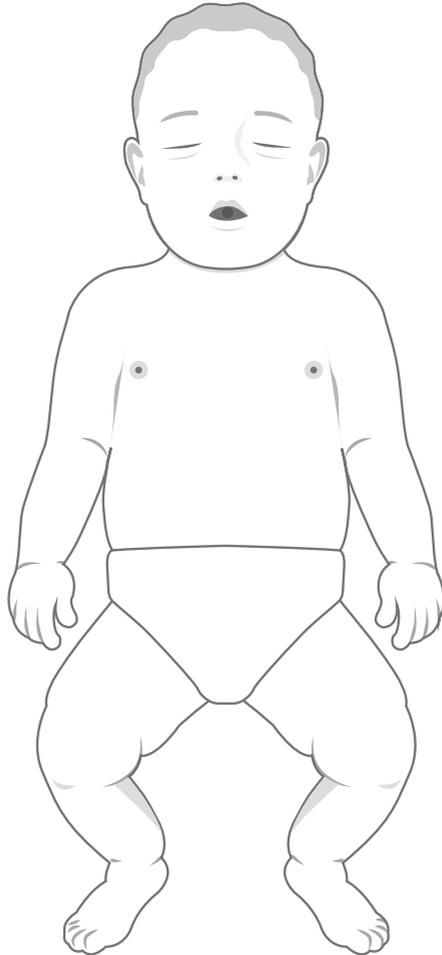


BT-SEEM2-BABY

# Baby First Aid Training Simulator

## USER GUIDE



## Product Information

Product Name	CPR Training Model
Model Name	BT-SEEM2-BABY
Manufacturer	BT Inc.
Country of Origin	Republic of Korea



## Product Specification

Dimensions	350 X 670 X 160mm
Weight	3.4 kg
Power Converter	Input AC100-240V~, 50/60Hz, 0.4A Output DC 12V, 1.5A
Battery	6EA of LR6(AA, 1.5V)

## Customer Service

Website	<a href="http://www.btinc.co.kr">www.btinc.co.kr</a>
Address	A-313, Samsung Techno-valley, 140, Tongil-ro Deogyang-Gu, Goyang-Si, Gyeonggi-do, 10594, Republic of Korea
Telephone	+82-2-2038-2903
E-mail	<a href="mailto:bt@btinc.co.kr">bt@btinc.co.kr</a>



### Cautions for battery disposal

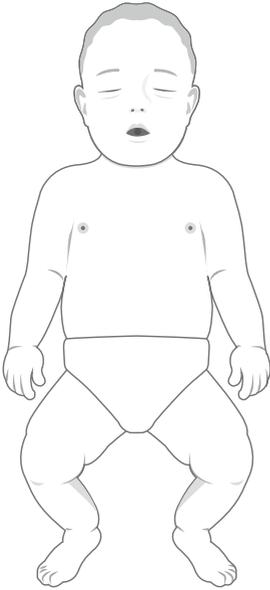
\* Please follow the regulations of corresponding area of the disposal of used batteries

## **Cautions**

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

- Ⓞ Use only components provide or approved by BT Inc.
- Ⓞ Do not use the product for other purposes described in this manual.
- Ⓞ 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.
- Ⓞ During the usage, please contact us after any electricity power off when the product is overheated or smelled something burning.
- Ⓞ Keep the product away form water or moisture. If the product gets wet, do not turn it on.
- Ⓞ Do not use the product near strong magnetic fields or high voltage power lines.  
The product might malfunction due to the electromagnetic waves.
- Ⓞ Do not use the product under a weather of lightning. It can cause the product malfunction and increases the risk of electric shock.
- Ⓞ 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)
- Ⓞ Do not keep the product near hot places such as heaters. Deterioration of product or internal damage might occur.
- Ⓞ Never clean the product with chemical substances such as solvent, benzene or thinner, as these may Cause ignition or cause the surface deterioration.
- Ⓞ BT Inc. can change or adjust the product specification without any notice in order to improve the product.

# Components



**Infant CPR Manikin**



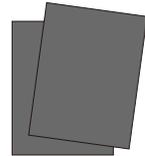
**Lung Bag**



**Airway Tube**



**Power Adapter**



**Rubber Steel Sheet  
for AED Trainer Pads**

\* Others - Storage Bag, Clothing

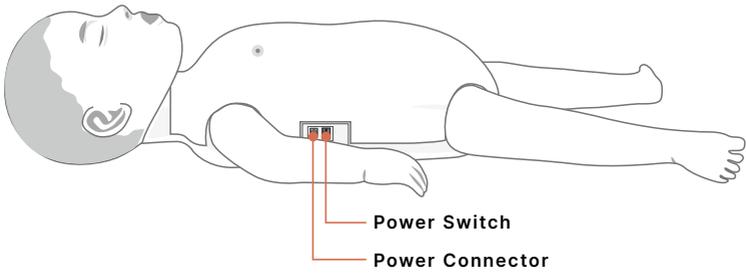
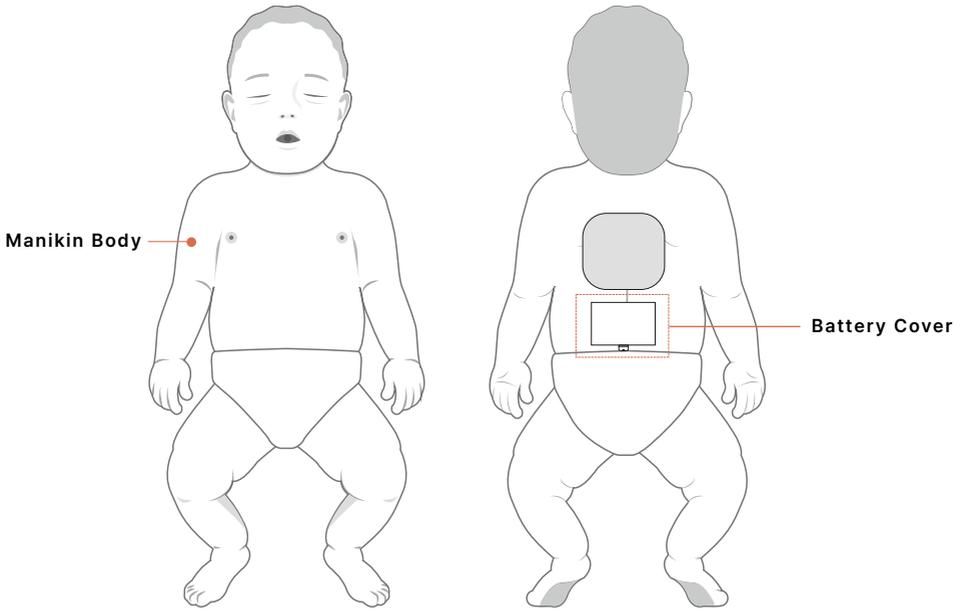
\* Option (Sold Separately) : Tablet

## Consumables

- AED Accessory Pads
- Lung Bag
- Airway Tube

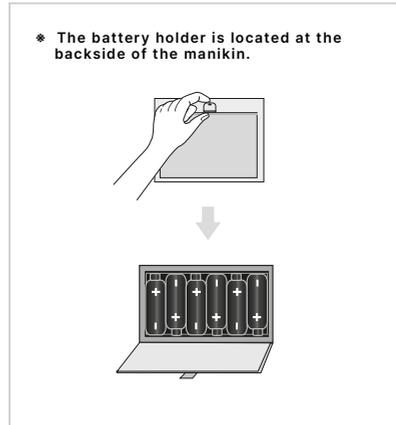
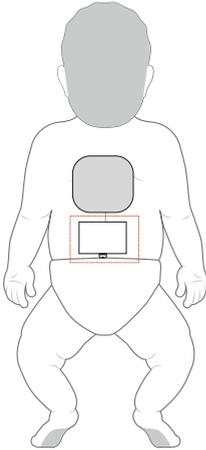
- The replacement cycle for consumables may vary depending on the user's proficiency.

# Features



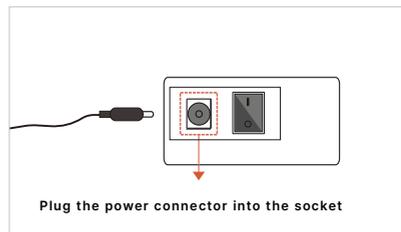
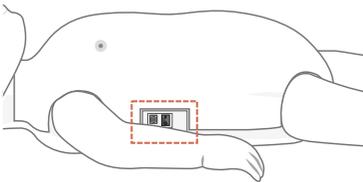
# Power Connections

## (1) Battery Power Supply



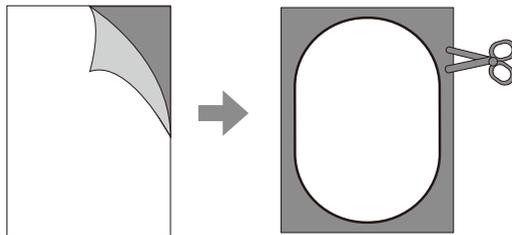
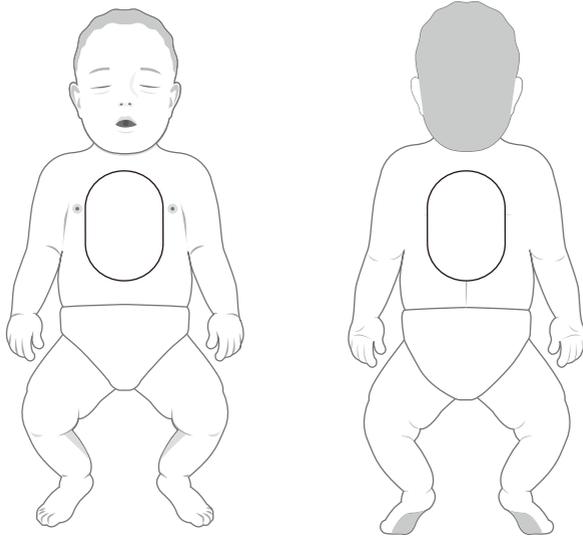
- ① Open the battery cover at the backside of the manikin by pressing the stoppers with both index fingers.
- ② Insert 6 batteries into the battery holder with correct polarities.
- ③ Use LR6(AA-type, 1.5V) standard batteries only.

## (2) External AC Power Supply



\* Use only the power converter supplied by manufacturer.

## Installation

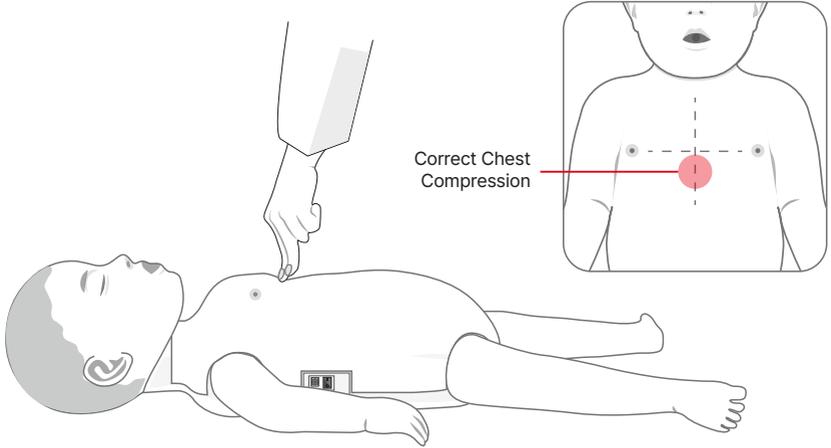


- ① Prepare an AED Trainer.
- ② Remove the white film from the provided rubber steel sheet.
- ③ Attach the sheet to the adhesive side of the AED trainer pads.
- ④ Cut the edge of sheet to fit the size of the AED trainer pads.
- ⑤ Magnets are installed inside the manikin, allowing the the pads to attach.

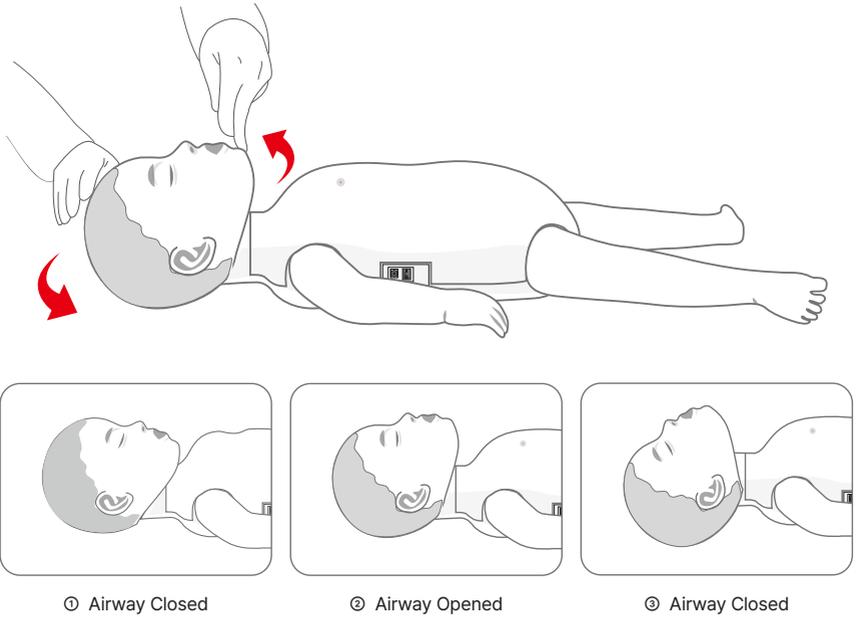
\* The adhesive strength may vary depending on the attachment location and condition.

# Functions

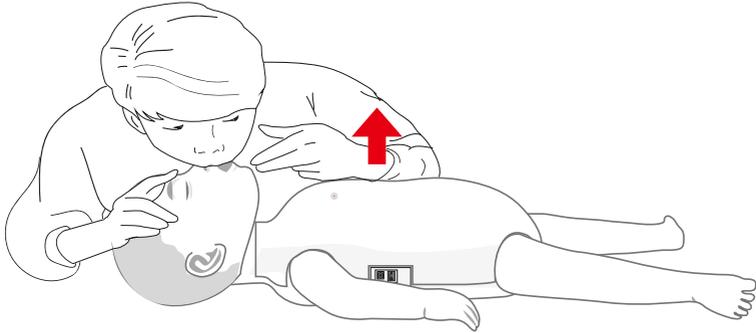
## (1) Chest Compressions



## (2) Airway Opening

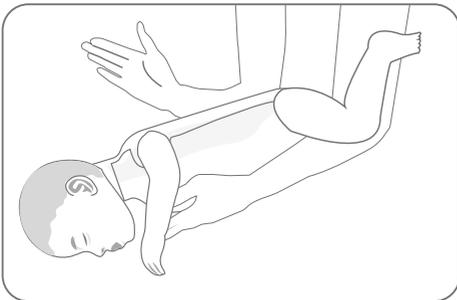


### (3) Ventilation

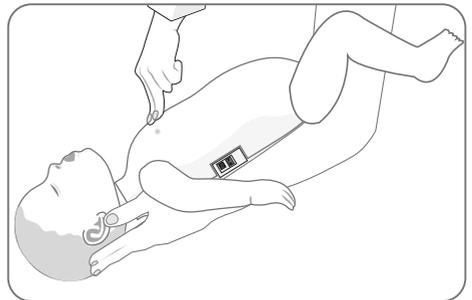


- ① Tilt the manikin's head back to open the airway.
- ② Pinch the manikin's nose, then blow air into its mouth. (Check for chest rise.)

### (4) Choking First Aid



Back Blows



Chest Thrusts

# Cleaning and Storage

## (1) CPR Manikin Maintenance and Cleaning

- In case of the mouth-to-mouth ventilation, it is recommended to use the BVM, pocket masks or face shield to keep the manikin in a hygienic condition.
- The airway part consists of the face skin, check valve module, and lung bag.
- If there is a potential risk of infection during mouth-to-mouth ventilation training, after performing airway management, the face skin should be cleaned according to the cleaning method, and the check valve module and lung bag should be used as single-use items (recommended).
- Face Skin Cleaning: Clean with a 70%–83% ethanol solution or use mild detergent to thoroughly clean, then dry before use.
- The plastic parts where air flows back from the lung bag to the outside through the check valve module should be cleaned and disinfected with an ethanol swab or a soft cloth soaked in ethanol.
- Clean the body skin and plastic parts of the manikin, excluding the airway part, according to the cleaning method.
  - ① Wipe the parts with a damp cloth to remove any stains.
  - ② If additional cleaning is needed, wipe the model clean with an ethanol swab or a soft cloth soaked in ethanol.
  - ③ Wipe with a clean, dry cloth and allow to dry.

### Recommended solvents and tools

- 70–83% Ethanol
- 70% Isopropyl Alcohol
- It is not recommended for cleaning plastic parts.

## (2) When using BVM or a pocket mask

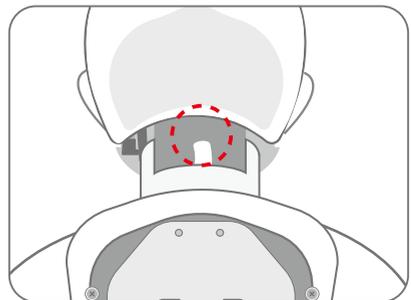
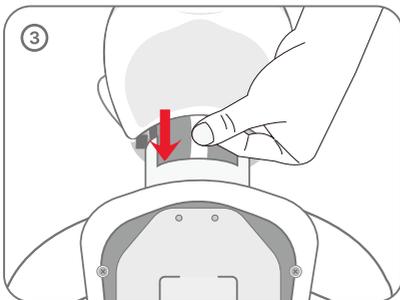
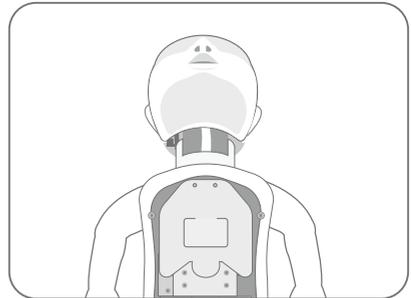
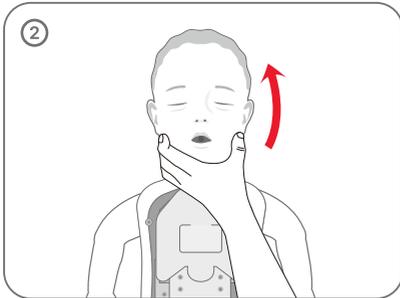
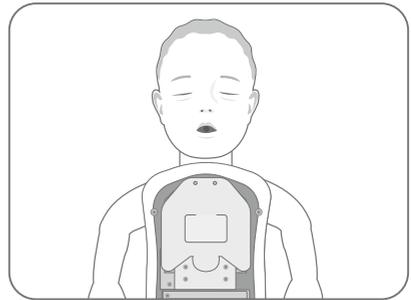
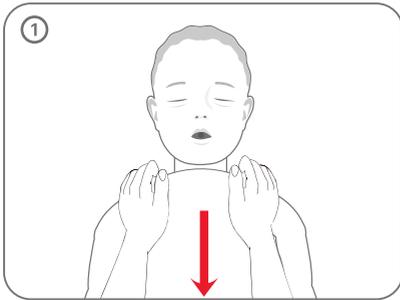
- When using the BVM, it is recommended to disinfect and replace the airway part once a month.
- When using a pocket mask with a one-way valve, it is recommended to disinfect and replace it once a week.
- Face Skin Cleaning: Clean with a 70%–83% ethanol solution or use mild detergent to thoroughly clean, then dry before use.
- Check Valve Module Cleaning : Clean with a 70%–83% ethanol solution or use a separate neutral detergent to thoroughly clean the inside, then dry before use (check the operational status after drying).
- The lung bag is single-use. Replace it based on internal moisture or storage conditions.

## (3) When using a face shield

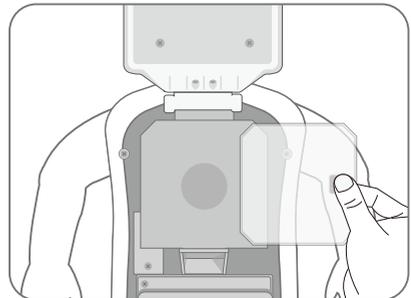
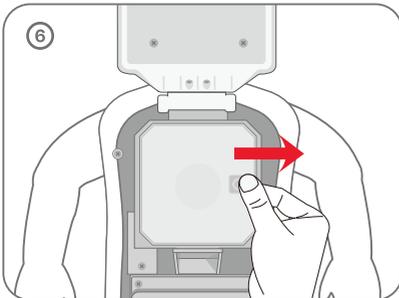
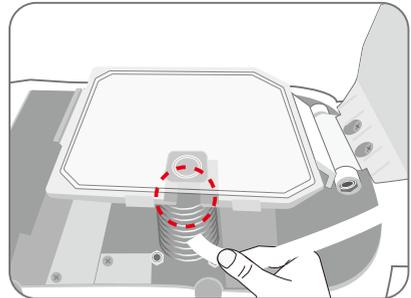
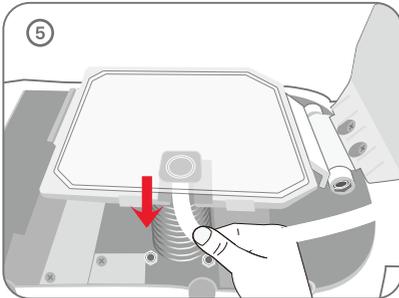
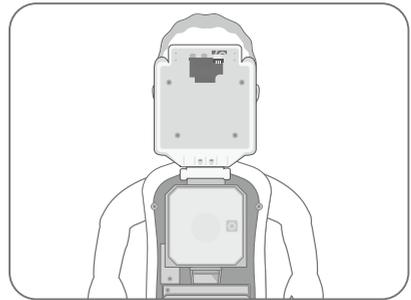
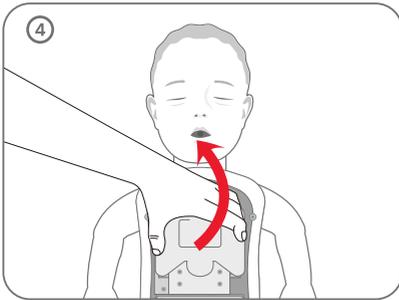
- If there is a potential risk of infection when using a face shield, it is recommended to use the check valve module and lung bag as single-use items.
- Face Skin Cleaning: Clean with a 70%–83% ethanol solution or use mild detergent to thoroughly clean, then dry before use.
- The check valve module should be replaced with a single-use item or cleaned using the following method, thoroughly dried, and reused.
- Check Valve Module Cleaning : Clean with a 70%–83% ethanol solution or use mild detergent to thoroughly clean, then dry before use. (After drying, check the operational status.)
- The lung bag is single-use. Replace it based on internal moisture or storage conditions.

\* The disinfection and replacement cycle may vary depending on the usage environment.

#### (4) How to replace the lung bag and airway tube



- ① Remove the chest skin of the manikin.
- ② Lift the manikin's face upward.
- ③ Disconnect the airway tube connected to the manikin's face.



④ Lift the lung bag cover upward.

⑤ Separate the lung bag and the airway tube.

⑥ Slide the lung bag to the side to remove it.

- When replacing the lung bag, follow the steps in the order of ④, ⑤, ⑥, and ⑦.

- To install the lung bag and airway tube, follow the steps in reverse order.

# Software

## 1. Home



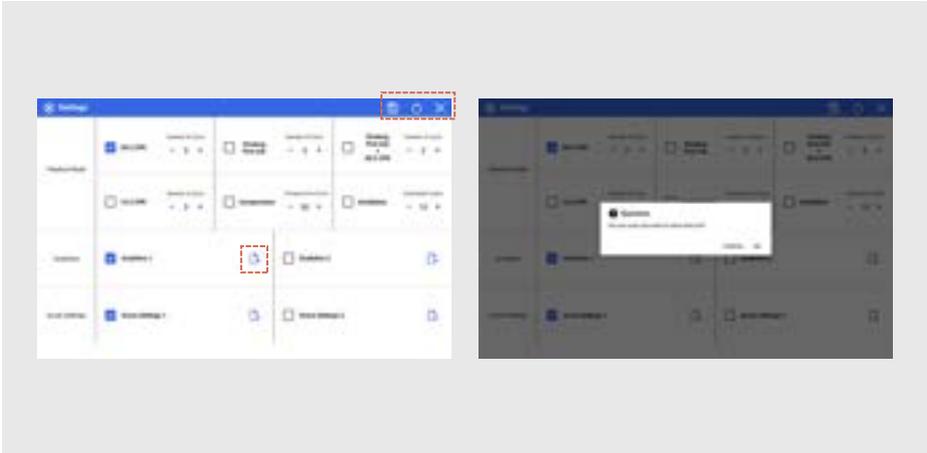
- The baby First Aid training simulator consists of two modes: Training Mode, which allows individuals to freely practice CPR, and Assessment Mode, which enables the integration and storage of trainees' results through practical assessments.
- The manikin is equipped with sensors that detect chest compression depth, compression rate, ventilation volume, and ventilation duration. The collected data is transmitted via Bluetooth communication.

## ○ Icon

Icon	Description	Icon	Description
	Training Mode		Assessment Mode
	View Results		Settings
	Help Guide		Exit

# Settings

## 1. Main

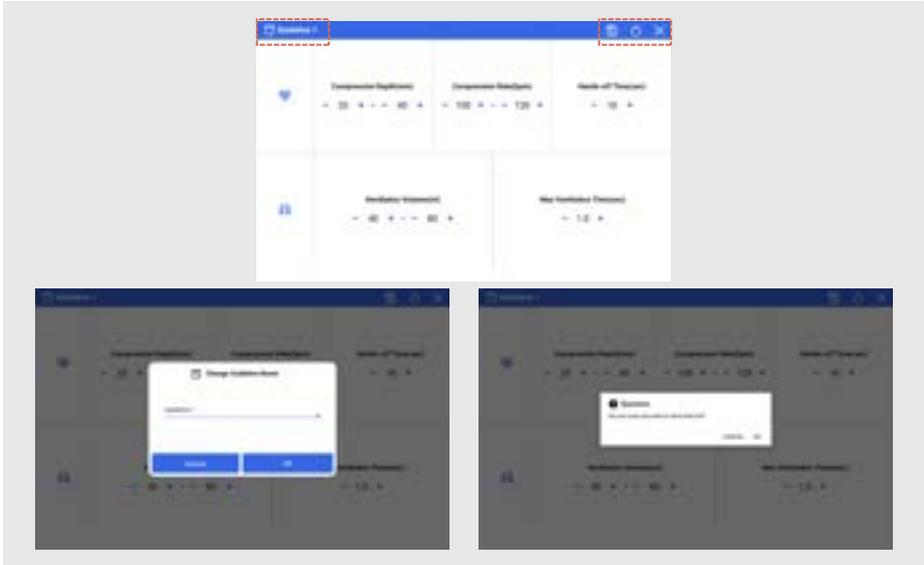


- Modes can be selected according to their purpose and guidelines, and the scoring settings are customizable.
- Each item's cycle can be set from 1 to 10 cycles, with chest compressions adjustable from 1 to 300 and ventilations from 1 to 20.
- Guideline and scoring settings can be configured using the [Edit] button.

## ○ Icon

Icon	Description	Icon	Description
	Save		Reset
	Edit		Exit

## 2. Setting Guidelines

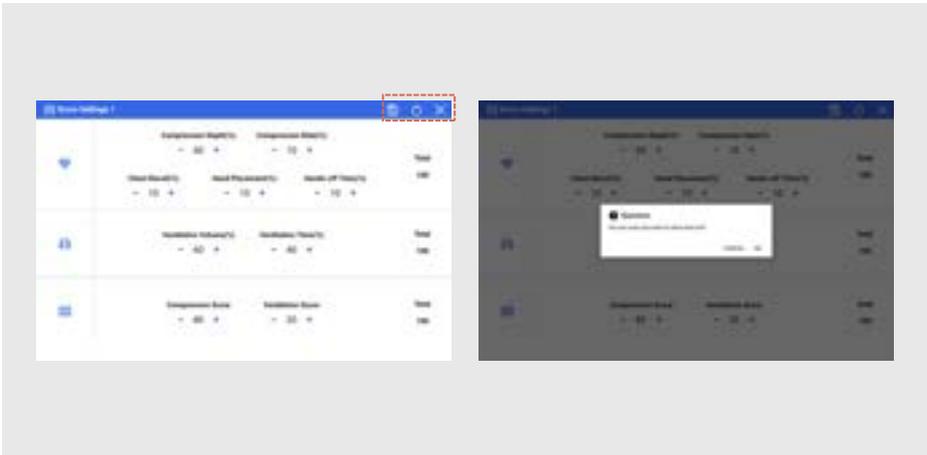


- Set the guidelines for CPR training and assessment.
- You can set up to two guidelines, and the name of each guideline can be modified.
- Change the guideline items and press the [Save] button to save them.
- Press the [Reset] button to revert the settings to their default values.

### ○ Icon

Icon	Description	Icon	Description
	Save		Reset
	Change Guideline Name		Exit

### 3. Setting Scores



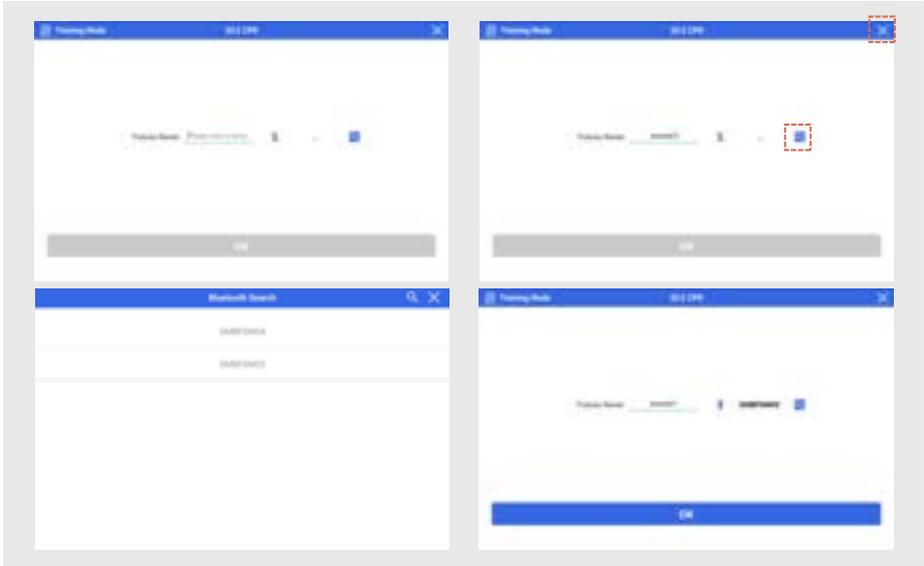
- You can set the scores for the assessment items.
- You can configure up to two score settings.
- In the scoring settings, you can set the score ratio for each subcategory of Chest Compressions and Ventilation, as well as the weighting for both practice items. (The total must equal 100.)
- Change the score settings and click the [Save] button to save them.
- Press the [Reset] button to revert the settings to their default values.

#### ○ Icon

Icon	Description	Icon	Description
	Save		Reset
	Exit		

# Training Mode

## 1. Connecting via Bluetooth

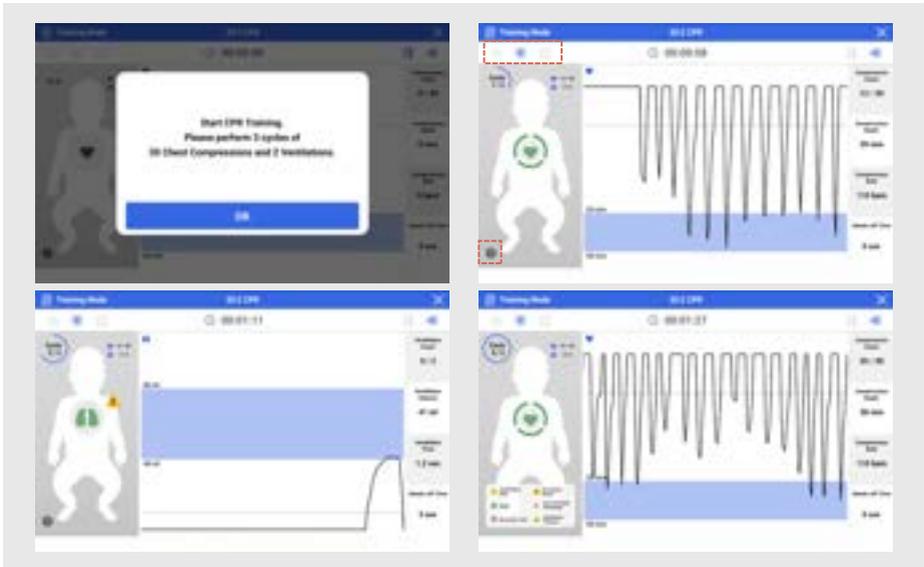


- Selecting Training Mode from the home screen will take you to the screen for setting the trainee's name and Bluetooth connection.
- **The trainee's name is required.**
- Press the [Bluetooth Search] button to retrieve a list of available Bluetooth devices for connection.
- Choose the device from the list that matches the serial number on the training manikin.
- When the Bluetooth connection is complete, the [OK] button will be activated. Click it to start the practice.

### Icon

Icon	Description	Icon	Description
	Bluetooth Search		Exit

## 2. CPR



- CPR training can be performed with a choice of 30:2 or 15:2.
- At the start, a practice guide notification will appear. Press the [OK] button to begin the practice.
- Chest compression practice starts, and upon completing the set number, it will automatically transition to ventilation.
- Chest compression and ventilation practice form one cycle, and it will repeat for the set number of cycles.
- Press the [Help] button on the bottom left of the baby manikin to view descriptions of the icons displayed on the screen.
- You can pause the practice using the [Restart / Stop] button. When restarted, the previous practice will be reset, and it will begin from the start.
- Press the [View Results] button to check the results up to the point where the practice was stopped.

### ○ Icon

Icon	Description	Icon	Description
	Restart Practice		Stop Practice
	View Results		Help
	Exit		



- Press the [View Mode] button to switch to a more intuitive numerical display without graphs.
- During practice, you can toggle the [Metronome] sound ON/OFF, with the default setting set to 110 bpm.
- At the end of the practice, you will be automatically redirected to the results screen. You can save the practice results in PDF format by pressing the [Save] button.

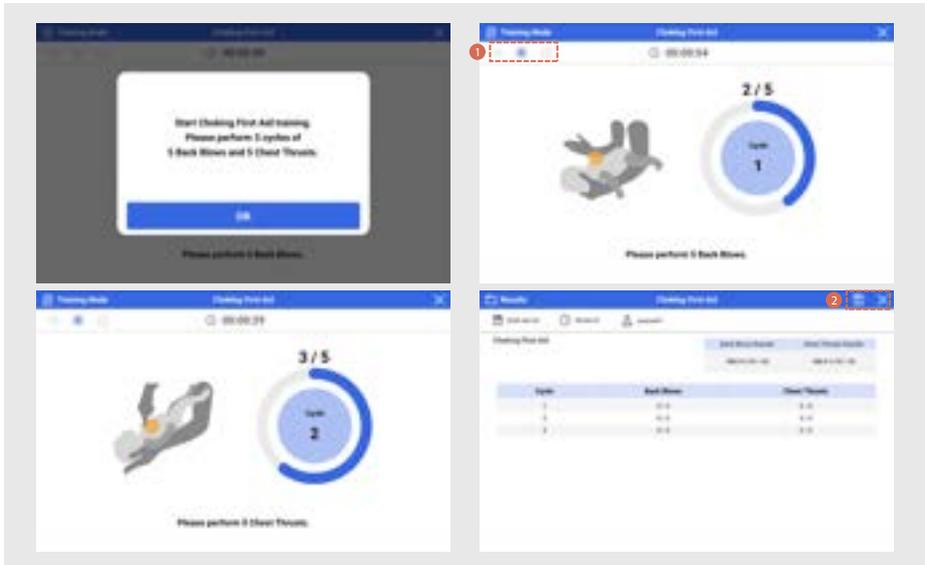
## ① Icon

Icon	Description	Icon	Description
	View Mode		Metronome ON / OFF

## ② Icon

Icon	Description	Icon	Description
	Save		Exit

### 3. Choking First Aid



- At the start, a practice guide notification will appear. Press the [OK] button to begin the practice.
- Start with 5 back blows, and once completed, it will switch to 5 chest thrusts.
- One cycle is made up of back blows followed by chest thrusts, repeating for the specified number of cycles.
- Once the 5 chest thrusts in the final cycle are completed, you will be automatically taken to the Choking First Aid results page.
- You can pause the practice using the [Restart / Stop] button. When restarted, the previous practice will be reset, and it will begin from the start.
- Press the [View Results] button to check the results up to the point where the practice was stopped.
- At the end of the practice, you will be automatically redirected to the results screen. You can save the practice results in PDF format by pressing the [Save] button.

## ① Icon

Icon	Description	Icon	Description
	Restart Practice		Stop Practice
	View Results		

## ② Icon

Icon	Description	Icon	Description
	Save		Exit

## 4. Choking First Aid + CPR

The collage consists of eight screenshots from a mobile training application:

- Top Left:** Start Choking First Aid training. Please perform 5 cycles of 5 Back Blows and 5 Chest Thrusts. [OK]
- Top Right:** Training Mode. 3/5 cycles. Please perform 5 Back Blows. (Red dashed box highlights a settings icon).
- Middle Left:** Start CPR Training. Please perform 5 cycles of 30 Chest Compressions and 2 Ventilations. [OK]
- Middle Right:** Training Mode. CPR rhythm guide showing 30 compressions and 2 ventilations. (Red dashed box highlights a settings icon).
- Bottom Left (Top):** Performance indicators: 121 bpm (heart rate) and Cycle 1: 21 / 30.
- Bottom Left (Bottom):** Training Results. Summary of performance metrics and a pie chart. (Red dashed box highlights a settings icon).
- Bottom Right (Top):** Results. Table showing Back Blows and Chest Thrusts counts for Cycle 1 and 2.
- Bottom Right (Bottom):** Detailed Results. Performance graphs and a red waveform visualization.

- At the start, a practice guide notification will appear. Press the [OK] button to begin the practice.

- Once the Choking First Aid practice is completed for the set number of cycles, a notification for the next practice will appear. Press the [OK] button to begin.
- After completing the CPR practice, you will be automatically taken to the results page.
- You can pause the practice using the [Restart / Stop] button. When restarted, the previous practice will be reset, and it will begin from the start.
- Press the [View Results] button to check the results up to the point where the practice was stopped.
- At the end of the practice, you will be automatically redirected to the results screen. You can save the practice results in PDF format by pressing the [Save] button.

### ① Icon

Icon	Description	Icon	Description
	Restart Practice		Stop Practice
	View Results		Exit

### ② Icon

Icon	Description	Icon	Description
	View Mode		Metronome ON / OFF

### ③ Icon

Icon	Description	Icon	Description
	Save		Previous Page / Next Page

## 5. Chest Compression

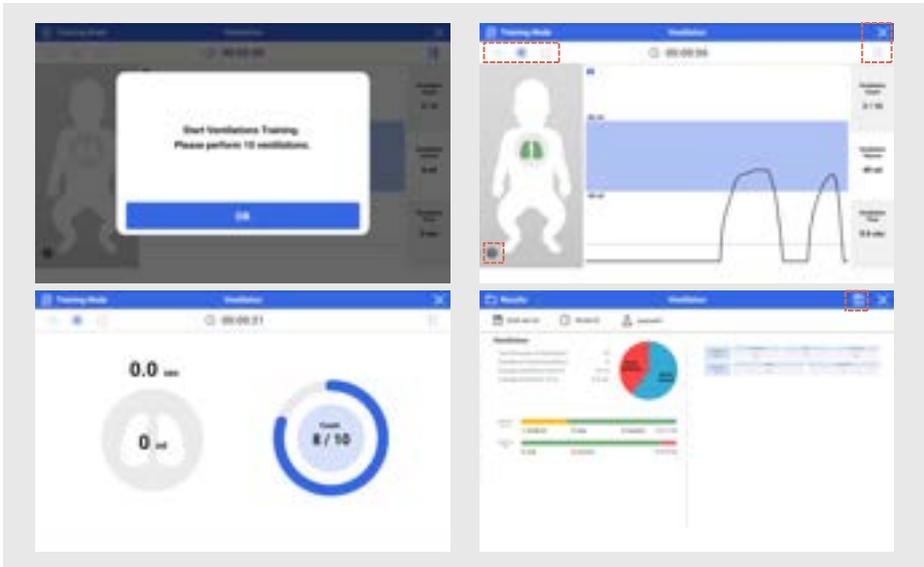


- At the start, a practice guide notification will appear. Press the [OK] button to begin the practice.
- In chest compression practice, perform the set number of compressions. After the practice ends, you will be automatically taken to the chest compression results screen.
- You can pause the practice using the [Restart / Stop] button. When restarted, the previous practice will be reset, and it will begin from the start.
- Press the [View Results] button to check the results up to the point where the practice was stopped.
- At the end of the practice, you will be automatically redirected to the results screen. You can save the practice results in PDF format by pressing the [Save] button.

### ○ Icon

Icon	Description	Icon	Description
	Restart Practice		Stop Practice
	View Results		Help
	View Mode		Metronome ON / OFF
	Save		Exit

## 6. Ventilation



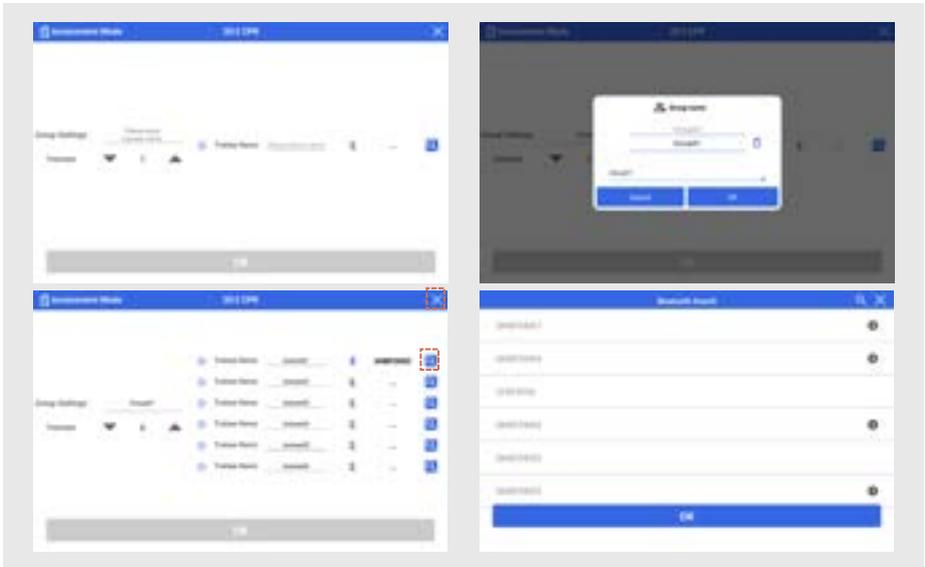
- At the start, a practice guide notification will appear. Press the [OK] button to begin the practice.
- In ventilation practice, perform the set number of ventilations. After the practice ends, you will be automatically taken to the ventilation results screen.
- You can pause the practice using the [Restart / Stop] button. When restarted, the previous practice will be reset, and it will begin from the start.
- Press the [View Results] button to check the results up to the point where the practice was stopped.
- At the end of the practice, you will be automatically redirected to the results screen. You can save the practice results in PDF format by pressing the [Save] button.

### ○ Icon

Icon	Description	Icon	Description
	Restart Practice		Stop Practice
	View Results		Help
	View Mode		Save
	Exit		

# Assessment Mode

## 1. Connecting via Bluetooth

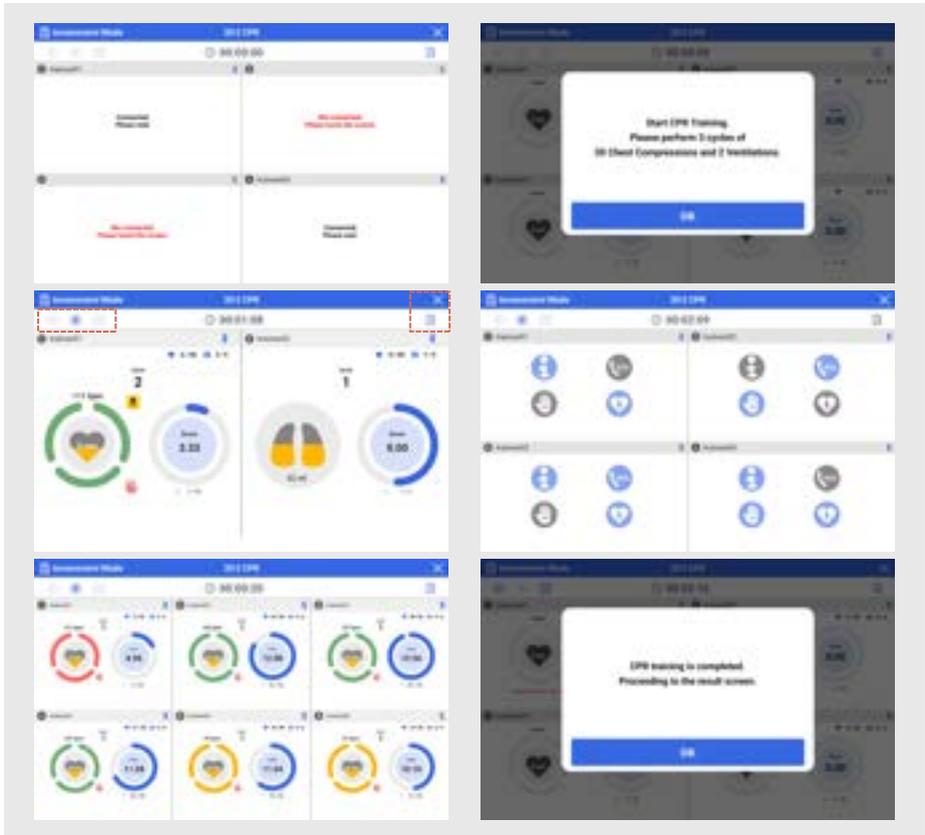


- Selecting the Assessment Mode from the home screen will take you to the group name, trainee name settings, and Bluetooth connection screen.
- Entering the group name and trainee name is required.
- Up to 6 trainees can practice simultaneously. On the Bluetooth search screen, you can connect each trainee to a practice model.
- In Assessment Mode, the screen is divided into 1, 2, 4, or 6 sections based on the number of trainees.

## Icon

Icon	Description	Icon	Description
	Bluetooth Search		Exit

## 2. CPR



- CPR training can be performed with a choice of 30:2 or 15:2.
- Practice is available for 1 to 6 trainees, with the screen divided into 1:1, 1:2, 1:4, or 1:6 layouts.
- Once all devices are connected, a practice guidance notification will appear. Press the [OK] button to start the practice.
- If the Bluetooth connection fails, touch the screen to attempt reconnection.
- Chest compression practice starts, and upon completing the set number, it will automatically transition to ventilation.
- Chest compression and ventilation practice form one cycle, and it will repeat for the set number of cycles.
- You can select or deselect items in the checklist and view the status of each item.

- You can pause the practice using the [Restart / Stop] button. When restarted, the previous practice will be reset, and it will begin from the start.
- Press the [View Results] button to check the results up to the point where the practice was stopped.
- The total practice count is displayed in the top right corner of each trainee's screen. If it exceeds the set total, it will turn red.
- When chest compressions are paused, Hands-off time is displayed. If it exceeds the set value, it will appear in red.
- Once all trainees have completed their practice, a notification will appear. Press the [OK] button to proceed to the results score screen.

### ○ Icon

Icon	Description	Icon	Description
	Restart Practice		Stop Practice
	View Results		Checklist ON / OFF
	Exit		

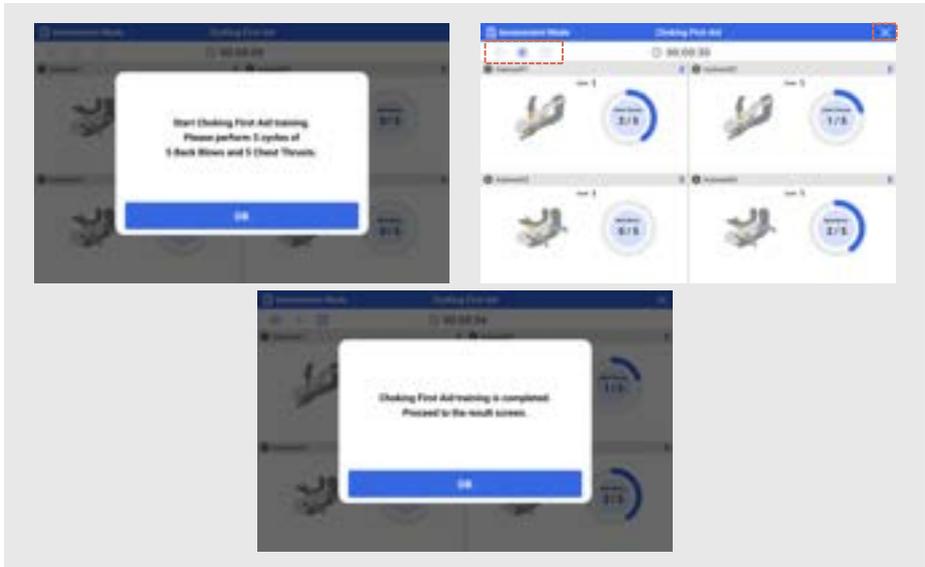
### ○ Checklist

Icon	Description	Icon	Description
	Check for Responsiveness		Call for Help
	Check for Safety		Defibrillation

### ○ Help Guide

Icon	Description	Icon	Description
	Insufficient / Slow		Incomplete Recoil
	Good		Incorrect Hand Placement
	Excessive / Fast		Ventilation Timeout

### 3. Choking First Aid



- Practice is available for 1 to 6 trainees, with the screen divided into 1:1, 1:2, 1:4, or 1:6 layouts.
- Once all devices are connected, a practice guidance notification will appear. Press the [OK] button to start the practice.
- **If the Bluetooth connection fails, touch the screen to attempt reconnection.**
- Start with 5 back blows, and once completed, it will switch to 5 chest thrusts.
- One cycle is made up of back blows followed by chest thrusts, repeating for the specified number of cycles.
- You can pause the practice using the [Restart / Stop] button. When restarted, the previous practice will be reset, and it will begin from the start.
- Press the [View Results] button to check the results up to the point where the practice was stopped.
- Once all trainees have completed their practice, a notification will appear. Press the [OK] button to proceed to the results score screen.

#### ○ Icon

Icon	Description	Icon	Description
	Restart Practice		Stop Practice
	View Results		Exit

## 4. Choking First Aid + CPR



- Practice is available for 1 to 6 trainees, with the screen divided into 1:1, 1:2, 1:4, or 1:6 layouts.
- Once all devices are connected, a practice guidance notification will appear. Press the [OK] button to start the practice.
- **If the Bluetooth connection fails, touch the screen to attempt reconnection.**
- Start with 5 back blows, and once completed, it will switch to 5 chest thrusts.
- One cycle is made up of back blows followed by chest thrusts, repeating for the specified number of cycles.
- After completing the airway obstruction relief practice for the designated number of cycles, a notification message will appear. If other trainees have not yet finished, the system will wait until the last trainee completes their practice, then automatically proceed to the CPR practice.
- Chest compression practice starts, and upon completing the set number, it will automatically transition to ventilation.
- Chest compression and ventilation practice form one cycle, and it will repeat for the set number of cycles.
- You can pause the practice using the [Restart / Stop] button. When restarted, the previous practice will be reset, and it will begin from the start.

- Press the [View Results] button to check the results up to the point where the practice was stopped.
- The total practice count is displayed in the top right corner of each trainee's screen. If it exceeds the set total, it will turn red.
- When chest compressions are paused, Hands-off time is displayed. If it exceeds the set value, it will appear in red.

## ○ Icon

Icon	Description	Icon	Description
	Restart Practice		Stop Practice
	View Results		Checklist ON / OFF
	Exit		

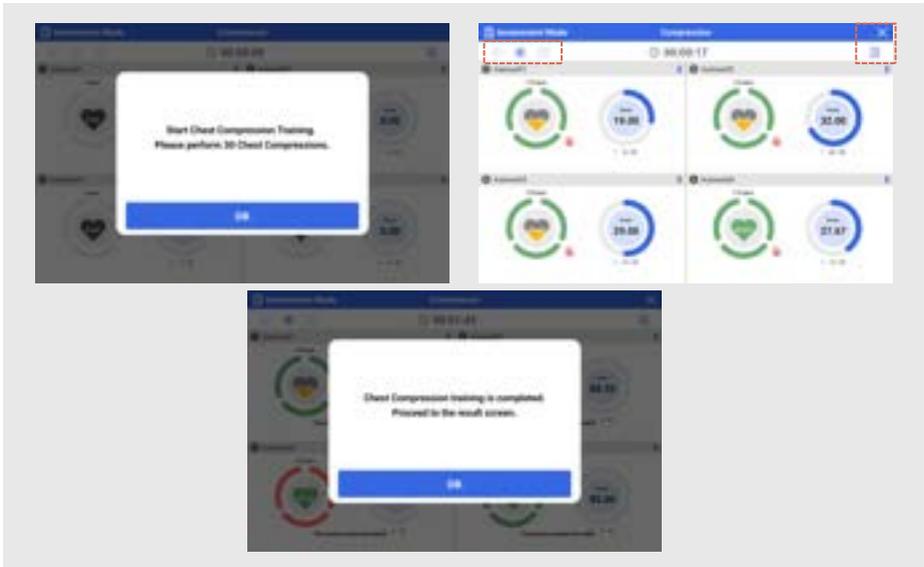
## ○ Checklist

Icon	Description	Icon	Description
	Check for Responsiveness		Call for Help
	Check for Safety		Defibrillation

## ○ Help Guide

Icon	Description	Icon	Description
	Insufficient / Slow		Incomplete Recoil
	Good		Incorrect Hand Placement
	Excessive / Fast		Ventilation Timeout

## 5. Chest Compressions



- Practice is available for 1 to 6 trainees, with the screen divided into 1:1, 1:2, 1:4, or 1:6 layouts.
- Once all devices are connected, a practice guidance notification will appear. Press the [OK] button to start the practice.
- **If the Bluetooth connection fails, touch the screen to attempt reconnection.**
- Chest compressions will be performed according to the set count during practice.
- Once all trainees have completed their practice, a notification will appear. Press the [OK] button to proceed to the results score screen.

### ○ Icon

Icon	Description	Icon	Description
	Restart Practice		Stop Practice
	View Results	 	Checklist ON / OFF
	Exit		

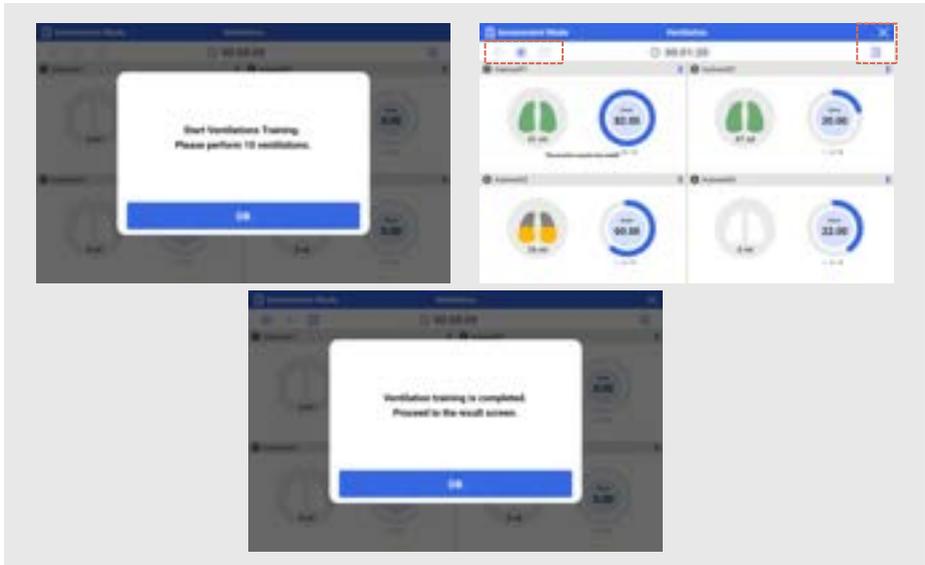
## ○ Checklist

Icon	Description	Icon	Description
	Check for Responsiveness		Call for Help
	Check for Safety		Defibrillation

## ○ Help Guide

Icon	Description	Icon	Description
	Insufficient / Slow		Incomplete Recoil
	Good		Incorrect Hand Placement
	Excessive / Fast		Ventilation Timeout

## 6. Ventilations



- Practice is available for 1 to 6 trainees, with the screen divided into 1:1, 1:2, 1:4, or 1:6 layouts.
- Once all devices are connected, a practice guidance notification will appear. Press the [OK] button to start the practice.
- **If the Bluetooth connection fails, touch the screen to attempt reconnection.**
- Ventilations will be performed according to the set count during practice.
- Once all trainees have completed their practice, a notification will appear. Press the [OK] button to proceed to the results score screen.

### ○ Icon

Icon	Description	Icon	Description
	Restart Practice		Stop Practice
	View Results		Checklist ON / OFF
	Exit		

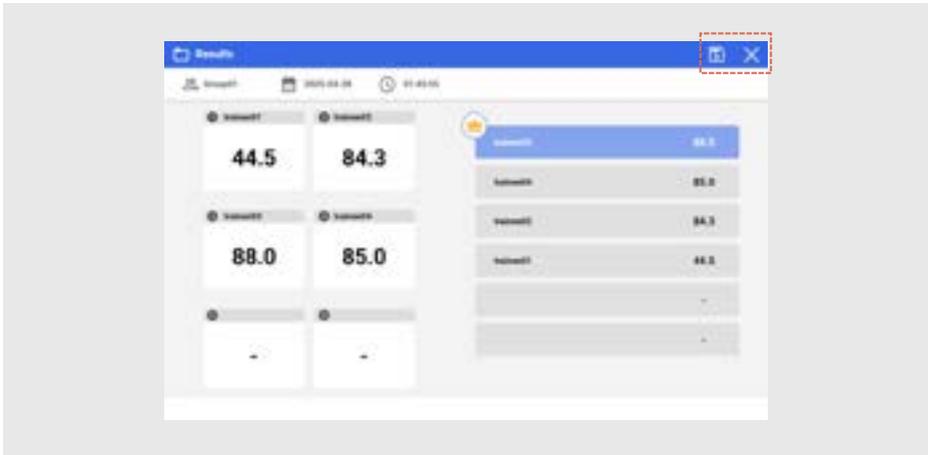
## ○ Checklist

Icon	Description	Icon	Description
	Check for Responsiveness		Call for Help
	Check for Safety		Defibrillation

## ○ Help Guide

Icon	Description	Icon	Description
	Insufficient / Slow		Incomplete Recoil
	Good		Incorrect Hand Placement
	Excessive / Fast		Ventilation Timeout

## 7-1. Results : Score Screen

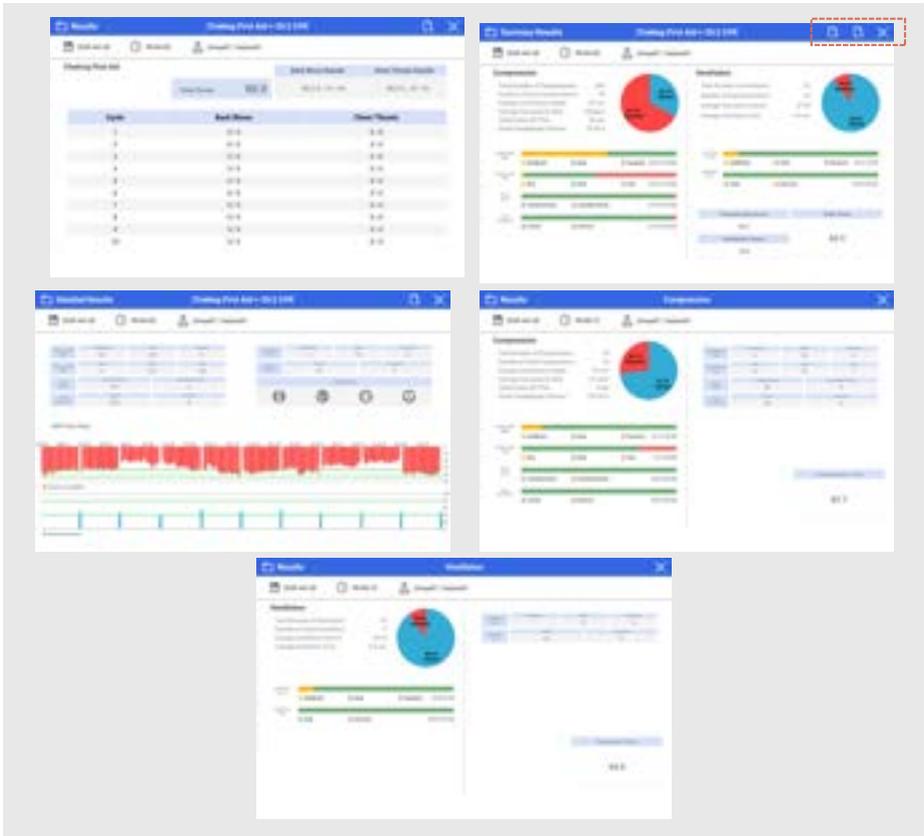


- The results score screen displays the scores and rankings of the trainees.
- Press the [Save] button to save the practice results of all trainees in PDF format.
- Press the [Trainee's Name] to view the detailed results of the trainee.

### ○ Icon

Icon	Description	Icon	Description
	Save		Exit

## 7-2. Results : Individual Result Screen



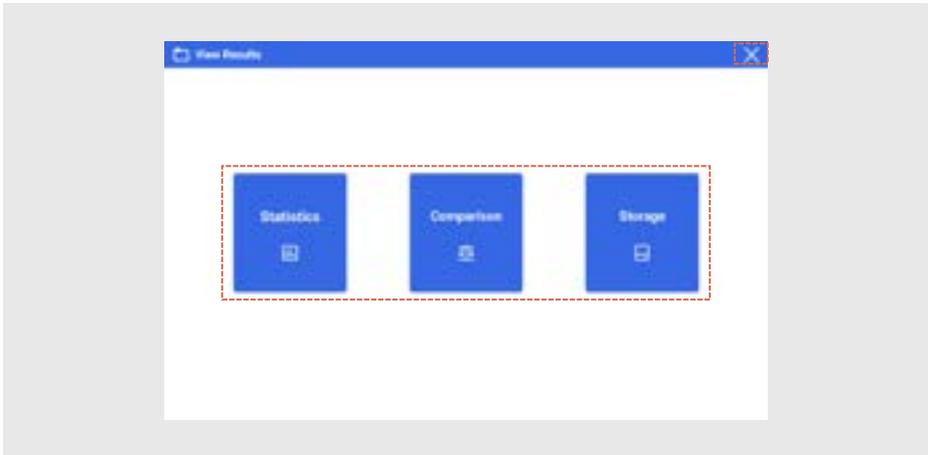
- Press the [Previous Page / Next Page] buttons to view the summary and detailed results pages.

### ○ Icon

Icon	Description	Icon	Description
 	Previous Page / Next Page		Exit

# View Results

## 1. Overview

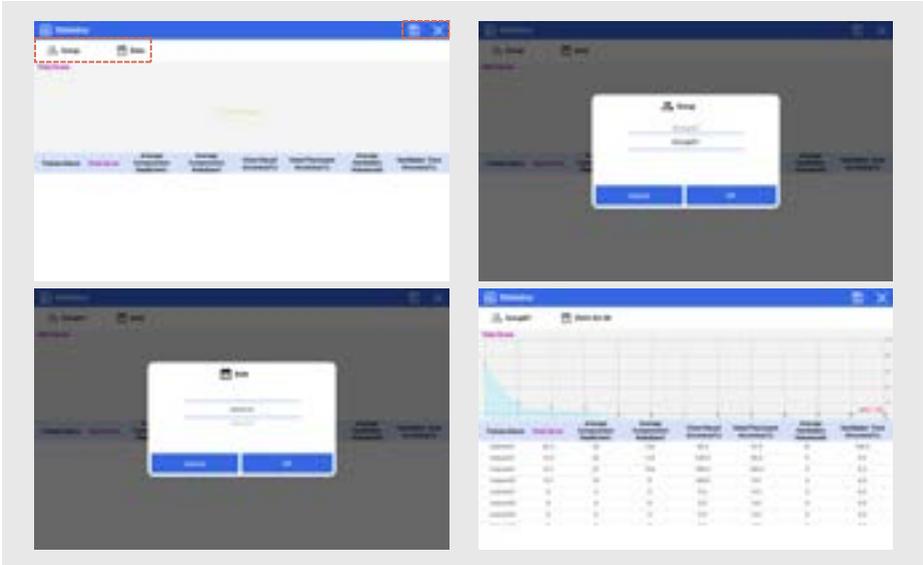


- Select [View Results] from the home screen to view the statistics and comparisons of the practice results.
- Press the [Storage] button to view the saved results.

## ○ Icon

Icon	Description	Icon	Description
	Statistics		Comparison
	Storage		Exit

## 2. Statistics

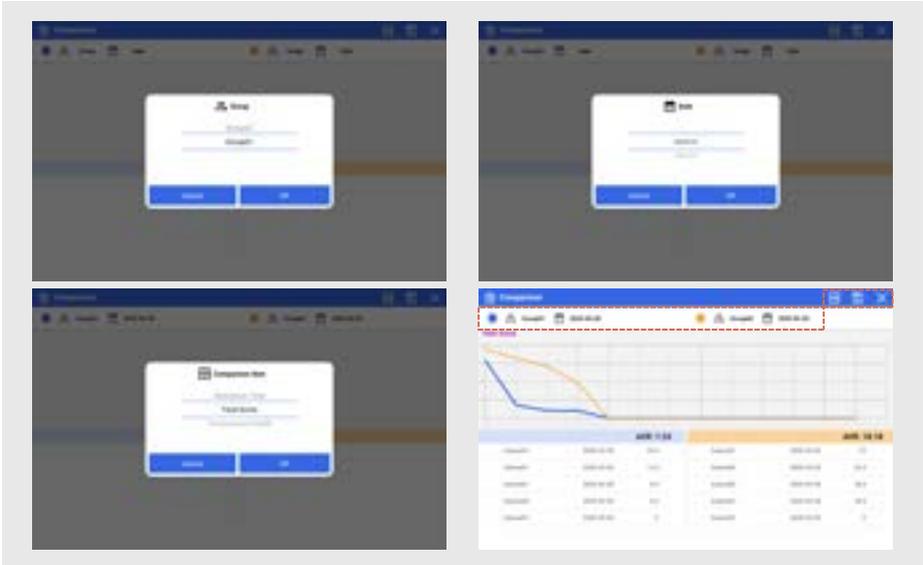


- View the statistics of the saved training data via graphs and numbers.
- **Select Group → Select Date → View Statistical Data**
- Press the [Save] button to save the statistical data as a PDF.

### ○ Icon

Icon	Description	Icon	Description
	Group		Date
	Save		Exit

### 3. Comparison

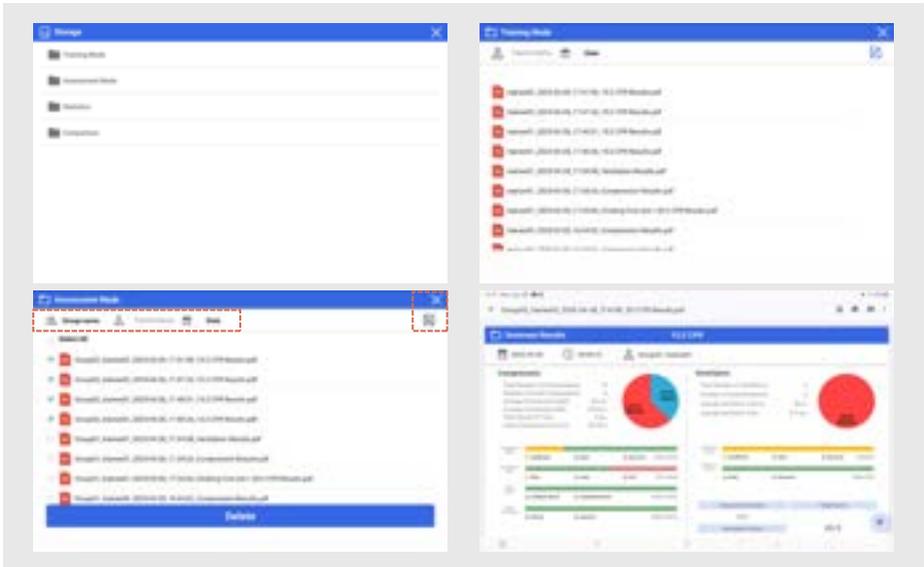


- You can compare and analyze the practice data of two groups.
- **Select Group → Select Date → Select Comparison Items → View Comparison Data**
- The practice result data is displayed in different colors for each group.
- Press the [Save] button to save the comparison data as a PDF.

### ○ Icon

Icon	Description	Icon	Description
	Group		Date
	Comparison Items		Save
	Exit		

## 4. Storage



- Stored results can be viewed on the results screen.
- The storage is organized into folders containing data from Training Mode, Assessment Mode, Statistics, and Comparison.
- Press the result to view the results saved in PDF format.
- Set the group name and date to search for the desired results.
- In [Edit Mode], individual and multiple deletions are available.

## O Icon

Icon	Description	Icon	Description
	Search by Group Name		Search by Trainee Name
	Search by Date	 	Edit Mode / Read Mode
	Exit		

BT-SEEM2-BABY

# Baby First Aid Training Simulator

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