



Patient list verification in Worklist

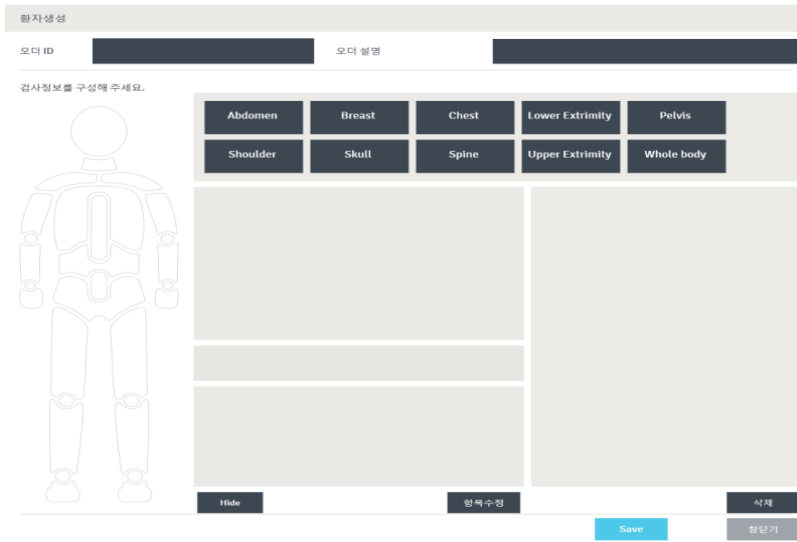
### 4.2.4 Examination mapping



You can import, export mapping information and CSV files.

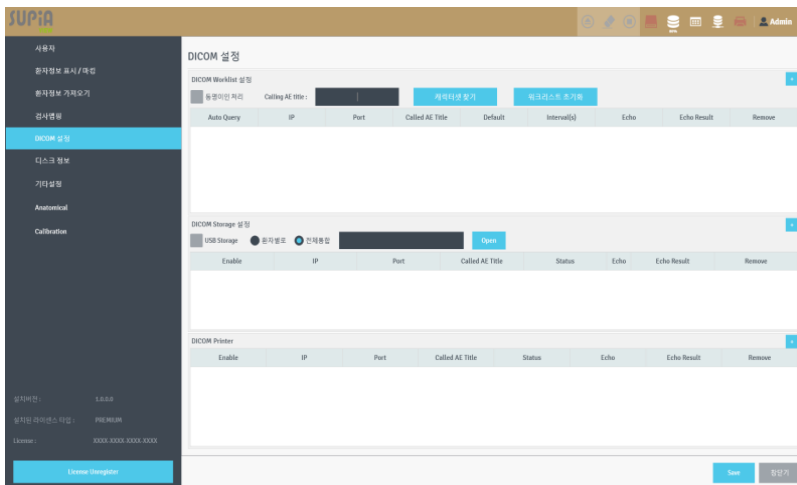
+  
Add a new mapping order list

### <Mapping hospital examination codes with actual examination codes>

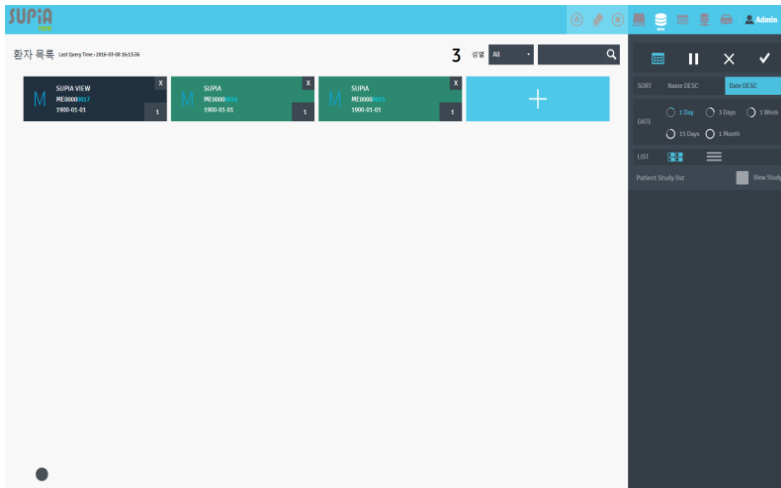


Insert Procedure ID, Procedure Description and examination parts and save

### 4.2.5 DICOM configuration



a. DICOM Worklist configuration



When in Card List display, identical patient names are marked in green

- ✓ Calling AE title : Configure Calling AE Title when connecting to PACS.
- ✓ Character set: Verify character set of PACS and reconfigure the Worklist to adapt it.
- ✓ + As shown picture, you can configure and add worklist server configuration.

Auto Query	IP	Port	Called AE Title	Default	Interval(s)	Echo	Echo Result	Remove
<input checked="" type="checkbox"/>	192.168.0.156	12000	Worklist	<input checked="" type="radio"/>	10			

- Auto Query : If checked will automatically update the worklist on intervals.
- Default : If there are different Modality worklist servers, check it to use default values.
- Echo Result : Connection test result. (OK:blue, Fail:red)

b. DICOM Storage configuration

- ✓ USB Storage : When sending to PACS, allows to send it to an USB also.
- ✓ By patient / Single list
  - When “by patient” is selected, the images will be stored by ‘**selected folder/folder date/by patient folder**’ .
  - When “single list” is selected, the images will be stored in a single selected folder.
- ✓ Select folder to store the images.
- ✓ + As shown picture, you can configure and add DICOM Storage configuration.

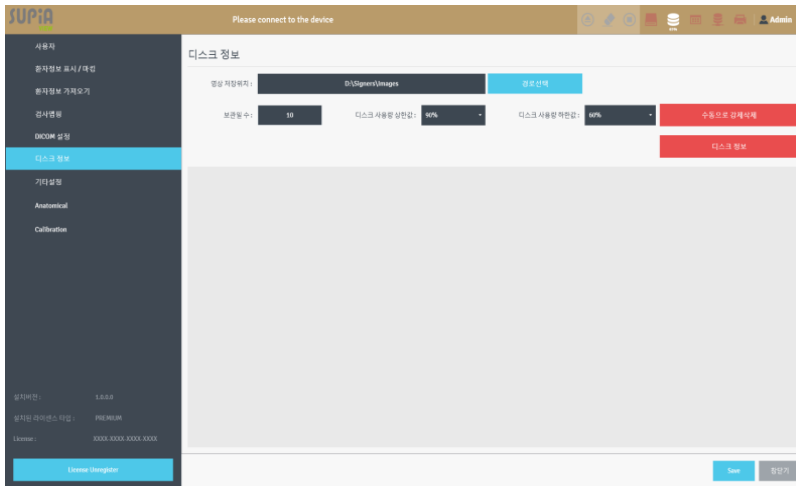
Enable	IP	Port	Called AE Title	Status	Echo	Echo Result	Remove
<input checked="" type="checkbox"/>	192.168.0.156	10004	Storage	Idle			

- Enable : Several DICOM Storage routes can be activated at same time.
- Status : Verifies connections status.
- Echo Result : Connectivity test result. (Ok:blue, Fail:red)

c. DICOM Printer configuration

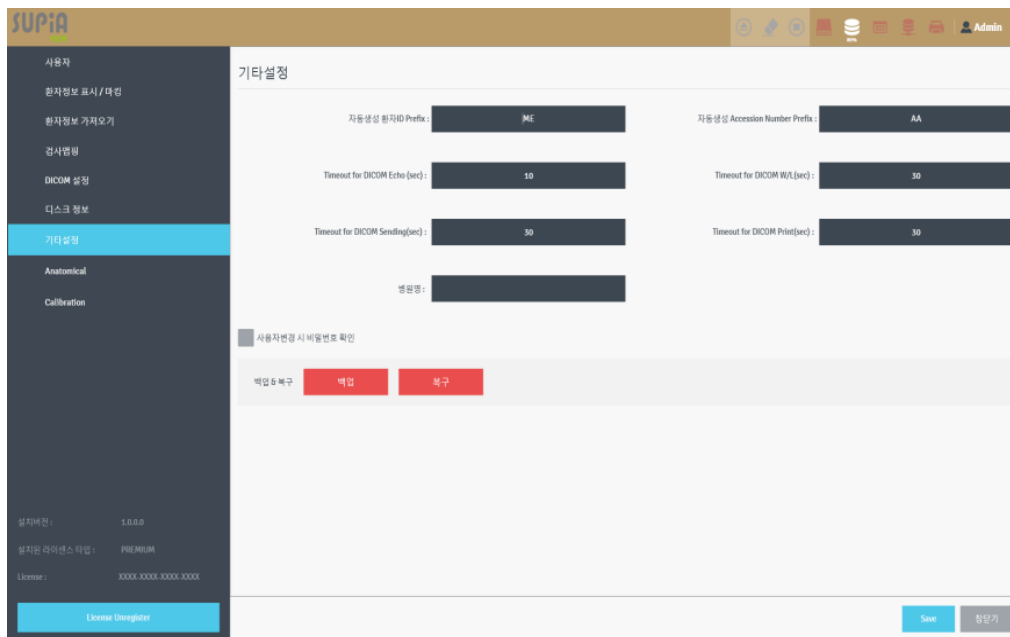
- ✓ Same procedure as DICOM Storage configuration.

### 4.2.6 Hard disk drive information



- ✓ Save folder: The obtained images are saved to the configured folder.
- ✓ Storage period: When closing software, data and images out of storage period will be deleted.
- ✓ Manual forced deletion
  - HDD free space: If set at 90%, when the HDD is 90% full, to acquire free space will delete images and data automatically until minimum space % is free.
  - HDD minimum space : If set at 60%, will delete images and data until 60% of HDD space is free. Deletion order begins with older images and data.
- ✓ HDD information : Informs of HDD space and free space.

### 4.2.7 Other configurations



- ✓ Auto ID creation prefix : When registering manually a patient, in front of the ID will be automatically inserted the configured prefix.
- ✓ Timeout for DICOM Echo(sec) / Timeout for DICOM ~~ : Sets limit wait time for DICOM Network test.
- ✓ Hospital name : Sets hospital name. Is used in DICOM header information.
- ✓ Backup & restore
  - Backup: Select data and images to backup the information to an external HDD or similar.
  - Restore : Calls backup data and images to the software.





### 4.3 Alarm bar& Smart on switch & dash board

#### 4.3.1 Alarm bar




- ✓ Informs status of logged ID named, connected devices and software status by colors.
- ✓ Alarm bar colors
  - : Scheduled List, informs that there is a patient to be examined.
  - : Pending List, informs that there is a patient which is examination is not finished.
  - : Error List, informs that there is a patient which an error occurred when sending.
  - : Success List, informs that patient information has been send.
  - : Other Status
- ✓ Other information

	Shows logged ID name
	Informs connection status with CR scanner. (Not connected: gray, Connected: white)
	Informs HDD free space.
	Informs Worklist server connection status.
	Informs storage server connection status.
	Informs printer server connection status.

	Switch to pull out the cassette from the SUPiA. If scanner is not connected or there is no inserted cassette, the switch will be disable.
	Deletes the cassette connected to the SUPiA. If scanner is not connected, the switch will be disable.
	Switch to stop scan process. Only able when scanning.
장비와 연결해 주세요	SUPiA status 1. If SUPiA is not connected will appear message to connect the SUPiA. 2. If SUPiA is connected and there is no cassette inserted, will appear message to insert cassette. 3. If there is a cassette inserted, ready to scan message will appear.
14 X 17	When cassette in inserted, information of the cassette will be displayed.
	Sets scan resolution. By default it will scan with the resolution set in the exam list configuration. But, operator can change resolution manually. - HD : High definition - SD : Standard definition - Pink ribbon : Resolution for mammography

4.3.2 Smart on switch

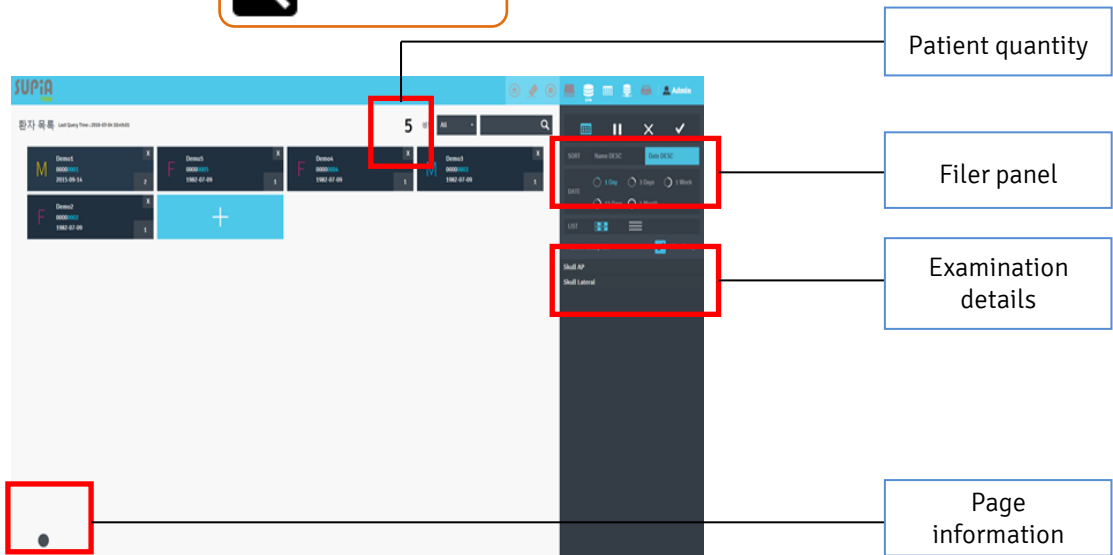
- ✓  In any screen, by pressing the smart on switch will go to the dash board.

4.3.3 Dash board





- ✓ Wait for approval list : In the worklist board pressing ‘Paused List’ will show patient list where its examination are still pending to finish.
- ✓ Quick Button
  - New patient : In the ‘dash board’ a new patient can be inserted manually.
- ✓ HDD information : Shows actual HDD status.
- ✓ Today! : Including today, a total of 7 days, captured images quantities are shown in a graph.
- ✓ Return : Returns to the last screen before entering the dash board.
- ✓ Configuration : Goes to dash board configuration.

4.4 Worklist board



✓ Filter panel

	Shows patient waiting list.
	Shows patients where the examination is not completed.
	Shows patients where examinations are completed but failed to be send to DICOM or DICOM printer.
	Shows patients where examinations and sending are complete.
Sort	<ul style="list-style-type: none"> <li>✓ Name ASC / Name DESC : Sorts patients by name order.</li> <li>✓ Date ASC / Date DESC : Sorts patients by date order.</li> </ul>

DATE	<ul style="list-style-type: none"> <li>✓ 1 Day : Shows today patient list.</li> <li>✓ 3 Days : Shows 3 days before patient list.</li> <li>✓ 1 Week : Shows 1 week before patient list.</li> <li>✓ 15 Days : Shows 15 days before patient list.</li> <li>✓ 1 Month : Shows 1 month patient list.</li> </ul>
List	<ul style="list-style-type: none"> <li>✓  : Displays worklist in Patient Card Style.</li> <li>✓  : Displays worklist in Classical Style.</li> <li>✓ By pressing Left Ctrl + W will change display mode.</li> </ul>

✓ Examination list details

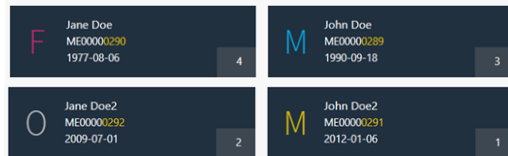
- Patient examination details can be observed after selecting Patient card style in View Study.



By double clicking the patient on the list, will go to the decision board of the patient.

✓ Page details: If there are too many patients to be shown in the screen, these will be separated in several pages as shown icon.

✓ Patient card



- Basic patient information can be identified intuitively.

Male : Sky blue

Female : Pinks

10 years or younger : Yellow

Other : Gray

- Patient information detail



Patient name: John Doe

Patient ID : ME0000289 → Last numbers can be remarked

Date of birth



: Number of expositions to be taken

### 4.5 Study Composition Board



- ✓ Is used when there is no worklist or worklist server cannot be used or if an emergency occurs.
- ✓ In the study composition board select scheduled list or paused list and then press “+” to insert new patient information.

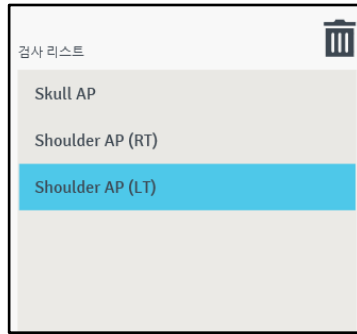


- ✓ Patient Info

Fields with ★ are obligatory information. Use tab to move around the fields.	
★ Patient ID	<ul style="list-style-type: none"> <li>✓ By default this field is blank. ID prefix can be set at “Board configuration” → Other configuration → Automatic ID prefix. Once set automatically the configured prefix will be inserted in the field.</li> <li>✓ If existing ID is written, will appear existing patient ID’s. Operator can select patient from the list if needed.</li> </ul>
★ Patient name	If existing patient name is written, list of patient names will appear. Operator can select name from the list if needed.
★ Sex	Default value is “male”. Select appropriate patient sex.
Accession No.	“Board configuration” → Other configuration → Automatic accession no prefix. If prefix is set, a number with prefix on increasing order will be created. The accession No. cannot be modified.
Requested by	Insert doctor name who requested the exam.
Prescribed by	Insert doctor name who prescribed the exam.
Operator	Automatically will appear operator name used on login.

✓ Exam configuration

- As show in below picture, to create a list of Skull AP, Shoulder AP (RT) and Shoulder AP (LT)



- Click the head in the body diagram. Then detail parts of the head will be shown. The first part of the list will be selected automatically.

- Select "skull" in Body Part list.

- Select "AP" in Projection list.

- As shown in below picture, "Skull AP" will be added to the exam list.



- Another example, in the body diagram, select right shoulder and in the same way in projection list, "RT" will be default selection of the list.

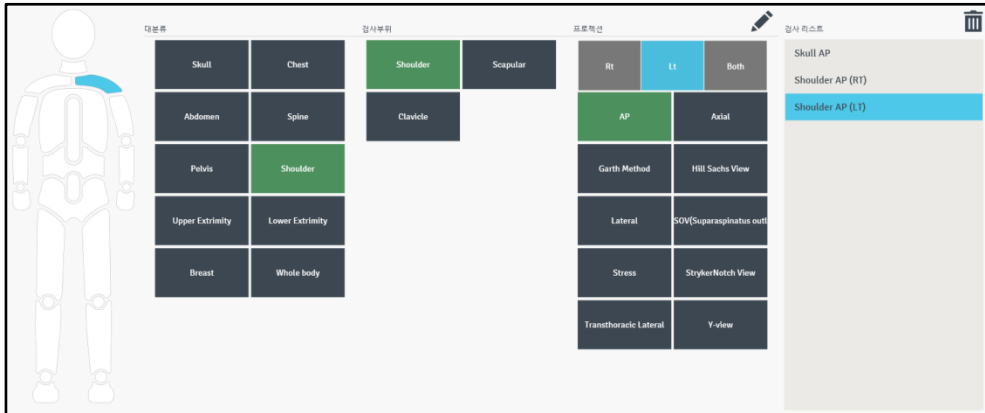
- Body Part list: Select 'Shoulder'





- Projection list: Select 'AP'

- As shown in below picture 'Shoulder AP (RT)' will be added to the exam list.



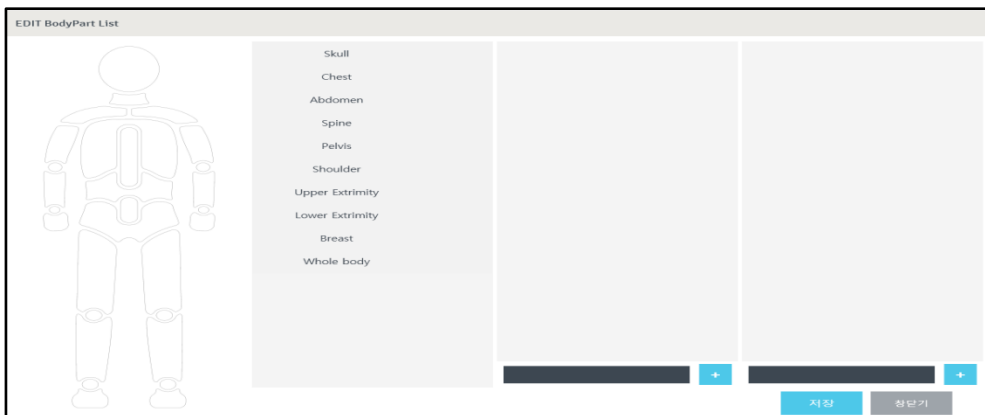
- Continuing, on the projection list, select 'LT'
- Select 'AP' in the projection list
- As shown in below picture, 'Shoulder AP (LT)' exam list is created with a total of 3 exams.



-  Click button to delete selected list.
- In the exam detail list. Press  to go to the decision board.
- Once list is created, press  to save and automatically will go to next step to insert a new patient. Accession # will created automatically in ascendant order.
- In the exam list, press  to renew list.

✓ Edit exam information

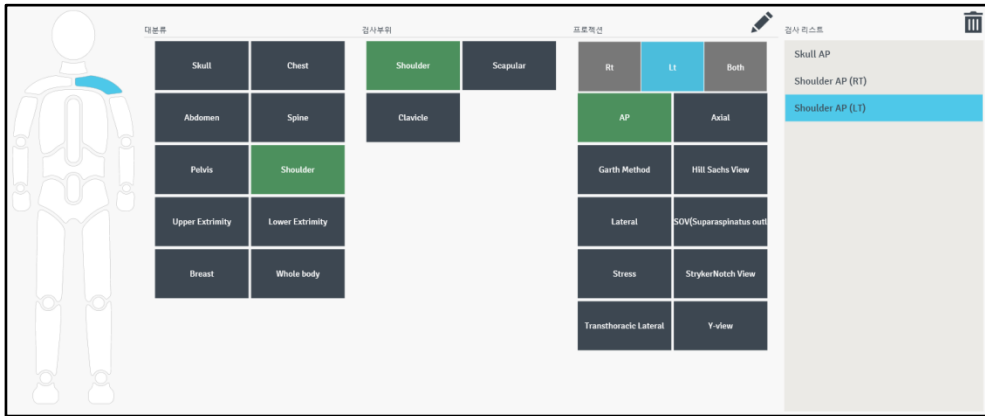
- Press  icon.




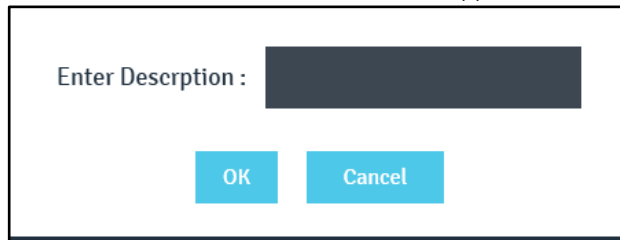
- Main Body Part cannot be modified.

✓ Set menu

- The operator can create a set of exams that uses frequently.
- As show below picture, a set of exams is created.






- Press  icon to create a new set menu. A window will appear to insert description.



- Once description is written, press “OK” (Ex. SUPiACR)




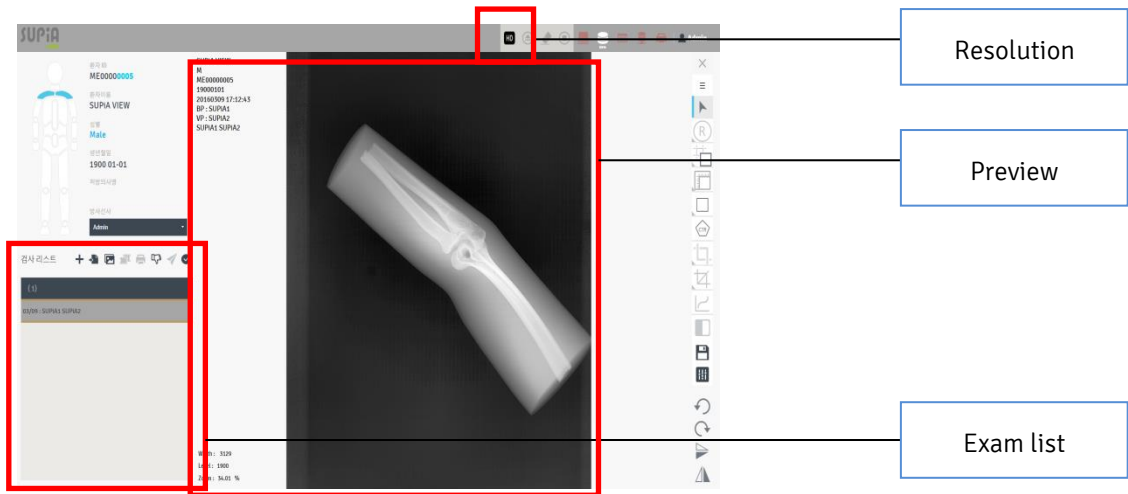
- ‘SUPiA’ set of exams is created.
- Click ‘SUPiA’ set set of exams to add to the patient’s exam list.

-  : To update exam list contents
-  : To delete selected exam list.
-  To view created exam list.

### 4.6 Decision Board











- ✓ To enter decision board
  - In the patient list, after creating a patient, press  on to go to the decision board.
  - In the worklist, double click selected patient to enter decision board.



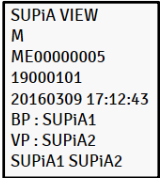

<Decision board window information>

- ✓ Exam list
  - Exam list of patient.
  - Progress bar shows scan process status.



	Press icon to go to the patient information to add a new exam to the patient. In patient information window, ID and name cannot be modified. When a scan is in process, icon is disable.
	To import an image tiff / dcm extension.
	To copy selected image of the exam. If no image is selected, instead the exam will be copied.
	To stich 2 or more selected images of the exam. Will open Stitching window for the process. For details see [Stitching board] section.
	Prints selected image.
	To reject selected image.






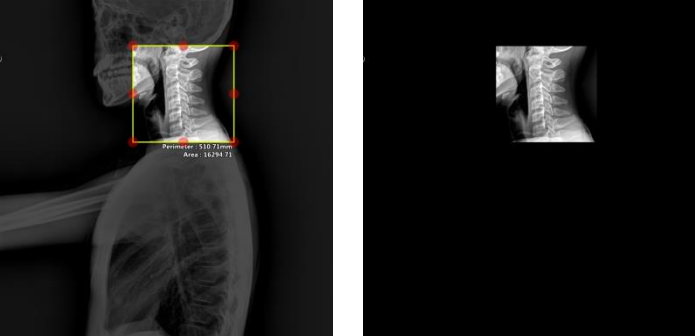
	<ol style="list-style-type: none"> <li>1. When DICOM Storage windows popup, select DICOM server and press “send” to send the patient exam to the selected server.</li> <li>2. Select ‘<b>DICOM DIR</b>’ to export exam to USB / CD-ROM.</li> <li>3. Select ‘<b>Export bmp</b>’ to export images in bmp format.</li> <li>4. Select ‘<b>Export jpg</b>’ to export images in JPEG format.</li> </ol>
	<p>Verification to Exam study. Once verification is completed, the study will go to DICOM Storage automatically. ‘Reject’ image does not go to DICOM server, and empty study will be deleted.</p>


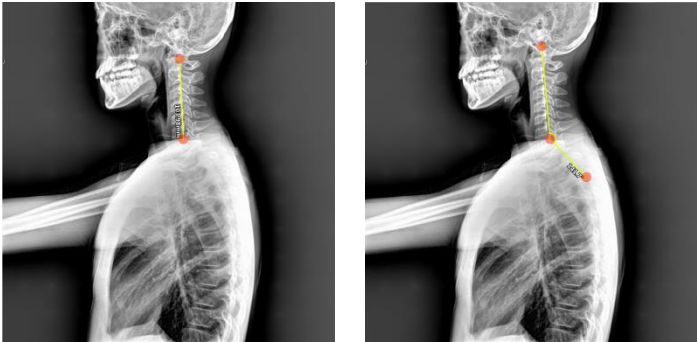

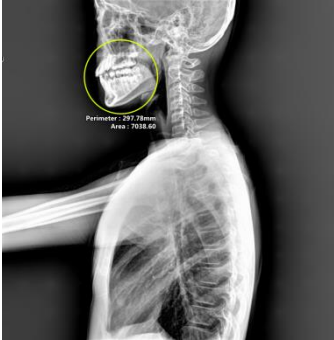

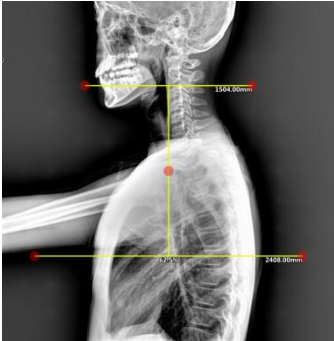

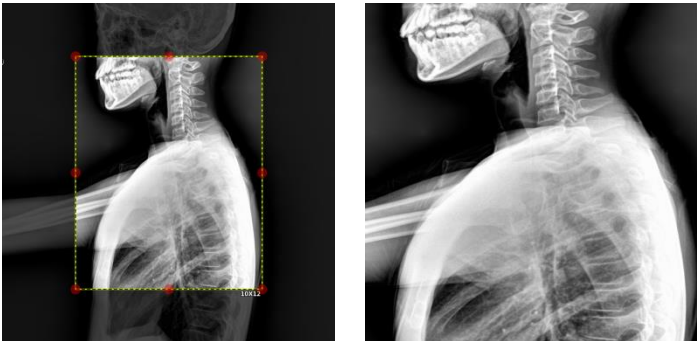
✓ Preview


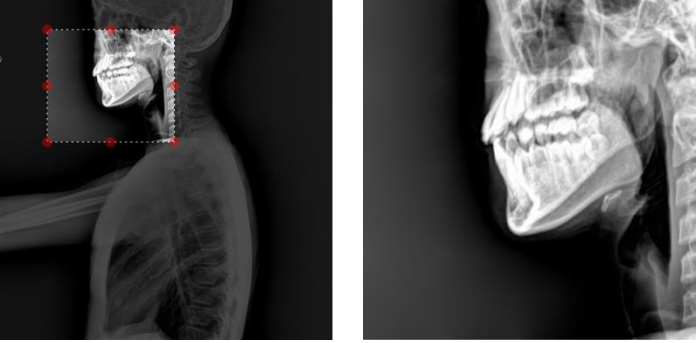


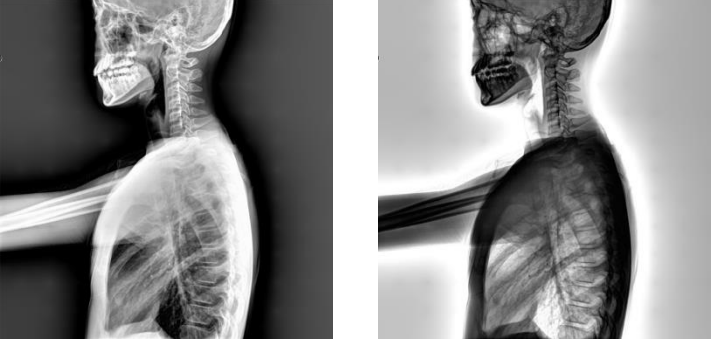


	<p>DICOM Information [Setting board – <b>Patient information display/marking</b>] to view DICOM information configuration.</p> <ol style="list-style-type: none"> <li>1. Patient name</li> <li>2. Patient SEX</li> <li>3. Patient ID</li> <li>4. Patient date of birth</li> <li>5. Exam date</li> <li>6. Hospital name</li> </ol>
<p>Width : 3129 Level : 1900 Zoom : 34.01 %</p>	<p>WindowLevel(Level), WindowCenter(Width) and Zoom information.</p>
	<p>When scanning, is processed in 10 steps showing pre image during the scan process. Once the scan process is finished processed image will be displayed.</p>

✓ Function of decision board

	<p>To close decision board.</p>
	<div data-bbox="619 1373 1103 1561" data-label="Image"> </div> <p>When icon is click, patient information window will popup. ‘<b>Details</b>’ icon will show DICOM header information. When ‘<b>Modify patient</b>’ is clicked, will show a list of patients with same prescription codes. Select patient and press ‘OK’ then will go to the decision board with the new selected patient information. When ‘<b>Modify exam</b>’ is clicked, will show a list of exams. Select exam and press ‘OK’, then will go to the decision board with the new selected exam</p>


	<p>To select or move measured values or markings.</p> 
	<p>To insert a marking on the image. In [Board configuration – Patient information / marking] select desired marking to be inserted.</p> 
	<p>Black Surrounding Masking function. Select desired shape and with the mouse drag on the image to create a shape. On the bottom of the shape shows information of it. Once shape is created operator can change and move the shape as desired. When the shape is set, click anywhere outside the shape to apply the process.</p> 

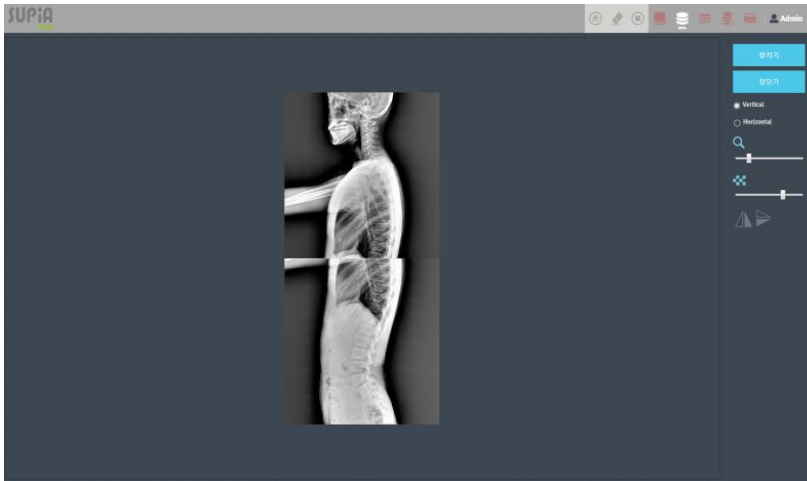
	<p>Calculates distance and angle.</p> 
	<p>Calculates perimeter and area of created shape.</p> 
	<p>Calculates CTR(Cardio Thoracic Ratio) value. Move the red dots to desired position.</p> 
	<p>Select desired size 18 X 24, 10 X 12, 14 X 17 to crop image. Modify to desired position and size and then click anywhere outside of the area to apply.</p> 


	<p>Free Crop function. Will draw a rectangle of desired size to crop the image.</p> 
	<p>Window Width / Level value control. Move the mouse to modify Window Width / Level values.</p>
	<p>To invert from positive to negative the image and vice versa.</p> 
	<p>To save image with applied modifications. When another exam of same body part is processed, it will be processed with the last saved information. Ex. When a Chest AP is saved with a 'RT' mark, on next processed image of a Chest AP, this mark will appear again.</p>
	<p>To process again a processed image. Select desired image to process it again. Once image is processed will appear a message a shown below.</p> <div style="border: 1px solid gray; padding: 10px; text-align: center;"> <p>영상 재처리 적용</p> <p>앞으로 동일한 검사에 대해 현재 적용된 영상처리 파라미터를 적용하여 프로세싱을 하시겠습니까?</p> <p>예      아니오</p> </div> <p>Press 'Yes' to apply same process to future same body part images. Or press 'No' to discard. <b>Only reprocess can be done on images scanned from SUPiACR.</b></p>

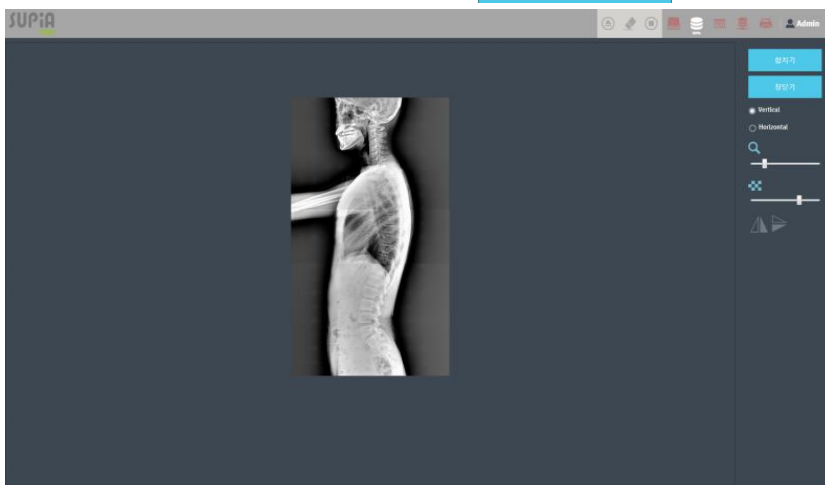
### 4.7 Stitching Board




- ✓ Function to stitch several images to one single image.
- Select in order the images to stitch. (While pressing Ctrl key select desired images)
- Click  icon to go to stitching board.



- In the stitching board
  - a. Operator can select desired direction.
    - . Vertical setting, stitching will be processed in vertical order.
    - . Horizontal setting, stitching will be processed in horizontal order.
  - b. Can control magnification.
  - c. Can set transparency of image.
  - d. Can invert image up/down or left/right.
- Use mouse to position the images and click  icon to process..



- Verify stitching result image and press  to save image.




- Stitching image is added to the patient's study image list.



# 5. SUPiA operation

## 5.1 Initializing



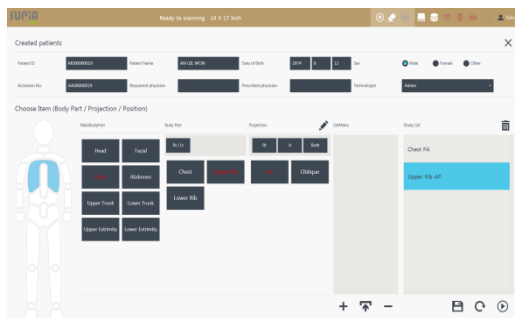
When powering on the SUPiACR, the equipment will begin to communicate with the sensors through the control board to test its condition. The SUPiA LED will blink between  and  informing that it is doing auto diagnostic process. Once the process has ended and the equipment is operational the LED will be . If the equipment does not operate, contact to your nearest technical support office for assistance.

## 5.2 Cassette insert

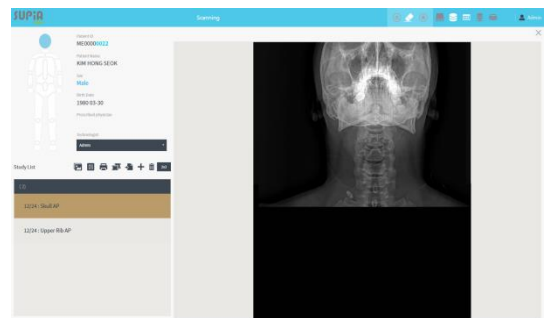


### 5.2.1 SUPiA VIEW

- ✓ After creating a patient go to Manual Entry Board and select body part.
- ✓ Verify Patient Info and body part on Decision Board, then insert Cassette.

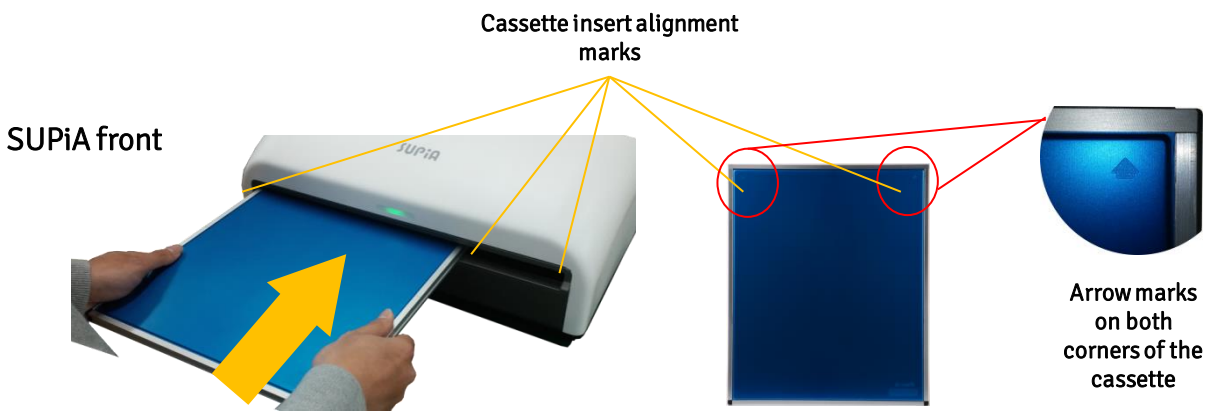


<Manual Entry Board>




<Decision Board>

### 5.2.2 How to insert cassette








**5.2.3 Precautions when inserting cassette**

- ✓ Do not push the cassette too hard or strong.
- ✓ When inserting slightly the cassette. Operator will feel a lock mechanism, push it a little more until cassette is fully locked to the SUPiA.
- ✓ When cassette is inserted LED will display if it is inserted correctly. When is correct 2 LEDs will turn on green.
- ✓ When cassette is inserted correctly LED will be shown as  but if it is not inserted correctly only one LED will turn on and the cassette will be pushed out 5 seconds later.

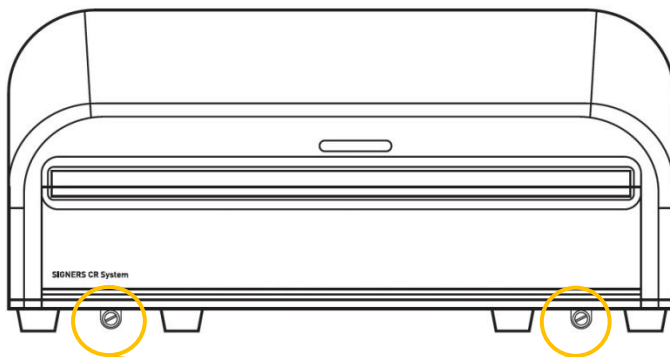
**5.2.4 SUPiA status LED**

- ✓ Depending on LED display, operator can verify equipment status.

SUPiA status	LED status	LED display
Initializing	Sky blue blinking	
Scan stand by/ Process finished	Middle LED green	
Cassette inserted	Both ends LED green	
Scanning	From left ▶ Sequential light	
Erasing	Green blinking	

**5.2.5 Extracting cassette manually**

- ✓ If the equipment is not operating correctly or by operator mistake the cassette cannot be extracted, extract the cassette manually as explained below.



Cassette manual levers

- ✓ Hang inside with fingers both levers at same time.
- ✓ Pull both levers and extract cassette.

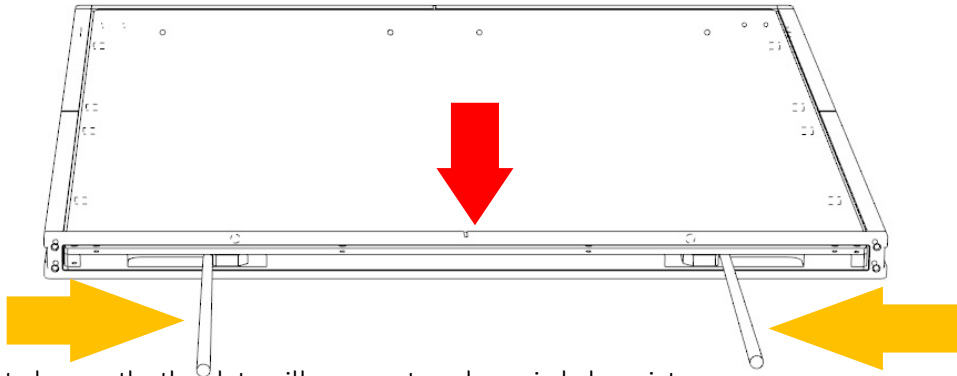
## 6. Cassette



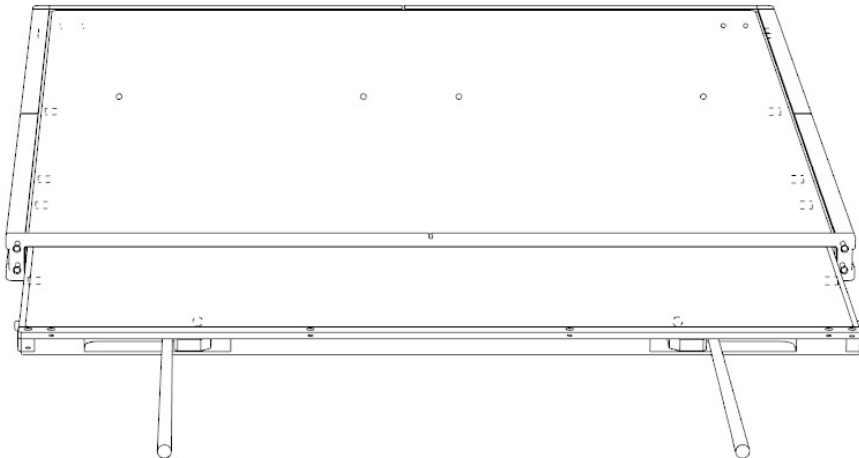
Caution

### 6.1 Removing the image plate

- ✓ Verify necessary tools before starting.
- ✓ Use two 5mm diameter sticks. (pencil or pen can do fine) and push both levelers to the direction of orange arrows as shown below picture. Then the image plate can be removed in the red arrow direction pulling both levelers.



- ✓ If extracted correctly, the plate will come out as shown in below picture.



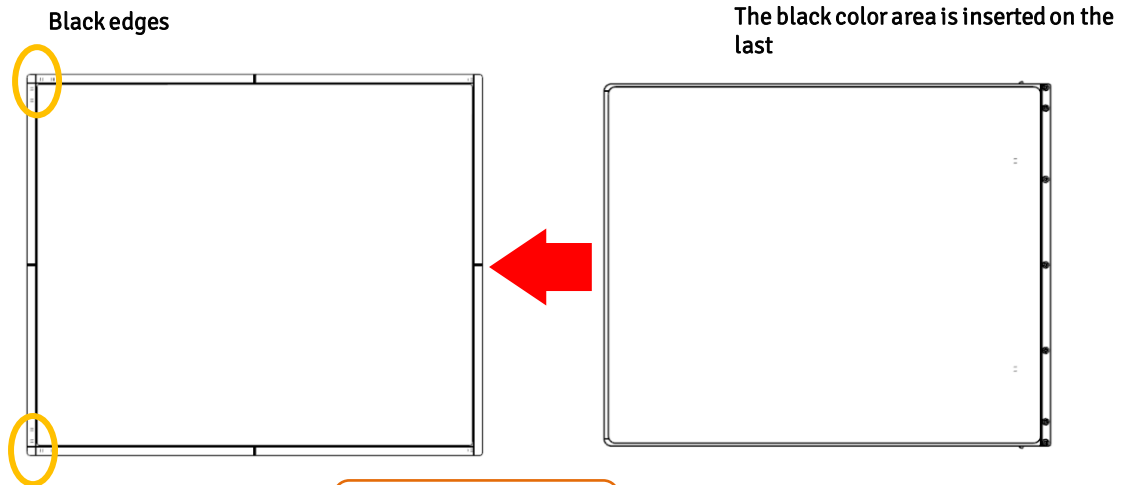
- ✓ When extracting the plate and when the plate is extracted, be aware not to scratch or damage the surface of the image plate.
- ✓ Since the image plate is photosensitive, always do a cassette reset procedure before using it.

## 6.2 Inserting the image plate to the cassette



**Caution**

- ✓ Verify the Tube Side of the cassette and then insert in the same direction the image plate.
- ✓ See below picture on how to insert the image plate.

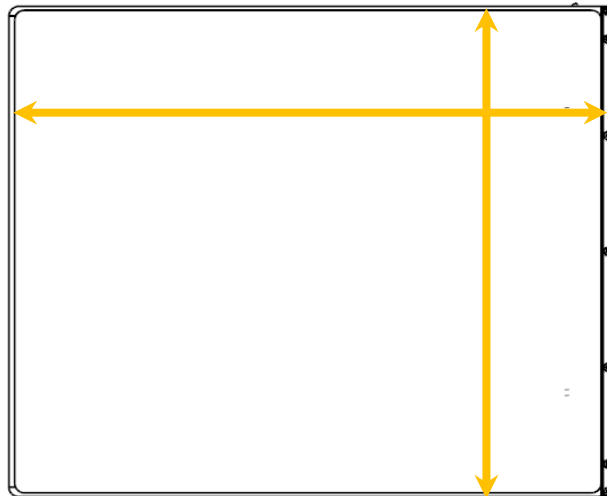


## 6.3 Image plate cleaning



**Caution**

- ✓ Cleaning chemical : Only chemicals recommended by factory
- ✓ Cleaning swabs: Use soft and lint free cotton swabs as possible
- ✓ Apply 1~2 drops of cleaning chemical to the soft swab and use the swabs in the directions shown in below picture.



- ✓ Once cleaning is finished, place the image plate for 20~30 minutes in a cool place before inserting the image plate to the cassette.
- ✓ If the image plate is inserted before is dry, during its operation the image plate can be damaged.