

BT-ACTB

# ALS Cardiac Training Model

## USER GUIDE



User Guide



English

## Product Information

Product Name ALS Cardiac Training Model

Model Name BT-ACTB

Manufacturer BT Inc.

Country of Origin Republic of Korea

Certification



(Contains FCC ID : 2AVQ5BT-ACTB)

## Product Specification

Dimensions 1720 X 540 X 240mm

Weight 22kg

Power Converter Input AC100-240V~, 50/60Hz, 2.5A Output DC 16.8V, 4A

## Customer Service

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## Cautions for battery disposal

\* Please follow the regulations of corresponding area for the disposal of used batteries.

# Cautions

Please read it carefully to ensure correct usage and user's safety through understanding of the product.

- ① Do not use the product for other purposes described in the manual.
- ② Do not use the product for other purposes described in this manual.
- ③ If you disassemble or modify the product without any permission by BT Inc, you cannot get the warranty. Also, making imitated or altered products for commercial purposes are prohibited by law.
- ④ During the usage, please contact us after any electricity power off when the product is overheated or smelled something burning
- ⑤ Keep the product away form water or moisture. If the product gets wet, do not turn it on.
- ⑥ Do not use the product near strong magnetic fields or high voltage power lines.  
The product might malfunction due to the electromagnetic waves.
- ⑦ Do not use the product under a weather of lightning. It can cause the product malfunction and increases the risk of electric shock
- ⑧ Do not use the product with temperatures below 0°C or above 40°C  
(Operation temperature : 0°C ~ 40°C, Storage temperature : -10°C ~ 50°C)
- ⑨ Do not keep the product near hot places such as heaters. Deterioration of product or internal damage might occur
- ⑩ Never clean the product with chemicla substances such as solvent, benzene or thinner, as these may Cause ignition or cause the surface deterioration.
- ⑪ BT Inc. can change or adjust the product specification without any notice in order to improve the product.

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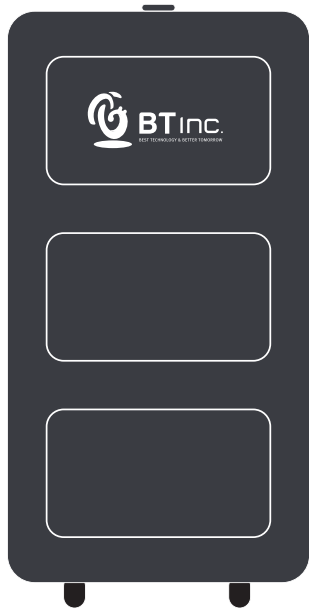
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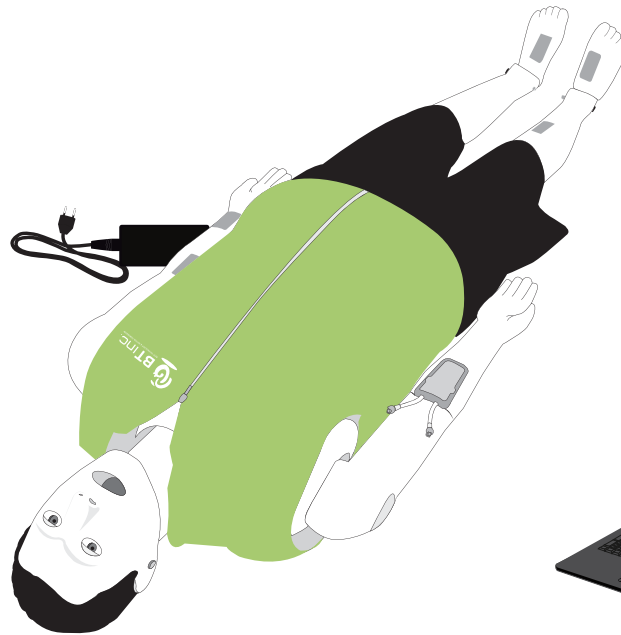
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# 1. Product Composition

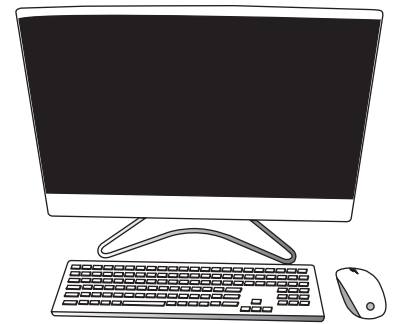
## 1-1. Components



Storage case



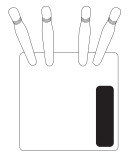
Full body Simulator + Power adaptor



All-in-one PC for Monitor (Option)



Laptop for Facilitator (Option)



Wifi router



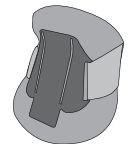
Defibrillation electrode cover for pads



Defibrillation electrode cover for leadwires



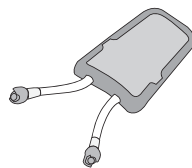
Sphygmomanometer



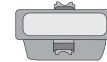
Cervical collar



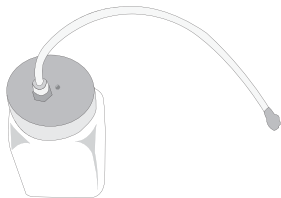
IO/IM module(humerus)



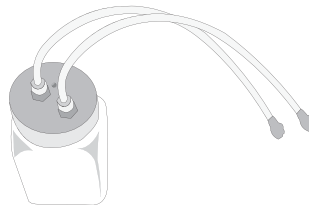
IV pad



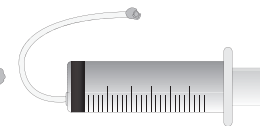
IO module(tibia)



Bottle&tube for IO



Bottle&tube for IV



Syringe for cleaning



Simulated blood



Lubricant

\*Etc – Clothing jacket/pants, Ankle/Knee protector, Battery extension cord, Silicon pad for electrode reinforcement

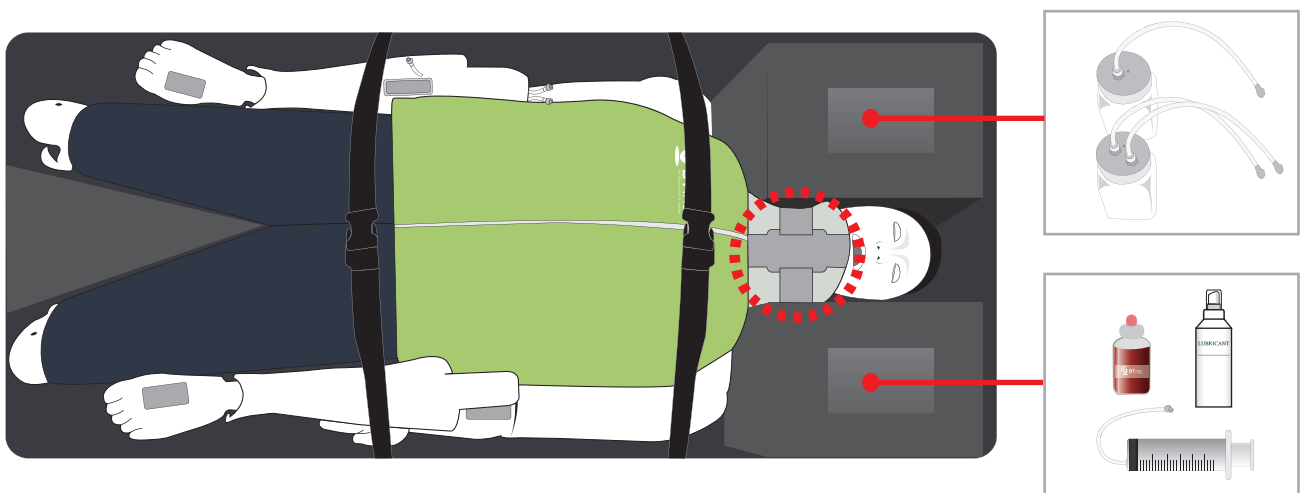
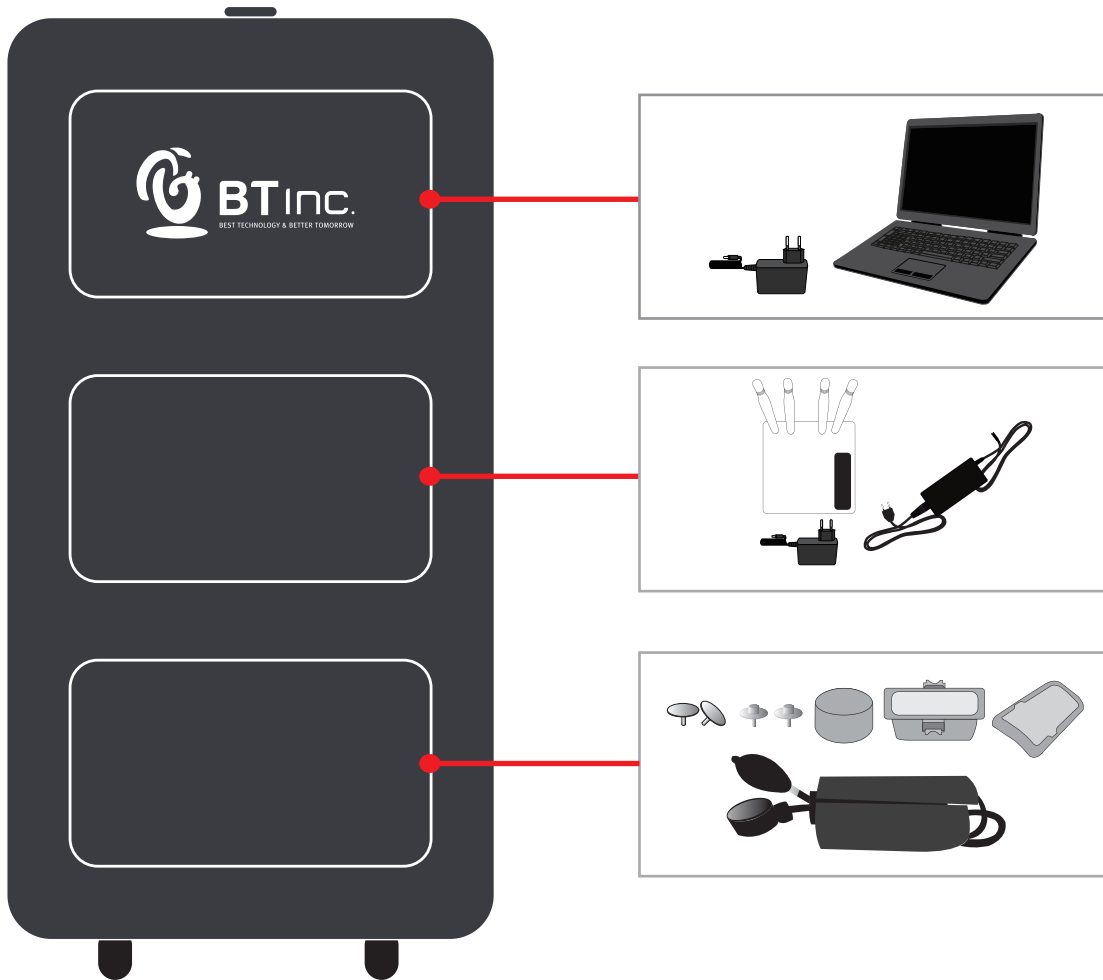
## 1-2. Consumables & Recommended Clinical Supply Sizes

<b>Consumables</b>	
<ul style="list-style-type: none"> <li>• IV pad</li> <li>• IO/IM module</li> <li>• Skin(face, torso, head)</li> </ul>	<ul style="list-style-type: none"> <li>• Lubricant</li> <li>• Simulated blood</li> </ul>

<b>Recommended Clinical Supply Sizes</b>	
Needle	3cc~5cc, 22G~24G
ETT	I.D. 7.0~8.0mm
I-gel / LMA	#3, #4
Combi-tube	37Fr
OPA	88mm(Green)
NPA	6~7(24~28Fr)

- The following clinical supply sizes are recommended for use with ACTB model.
- Other sizes may cause damage to the products.
- Lifetime of the consumables may differ depending on the skill level of the users.

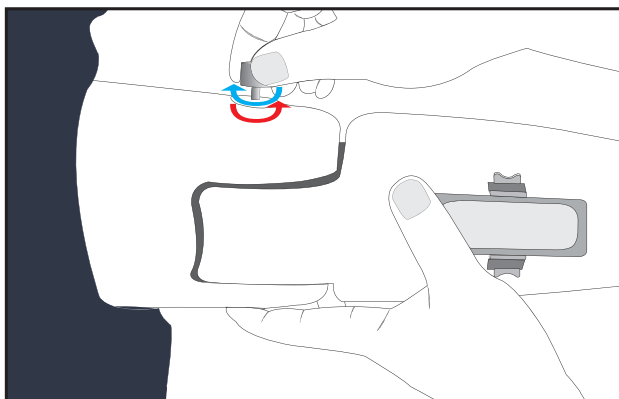
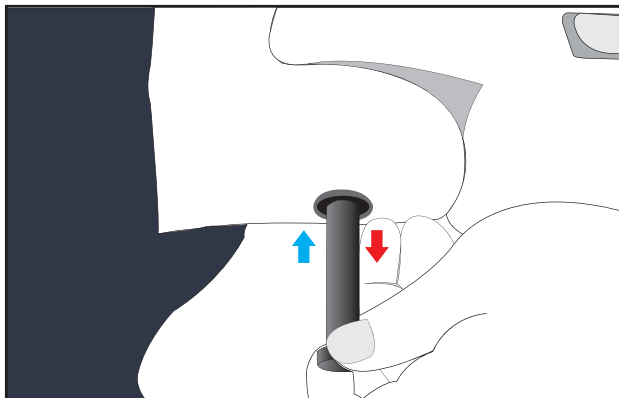
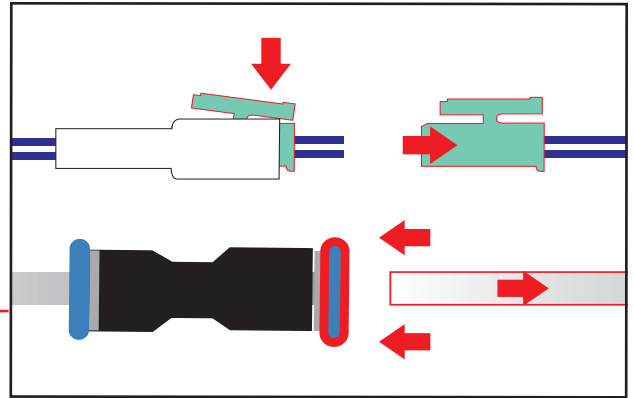
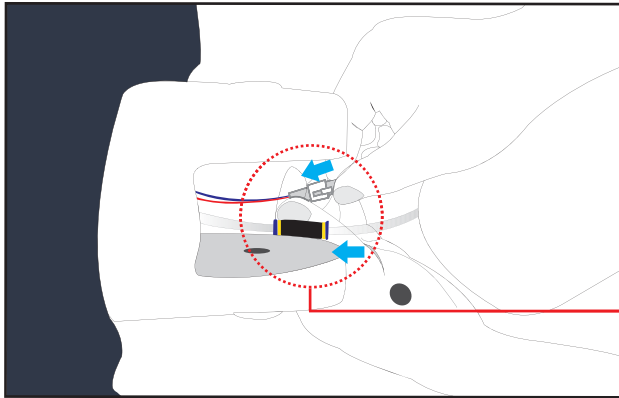
1-3. How to store the product



※ Make sure to wear a neck protector on the simulator during storage or transportation.



1-4. Assemble/Disassemble the legs



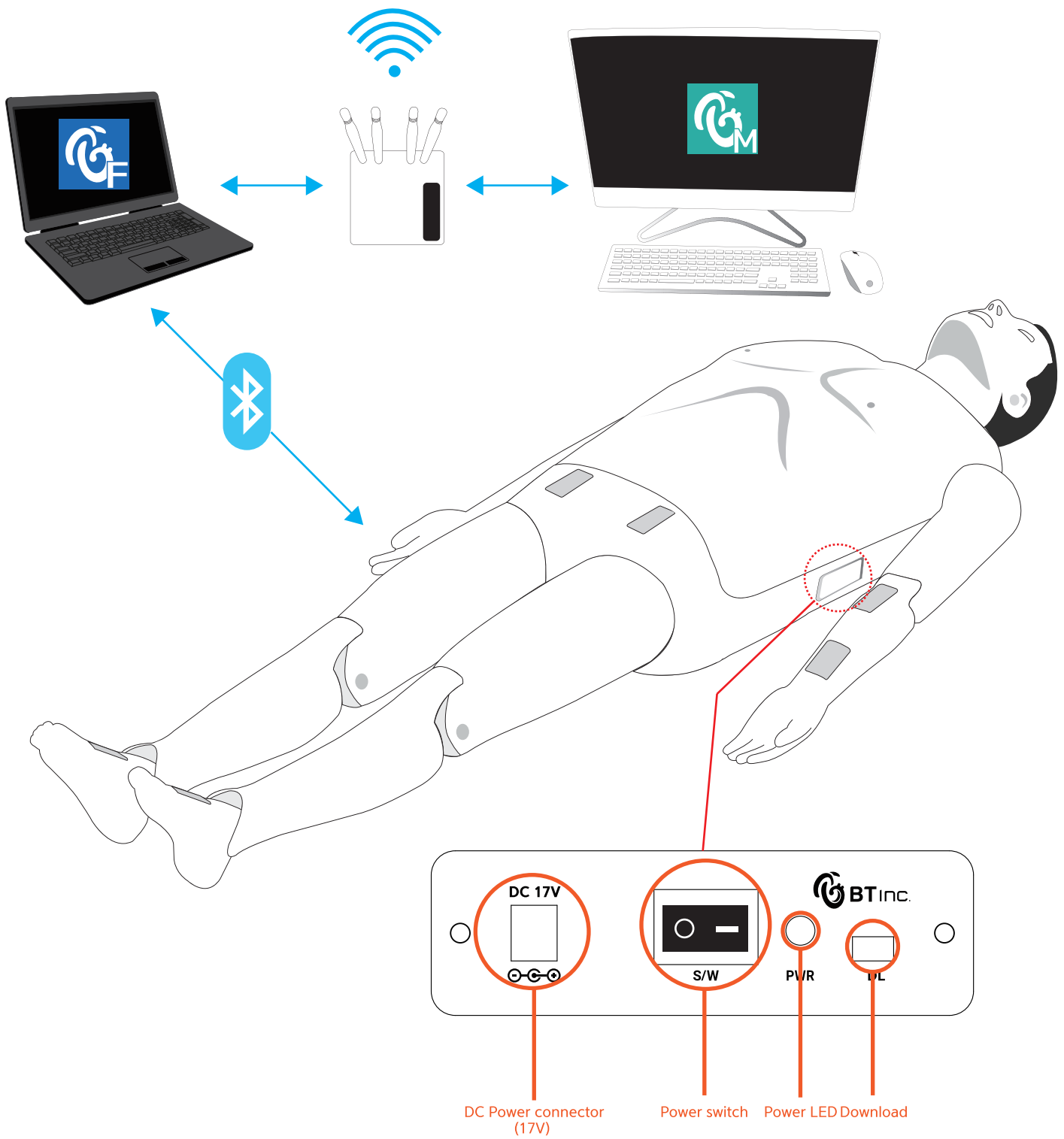
Assemble



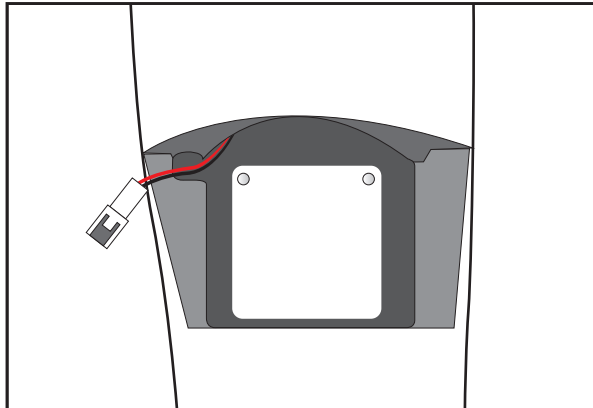
Disassemble

\* Disassembly is the reverse order of assembly.

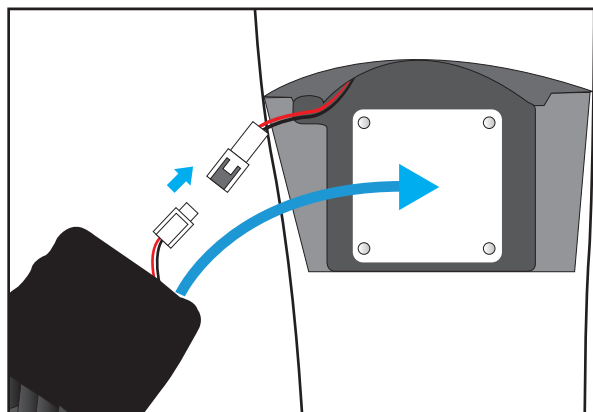
# 1-5. Connect simulator



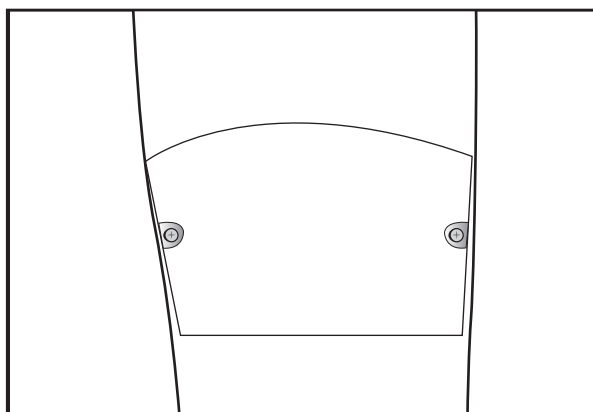
## 1-6. How to insert and replace battery



1. Open the battery cover.



2. Connect the connectors and insert the battery into the simulator.

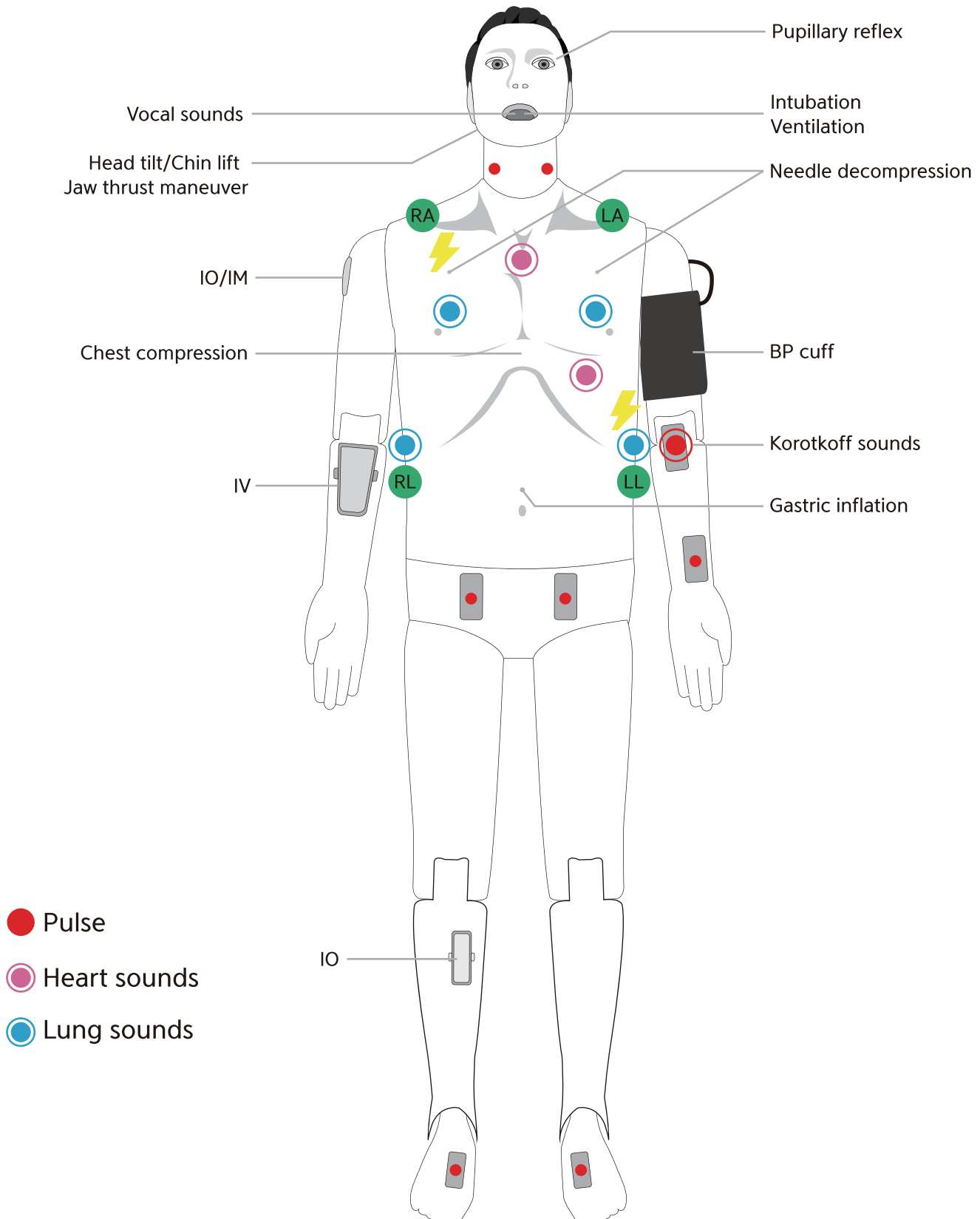


3. Close the battery cover.

※ The battery is located on the right thigh.

## 2. Functions

### 2-1. Functions description



## 2-2. Function description – Detailed

### 🟡 Eyes

- ① Light reflex / Consensual light reflex
- ② Adjust pupil size
  - 1~8 mm
- ③ Adjust light reflex speed
  - Prompt / Slow
- ④ Eyelids : Open / Closed

### 🟡 Airway management

- ① Head tilt / Chin lift
- ② Jaw thrust
- ③ Bag-Valve-Mask ventilation
- ④ Oral / Nasal intubation
  - ETT / LMA / I-gel / Combi-tube
  - Detect Normal / Right mainstem intubation
- ⑤ Detect esophagus Intubation and gastric inflation
- ⑥ Measure force on incisors
- ⑦ Airway obstruction
- ⑧ Needle decompression

### 🟡 Circulation

- ① 3-4 Lead ECG
- ② Defibrillation and cardioversion
  - Defibrillation waveform
  - CPR waveform
- ③ Heart sounds auscultation (2 sites)
  - Aortic valve / Mitral valve
- ④ Pulse
  - Pulse sites
    - : Radial / Brachial artery (Left arm)
    - : Left / Right carotid artery
    - : Left / Right femoral artery
    - : Left / Right dorsalis artery
  - Pulse intensity
    - : Strong / Moderate / Weak
- ⑤ NIBP
  - Palpation
  - Auscultation
- ⑥ ABP waveform (Software)
- ⑦ PAP waveform (Software)

### 🟡 Breathing

- ① Spontaneous breathing
  - Unilateral and bilateral chest rise
  - Normal breathing sound
- ② Lung sounds auscultation (4 sites)
  - Chest Front Left Up / Down
  - Chest Front Right Up / Down
- ③ SPO2 waveform (Software)
- ④ ETCO2 waveform (Software)

### 🟡 CPR

- ① Chest compression
  - Compression depth
  - Hands placement  
(Correct/Upper/Lower/Left/Right)
  - Compression rate
  - Incomplete recoil
  - Hands-off time
- ② Artificial respiration
  - Ventilation volume
  - Inspiratory time
  - Ventilation per minute

### 🟡 Vascular access

- ① IV (Right arm)
- ② IO (Right tibia / Right humerus)
- ③ IM (Right humerus)
- ④ Medication (Software)

### 🟡 Speech

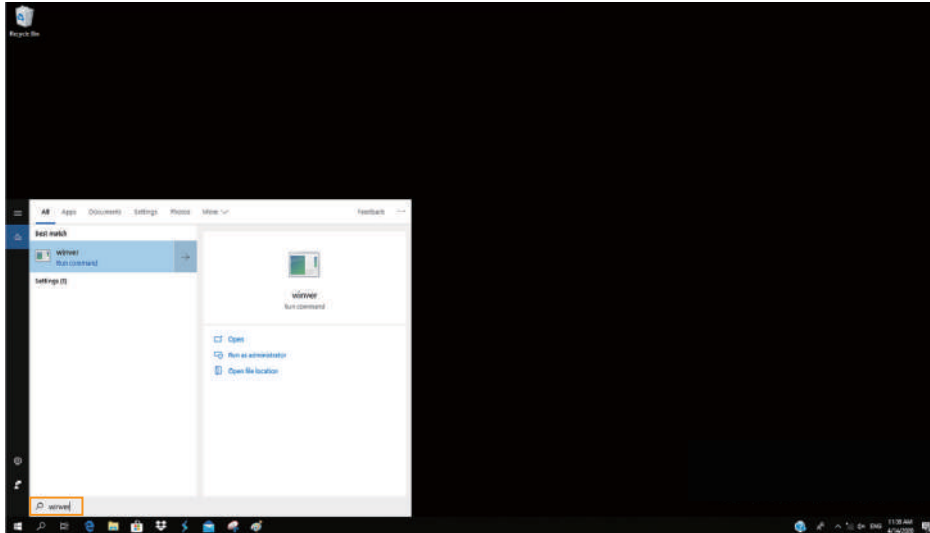
- ① Vocal sounds
  - 10 cases

### 3. Checking O/S Specification

#### 3-1. O/S specification

Minimum System requirements : **Windows 10, Version 1809 or later**

- ① Search **winver** at the search box next to windows start menu icon.



- ② Window version can be checked at the pop-up screen.

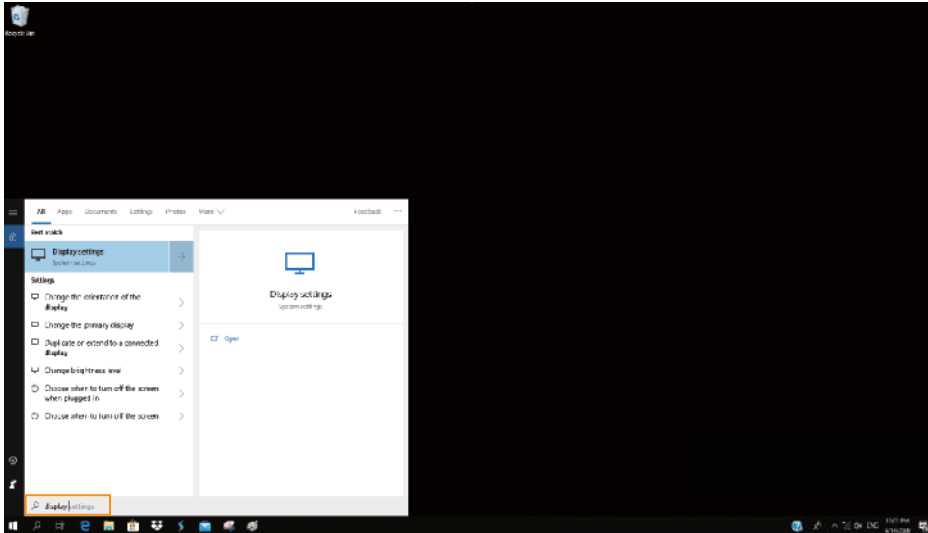


## 4. Checking H/W Specification

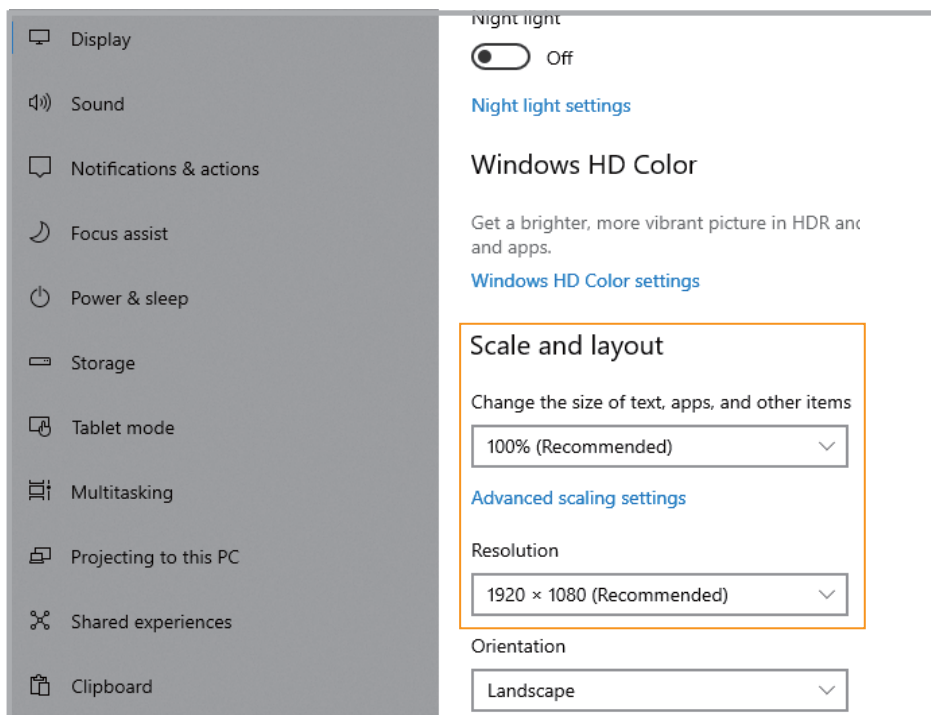
### 4-1. H/W specification

- Resolution : 1920 X 1080
- Text Size : 100%

① Search **Display settings** at the search box next to windows start menu icon.



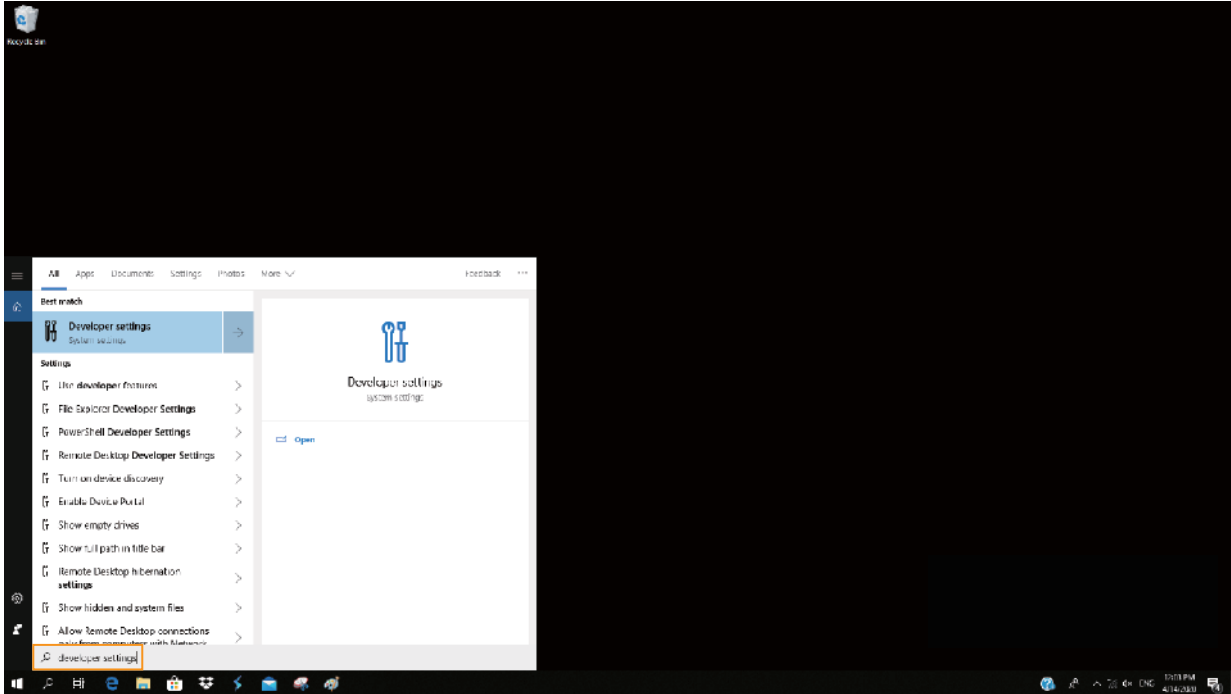
② Set the **Change the size of text** and **Resolution** as below.



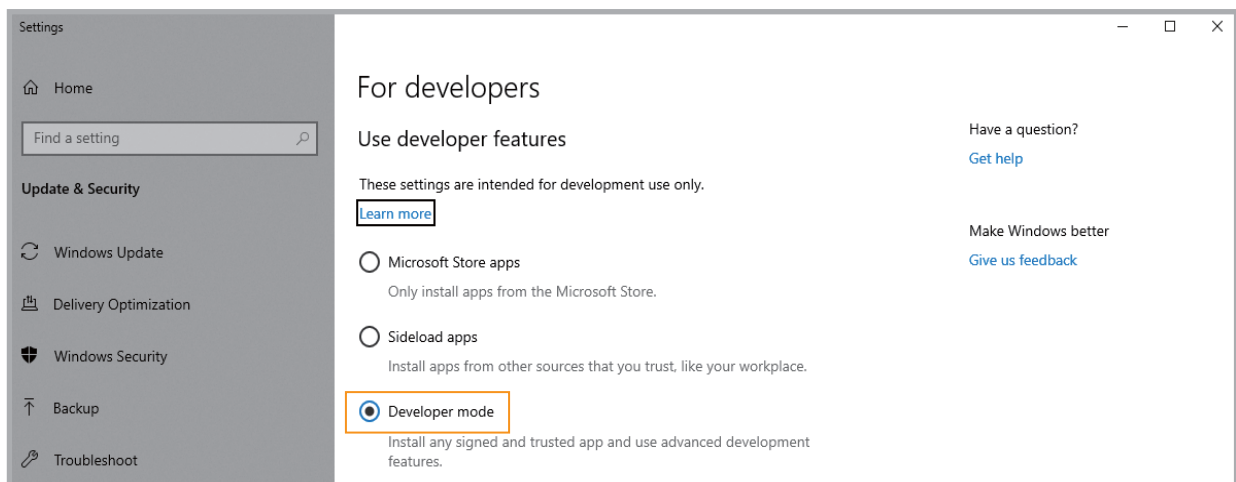
## 5. Install Application

### 5-1. Developer settings

- ① Search **Developer settings** at the search box next to windows start menu icon.



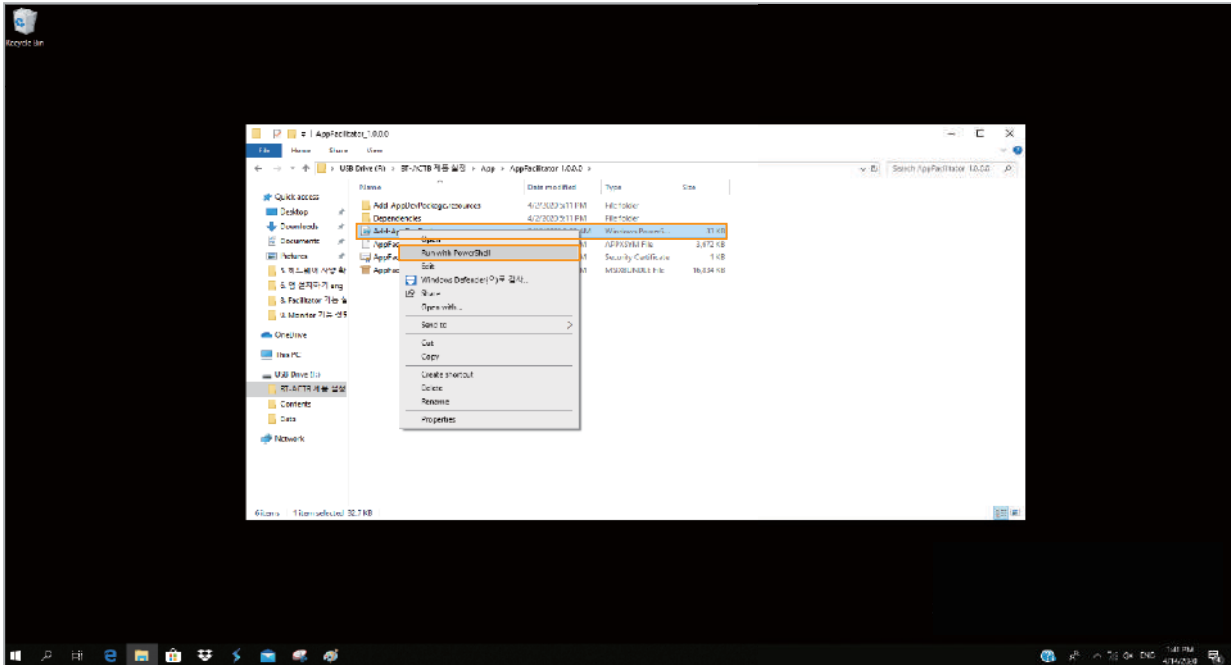
- ② Activate **Developer mode** at the screen.



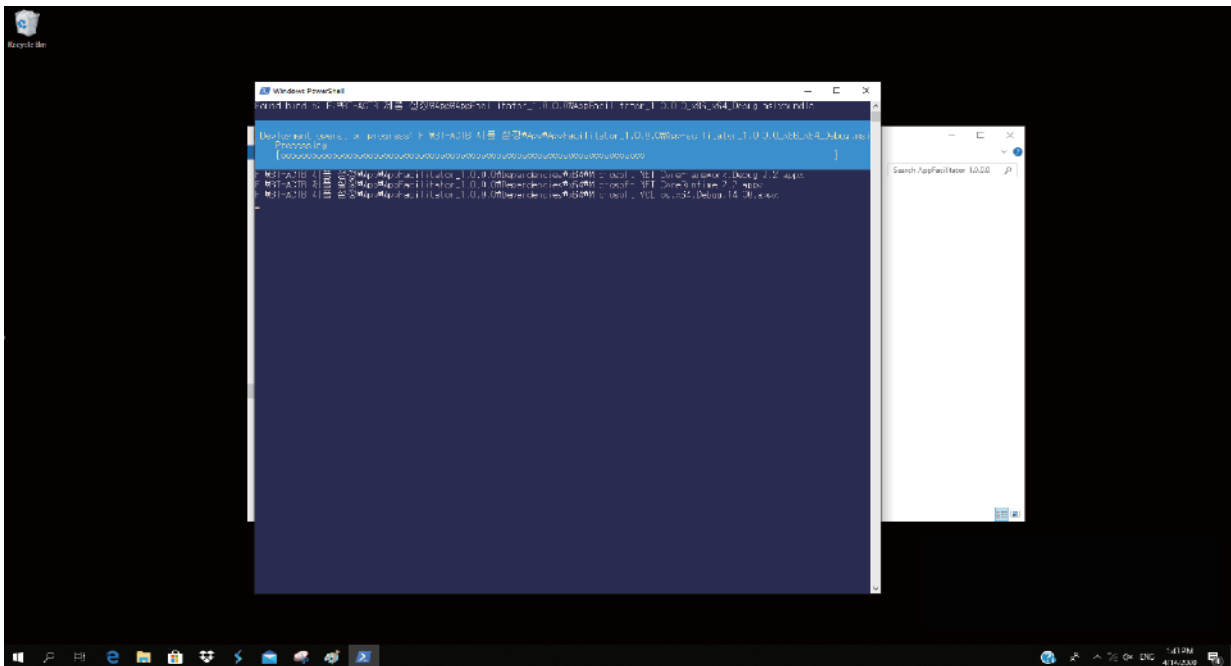


## 5-2. Install app package file

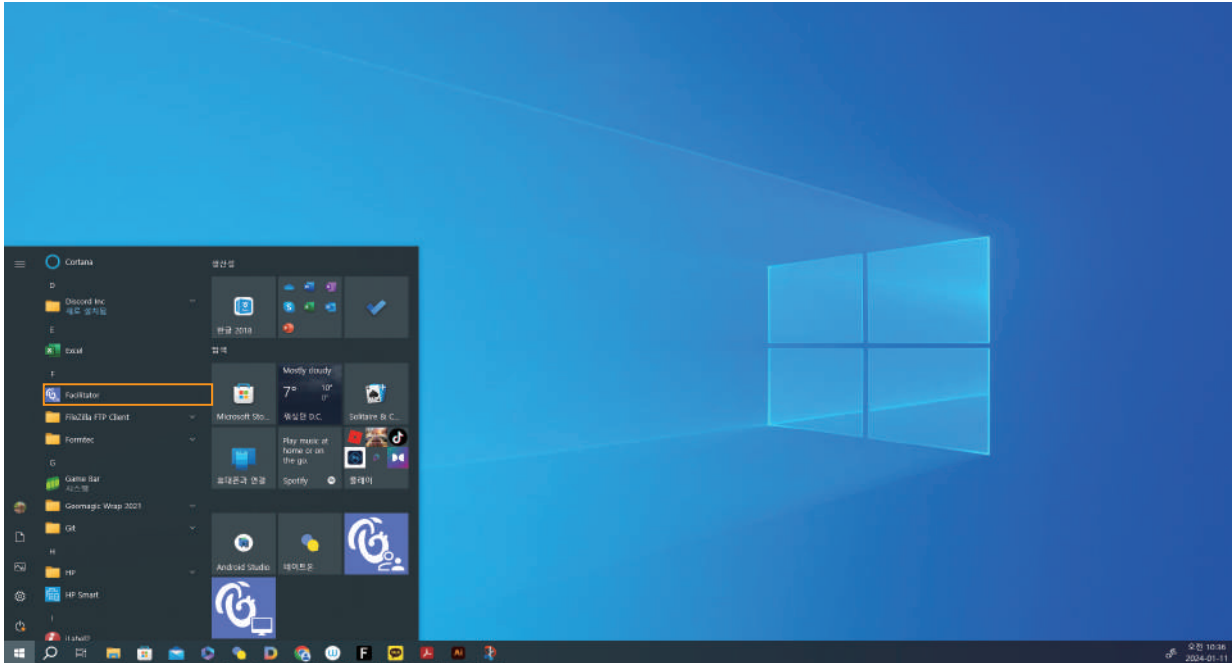
① Select the app package file and right-click to launch **PowerShell**.



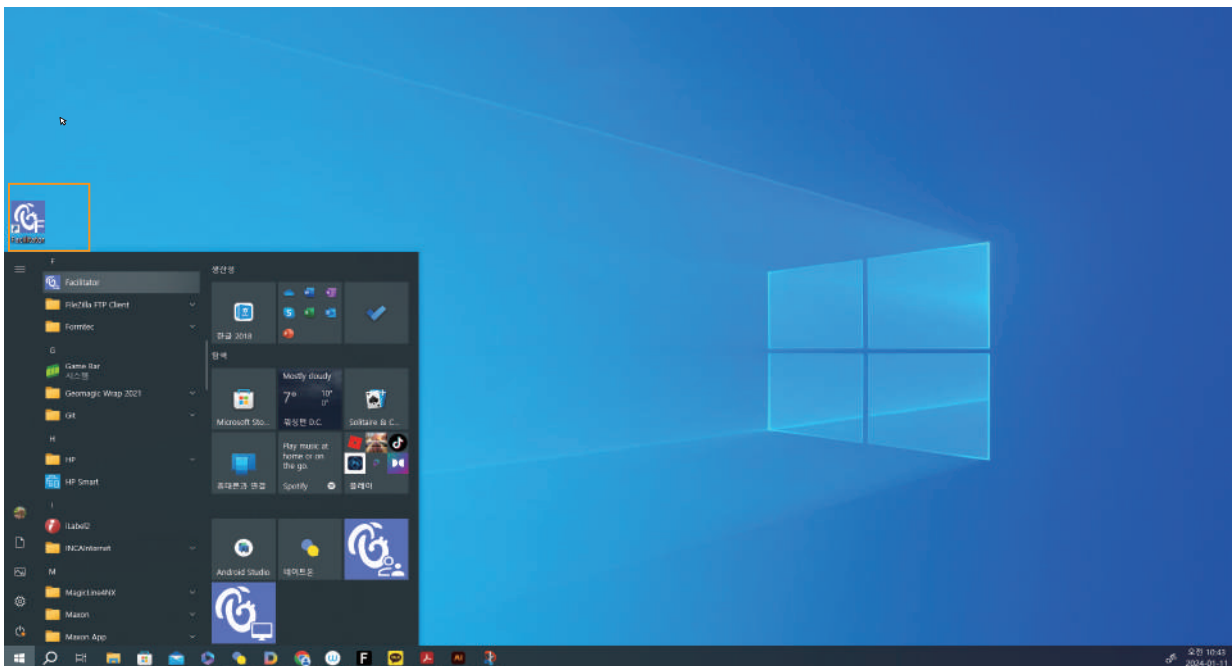
② Install the app by following instructions.  
– It may take some time depending on the PC's specification.



③ When the installation is completed, the app will be on the **windows start menu**.



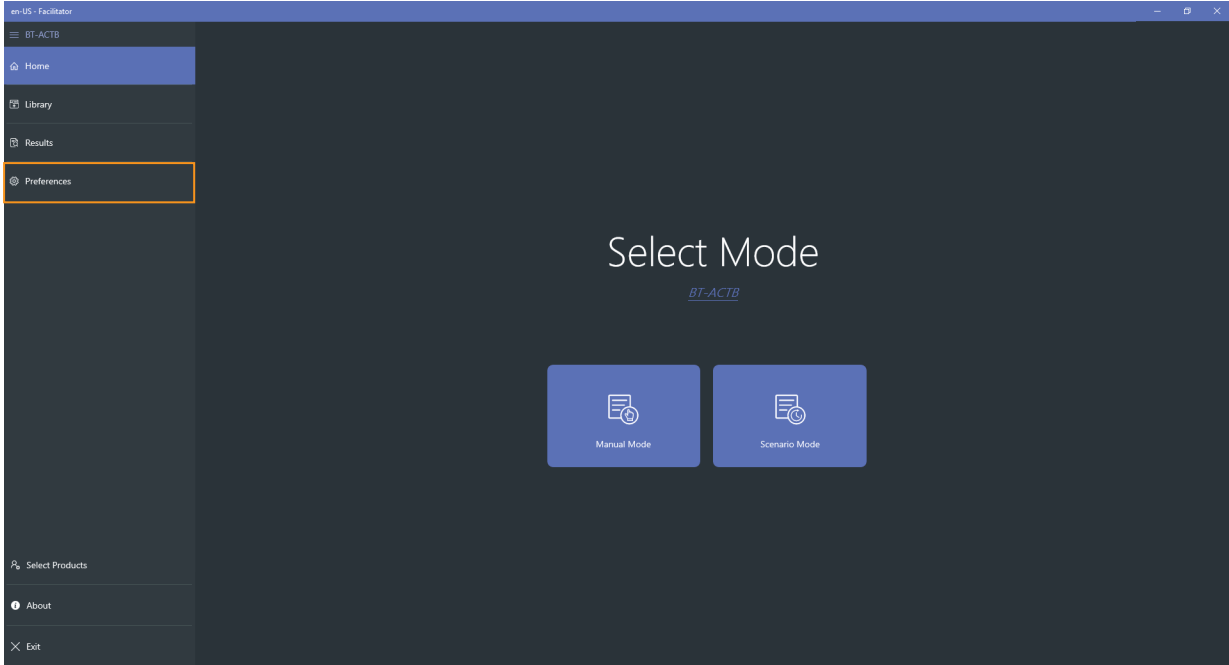
④ The app can be moved to the desktop screen by dragging the mouse.



## 6. Start Application

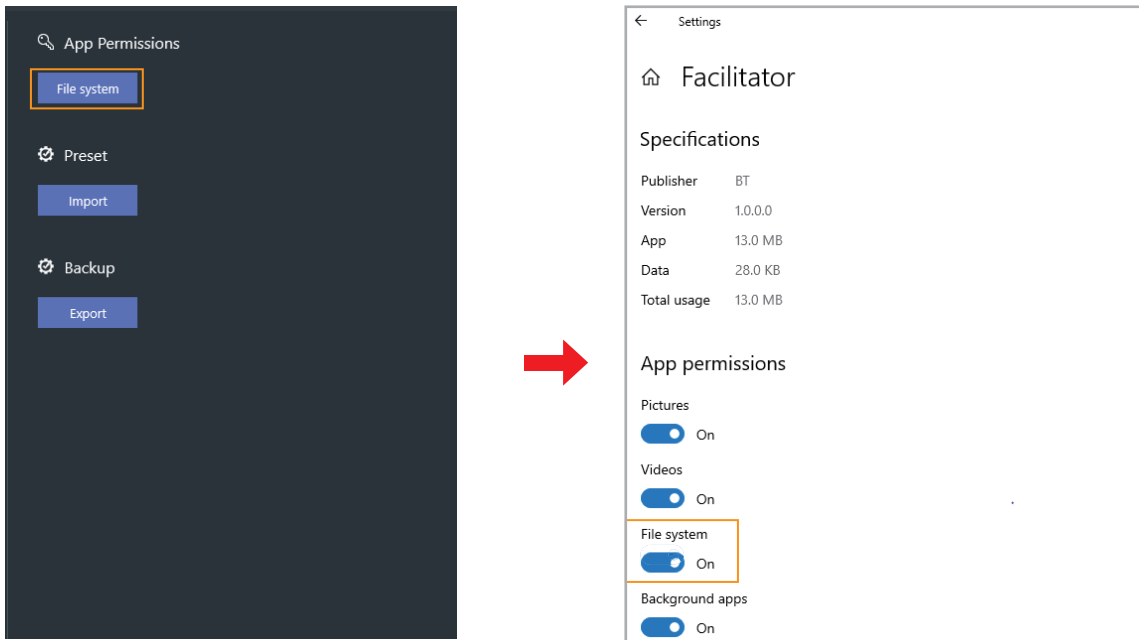
### 6-1. Application settings

- ① Start the app and select **Preferences menu** at the left side.



< Home screen >

- ② Select the file system from the **App permissions** at the right side of the screen.

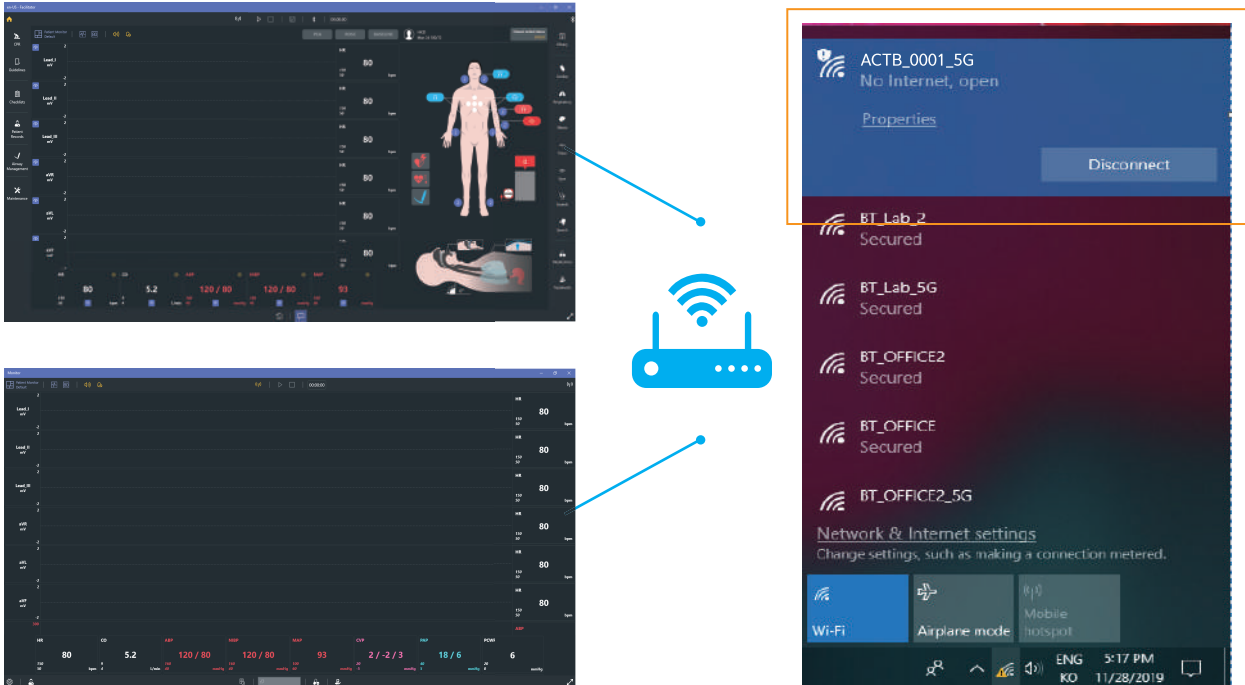


- ③ Activate the file system at the app permissions screen.
- ④ The apps will be automatically shut down when the setting is completed.

## 6-2. Connct Facilitator and Monitor

### ① Connect Wi-Fi

– Connect **Facilitator** and **Monitor** to the offered Wi-Fi router.



### ② Facilitator Settings

– Click the **Start** button at the top menu.

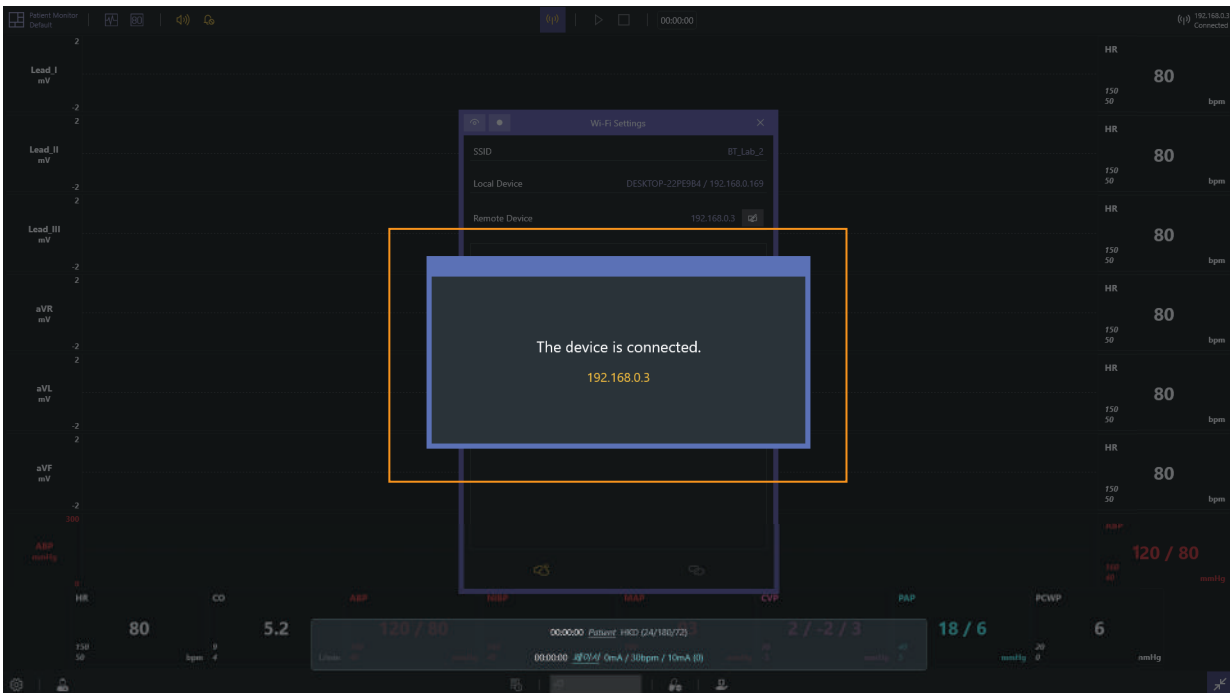


③ Monitor Settings

– Click the **Wi-Fi** button at the top menu.

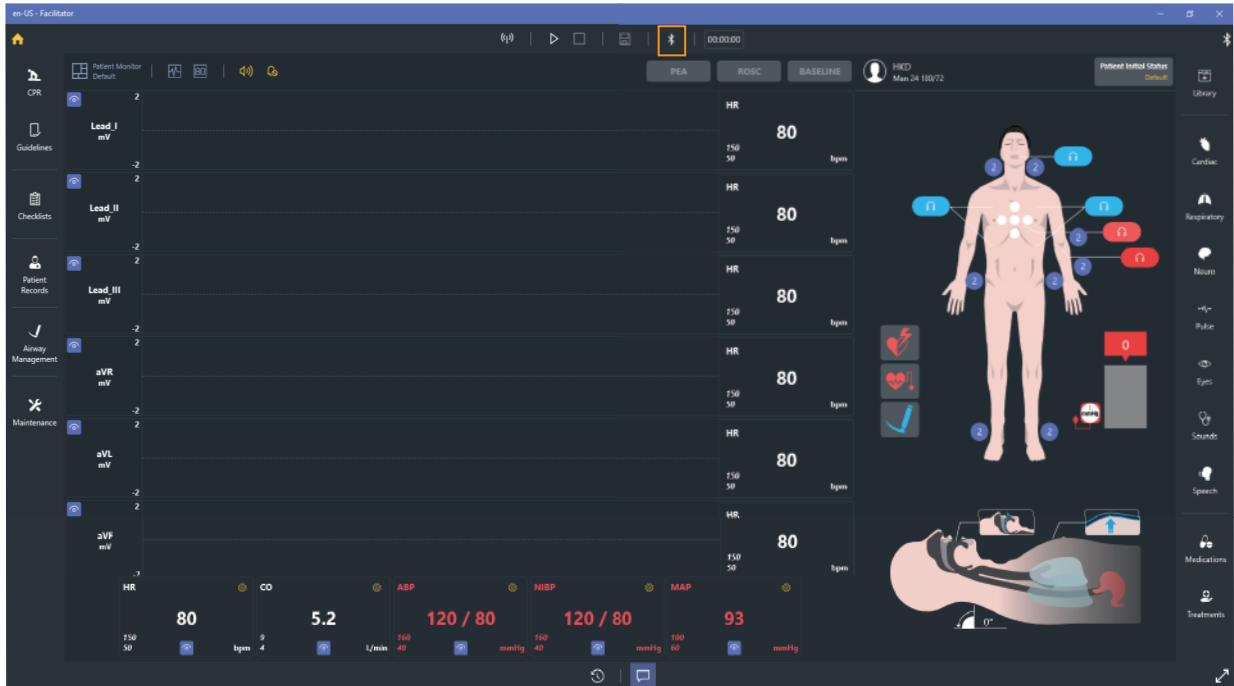


④ When the two apps are connected, you can see the message as shown below.

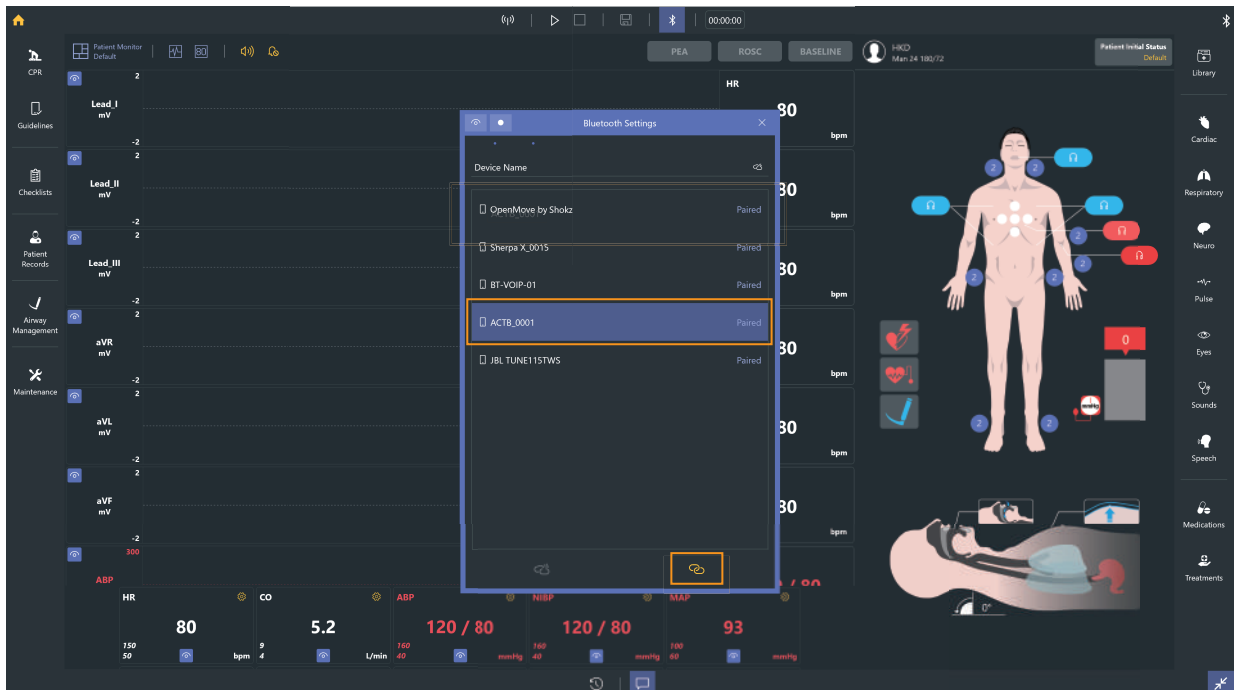


### 6-3. Connect Facilitator and Simulator

- ① Turn on the simulator.
- ② Click the **Bluetooth button** at the top menu.



- ③ Find the **Simulator's serial number** from Bluetooth list and connect it with the simulator.



④ The Bluetooth connection status can be checked in the upper-right corner.

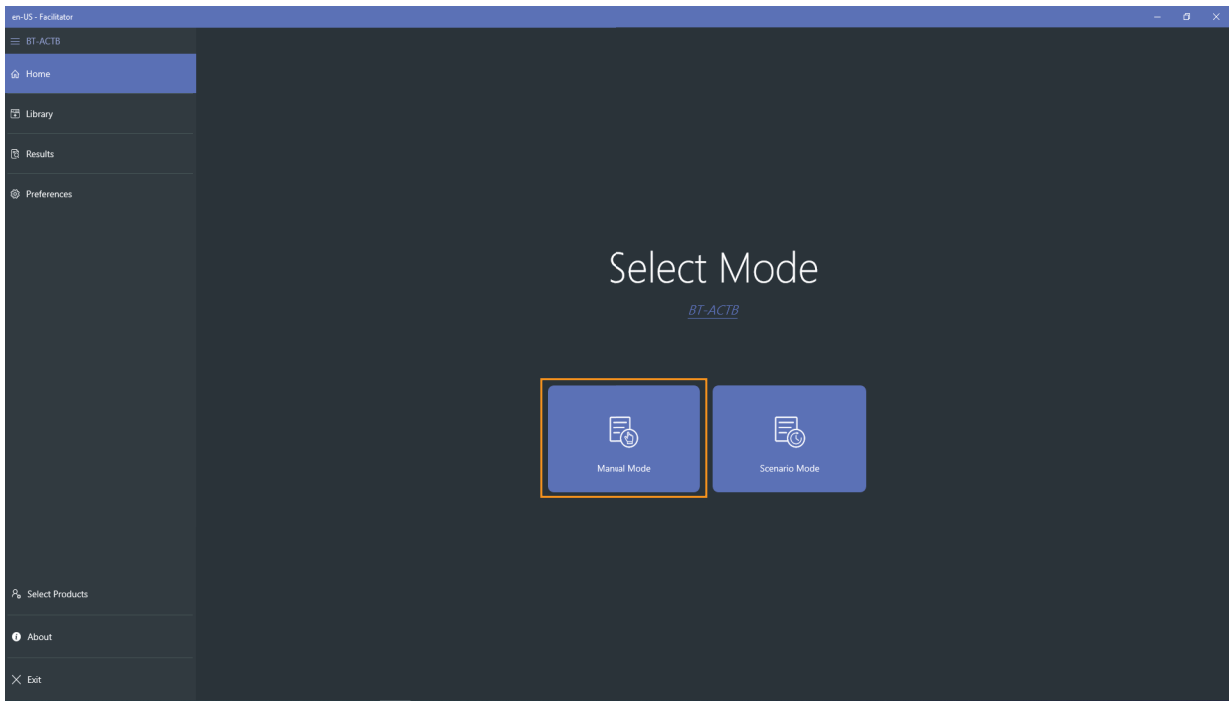


✳ If the simulator is not paired to the laptop, the pairing operation is completed automatically.

# 7. Facilitator Feature

## 7-1. Manual mode

① Select **Manual mode** from the home screen.



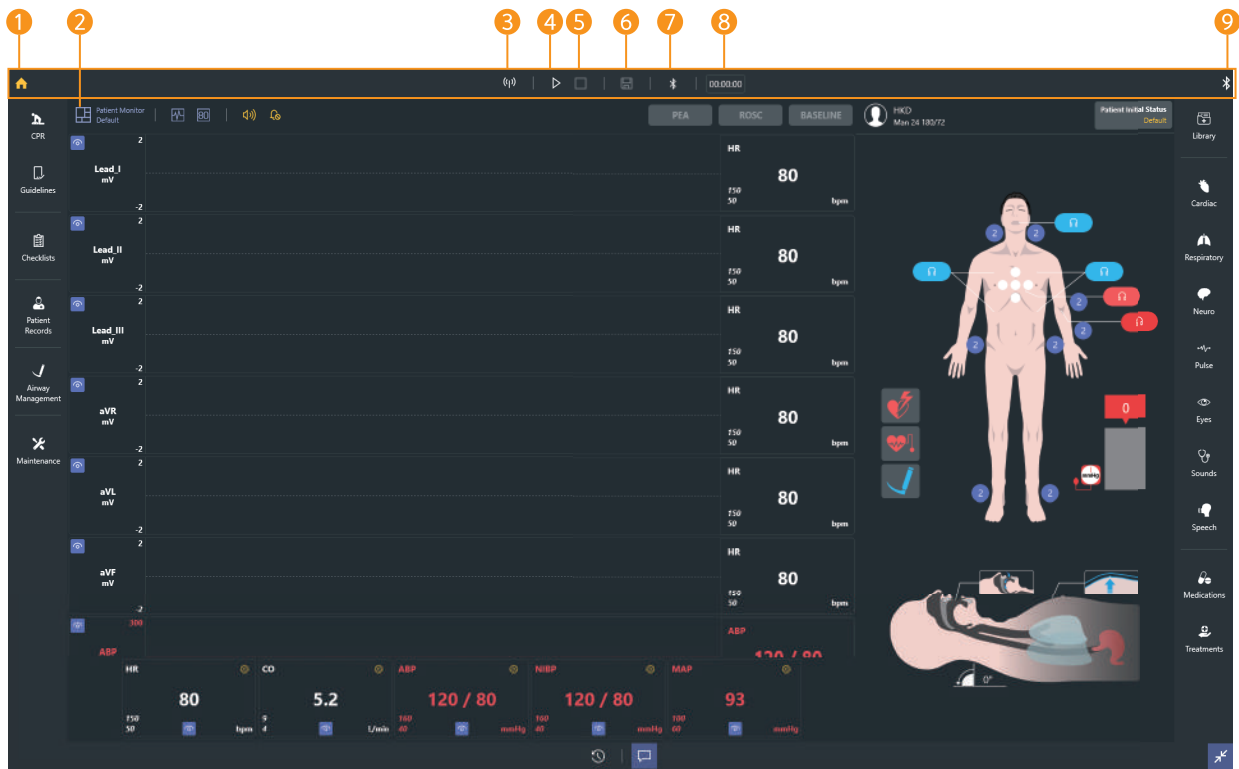
② Layout of manual mode












- ① Top menu
- ② Bottom menu
- ③ Left menu
- ④ Right menu
- ⑤ Patient monitor
- ⑥ Patient status viewer

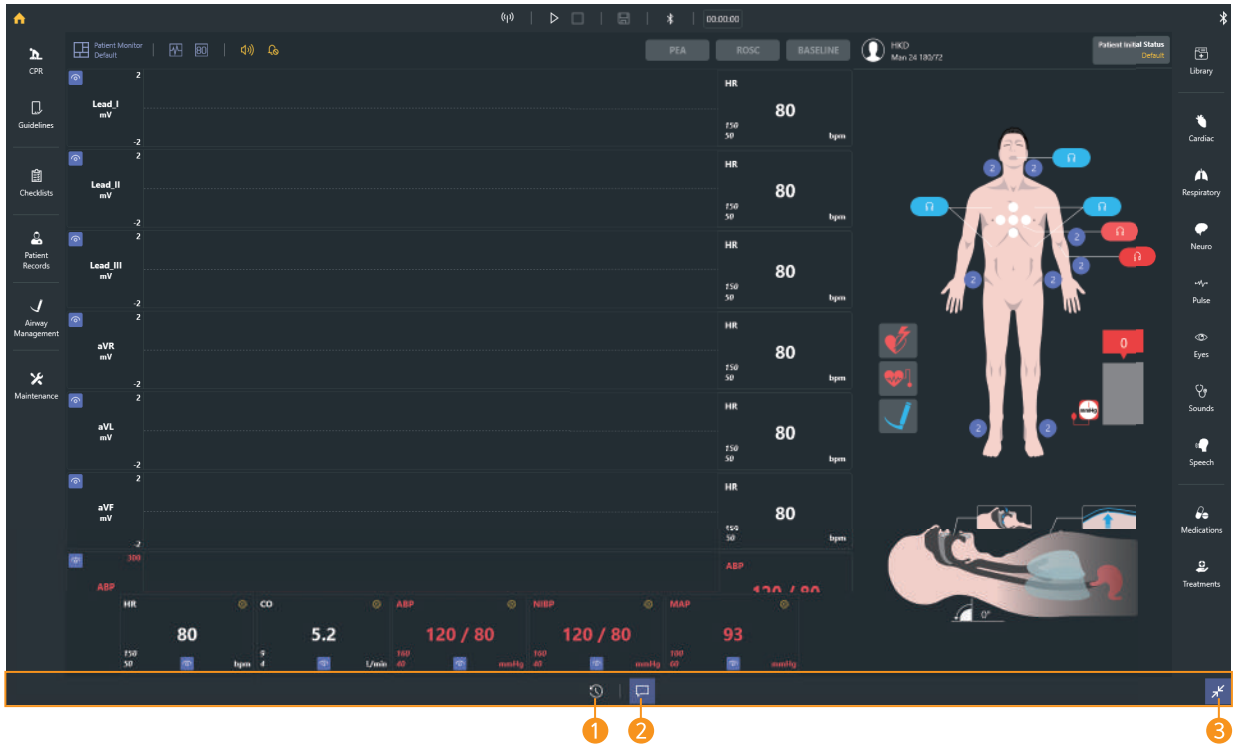


## 7-2. Top menu



- 1 **Home**  : Go to the home screen.
- 2 **Patient monitor settings**  : Change settings of the layout of patient monitor and the audio.
- 3 **Wi-Fi settings**  : Connect with Monitor.
- 4 **Start training**   : Start and pause the training.
- 5 **End training**  : End the training.
- 6 **Save results**  : Save the training result.
- 7 **Bluetooth settings**  : Connect Facilitator to Simulator.
- 8 **Training time**  : Display the training time.
- 9 **Bluetooth connection status** : Displays the simulator connection status.

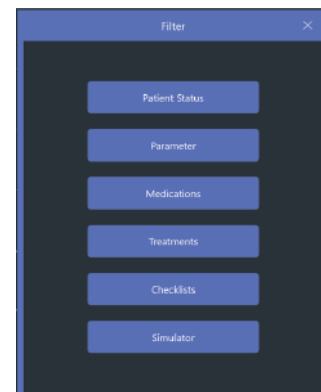
## 7-3. Bottom menu





### 1 Event Logs

- Record changes to parameters, medications, treatments, checklists, and simulators.
- You can select and view the items you want by using the filter.

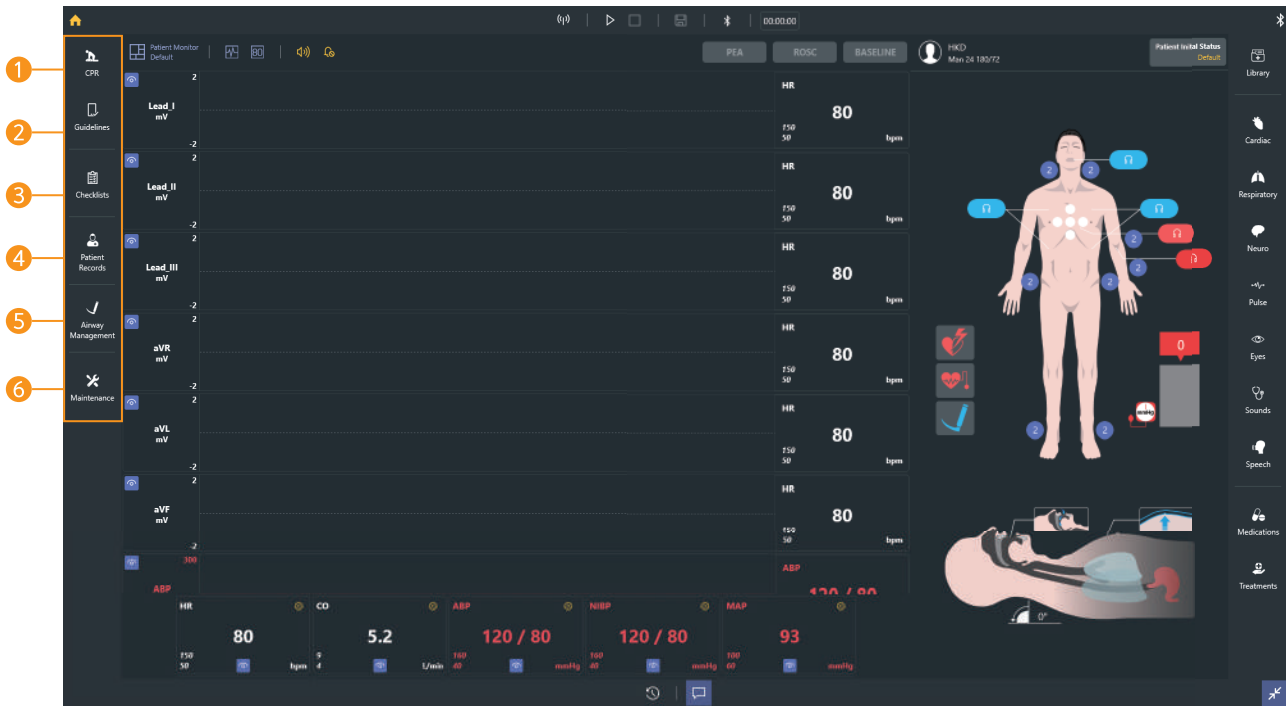
Time	Parameter	Value	Unit
00:00:00	Patient Status	Patient Initial Status	1
00:00:02	Simulation	Airway Management	2
00:00:02	Simulation	Airway Management	3
00:00:02	Simulation	Esophageal Intubation (ETT)	3
00:00:02	Parameter	Heart Rate	80 bpm
00:00:02	Parameter	SpO2	93%
00:00:02	Parameter	Arterial Blood Pressure	120/80 mmHg
00:00:04	Parameter	Cardiac Rhythm	HR - V1 (Atrial)
00:00:14	Treatment	Defibrillator	Biphasic: Defibrillation ▶ 150J (1)
00:00:20	Parameter	Eyes	Right ▶ Inactive (3mm) Left ▶ Inactive (3mm)
00:00:27	Treatment	Fraction of Inspired Oxygen	FiO2 ▶ 10%
00:00:28	Treatment	Nasal Cannula	Flow Rate ▶ 2LPM



2 Pop-up message  : You can show or hide the pop-up message.

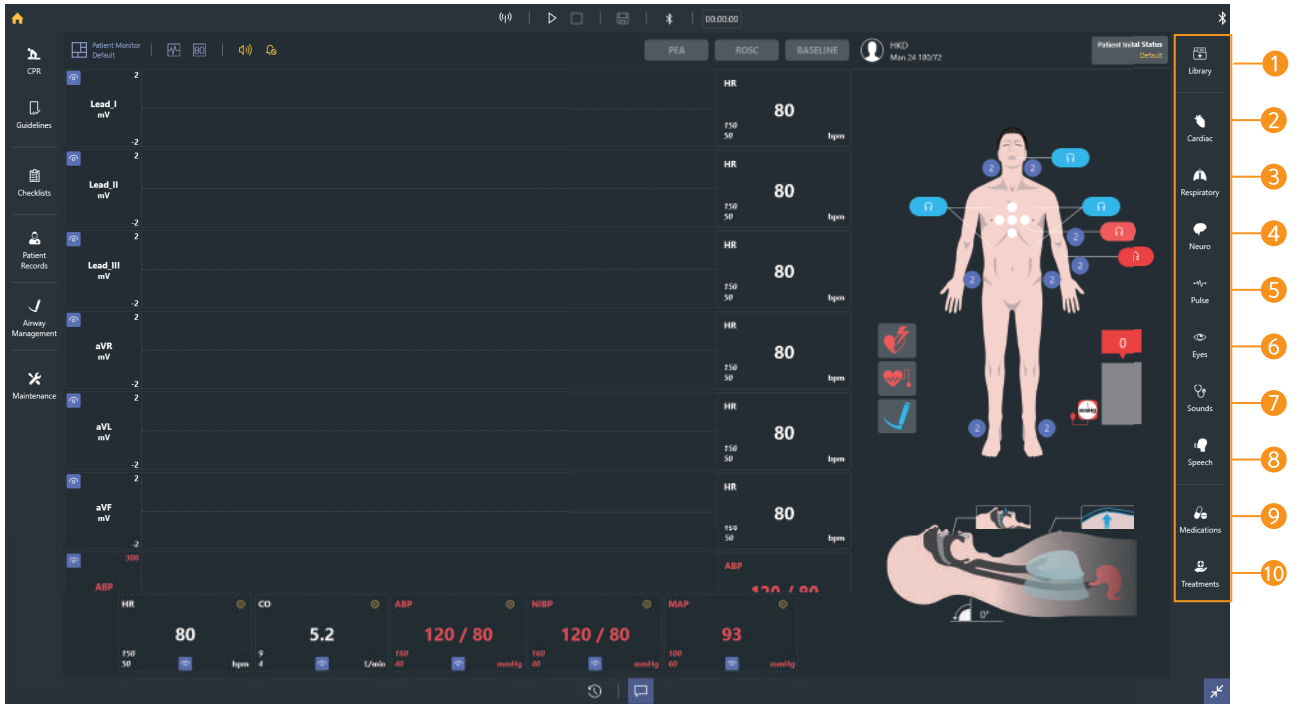
3 Full-screen mode  : You can switch to full screen mode.

## 7-4. Left menu



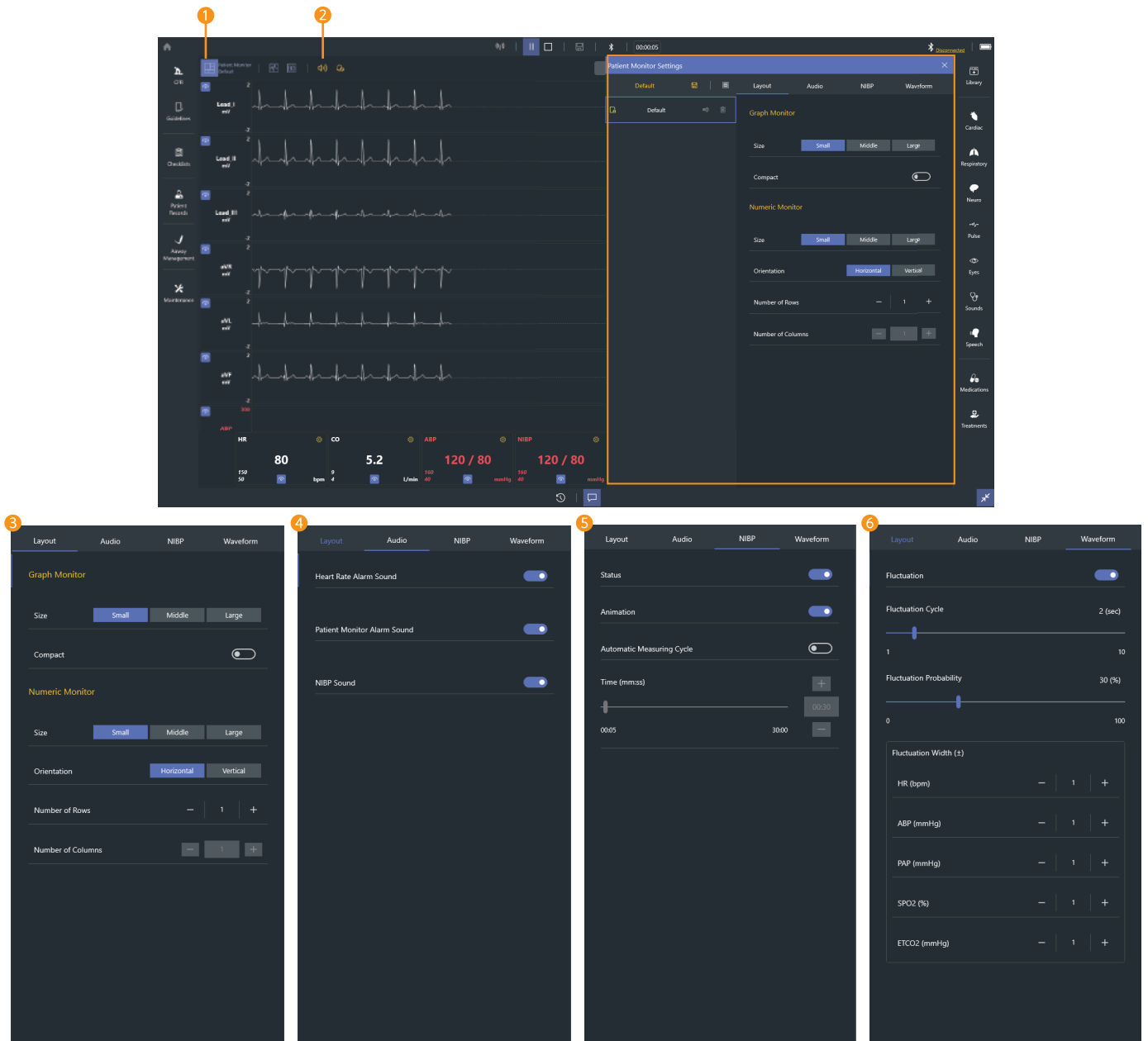
- 1 **CPR** : Show the CPR feedback in real-time with graph and chart.
- 2 **Guidelines** : You can set CPR guidelines.
- 3 **Checklists** : You can create the checklist for the training.
- 4 **Patient Records**
  - Set or check the patient profile.
  - Send the patient history and diagnostic result.
  - Set or check the initial patient status.
- 5 **Airway management** : You can choose the intubation device or set the force on incisors.
- 6 **Maintenance** : You can check the simulator's pneumatic operation status or calibrate the sensor values.

## 7-5. Right menu



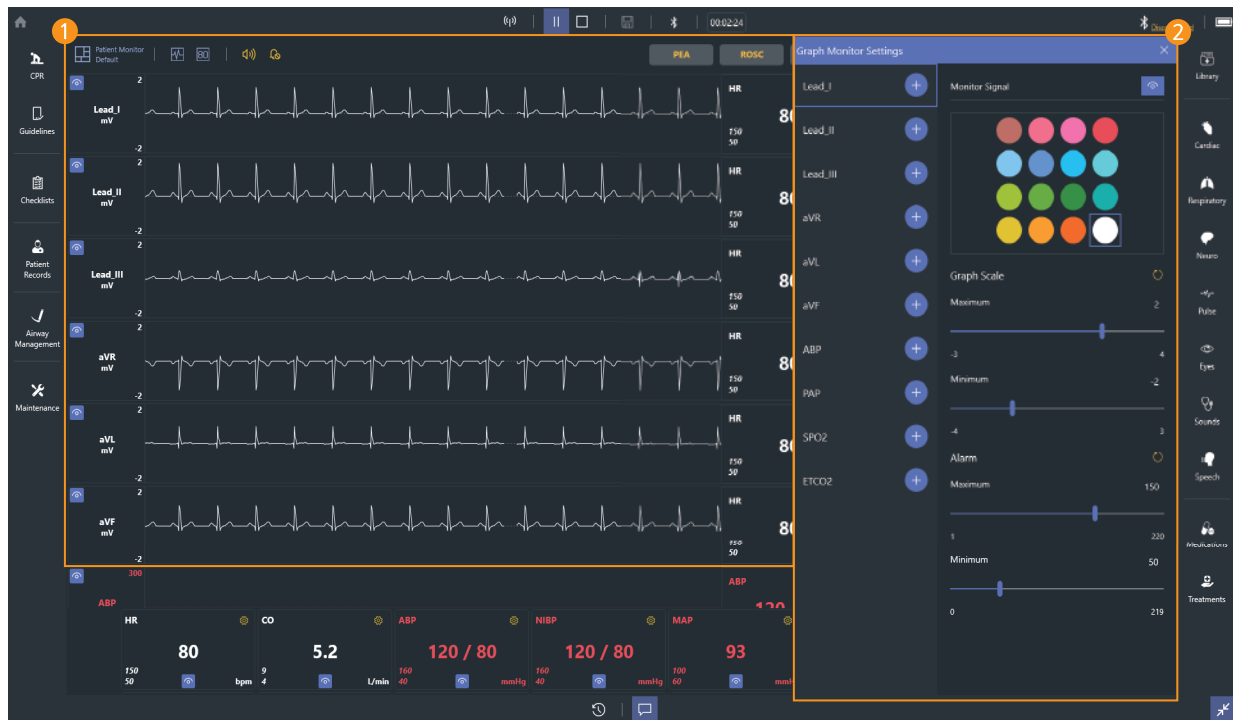
- 1 **Library** : You can set and save patient parameters at once.
- 2 **Cardiac** : You can set cardiac parameters such as cardiac rhythm, heart rate, cardiac output.
- 3 **Respiratory** : You can set respiratory parameters such as chest rising, airway obstruction, respiratory rate.
- 4 **Neuro** : You can set nervous parameters such as ICP, body temperature.
- 5 **Pulse** : You can adjust pulse status and the intensity.
- 6 **Eyes** : You can set the pupil status.
- 7 **Sounds** : You can set heart sounds, lung sounds and Korotkoff sounds.
- 8 **Speech** : You can set the speech and the breathing sound.
- 9 **Medications** : Create a list of medication needed for the training and use the medication to make a history log or change the patient status in Scenario mode.
- 10 **Treatments** : You can train defibrillation, pacing, oxygen therapy.

## 7-6. Patient monitor settings



- 1 Patient monitor settings
  - You can select a saved patient monitor or create a new one.
- 2 Mute
  - Turn the sound ON/OFF.
- 3 Patient monitor layout settings
  - You can set the layout of the graph monitor and numeric monitor.
- 4 Audio settings
  - You can set the heart rate alarm, patient monitor alarm, and NIBP sound.
- 5 NIBP settings
  - You can set the NIBP auto cycling.
- 6 Waveform settings
  - The fluctuation for the graph of patient parameter can be set.

## 7-7. Patient monitor (Graph monitor)



### 1 Graph monitor

- Display ECG, ABP, PAP, SPO2, ETCO2 waveform.
- You can change the ECG waveform.

### 2 Graph monitor settings

- You can add or delete waveforms to the graph monitor.
- You can change the color of the waveform.
- You can display or block the signal of the waveform.
- You can adjust the graph scale.
- You can set the alarm.

## 7–8. Patient monitor (Numeric monitor)



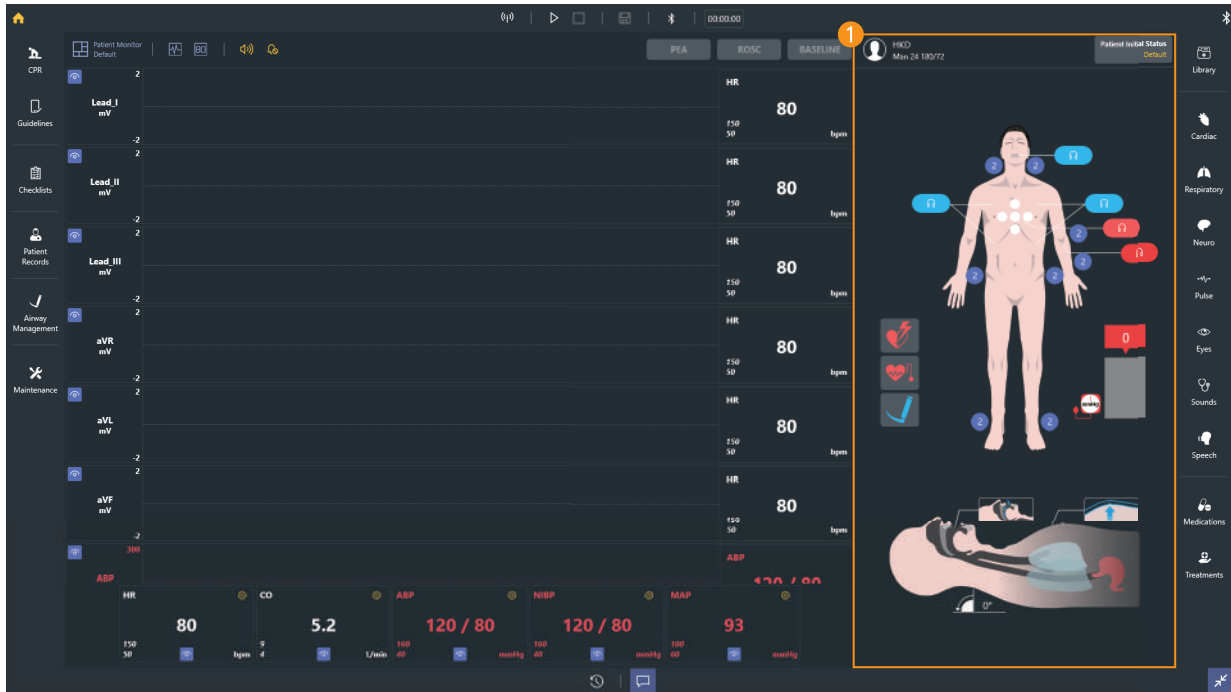
### 1 Numeric monitor

- Display numeric values such as HR, CO, ABP.

### 2 Numeric monitor settings

- You can add or delete patient parameters in the numeric monitor.
- You can change the color of the patient parameters.
- You can show or hide patient parameters.
- You can set the alarm.

## 7–9. Patient status viewer

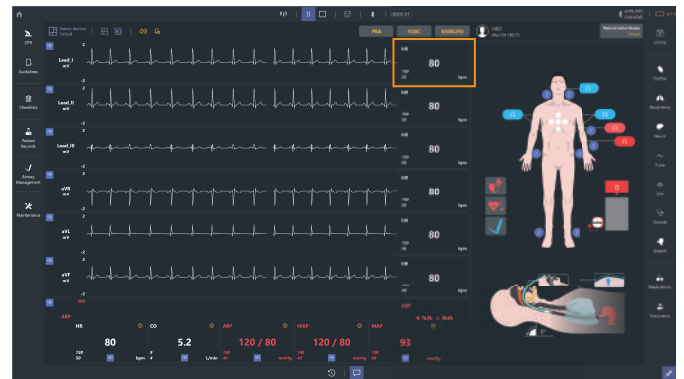
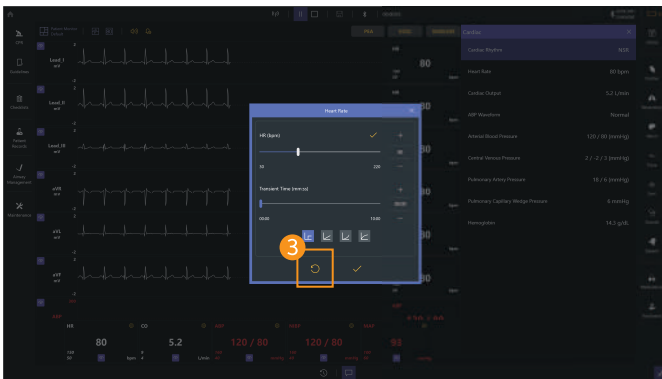
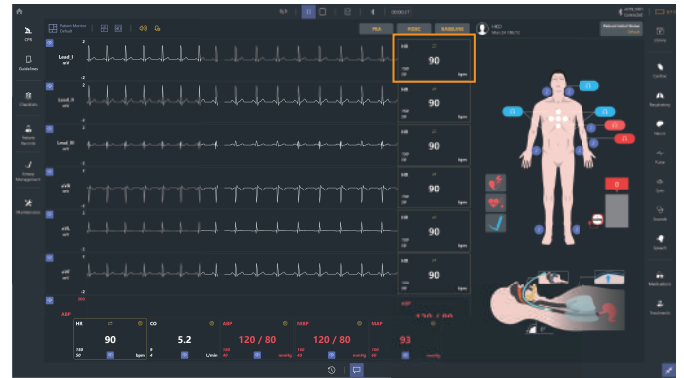
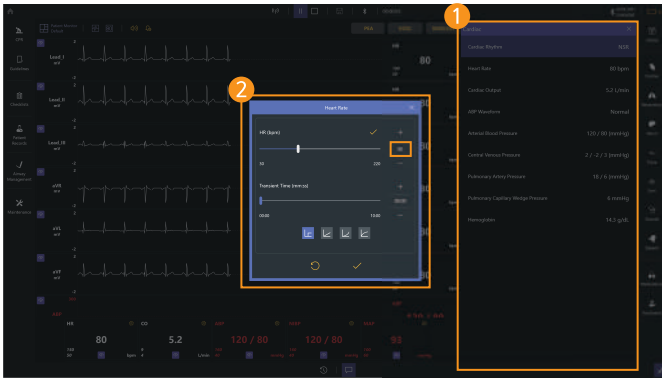



### 1 Display or change the current patient status.

- Display the patient profile.
- Display the hands placement during chest compression.
- Display the pulse intensity and the position of palpation.
- Display the cuff pressure.
- Display heart sounds, lung sounds and the Korotkoff sounds status.
- Display the airway angle.
- Display the jaw thrust maneuver.
- Display the force on incisor.
- Display the position of intubation.
- Display the stomach inflation.
- Display the chest rising and the airway obstruction.
- Display the status of pneumothorax.

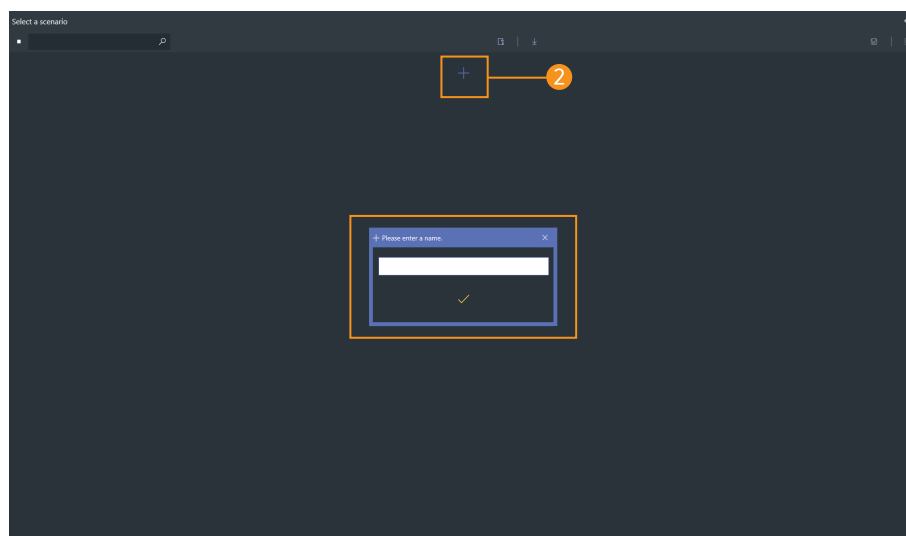
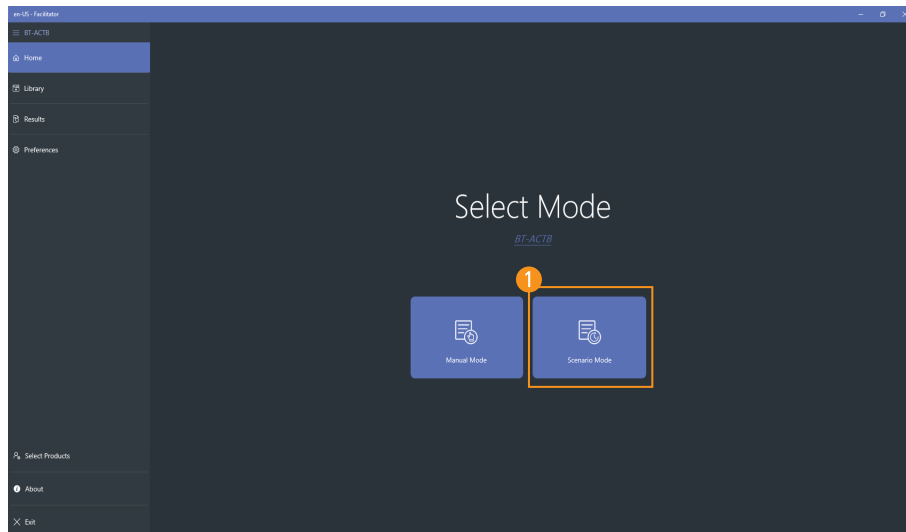


## 7-10. Change the patient status

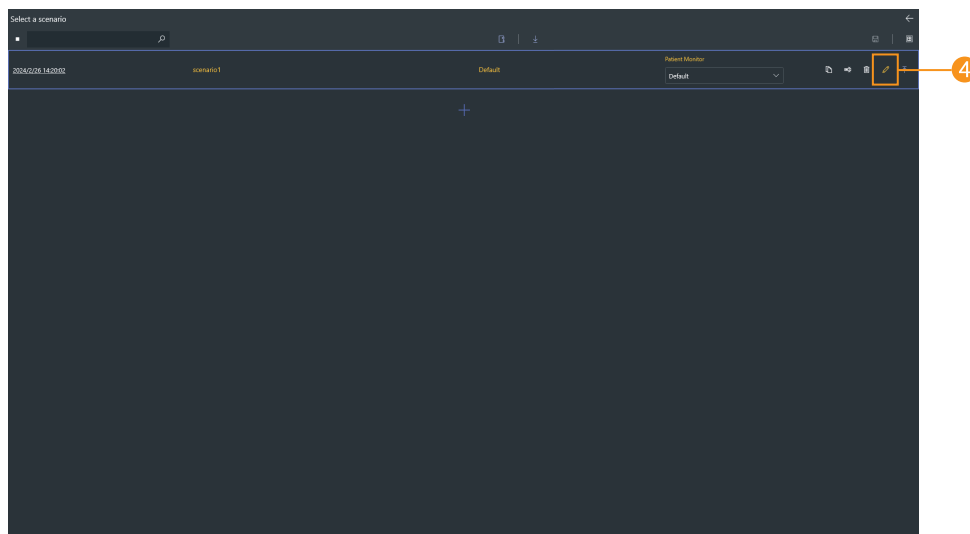
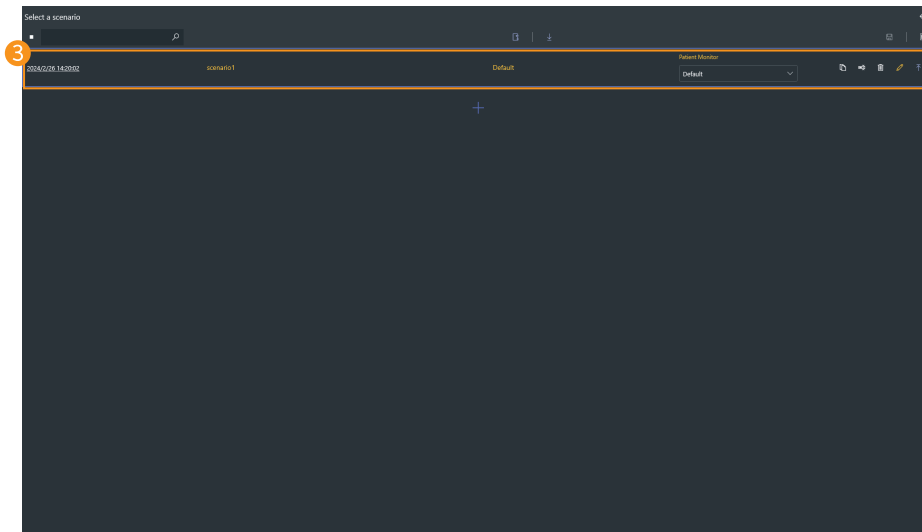


- 1 Select patient parameter menu
  - Select the patient parameter menu that you want to change.
- 2 Set the parameter
  - Change the parameter and transient time.
  - When the change is made on patient parameters,  will be displayed.
- 3 Reset the parameter
  - The patient parameters can be reset using the reset icon.

## 7-11. Scenario mode



- 1 Start scenario mode
  - Select the scenario mode from the home screen.
- 2 Create a scenario
  - Click the **Add scenario button** and enter a scenario name.

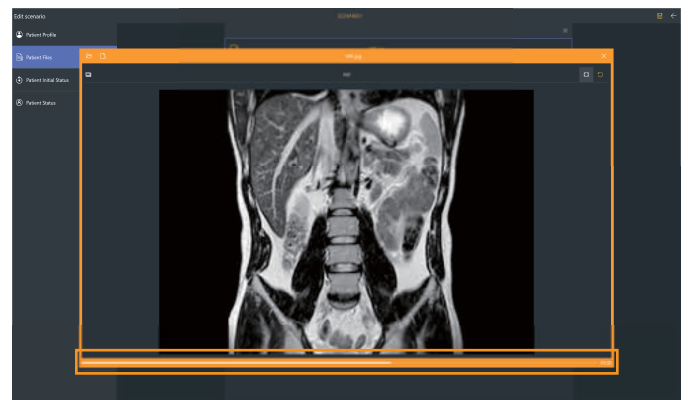
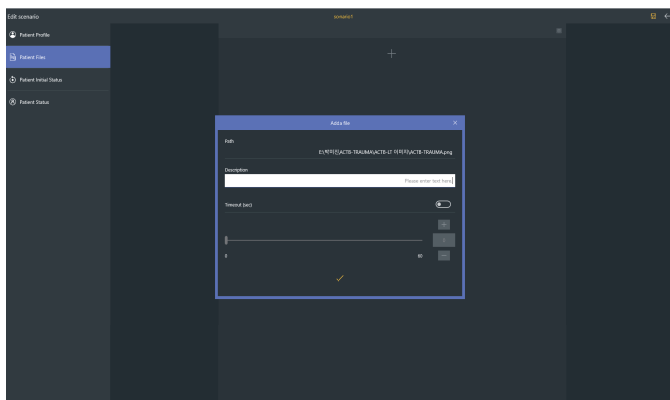
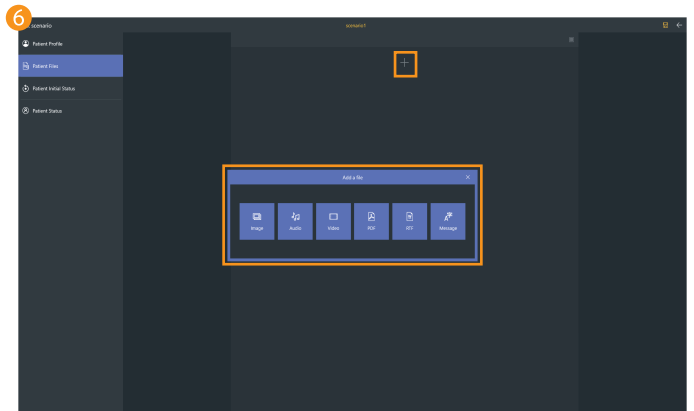
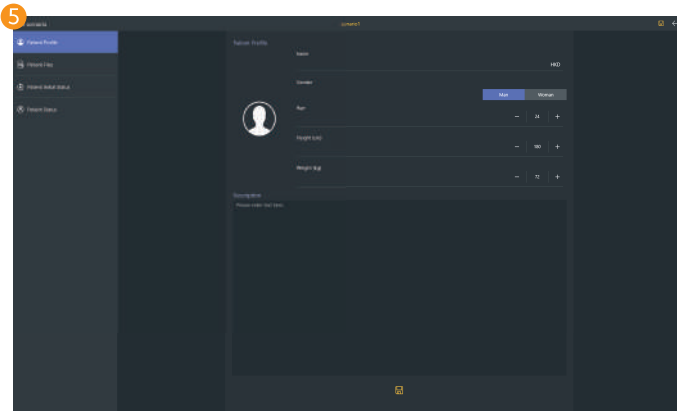


### 3 Confirm scenario creation

- You can check the scenario created date and name.
- You can check the selected initial patient status.
- You can change the scenario name.
- You can delete the scenario.
- You can copy the scenario.
- You can export or import scenarios.

### 4 Edit the scenario

- Click the **Edit button** and edit the scenario.

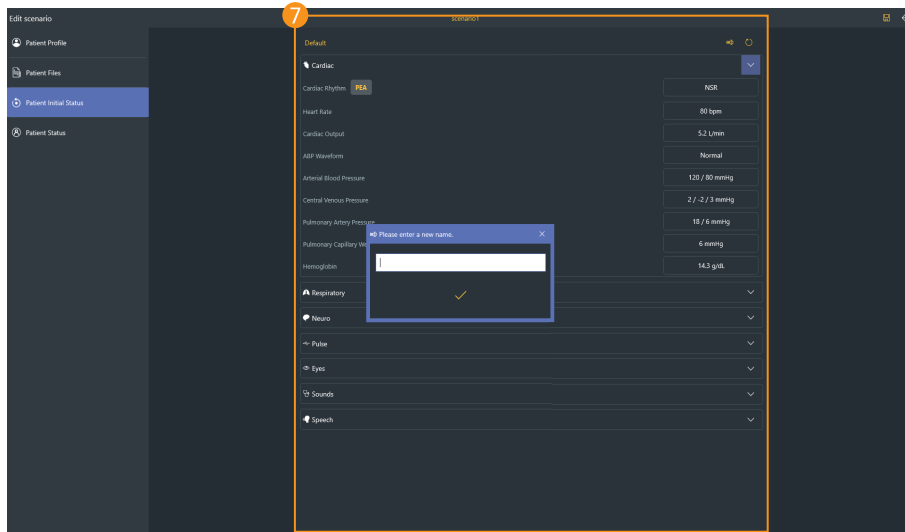


### 5 Set the patient profile

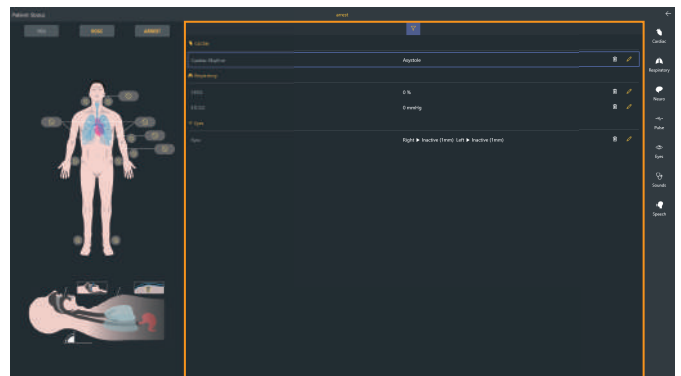
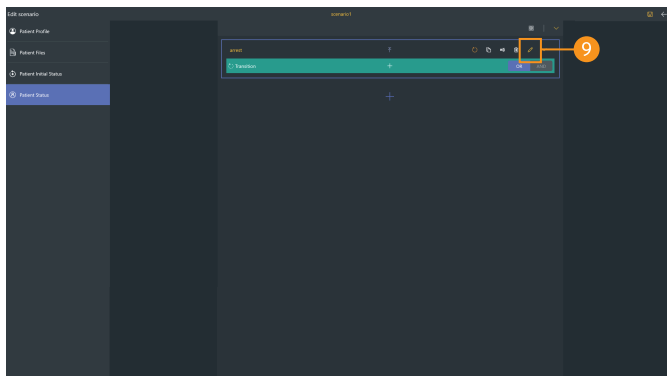
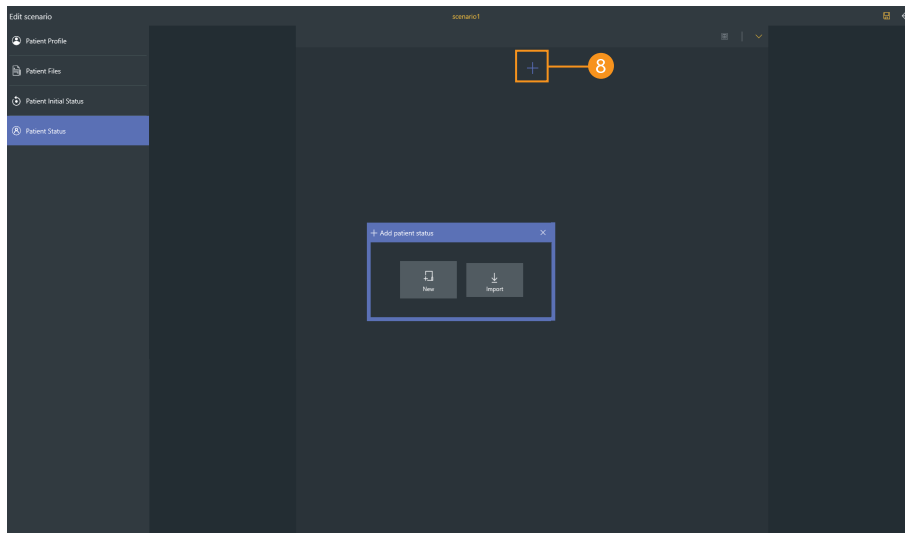
- Set the patient's name, gender, age, height and weight.
- A brief record of the patient's condition is possible.

### 6 Add patient file

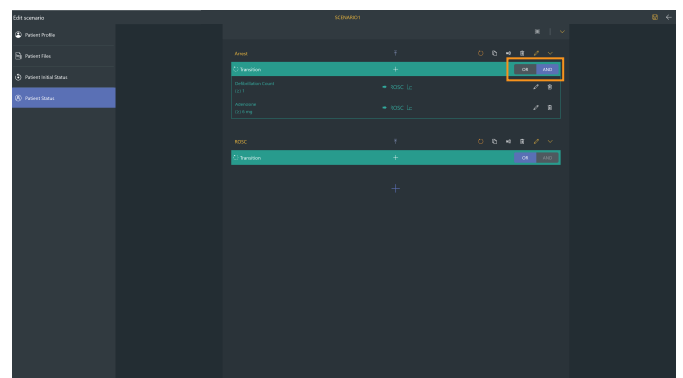
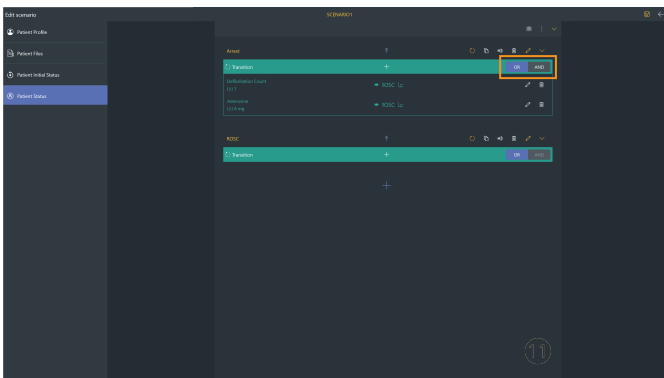
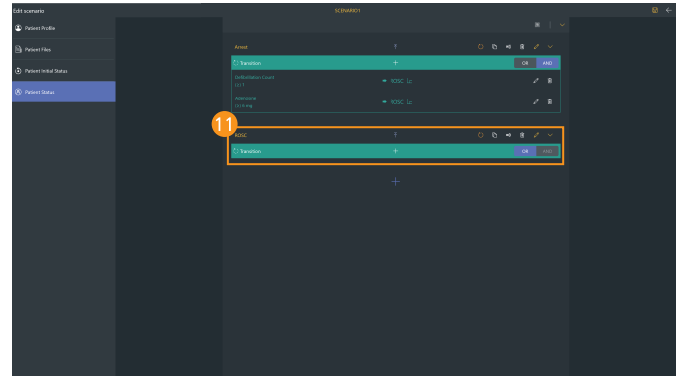
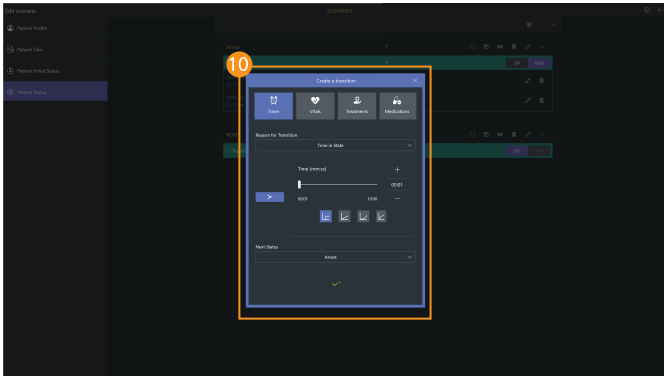
- File can be saved as image, audio, video, PDF, RTF, text format.
- When adding the file, you can add the brief description and set the display expiration time.



- 7 Set the initial patient status
- You can set or save the initial patient status.
  - Set the name of the initial patient status.



- 8 Add patient status
  - Click the **Add button** to create a patient status needed for the training.
  - You can get patient status from the patient status library.
- 9 Set the patient status
  - Click the **Edit button** to change the patient status.

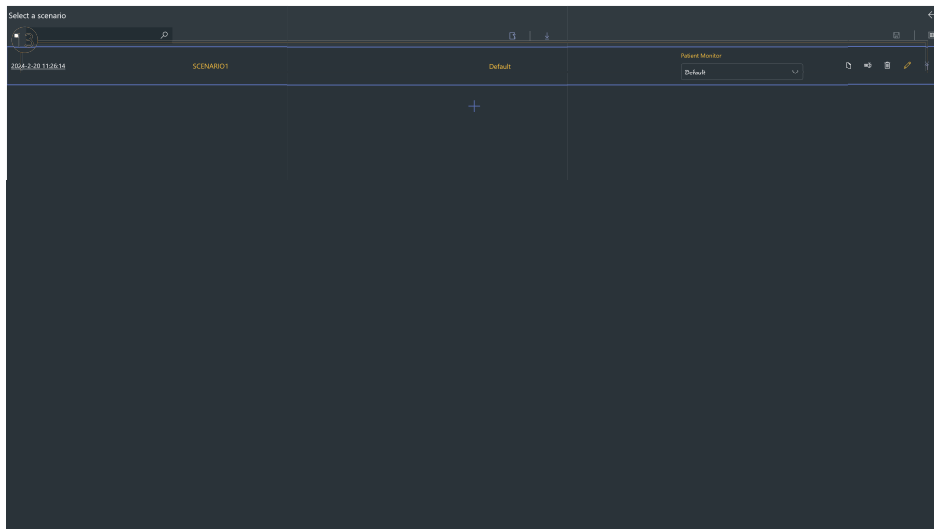
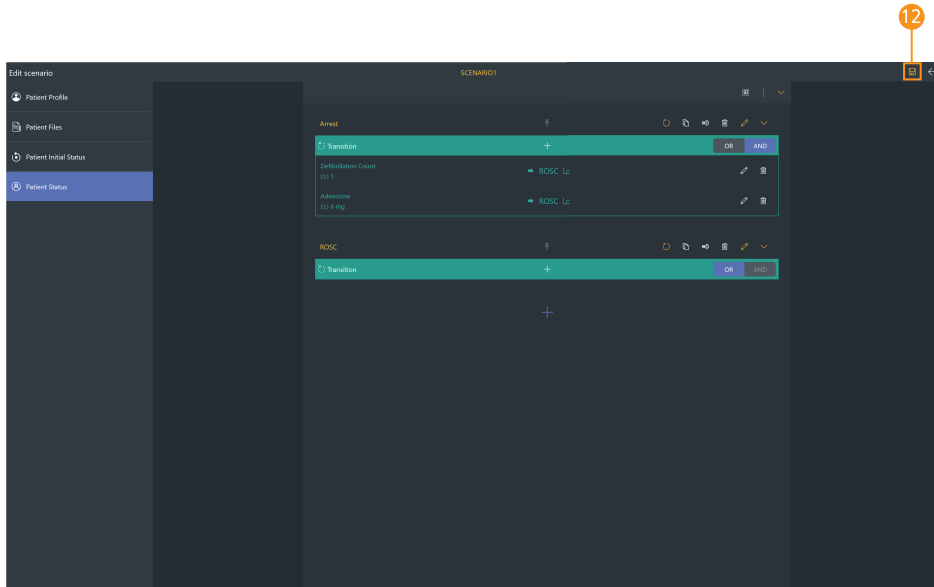


**10 Create transition**

- You can create transition conditions for changing patient status.
- There are timer, vital signs, treatments and medications for the transition.
- OR and AND function are possible between added transitions.
  - OR : The transition will be proceeded even if only one transition condition is satisfied.
  - AND : The transition will be proceeded when all transition conditions are satisfied.

**11 Check the transition**

- Check the transition condition and the next patient status.



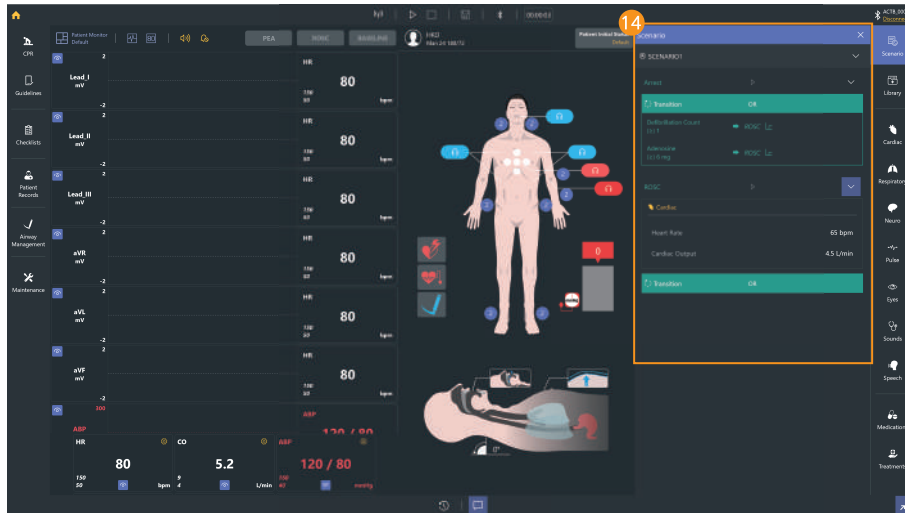
**12 Save the scenario**

– Click the **Save button** to save the scenario.

**13 Start scenario**

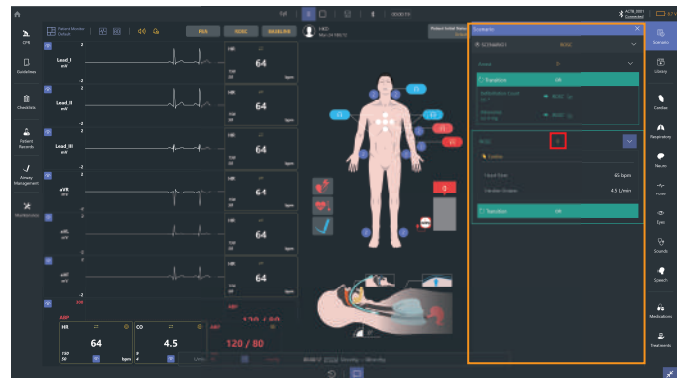
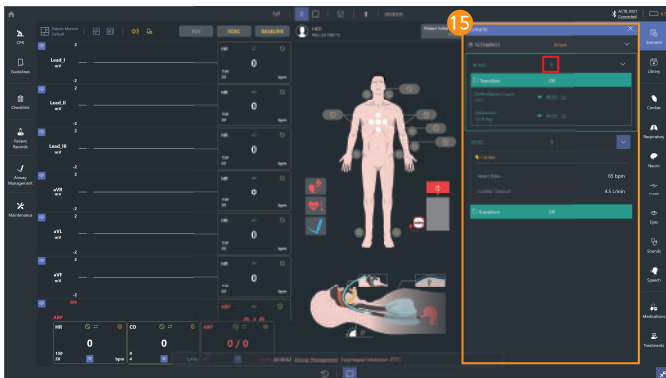
– Select the scenario that you want to run from the scenario list.





14 Run scenario – 1

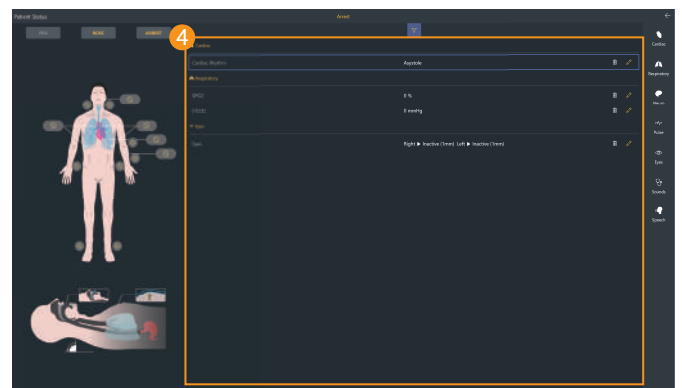
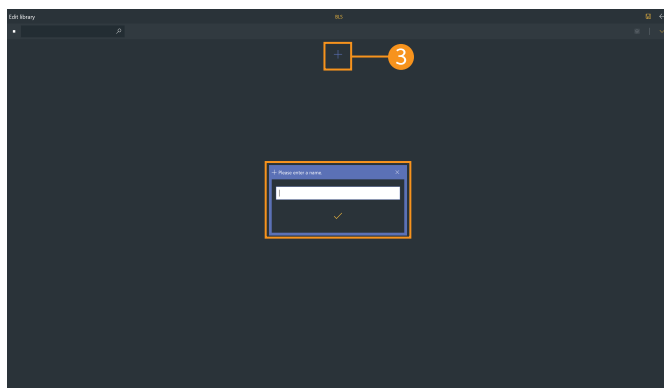
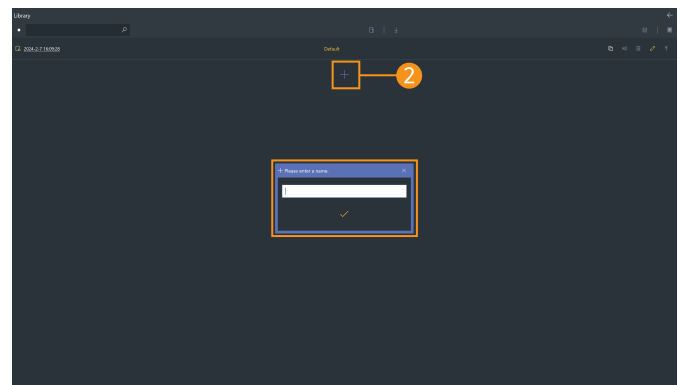
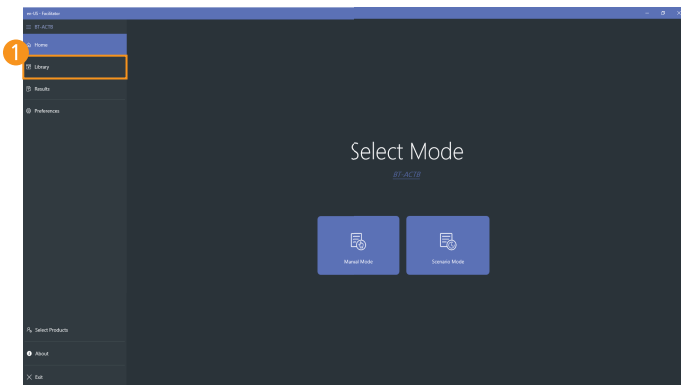
- You can start or stop the scenario from the scenario menu.
- Check the summarized information for the patient parameters.



15 Run scenario – 2

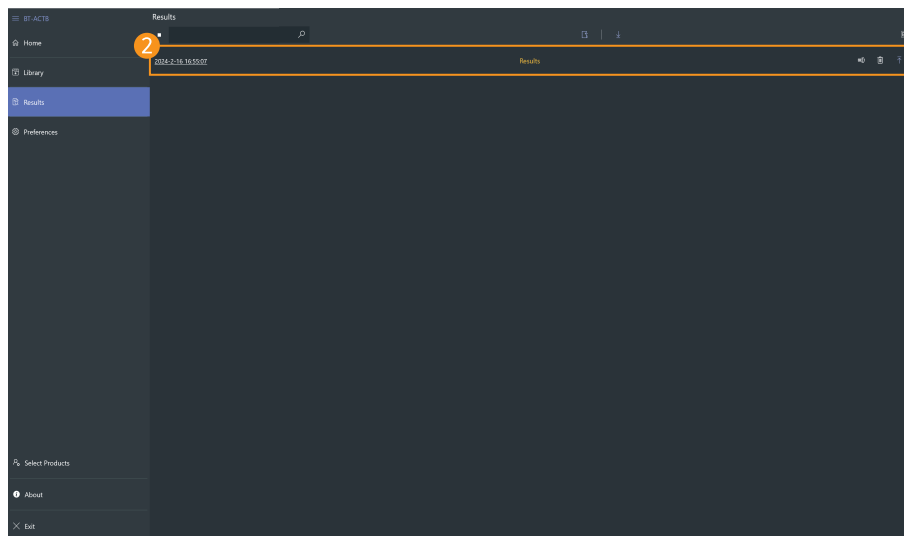
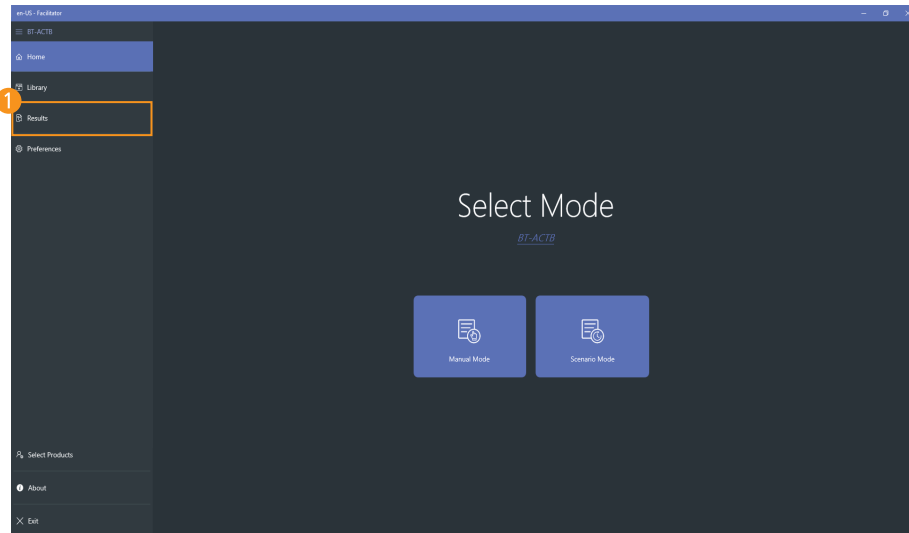
- You can check the set patient status.

## 7-12. Library



- 1 Select the library menu
  - Select Library from the home screen.
- 2 Create the group for the library
  - Click the **Add group button** and enter a library name.
- 3 Create a library
  - Click the **Add library button** and enter a library name.
- 4 Edit the library
  - You can change or save the patient status by clicking the **Edit button**.
  - You can search for saved patient status.
  - You can change the saved patient status name.
  - You can delete saved patient status.
  - You can copy saved patient status.
  - You can export or import saved patient status.

## 7-13. View results



- 1 Select result viewer
  - Select result viewer from the home screen.
- 2 View saved results
  - Select the desired result from the result list.
  - You can search saved results.
  - You can change the saved result name.
  - You can delete saved results.
  - You can export or import saved results.



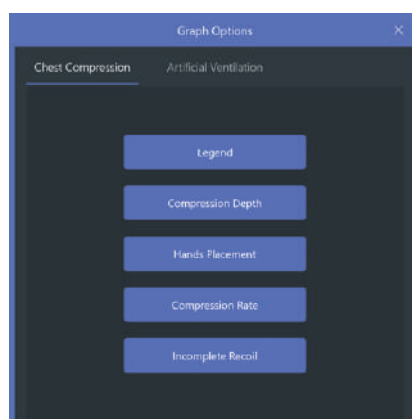
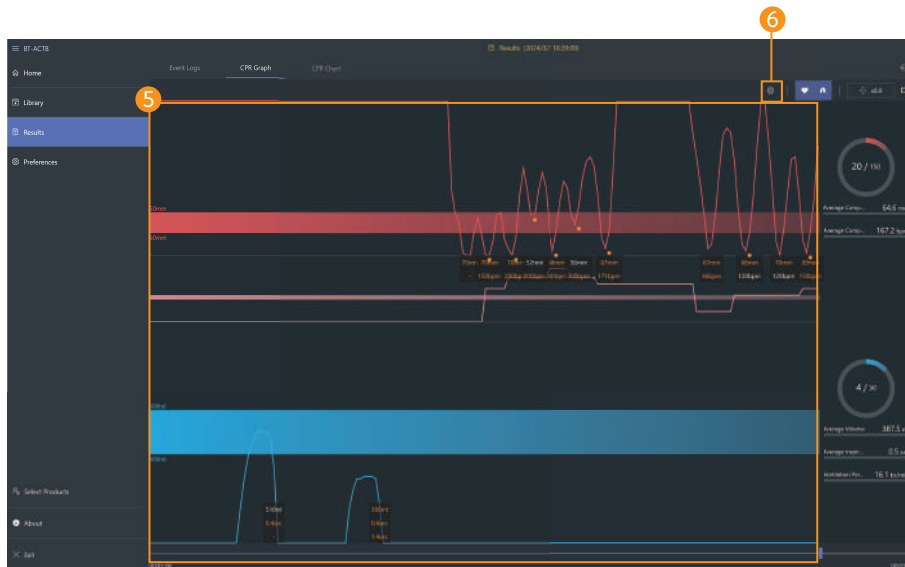
Time	Compression Depth (mm)	Hands Placement (C/AJ/D/L/R)	Compression Rate (bpm)	Complete Recoil (True/False)
Time	Ventilation Volume (ml)	Inspiratory Time (sec)	Ventilation Interval (sec)	Stomach Inflation (True/False)
00:00:44.55	70	C	0	True
00:00:44.95	70	C	109	False
00:00:45.40	70	C	171	False
00:00:45.70	64	C	150	False
00:00:46.00	68	C	200	False
00:00:46.35	63	C	171	False
00:00:46.65	63	C	200	False
00:00:46.95	56	C	171	False
00:00:47.20	43	C	240	False
00:01:02.25	570	0.4	0	False
00:01:08.35	300	0.4	1.4	False
00:01:10.25	70	C	0	True
00:01:10.60	70	C	150	False
00:01:10.95	70	C	200	False
00:01:11.20	52	C	200	False
00:01:11.50	68	C	240	False
00:01:11.80	56	C	200	False
00:01:12.20	67	C	171	False
00:01:12.55	67	C	46	True
00:01:14.05	68	C	130	False
00:01:14.50	70	C	120	True
00:01:14.85	60	C	150	False
00:01:17.45	250	0.3	0.3	False
00:01:19.05	480	0.8	1.5	False

### 3 Review the event logs

- Review the data such as changed parameters during the training.
- You can view event logs by grouping them.

### 4 Export to Excel file

- You can export the event logs as an Excel file format.
- You can edit the event logs in Excel or save it with a another name.

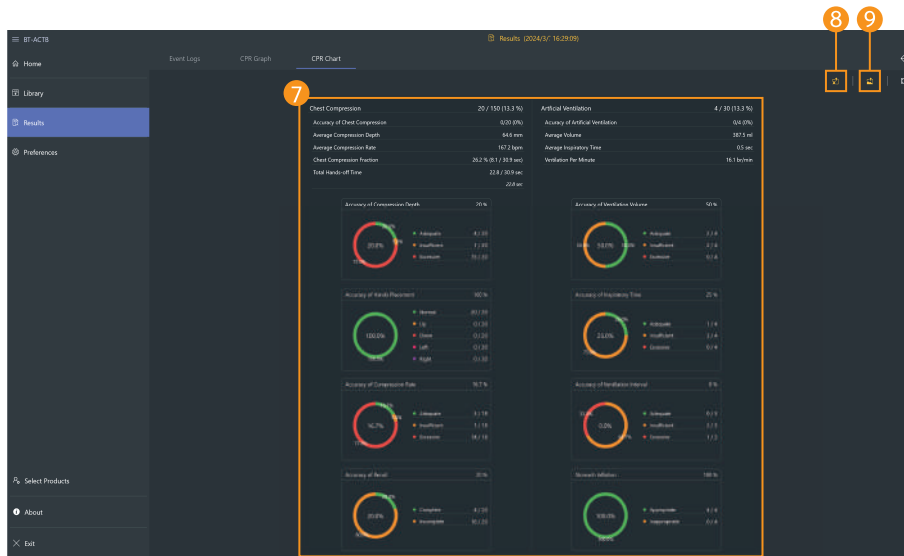


### 5 View CPR Graph

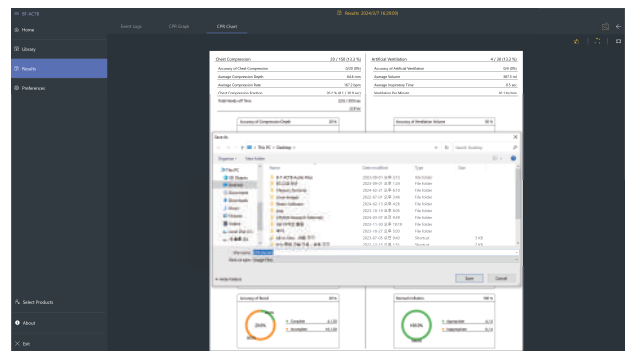
- Chest compression and ventilation data can be reviewed.
- You can check the CPR data at the desired time using the graph search function.

### 6 CPR graph options

- You can show or hide chest compressions and ventilation data on the graph.



Time	Compression Depth (mm)	Hands Placement (C/A/D/L/R)	Compression Rate (bpm)	Complete Ratio (True/False)
Time	Ventilation Volume (ml)	Respiratory Time (sec)	Ventilation Interval (sec)	Stomach Inflation (True/False)
00:00:01.15	76	C	97	False
00:00:01.40	70	C	177	False
00:00:01.70	65	C	150	False
00:00:02.00	69	C	200	False
00:00:02.31	63	C	177	False
00:00:02.61	60	C	200	False
00:00:02.91	56	C	177	False
00:00:03.20	43	C	240	False
00:00:03.50	340	R/L	0	True
00:00:03.79	600	R/L	1.4	True
00:00:04.08	70	C	0	True
00:00:04.38	70	C	150	False
00:00:04.67	70	C	200	False
00:00:04.97	54	C	200	False
00:00:05.27	66	C	240	False
00:00:05.56	56	C	200	False
00:00:05.86	67	C	177	False
00:00:06.15	67	C	46	True
00:00:06.45	66	C	100	True
00:00:06.75	70	C	100	True
00:00:07.04	60	C	150	False
00:00:07.34	250	R/L	0.3	False
00:00:07.63	400	R/L	1.5	False



- 7 View CPR chart
  - You can see the CPR results as a chart.
- 8 Export to Excel file
  - You can export CPR data in Excel file format.
- 9 Export to image file
  - You can export or print CPR results in image file format.

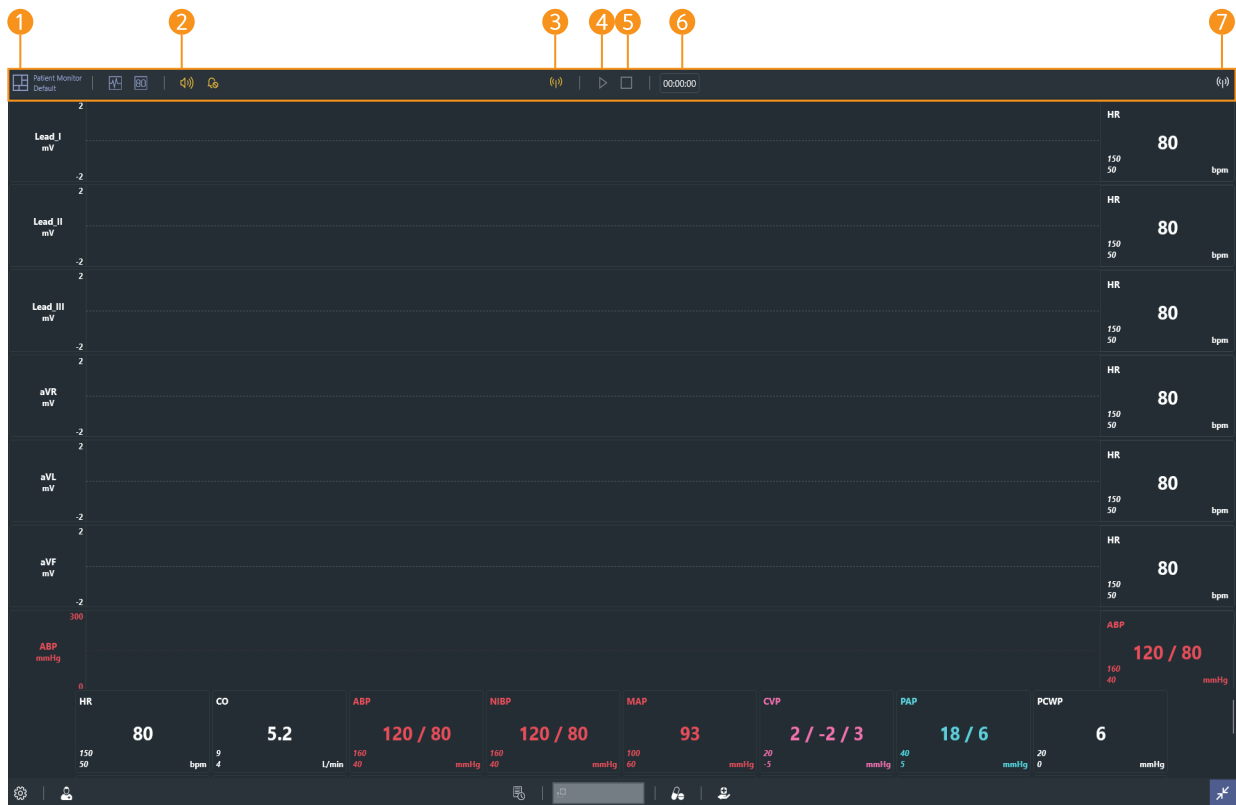
# 8. Monitor Feature









## 8-1. Patient monitor



1 Top menu    2 Bottom menu    3 Patient monitor

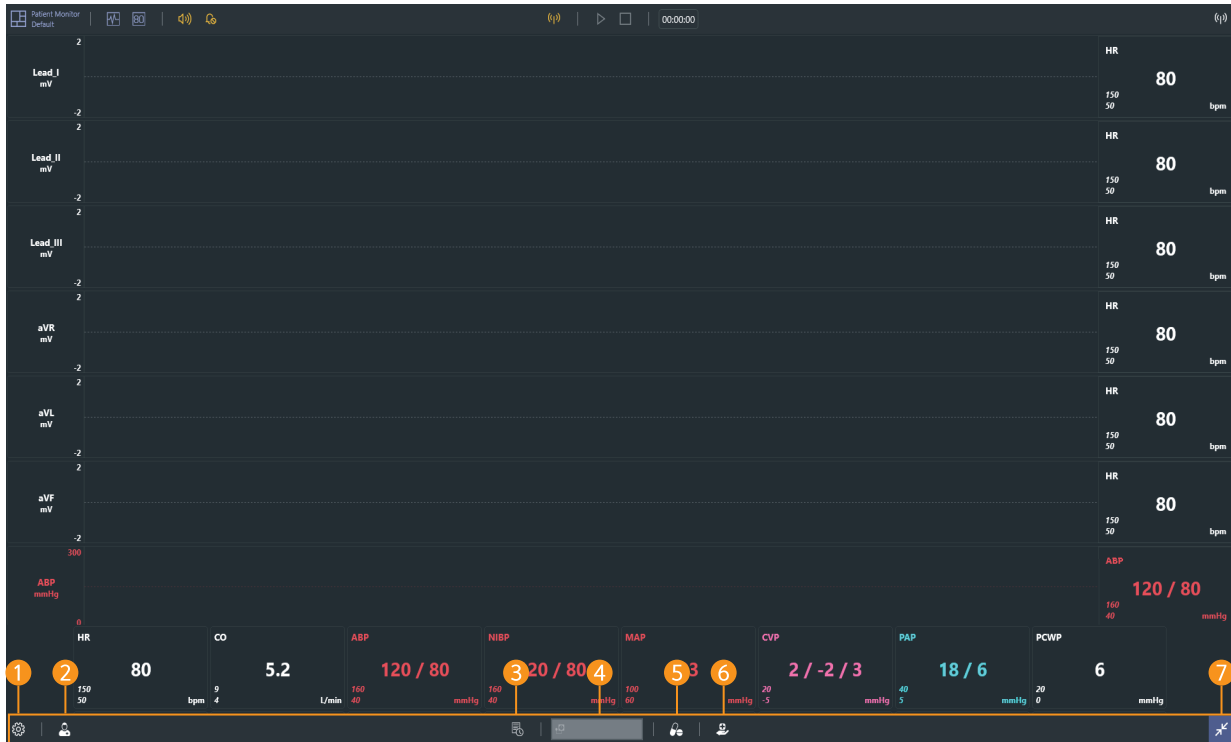
## 8-2. Top menu











- 1 Patient monitor settings  : Change settings of the layout of patient monitor, the audio and NIBP.
- 2 Mute   : Turn the sound ON/OFF.
- 3 Wi-Fi settings  : Connect with Facilitator.
- 4 Start training   : Displays the start and stop status of the training.
- 5 End training  : Displays the status of the end of training.
- 6 Training time  : Display the training time.
- 7 Wi-Fi connection status : Display the connection status with the Facilitator.

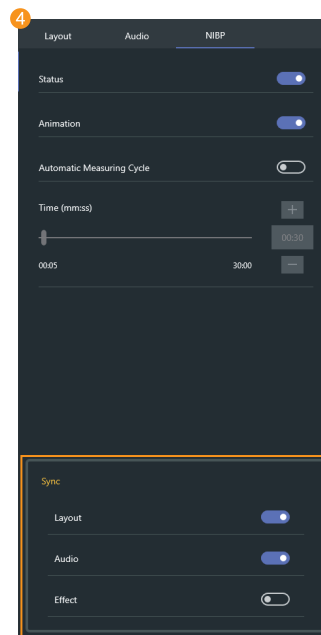
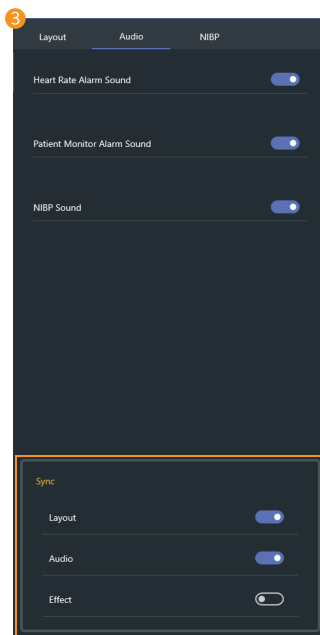
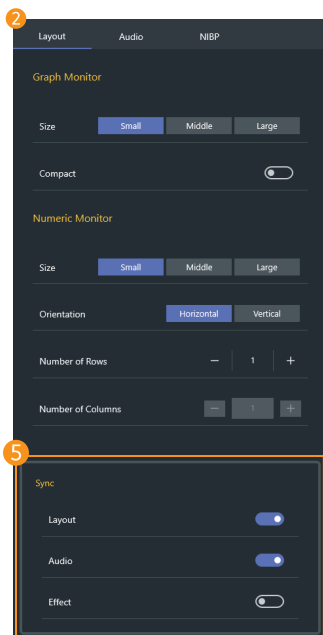
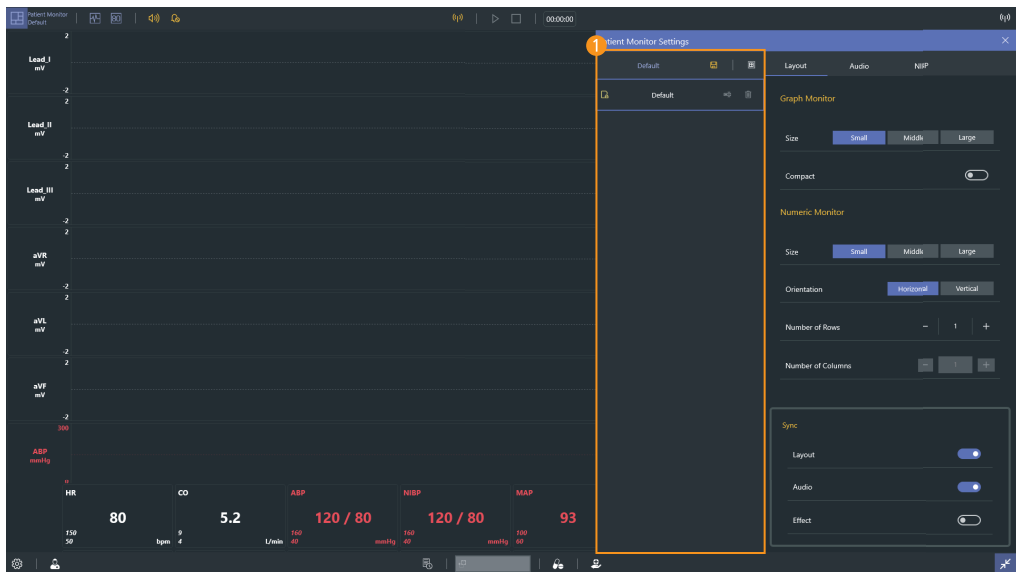


### 8-3. Bottom menu



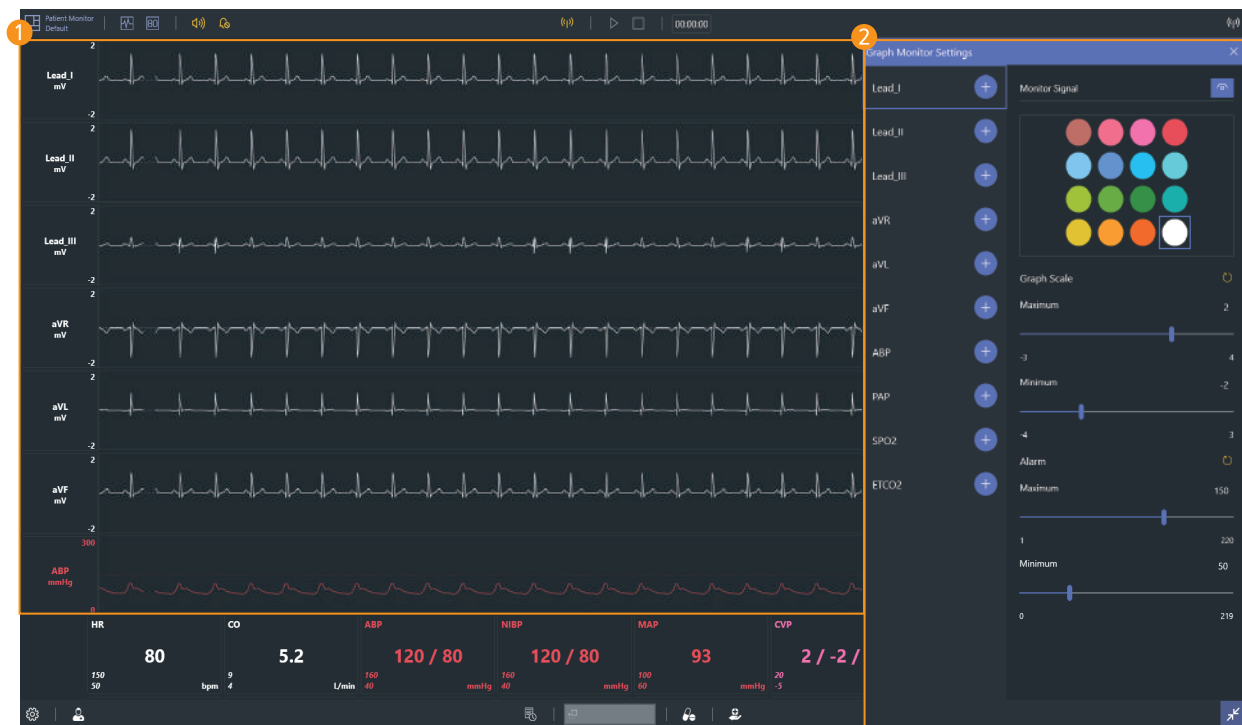
- 1 **Settings**  : You can check the preferences and S/W information.
- 2 **Patient records**  : You can check the patient profile, patient history and diagnostic result.
- 3 **Patient status records**  : You can record or print the current patient status.
- 4 **NIBP**  0% : You can start measuring NIBP.
- 5 **Medications**  : You can choose and administer the medications needed for the training.
- 6 **Treatments**  : You can train defibrillation, pacing, oxygen therapy.
- 7 **Full-screen mode**   : You can switch to full screen mode.

## 8-4. Patient monitor settings



- 1 Select the patient monitor
  - Select or create a saved patient monitor.
- 2 Patient monitor layout settings
  - You can set the layout of the graph monitor and numeric monitor.
- 3 Audio settings
  - You can set the heart rate alarm, patient monitor alarm, and NIBP sound.
- 4 NIBP settings
  - You can set the NIBP auto cycling.
- 5 Sync setting
  - You can select the Sync setting of each.

## 8-5. Patient monitor (Graph monitor)



### 1 Graph monitor

- Display ECG, ABP, PAP, SPO2, ETCO2 waveform.

### 2 Graph monitor settings

- You can add or delete waveforms to the graph monitor.
- You can change the color of the waveform.
- You can display or block the signal of the waveform.
- You can adjust the graph scale.
- You can set the alarm.

## 8-6. Patient monitor (Numeric monitor)



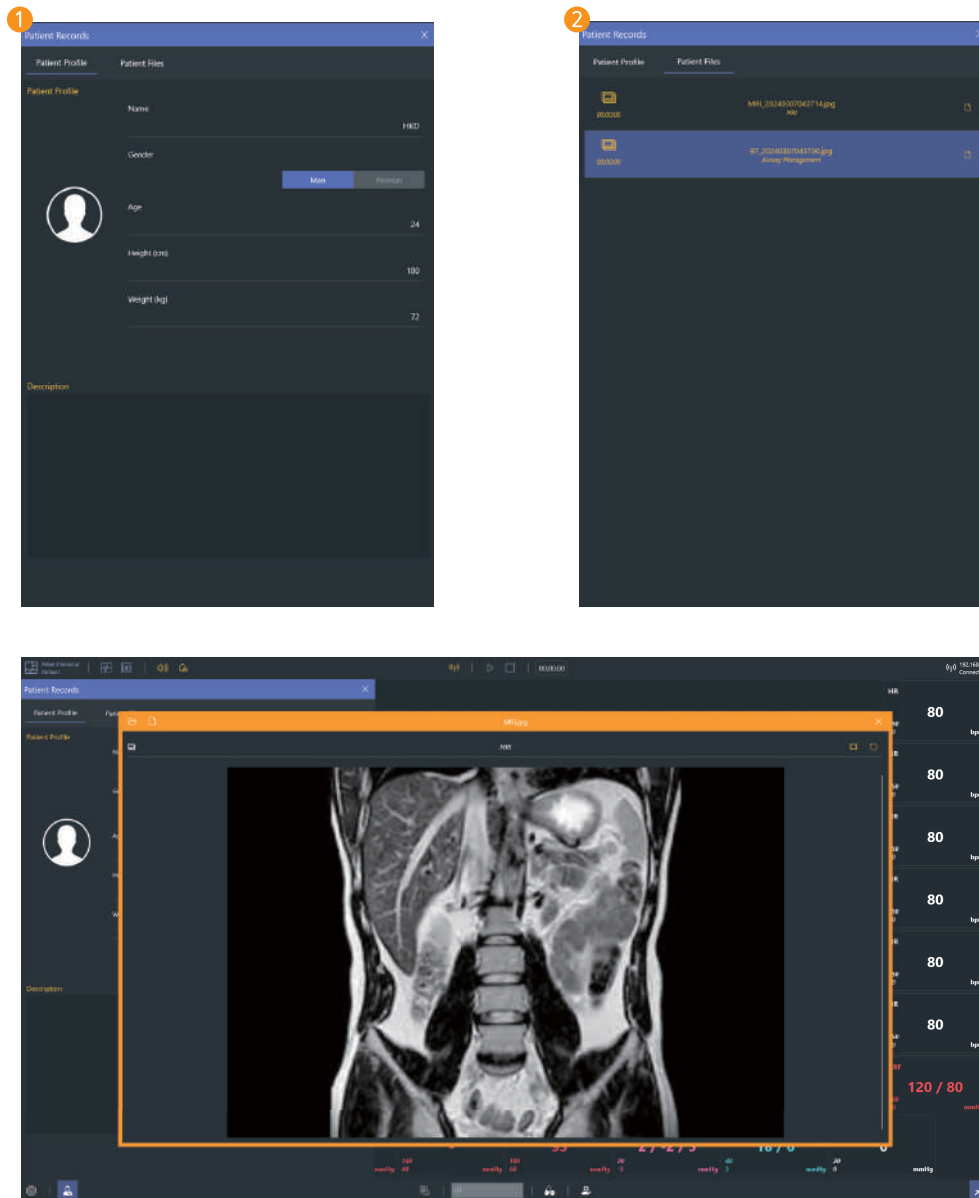
### ① Numeric monitor

- Display numeric values such as HR, CO, ABP.

### ② Numeric monitor settings

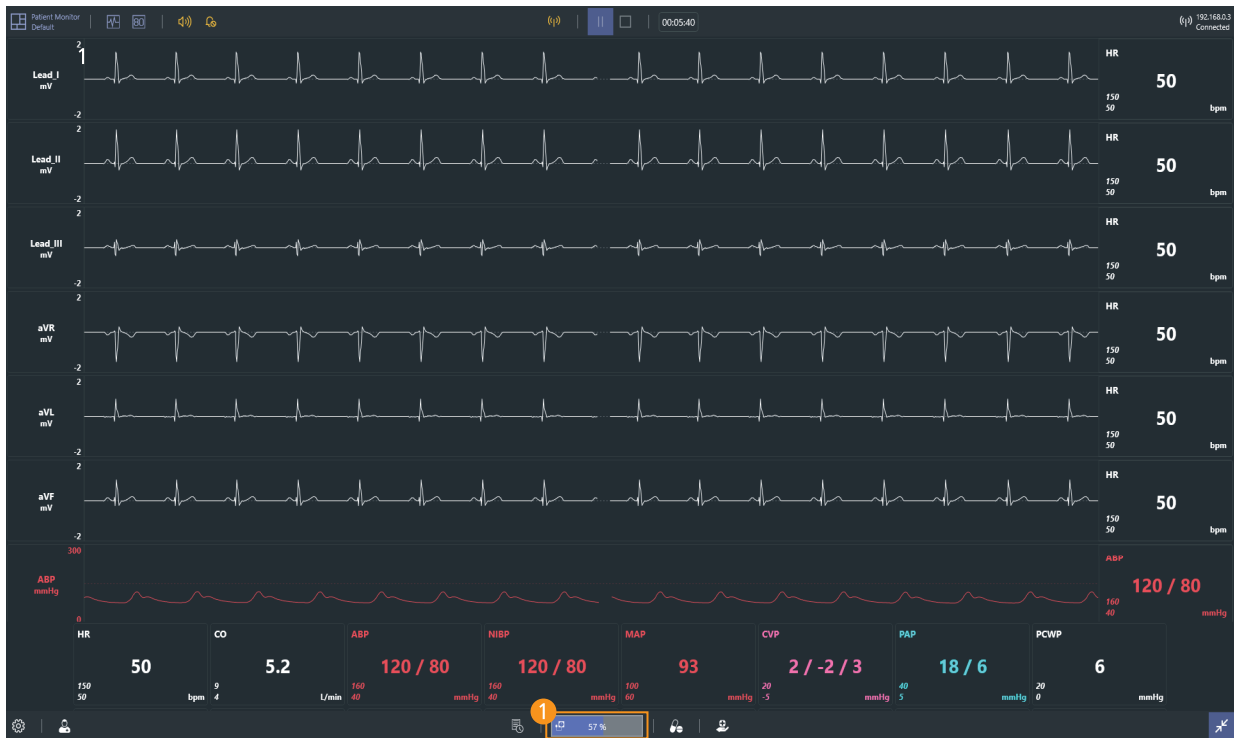
- You can add or delete patient parameters in the numeric monitor.
- You can change the color of the patient parameters.
- You can show or hide patient parameters.
- You can set the alarm.

## 8-7. Patient records



- 1 Patient profile
  - You can check the current patient profile.
- 2 Patient files
  - Patient files sent from Facilitator are saved.
  - Click the **Open file button** to view the patient file.

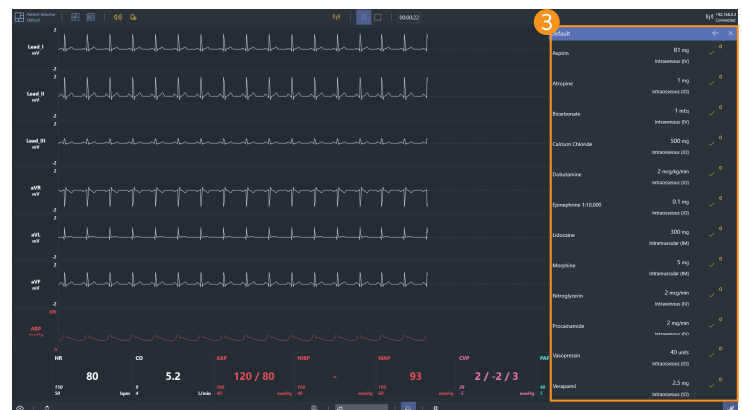
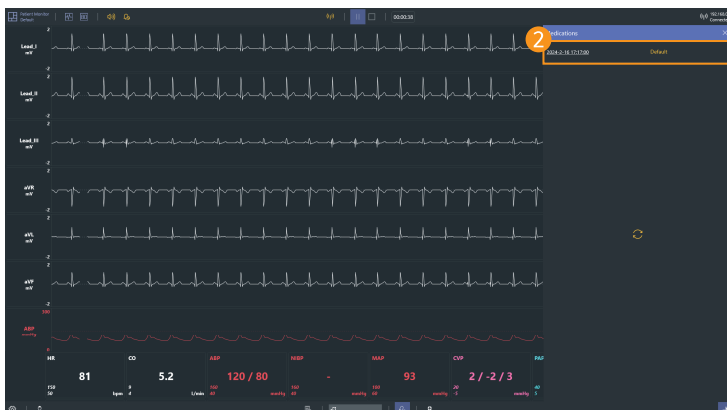
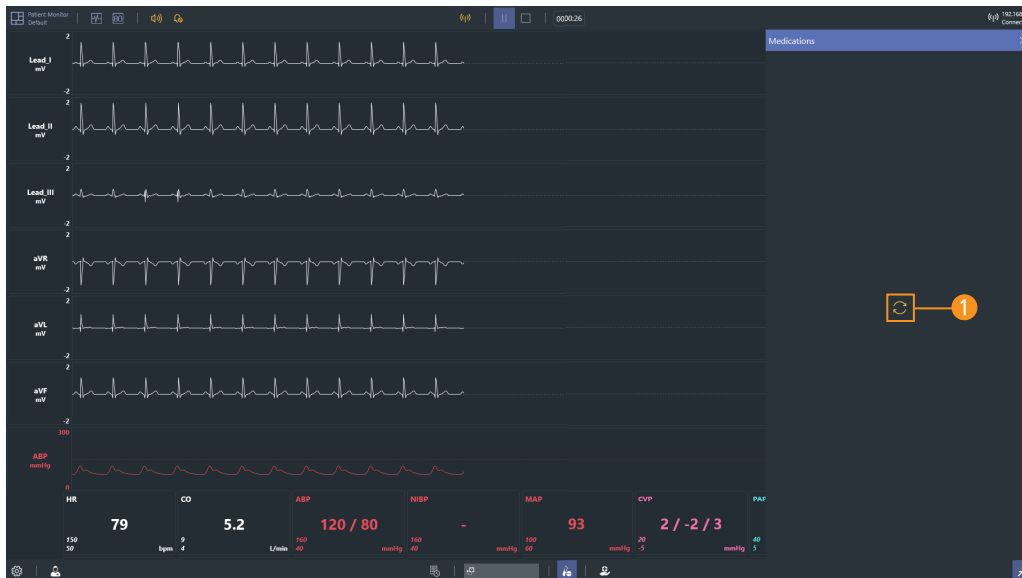
## 8-8. NIBP



### 1 Measure NIBP

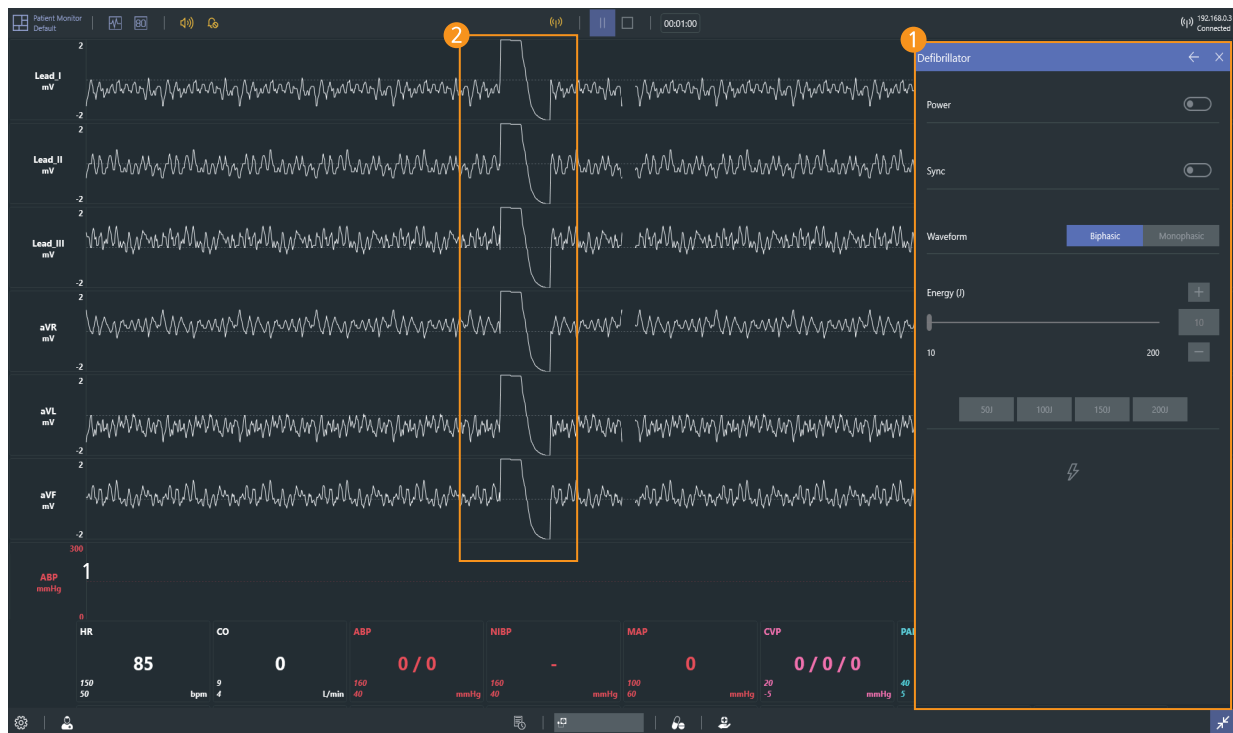
- Click the mouse to start the NIBP measurement.
- NIBP is automatically measured when the NIBP auto cycling is set.

## 8-9. Medications



- 1 Bring medications
  - Click the **Import medication button** to import medication stored in the Facilitator.
- 2 Select medication
  - You can choose the medication you need for your training from the medication list.
- 3 Medication administration
  - You can choose the type of medication and set the dosage and medication method.

## 8-10. Defibrillator



### 1 Defibrillator

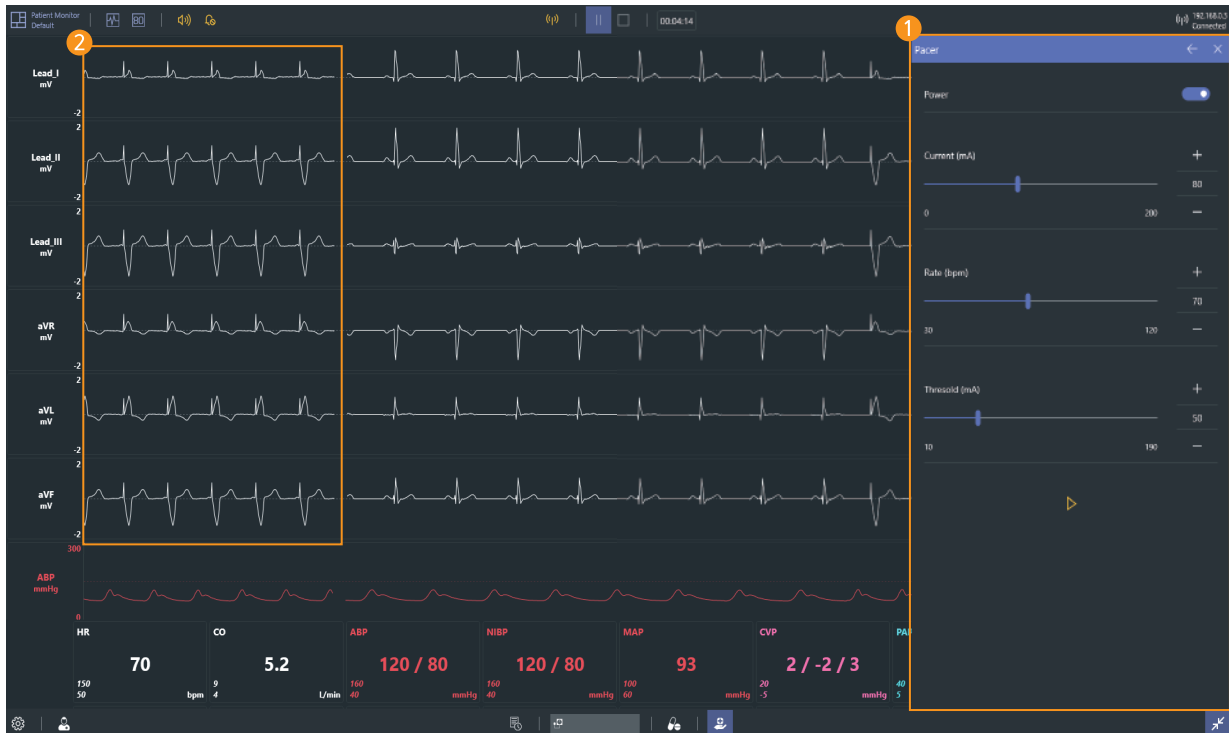
- You can train synchronous and asynchronous defibrillation.
- You can select the type and energy of the defibrillation waveform.

### 2 Defibrillation waveform

- Defibrillation waveforms are displayed on the ECG graph during defibrillation.



## 8-11. Pacer



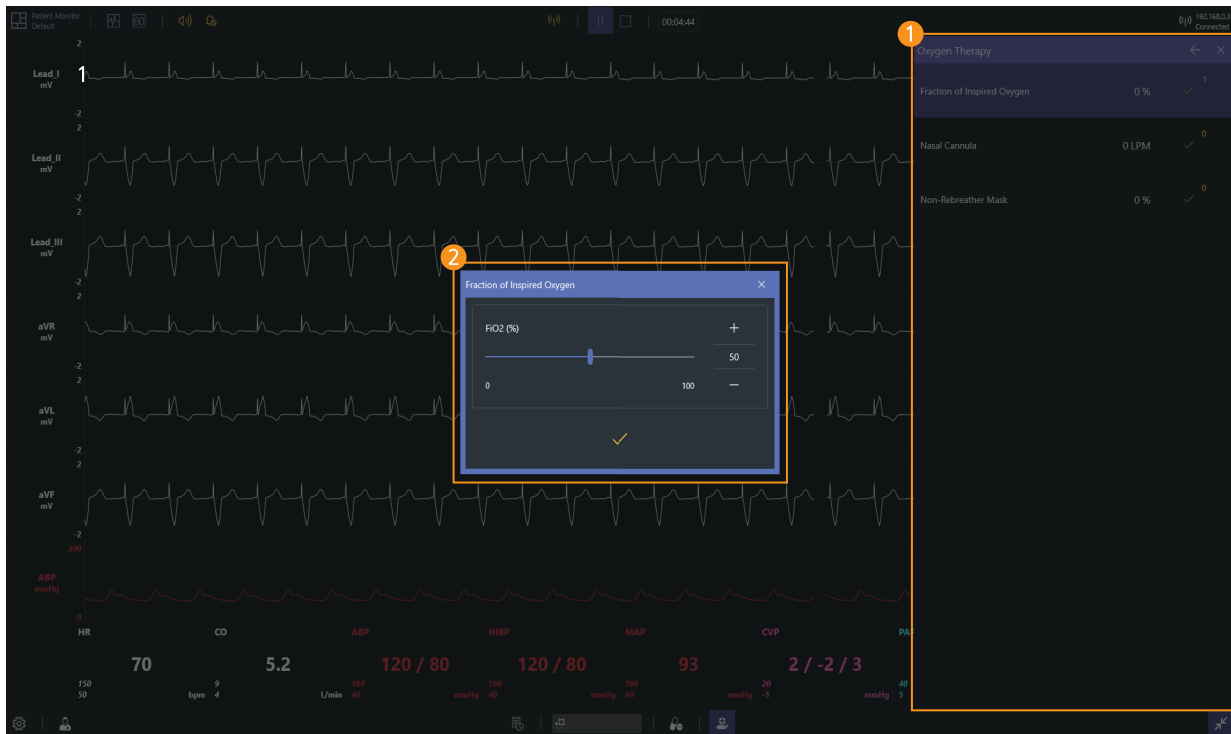
### 1 Pacer

- You can set pacing current and rate.
- You can set the patient threshold current.

### 2 Capture beats

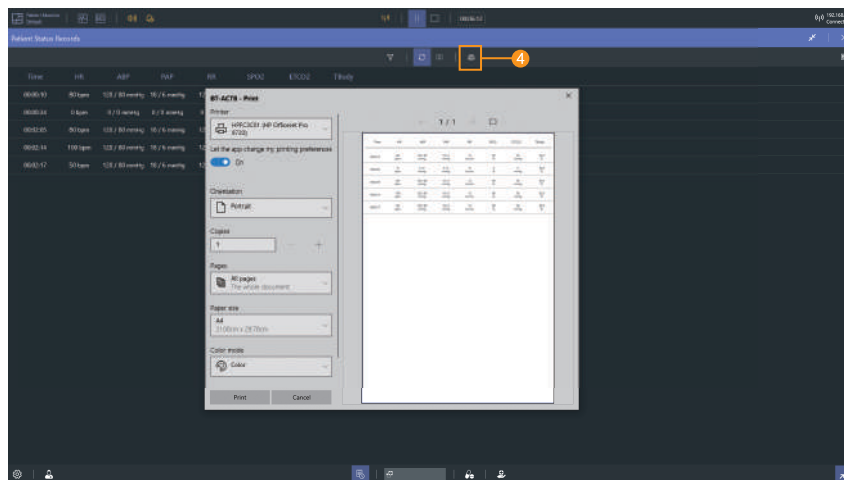
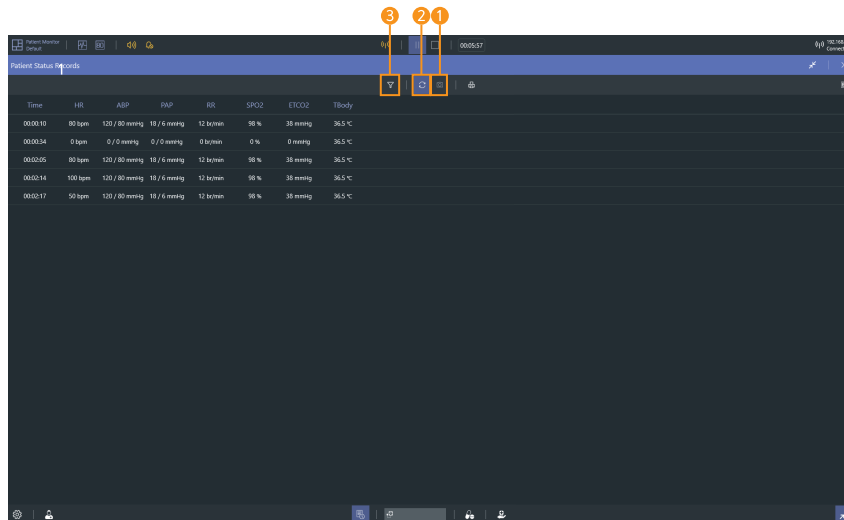
- When pacing current is applied, capture beats are displayed on ECG graph.

## 8-12. Oxygen therapy



- 1 Select oxygen therapy
  - You can choose the oxygen therapy that such as fraction of inspired oxygen and nasal cannula.
- 2 Set the oxygen therapy
  - You can set appropriate FiO<sub>2</sub> and flow rate for the patient treatment.

## 8-13. Patient status records



- 1 Patient status records
  - Click the **Capture button** to record the current patient status.
- 2 Auto record
  - Automatically recorded when patient status changes.
- 3 Set filters
  - Use the filter to add or delete the currently recorded patient status parameters.
- 4 Printing the patient status records
  - You can print the patient status record by clicking the **Print button**.

BT-ACTB

# ALS Training Simulator

A-313, Samsung Techno-valley, 140, Tongil-ro,  
Deogyang-gu, Goyang-si, Gyeonggi-do, 10594, Republic of Korea  
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