



AED TRAINER [XFT-120G]

Direction for use

- Thank you for purchasing XFT-120G AED Trainer
- Please read the instruction manual carefully and thoroughly before operating this device.
- Also please keep it available for future reference.

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List of Symbols

	Date of Manufacture
	Manufacturer
	This product must not be disposed of with other household waste
	Refer to user manual
	Serial Number
	Fragile
	Keep upward
	Keep dry
	Temperature limit
	Humidity limitation
	Atmospheric pressure limitation

1. Product Introduction

XFT-120G AED (Automated External Defibrillator) Trainer is specifically designed to train first-aid personnel before they use a real clinical AED. The AED Trainer completely simulates the operation of AED in the training guide and training program, but does not deliver high voltage electric shock, protecting the safety of trainees. It can be used to help first-aid personnel get familiar with AED and master some necessary basic operating skills of using AED in the first aid process. Before using an AED, first-aid personnel should first complete training courses on how to respond calmly in a real accident. These training courses also include learning how to use an AED Trainer. A trained first-aid personnel should know how to assess a patient's condition, such as loss of consciousness, respiratory arrest, cardiac arrest, etc., and should be proficient in CPR procedures and related medical procedures.

2. Product Illustration

XFT-120G AED Trainer consists of the Trainer, Remote Control, Electrode Pads, Pad Sensors, Instruction Manual, Power Adapter, and Storage Bag.

2.1 The Trainer

2.1.1. Front View



Fig. 1 Front View



Fig.2 Open the Cover

1) **Handle**

2) **Cover**

When Open the cover, the AED Trainer will be turned one; when close the cover, the AED Trainer will be turned off.

3) **USB Interface**

It is used to upgrade the software.

4) **Electrode Socket:**

It is used to connect the electrode pad.

5) **Display Screen**

When the Trainer is working, the screen will display the working status.

6) **Power Button**

Turn on the trainer by opening the cover, during this state, press the Power button to shut down the Trainer

7) **Shock Button**

Press this button to deliver shock. The button flashes when shock advised.

8) **Setting Button**

When the trainer is powered on, press and hold this Setting button for 3 seconds to enter the setting interface. Then press the Down button ▼ or Up button ▲ to select the language, metronome, CPR wristband, and system settings. After the setting is completed, press and hold the Setting button for 3 seconds to exit the setting interface.

9) **Up Button**

When it is on the working interface, user can press this button to choose different scenarios;

When it is on Setting interface, user can press this button to switch the selection.

10) **Down button**

When it is on the working interface, user can press this button to choose different scenarios;

When it is on Setting interface, user can press this button to switch the selection.

11) **Loudspeaker**

12) **Signal Receiving Window**

When using the remote control, point it at this window to control the trainer.

2.1.2 Rear View

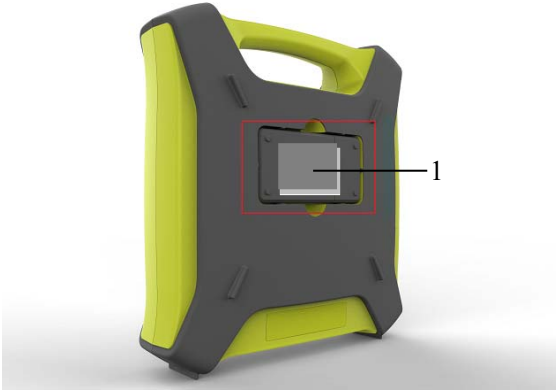


Fig.3 Rear View



Fig.4 Take Out the Remote Control

1) Remote Control

The remote control is stored in the back side of the AED Trainer. User can remove it from the trainer when doing the training.

2.1.3 Botton View



Fig.5 Botton View



Fig.6 Remove the Battery Module

1) Battery Module

The battery module is rechargeable. When charinging is need, user can remove the battery module from the AED Trainer and connect it with charging adapter to do the charging.

2.2 The Display Screen

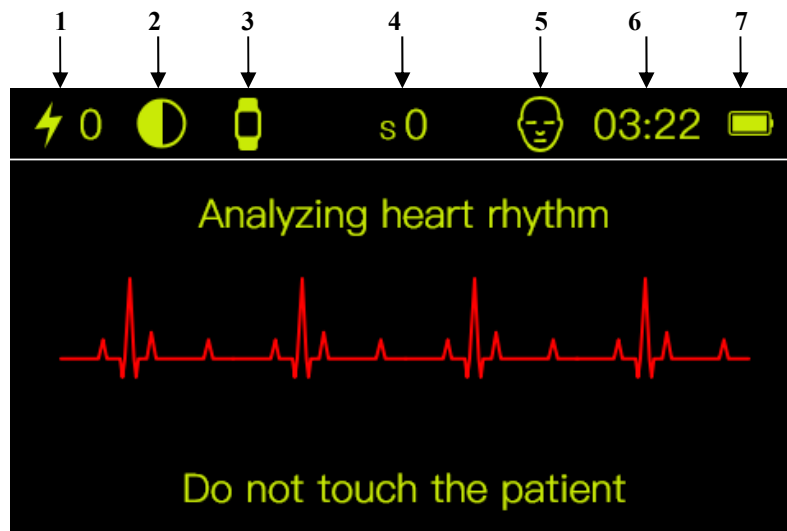


Fig.7 Display Screen

No.	Explanation
1	 Indicates the times of shocks the Trainer has delivered “0” means no shock
2	 Indicates that the trainer is currently in semi-automatic mode;  Indicates that the trainer is currently in the full-automatic mode.
3	 Indicates that the trainer is connected to the CPR wristband;  Indicates that the trainer is not connected to the CPR wristband.
4	 S means Scenario, the number 0-9 means the the scenario 0 to scenario 9.
5	 Indicates that the trainer is currently in pediatric mode and uses child electrode pads;  Indicates that the trainer is currently in adult mode and uses adult electrode pads.
6	 Indicates the time currently used by the trainer after it is powered on.
7	 Indicates the current battery level of the trainer

2.3 The Remote Control

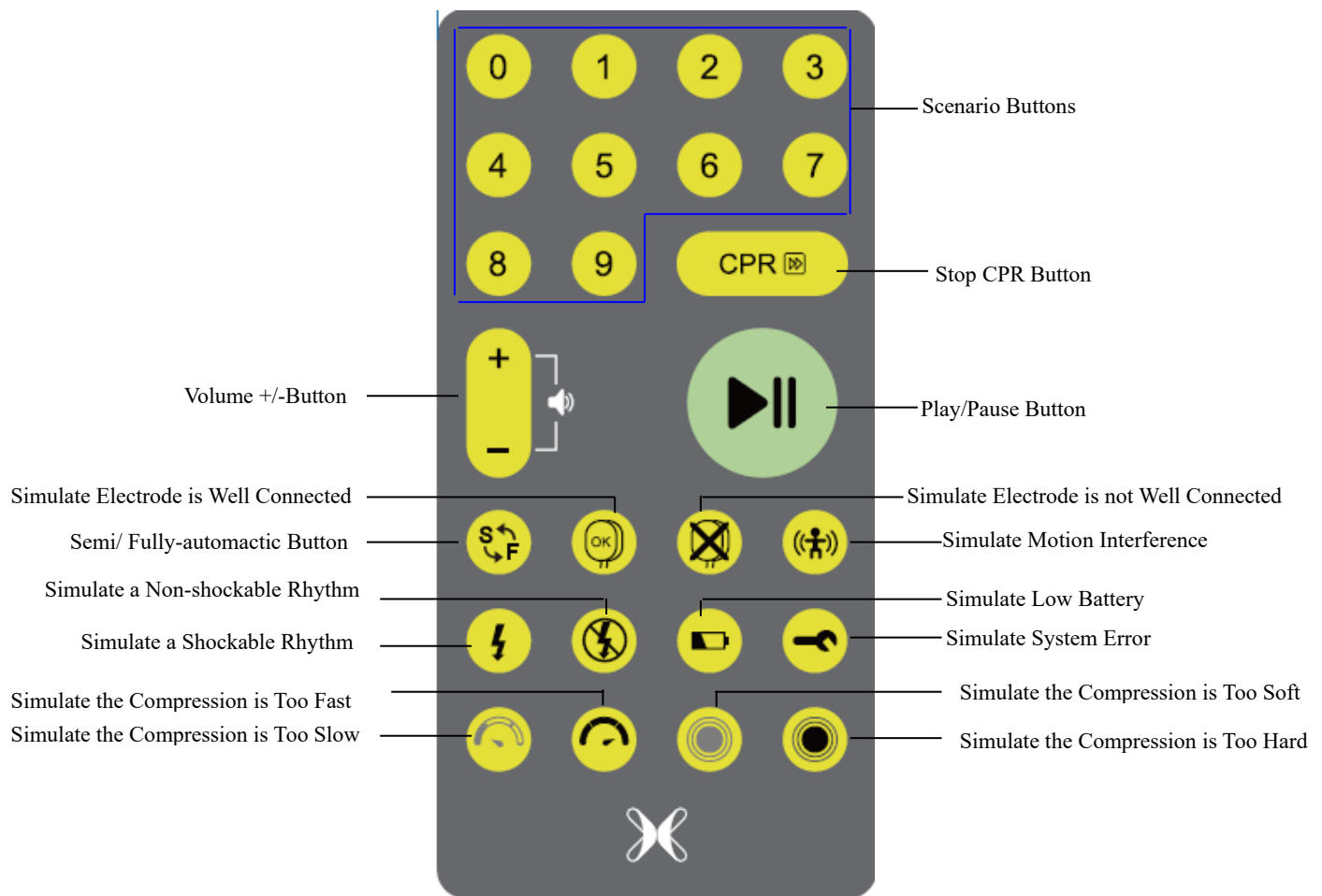


Fig. 6 Remote Control

1) Scenario Buttons

Press these buttons to select basic scenario from 0-9 scenario (see Table 3 for details of each scenario);

2) Stop CPR Button

If you press this button during the CPR process, you will end the CPR process ahead of time and go directly to the next process.

3) Volume +/- Button

Press the + button to increase the volume;

Press the – button to reduce the volume.

4) Play/Pause Button

When the trainer is playing, press this button, the trainer will enter the pause state;

When the trainer is in pause state, press this button, the trainer will continue its play.

5) Semi/ Fully-automatic Button

Press this button to select between semi-automatic scenario or fully-automatic scenario.

6) Simulate Electrode is Well Connected

Press this button during training, the trainer enters into the electrode pads connect good program, and then according to the voice prompt for training.

7) Simulated Electrode is not Well Connected:

Press this button during training, the trainer prompts “Press pads firmly to patient's bare chest”, and then prompts “poor pads contact” and “replace pads”.

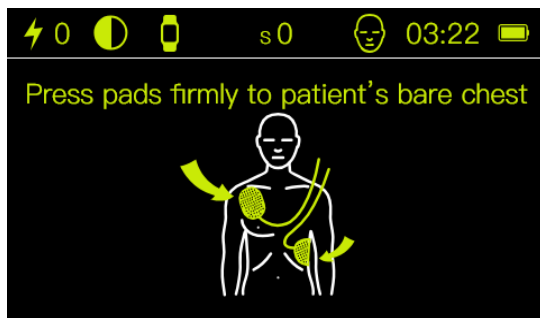


Fig. 7

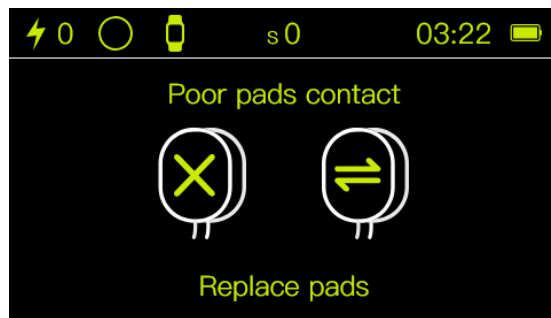


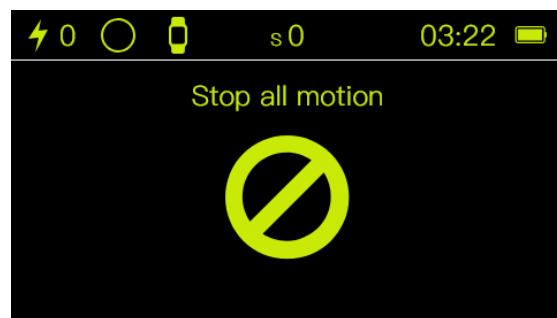
Fig. 8

8) **Simulate Motion Interference:**

Press this button during the first heart rhythm analysis, the trainer prompts “Analysis interrupted (Fig. 9), Stop all motion (Fig. 10)”; press this button during the second heart rhythm analysis, the trainer prompts “Stop all motion (Figure 10), Cannot analyze (Figure 11)”



Pic 9



Pic 10



Pic 11

9) **Simulate a Shockable Rhythm:**

Press this button during training, the trainer enters into a shockable rhythm program, and then train according to the voice prompts.

10) **Simulate a Non-shockable Rhythm:**

Press this button during training, the trainer enters into a non-shockable rhythm program, and then train according to the voice prompts.

11) **Simulate Low Battery**

In the normal use of the trainer, press this button, the trainer screen prompts low battery. If you press this button again, you will be prompted to replace the battery.

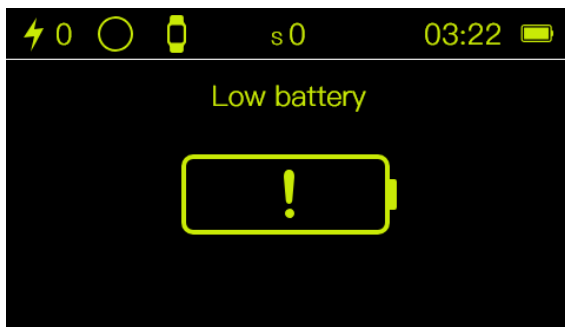


Fig. 12



Fig. 13

12. Simulate System Error:

In the normal use of the trainer, press this button, the trainer screen prompts "System Error"..

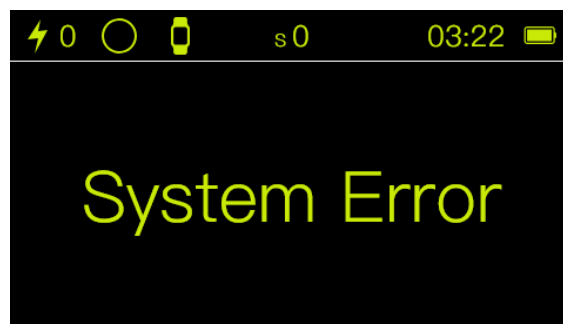


Fig. 14

13. Simulate the Compression is Too Slow:

During the CPR process, when press this button, the trainer screen prompts to push faster.

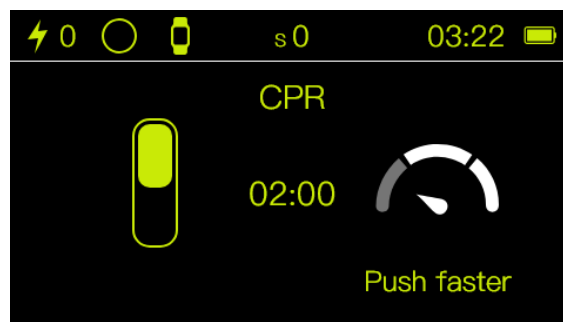


Fig. 15

14. Simulate the Compression is Too Fast:

During the CPR process, when press this button, the trainer screen prompts to push slower.

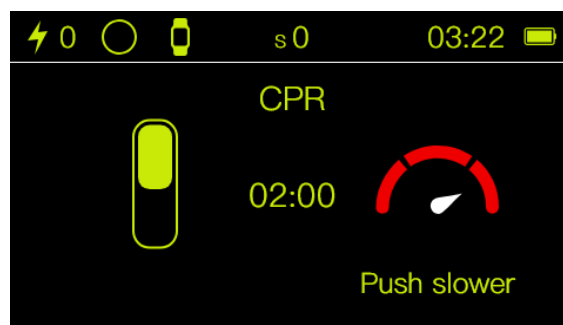


Fig. 16

15. Simulate the Compression is Too Soft:

During the CPR process, when press this button, the trainer screen prompts to push harder.



Fig. 17

16. Simulate the Compression is too Hard:

During the CPR process, when press this button, the trainer screen prompts to push softer.

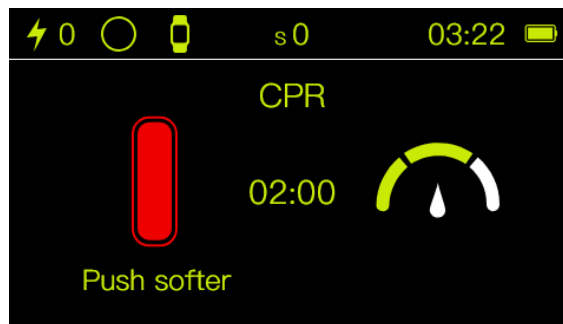


Fig. 18

2.4Accessories

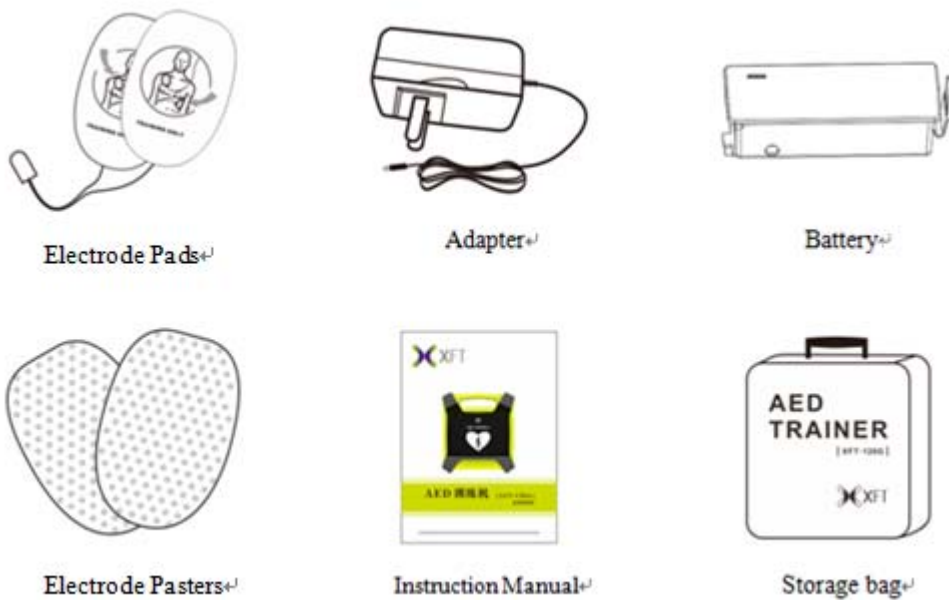


Fig. 19

3. Operating Instruction

3.1 Preparation

3.1.1 Electrode pads placement

Take out the electrode from the package and place it on the manikin.

Note: If the adult mode is used, the adult electrode pads is attached to the position shown in Figure 20; if the child mode is used, the child electrode pads is attached to the position shown in Figure 21.

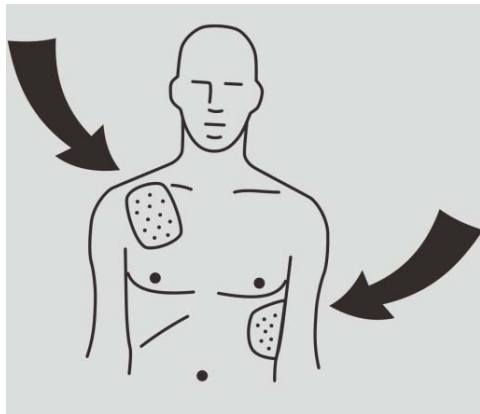


Fig. 20 Adult electrode placement

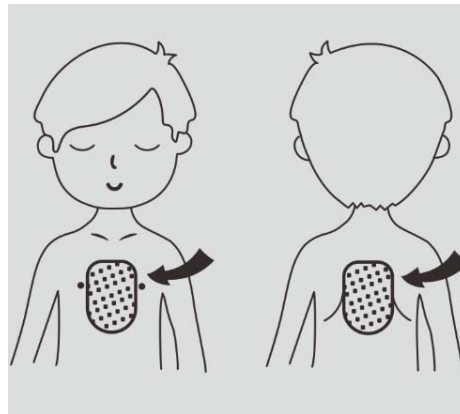


Fig. 21 Child electrode placement

3.1.2 Use with CPR Wristband

If you want to use the CPR wristband with the trainer, you need to connect the CPR wristband with the trainer. Turn on the trainer firstly, then turn on the CPR wristband, after that the CPR wristband will automatically connect to the trainer. If the CPR wristband or the trainer is turned off, the connection between the two devices will be interrupted. If you want to reconnect, you need to reboot both.

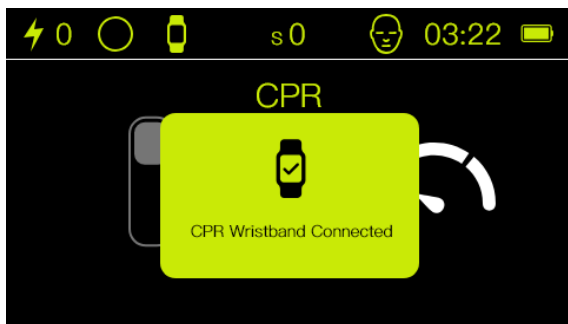


Fig. 22 The trainer and the CPR wristband connected

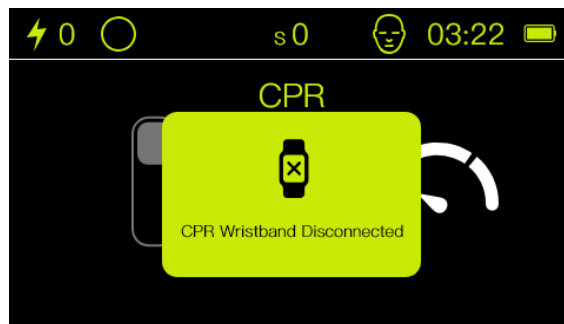


Fig. 23 CPR wristband and the trainer disconnected.

The connection status displayed on the CPR wristband screen is as follows:

CPR wristband screen display	Explanation
	Unconnected icon: The icon will show when the CPR wristband is not connected to the trainer. When the CPR wristband is turned on and the trainer is not turned on, the CPR wristband will search for the trainer to connect. When the trainer is not connected, the CPR wristband screen displays this icon.
	Connected icon: The icon will show when the CPR wristband is connected to the trainer. Turn on the trainer first, and then turn on the CPR wristband. These two devices will automatically connect; after the connection is successful, the icon will be displayed on the CPR wristband screen.

	Disconnect icon: The icon will show when the CPR wristband is disconnected from the trainer. When the CPR wristband is connected to the trainer, if the trainer is turned off, this icon will be displayed on the CPR wristband screen.
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3.2 Power On and Select Training Mode

Open the cover, (the power button ) light is on, and then select the training scenario through the remote control. The display screen on the trainer will display the currently selected scenario mode number and perform related operations according to the voice prompt. The last selected training mode will be remembered as the default mode for the next boot.



Fig. 24

3.3 Connecting Electrode Pad

- 1) Take out the electrode pads (the adult electrode pads are pre-connected to the trainer);
- 2) Place the electrode pads to the manikin according to the illustration on the electrode pads;
- 3) Follow the voice prompts to perform related operations.

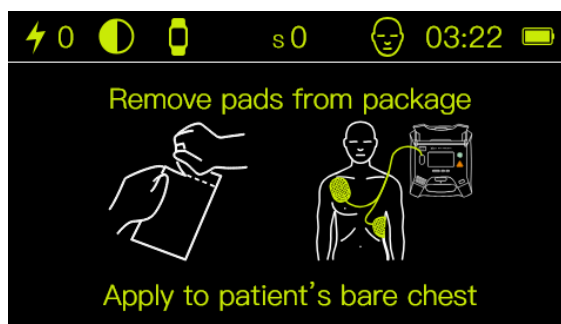


Fig. 25 Connecting electrode pad

Note: There are two types of training electrode: adult electrode pad and child electrode pad. The electrode pad for training are similar in appearance to the electrode pad used in clinical AEDs, but do not conduct high voltage shocks. Therefore, the training electrode pads are for training purposes only and should not be connected to the AED for first aid.



Fig. 26 Adult Electrode pad and Child Electrode pad

- Do not bend or stretch the electrode wires.
- When pulling out the electrode from the trainer, press and hold the terminal to pull it out.
- The factory default is to use the adult electrode, one end has been connected to the trainer; if you need to replace with the child electrode, firstly pull out the adult electrode, and then replace it with a child's electrode. When using a child's electrode, please pay attention to the difference between the placement method of the adult electrode (see 3.1.1).

3.4 Follow the voice prompts

According to the selected training mode, the operation is performed according to the prompt voice of the trainer



Fig. 27 Follow the voice prompts to operate

3.5 Setting Interface

If the user needs more settings, he or she can go to the settings page to make related settings.

3.5.1 Language setting

- 1) Open the trainer's cover to power on
- 2) Press and hold  for 3 seconds to enter the setting interface
- 3) Select the Language option by pressing the " " or " " button
- 4) Press  to enter the language option setting page
- 5) Select the desired language by pressing the " " or " " button
- 6) Press  to confirm the selection

- 7) Press the “” or “” button to return to the start page of setting
- 8) Press and hold  for 3 seconds to exit the setting interface. Then follow the voice prompts in the normal order for training.

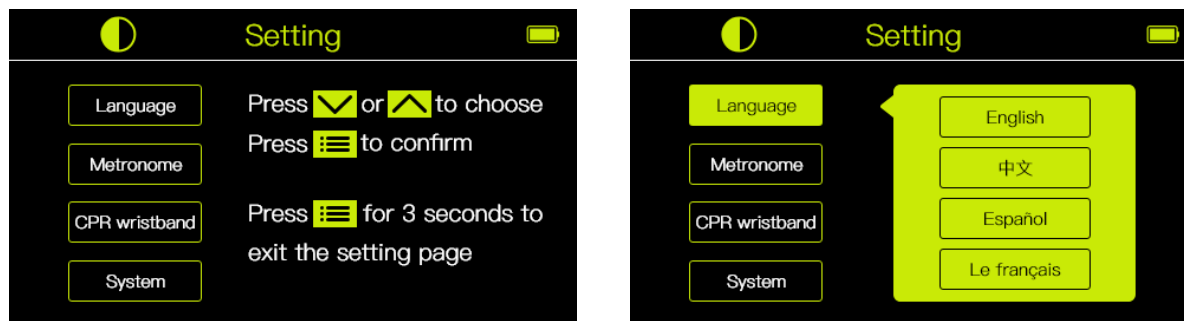


Fig. 28 Language setting

3.5.2 Metronome setting

- 1) Open the trainer's cover to power on
- 2) Press and hold  for 3 seconds to enter the setting interface
- 3) Select the Metronome option by pressing the “” or “” button
- 4) Press  to enter the Metronome setting page
- 5) Select the desired Metronome by pressing the “” or “” button
- 6) Press  to confirm the selection
- 7) Press the “” or “” button to return to the start page of setting
- 8) Press and hold  for 3 seconds to exit the setting interface. Then follow the voice prompts in the normal order for training.

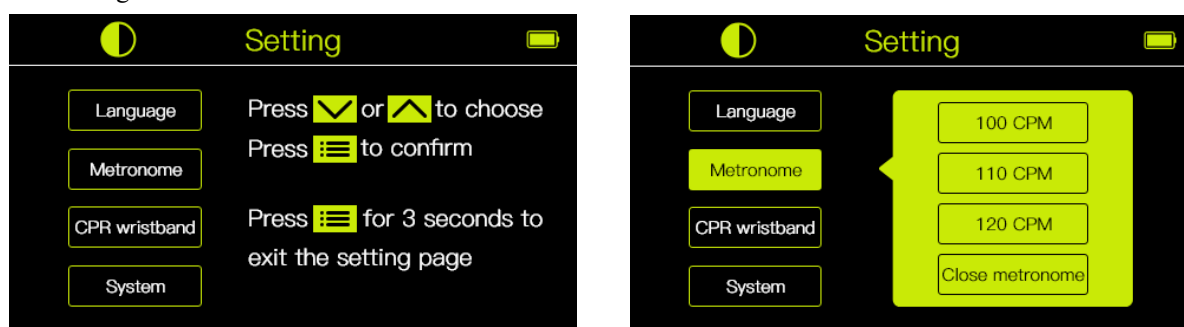


Fig. 29 Metronome setting

3.5.3 CPR Wristband Setting

- 1) Open the trainer's cover to power on
- 2) Press and hold  for 3 seconds to enter the setting interface

- 3) Select the CPR wristband by pressing the “” or “” button
- 4) Press  to enter the CPR wristband setting page
- 5) Select the desired option by pressing the “” or “” button
- 6) Press  to confirm the selection
- 7) Press the “” or “” button to return to the start page of setting
- 8) Press and hold  for 3 seconds to exit the setting interface. Then follow the voice prompts in the normal order for training.

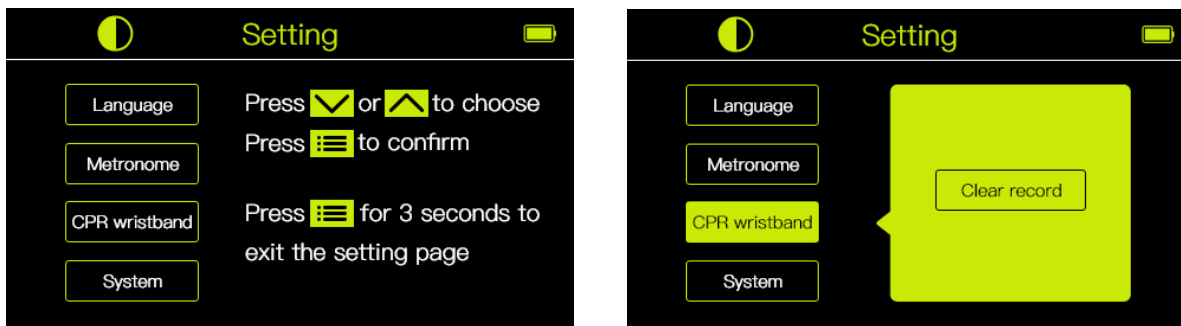


Fig. 30 CPR wristband setting

3.5.4 System Setting

- 1) Open the trainer's cover to power on
- 2) Press and hold  for 3 seconds to enter the System setting interface
- 3) Select the System option by pressing the “” or “” button
- 4) Press  to enter the System settings page
- 5) Select the desired option by pressing the “” or “” button
- 6) Press  to confirm the selection
- 7) Press the “” or “” button to return to the start page of setting
- 8) Press and hold  for 3 seconds to exit the setting interface. Then follow the voice prompts in the normal order for training.

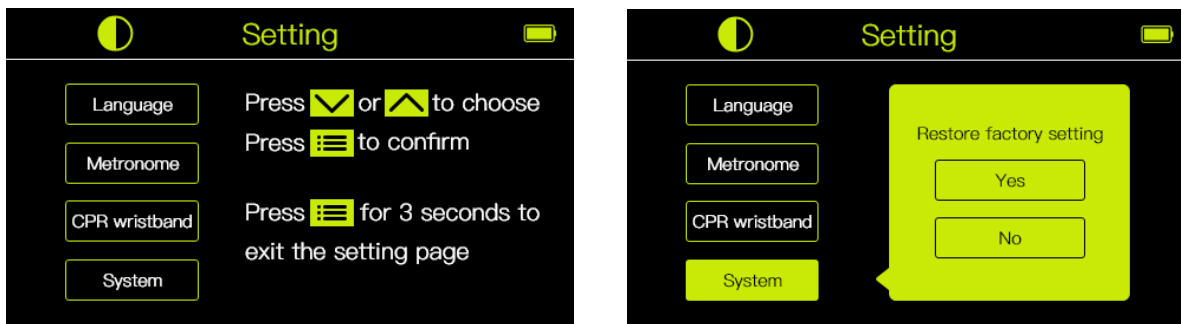


Fig. 31 System setting

3.6 Shutdown

When the training is over, close the trainer's cover to turn off the device. In addition, the trainer also has an automatic shutdown function:

- 1) Low voltage automatic shutdown.
- 2) If it is in the setting interface for more than 8 minutes, it will automatically shut down.
- 3) If the trainer pauses for 8 minutes, it will automatically shut down if there is no operation.

4. Product Maintenance

4.1 TheTrainer Maintenance

- If the main unit is dirty, wipe with soft cloth with water or neutral detergent. Wring it thoroughly and wipe the main unit.
- Do not wipe the main unit with thinner, benzine, etc.
- Do not wipe the main unit with other volatile preparations.
- Do not allow liquid such as water to flow into the inside of the main unit.
- Do not store in a place exposed to direct sunlight, high temperature, humidity, dust, or corrosive gas.
- Save the main unit, remote control, electrode pads, power adapter, and manual with a storage kit.

4.2 Electrode Maintenance

- The electrode pads should be kept clean to avoid dust, oily substances, sticky substances and other contaminants.
- Do not scratch the surface with nails, brushes, etc.
- Do not wash frequently. Please do not use detergent or hot water for cleaning.
- Do not store in a place exposed to direct sunlight, high temperature, humidity, dust, or corrosive gas.

4.3 Battery Disassembly and Maintenance

- 1) The trainer battery installation: Insert the battery as shown



Fig. 32 The Trainer battery installation

2) The Trainer battery charging: When the battery is exhausted, please charge the battery in time.

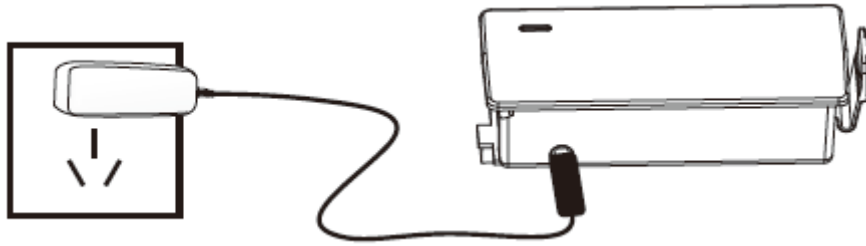


Fig. 33 The Trainer battery charging

* After using for a while, if the volume is not normal or does not work properly, the battery may be running out. Please replace the battery or charge the battery.

Battery installation for the Remote Control:

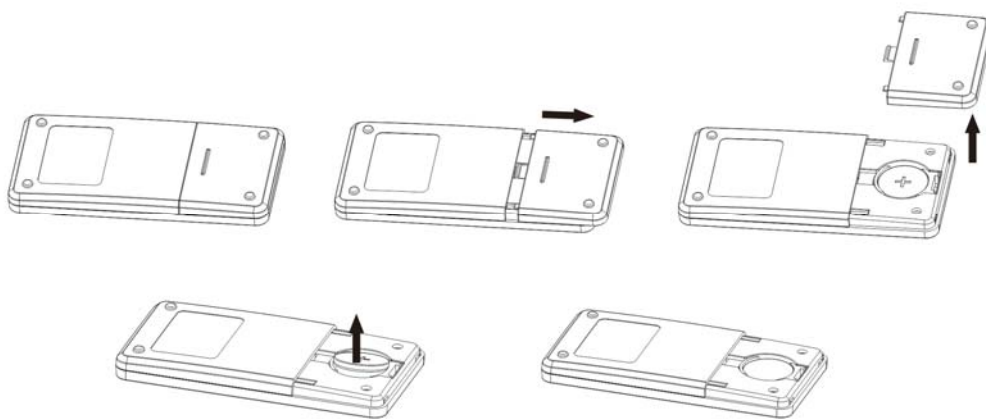


Fig. 34 Remote control battery removal diagram

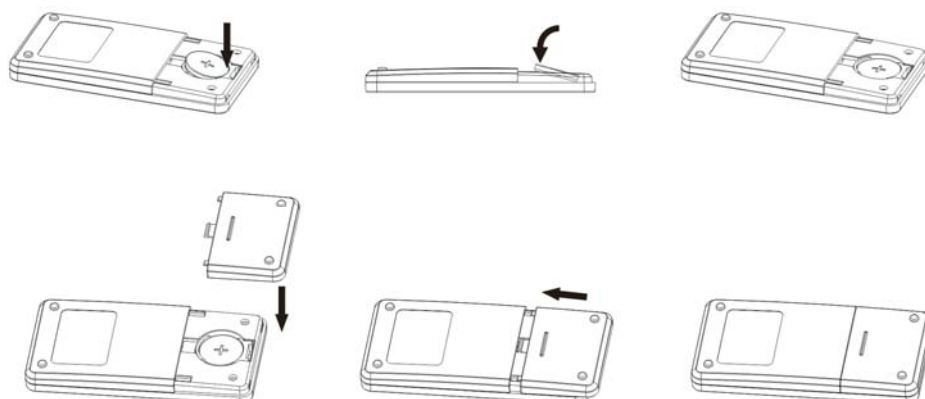


Fig. 35 Remote control battery installation diagram

* Note that the battery anode is upward when the battery is installed. After using for a period of time, if the trainer's response to the remote control is delayed or does not respond, the battery may be running out. Please replace it with a new one

4) Safe use of rechargeable batteries:

- ◆ Do not charge/discharge more than the specified current.
- ◆ Do not short circuit the battery/battery pack, as this may cause permanent damage to the battery/battery pack.
- ◆ Do not burn or destroy the battery/battery pack.
- ◆ Do not expose the battery to adverse conditions such as extreme temperatures, deep cycling and overcharging, otherwise battery life may be reduced.
- ◆ Store the battery/battery pack in a cool, dry place.
- ◆ Keep away from children.

※Rechargeable battery care instructions

Periodic charge and discharge: If the trainer is not used for a long time (when the battery is stored for more than 6 months), it is recommended to discharge the battery completely and then recharge it. If the battery is found to leak, stop using it immediately and contact the supplier for disposal.

4.4 Working Condition and Storage Condition

Working Condition

Temperature: 5°C-40 °C

Humidity: ≤80% (Non-condensing)

Atmospheric pressure: 86kPa-106kPa

Storage Condition

Temperature: -20°C-55°C

Humidity: ≤93% (Non-condensing)

Atmospheric pressure: 70kPa-106kPa

5. Specification and Product Contents

5.1 The Trainer

Model: XFT-120G

Product Name: AED Trainer

Power: DC 7.4V/2600mAh, rechargeable lithium battery

Shutdown current: ≤10μA

Working current: ≤500mA

Size: 253*230*71mm

Weight: 865±35g

Rechargeable lithium battery :ICR18650, 7.4V 2600mAh, 37*67*19mm

5.2 Remote Control

Power: DC 3.0V(CR2032 Button cell)

Shutdown current: ≤5μA

Working current: ≤10mA

Size: 102*52*11mm

Weight: 30±5 g

5.3 Product Contents

Table 1

No.	Content	Quantity	Unit	Remarks
1	The Trainer	1	pc	--
2	Remote Control	1	pc	--
3	Adult Electrode Pads	1	Pair	--
4	Child Electrode Pads	1	Pair	--
5	Adult Pad Sensors	2	Pairs	--
6	Child Pad Sensors	2	Pairs	--
7	CPR Wristband	1	pc	Optional
8	Battery	1	pc	Rechargeable
9	Power Adapter	1	pc	--
10	Instruction Manual	1	pc	--
11	Storage Bag	1	pc	--

Table2: Accessories ordering reference number

No.	Accessories	Ref. No
1	The Trainer	5010701001
2	Remote Control	5010701002
3	Adult Electrode Pads	4320010135
4	Child Electrode Pads	4320010132
5	Adult Pad Sensors	4320010134
6	Child Pad Sensors	4320010131
7	CPR Wristband	
8	Battery	5030701001
9	Power Adapter	1140210033
10	Instruction Manual	4010701001
11	Storage Bag	4450701001

Table3: 10 preprogrammed scenarios in XFT-120G AED Trainer

Scenarios	Description	Operation
0	Ventricular Fibrillation- With single-shock conversion	Shockable rhythm 1 shock Non-shockable rhythm
1	Ventricular Fibrillation- With multiple-shocks required for conversion	Shockable rhythm 4 shocks Non-shockable rhythm

2	Troubleshooting Skills- Defibrillation pads	Poor pad connection Shockable rhythm 1 shock Non-shockable rhythm
3	Ventricular Fibrillation- With two-shocks required for conversion	Shockable rhythm 2 shocks Non-shockable rhythm
4	Non-Shockable Rhythm	Non-shockable rhythm through
5	Ventricular Fibrillation- With two-shocks required for conversion	Shockable rhythm 2 shocks Non-shockable rhythm
6	Ventricular Fibrillation- With three-shocks required for conversion	Shockable rhythm 3 shocks Non-shockable rhythm
7	Troubleshooting Skills- Defibrillation pads with two shocks required for conversion	Poor pad connection Shockable rhythm 2 shocks Non-shockable rhythm
8	Ventricular Fibrillation	Ventricular fibrillation through
9	Troubleshooting Skills- Motion, low battery, with one shock required for conversion	Motion artifacts Shockable rhythm 1 shock Non-shockable rhythm

6. After-sales Service

- The product is provided with a two-year warranty starting from the date of purchasing.
- XFT will not provide free repair for the malfunctions caused by the following behaviors:
 - Disassemble or modify the product without authorization.
 - Accidentally blow or drop the product during use or transportation.
 - Lack of reasonable maintenance.
 - Operate not according to the instruction.
 - Repaired by unauthorized repair store.
- When asking for warranty service, please take with the warranty card.
 - It is charged according to the stipulation of the repair service of the warranty.
 - Please contact XFT if you need warranty service.

Product Name: AED Trainer
Model: XFT-120G



Shenzhen XFT Medical Limited
Room203, Building 1, Biomedicine Innovations Industrial
Park,
#14 Jinhui Road, Pingshan New District, Shenzhen, China

Date: 2019/7/31
Doc. No.: XFT-120G-A
Version: C

FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications to this unit not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement

The device has been evaluated to meet general RF exposure requirement.

The device can be used in portable exposure condition without restriction.