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202-英文说明书

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Amoul

User's Manual

Cardiopulmonary Resuscitator

www.amoulmed.com

CE 2797

Contents

Product Information

Thank you for purchasing E6 Cardiopulmonary Resuscitator.

Before using the equipment, please read this manual carefully and understand the information contained in it so as to operate it properly. Keep this manual properly in any accessible place.

Product name：Cardiopulmonary Resuscitator
Model：E6
Manufacturer：Ambulanc (Shenzhen) Tech. Co., Ltd.
Manufacturer address：3rd Floor, Block C, Building #5, Skyworth Innovation Industry Park, Tang Tou 1st Road, Shiyan Town, Baoan District, Shenzhen 518108, China
Tel: +86-755- 26072210 Fax:+86-755-23016012
Website: www.amoulmed.com E-mail: manager@amoulmed.com
Product date：See host
Service life：8 years
Revision date：2020-12

Attention：

This instrument is not intended for any family purpose.

EC-Representative

EC-Representative：Shanghai International Holding Corp. GmbH(Europe) Eiffestrasse 80 20537,Hamburg,Germany
Contact pers：Qiming Cheng
Telephone: +49-40-2513175 Fax: +49-40-255726

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Ambulanc reserves the right to alter product specification without prior notice.

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Ambulanc will, at its own discretion, take responsibility for safety, reliability and performance of the instrument in one of the following cases：

- any assembly, expansion, readjustment, improvement and repair operations are performed by any professional approved by Ambulanc;
- related electrical equipment is in compliance with national standards;
- the instrument is used in accordance with the operation instructions.

Ambulanc will not be responsible for safety, reliability and operation condition of the product in one of the following cases：

- any component is dismantled, expanded or re-adjusted;
- the instrument is repaired or changed not by any personnel approved by Ambulanc;
- the product is not used correctly in compliance with this Operating Manual.

Maintenance Service

Scope of Charge-Free Service：

- Charge-free service is provided for any equipment in the range of Ambulanc's warranty terms.

Scope of Paid Service：

- Paid service is provided for any equipment beyond the range of Ambulanc's warranty terms.

As well as in one of the following cases even during the warranty period:

- Damage caused by personal fault;
- Improper use;
- Grid voltage beyond the limits;
- Irresistible natural disaster;
- Use of spare part/ consumables not approved or machine service performed by personal not authorized by Ambulanc.

Warning：

Failure to implement a set of satisfactory service/maintenance plan by any hospital or institute responsible for using this instrument may cause malfunction of it or even endanger body health.

Warranty

Manufacturing Process and Raw Material：

Ambulanc warrants that no failure will be resulted from any defect in manufacturing process or raw material when this instrument is used and serviced correctly.

After-Sales Service Unit

After-Sales Service Dept., Ambulanc (Shenzhen) Tech. Co. Ltd.

Address: 3rd Floor, Block C, Building #5, Skyworth Innovation Industry Park, Tang Tou 1st Road, Shiyan Town, Baoan District, Shenzhen 518108, China

Service Hot Line：

Tel：+86-755-26073861 Fax：+86-755-23016012

Web site: http://www.amoulmed.com

E-MAIL: manager@amoulmed.com

Return

Return Procedure

Any return as necessary shall comply with the following procedure:

- Acquire right of return: Contact Ambulanc's customer service, and provide the product ID labeled on external packaging of the instrument, which must be legible for return approval. Indicate product model and describe the reason for return.
- Freight: Any expenses (including customs fee) incurred in transporting the instrument to Ambulanc shall be paid by the user.

Important Information

1. After purchase of the product, the customer shall take full responsibility for maintenance and management of it.
2. Quality assurance will not cover the following even during the warranty period：

- any damage or loss resulted from improper use or misuse of the product;
- any damage or loss caused by force majeure such as fire, earthquake, flood or lightning;
- any damage or loss attributed to failure to meet any operating condition required for the system, such as insufficient power supply, improper installation or unfavorable environmental conditions;
- any damage or loss incurred due to use of the system in the region not initially intended for it; and
- any damage or loss caused due to purchase from any unauthorized dealer or agent.

3. This equipment can be used only by certified medical staff.
4. Any software or hardware of this product must not be changed or modified without authorization.
5. In any case Ambulanc will take no responsibility for problem, damage or loss resulted from re-installation, change or repair of the system performed not by personnel authorized by Ambulanc.
6. This system is intended to provide the data required for clinical diagnosis for physicians. The physician takes responsibility for diagnosis process. Ambulanc takes no responsibility for any diagnosis process.
7. Be sure to back any key data to external storage medium, such as clinography and notes.
8. Ambulanc takes no liability for loss of data stored in the system due to

the operator's fault or any exceptional condition.

9. This manual contains warnings for foreseeable potential hazards. User shall keep watch at any time for any hazard not stated in the manual. Ambulanc takes no responsibility for damage or loss resulted from negligence or failure to observe the preventive measures stated in this manual.
10. This manual must be handed over to the successor when the system administrator is changed.

1 Safety Instructions

Please read these safety instructions carefully. These safety instructions are an integral part of the equipment and must be kept accessible for review whenever necessary. For purpose of safety, the following information must be paid attention to.

1.1 Warning、Attention and tips

The following safety marks are used in this manual:

⚠**Warning**：

Indicating any risk of harm to patient and/or user.

⚠**Attention**：

Indicating potential equipment damage and undesired treatment effect.

⚠**Tips**：

Giving useful indicative information.

1.2 Overview

- A functional inspection must be performed before use of the equipment (refer to Section 8.1 - Regular check).
- Please observe the instructions in Section 6 - Sanitary treatment to prevent infection or bacillosis.

⚠**Warning**：

- 【After the training】You can operate E6 only after you have been provided with proper medical training and technical guidance on cardiopulmonary resuscitation equipment. Improper use of it may cause serious injury to body.
- [Fire] Do not use E6 in an oxygen-rich environment or with flammable or flammable anesthetics.
- [Scope of Application] Only use E6 for the intended purpose (see "2.1

Scope of Applicaion").

- [Maintenance Qualification] Only the manufacturer Ambulanc (Shenzhen) Tech. Co., Ltd. or its authorized professionals can perform maintenance measures.
- [Do not open] Do not open the E6 shield. Do not replace or modify the external or internal parts of the E6.

Note:

- [Other devices] When E6 is used simultaneously with devices that emit high-frequency radiation, (for example, mobile phones, radios) must be kept at a distance of more than 1 m, otherwise it may cause dysfunction.
- [External Power Supply] When using an external power supply to power the cardiopulmonary resuscitation machine, always connect it to a simple-swap interface so that it can be quickly removed in the event of a malfunction.
- [External Power Supply] When using an external power supply to power the cardiopulmonary resuscitation machine, make sure that the power cord is not caught or obstructed. Do not use an external power source when it is not necessary, but use the battery inside the cardiopulmonary resuscitation machine.
- [Liquid] Do not immerse the E6 in a liquid. If liquid enters the hood, it will cause damage to the equipment.

1.3 Software

- A large number of quality assurance measures have been taken in the development of the device software, and the risk due to software defects is minimal.

1.4 Accessories / spare parts

Note:

- [Preventing exposure] Take measures to prevent silica gel and rubber parts from being exposed to ultraviolet light and long-term direct sunlight, otherwise these parts will be embrittled.
- [Use only approved accessories] Using accessories from other manufacturers can cause malfunctions and incompatibilities. Please keep in mind that in these cases the rights and responsibilities of the warranty

will be void: using the accessories not recommended in the instructions or not using the original spare parts.

1.5 Symbol Description

Description ICONS and symbols

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	Refer to the document attached for more details details		Refer to the operating instructions for more
	Date of production		BF type applications
	Do not reject into dustbin	IP 43	Degrees of protection provided by enclosures
	Refer to the document attached/manual		Non-ionizing radiation
	Power supply by adapter battery		Main Unit Switch
	Battery level indication		Power supply by
	The product contains some hazardous substance. Use it at ease in the eco-friendly service life but put it in the recovery cycle system after it is beyond the eco-friendly service life which is 20 years.		
	It conforms to EU Medical Devices Directive 2007/47/EC and meets CE symbol in basic requirements in Appendix I of the Directive.		

1.6 Battery

Warning:

- [Battery Low] When a low battery alarm occurs, do one of the following:
- Replace the battery with a fully charged battery.
- Connect an external E6 power supply.

Note:

- Please pause or turn off the machine when replacing the battery

1.7 Operation

Warning:

- [Unsatisfactory position] If the E6 cannot be safely and correctly placed on the patient's chest, perform an manual cardiopulmonary resuscitation again.
- [Incorrect position on the chest] If the relative position of the compression pad to the sternum is incorrect, it will increase the risk of damage to the chest and internal organs. It also affects the patient's blood circulation.
- [Change in position during operation] If the position of the pressing disc changes during operation or defibrillation, adjust the patient position and reposition it. Always use the E6 stabilizer strap to help ensure the correct position.
- [ECG interference] Chest compression can interfere with ECG analysis. Press Pause first before starting the ECG analysis. Reduce interruption time as much as possible. Press Start to restart pressing.
- [Electric Shock] If the external power cord (optional accessory) is damaged, remove it and replace it immediately to avoid electric shock or fire hazard.
- [Keeping Care] Never leave the patient or E6 machine during cardiopulmonary resuscitation. Only then can you respond quickly when the patient's condition deteriorates or the cardiopulmonary resuscitation machine fails or alarms. A slow response from a medical professional can result in serious bodily injury.
- [Fault] If an interruption occurs during operation, or the press becomes insufficient, or an abnormal condition occurs: Press the On/Off key for 3 seconds to stop E6 working and remove the device from patient. Begin manual chest compressions.

Note:

- [Defibrillation Electrodes] Position the defibrillator electrodes and wires so that they are not under the suction cup. If the electrode already exists on the patient, make sure it is not under the suction cup. If it is under the suction cup, a new electrode must be used.

- [Gel is present on the chest] If there is a gel on the patient's chest (for example, when used for an ultrasound examination), the position of the pressing disc changes during use. Remove all gels before placing the suction cup.
- [Application Stabilizer] If the E6 Stabilizer Band is used to prevent or delay any treatment for the patient, the device should be deferred.
- [Auxiliary Therapy] Using other medical devices or drugs with E6 will affect the treatment. For other devices and/or drugs, be sure to refer to their Instructions for Use to ensure they are suitable for use with CPR.
- [Keep your hands away] Do not place your hands on or under the press pad while the E6 is running. Keep your hands away from the lock when attaching the upper part or lifting the patient.
- [Vein Path] ensures unobstructed venous access.
- [Do not block the vent hole] Do not block the vent hole under the hood, as this may cause the device to overheat.
- [Device Alarm] If any malfunction occurs during operation, the alarm light will illuminate and an alarm will sound. See section 7.3 for troubleshooting.
- [Do not use the strap to lift the patient] Do not use the strap to lift the patient. The strap is only used to secure the patient to the E6.
- [Skin burns] The temperature of the cover and battery may rise above 118°F / 48°C. If it is too hot, do not touch it for a long time to prevent skin burns. The patient strap is removed from the patient's hands.

2 Device Description

2.1 Scope of application

The E6 cardiopulmonary resuscitation machine is used for chest compressions in patients with acute cardiac arrest (ie, loss of spontaneous breathing and pulse beats and loss of consciousness).

2.2 Contraindications

Do not use the E6 cardiopulmonary resuscitator machine when:

- E6 machine cannot be placed safely or correctly on the patient's chest.
- Patient is too small: E6 can not complete auto positioning, or after positioning completed when pressing starts, the machine alarms "insufficient pressing depth" by message and voice prompts.
- The patient is too large: The upper part of the E6 cannot be locked to the back panel without pressing the patient's chest.

When using E6, be sure to follow local and international guidelines for cardiopulmonary resuscitation.

2.3 Side effects

The International Resuscitation Liaison Committee (ILCOR) stated that cardiopulmonary resuscitation has the following side effects:

"In view of death from cardiac arrest, rib fractures and other injuries are common and acceptable outcomes of cardiopulmonary resuscitation. After resuscitation, all patients should be reassessed to determine if there is any recovery-related injury."

In addition to the above symptoms, chest embolism and pain are common in the use of the E6 cardiopulmonary resuscitation machine.

2.4 User Qualification

Persons using E6 must be verified to have the following conditions:

- Operators with medical technology, such as: first responders, rescuer, nurses, physicians or medical staff;

- Trained for clinical application of E6 approved by Ambulanc (Shenzhen) Tech. Co., Ltd.;
- Learned CPR courses in accordance with the guidelines of American Heart Association, the European Resuscitation Council, or similar guidelines

Improper use can cause serious injury to people (operators and patients).

2.5 Structural composition

The main structural components of the E6 cardiopulmonary resuscitation machine include:

- Back plate, located under the patient to support chest compression
- The upper part, which includes a rechargeable E6 battery and a compression mechanism with a single suction cup
- Stabilizing belt, to help secure the unit to the patient
- Carrying case

Ambulanc (Shenzhen) Tech. Co., Ltd. has designed the E6 as a complete component for cardiopulmonary resuscitation.

2.6 Components description

Fig. 1 E6 Components

Components	
1 Carrying bag	2 Host

3 External battery charger (optional)	4 Battery
5 Power adapter	

2.7 E6 host description

2.7.1 Host – front view

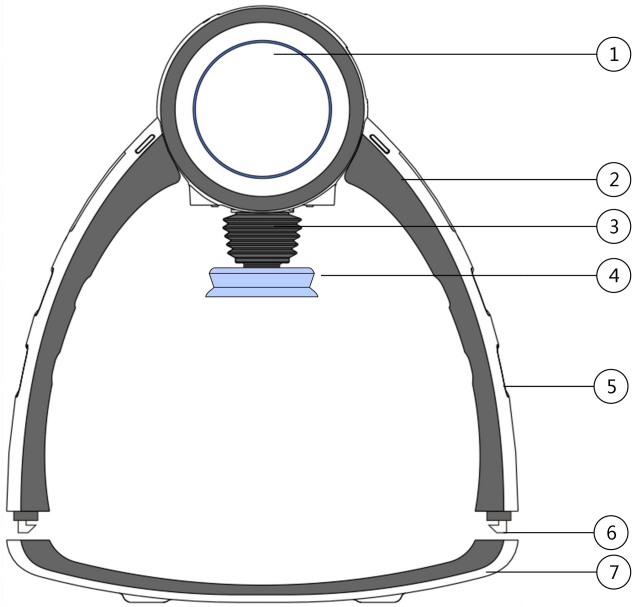


Fig. 2 Host (front view)

Parts	
1 Host shell	2 The top-loading section
3 Bellow	4 Suction cup
5 Machine leg	6 Lock catch
7 Back plate	

2.7.2 Host – side view

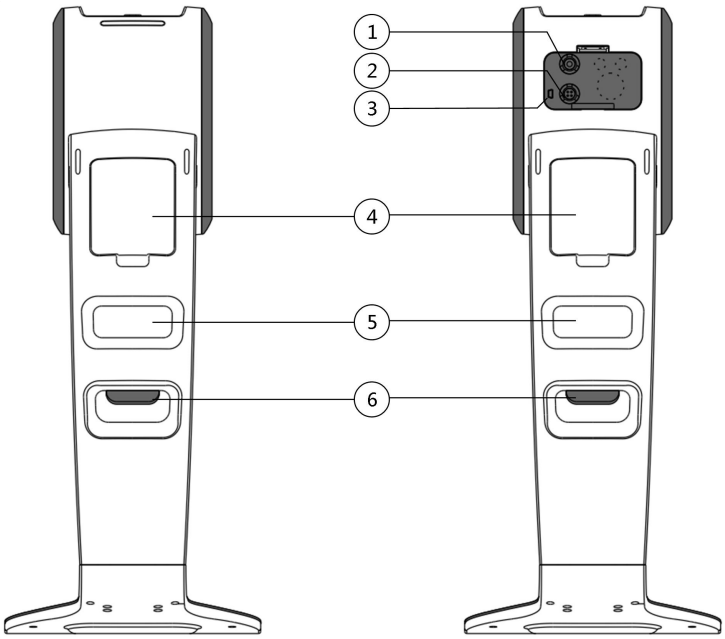


Fig. 3 Host (side view)

Parts	
1 $EtCO_2$ port	2 External power port
3 miniUSB port	4 Battery
5 Gripper hole	6 Lock catch

2.7.3 Host – up view

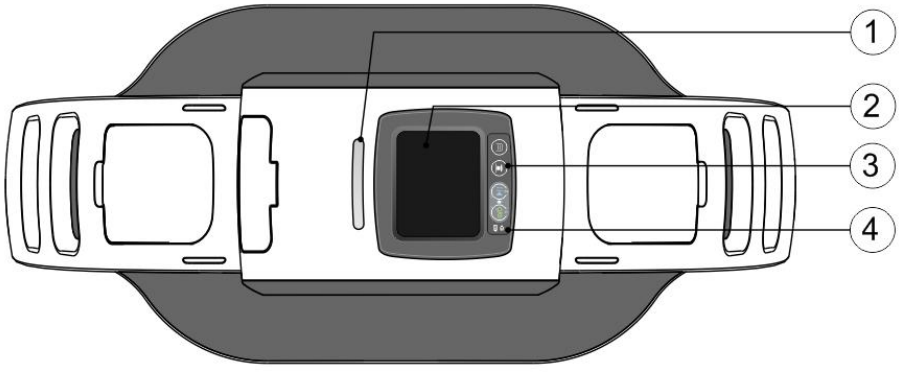


Fig. 4 Host (up view)

Parts	
1 Alarming light	2 Touch screen

3 Power on/off button	4 Battery indicator

2.7.4 Host – bottom view

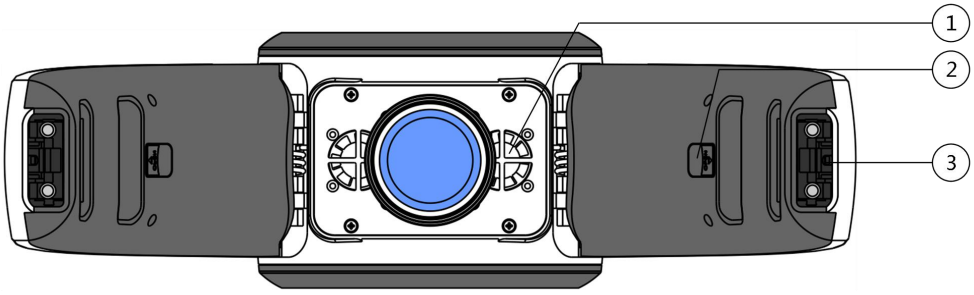


Fig. 5 Host (buttom view)

Parts	
1 Air hole	2 Battery button
3 Lock catch	

3 Interface

3.1 Main interface

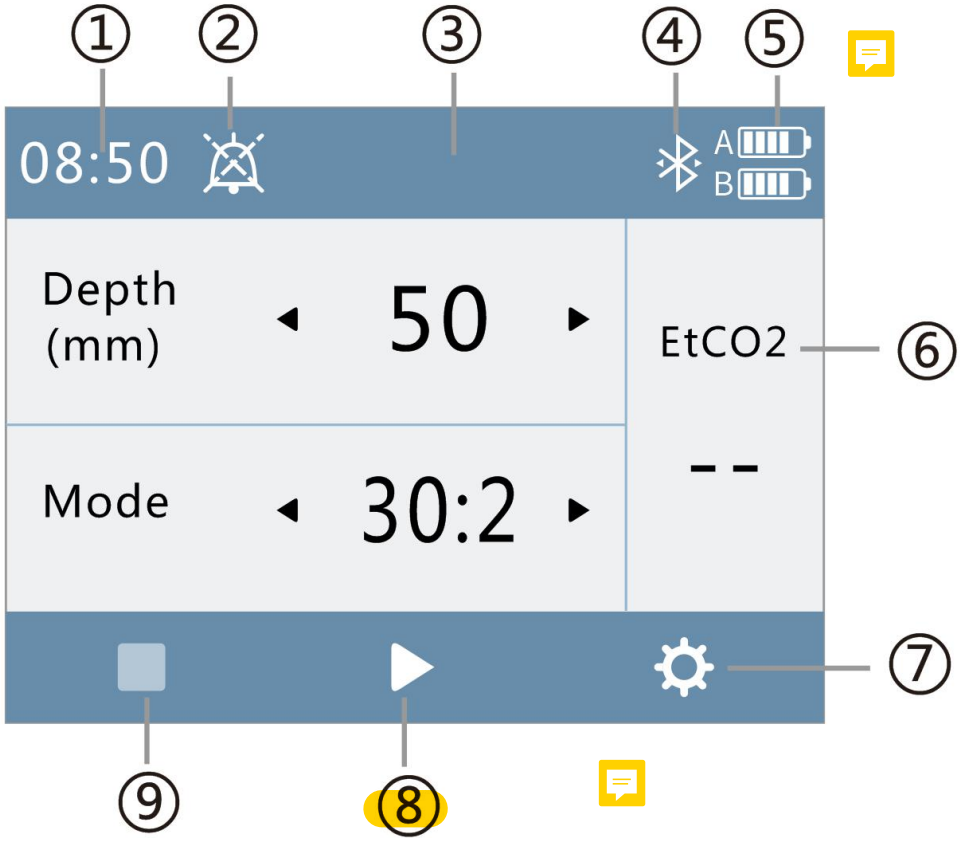


Fig. 6 Main interface

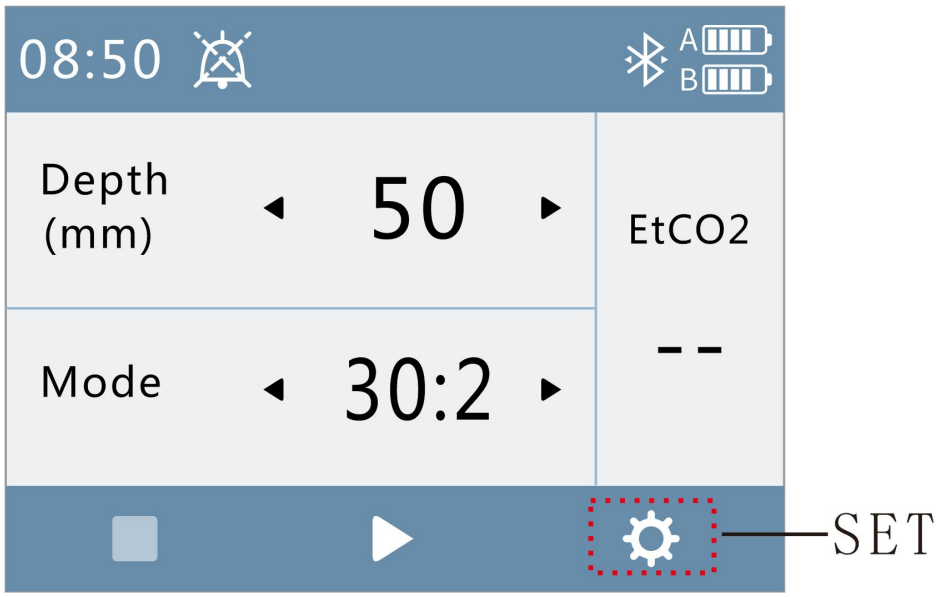
Interface	Description
1 Time	Shows the current time
2 Alarm Mute Icon	Displays the current alarm/mute status
3 Alarm/Prompt Information Area	If any fault occurs during operation, the alarm light will be on
4 Bluetooth	Displays Bluetooth function.
5 Battery Indicator	Displays the current battery (2 batteries)
6 EtCO2	Displays CO2 value.
7 Setting	Access the system settings interface
8 Pause	Pause or start pressing

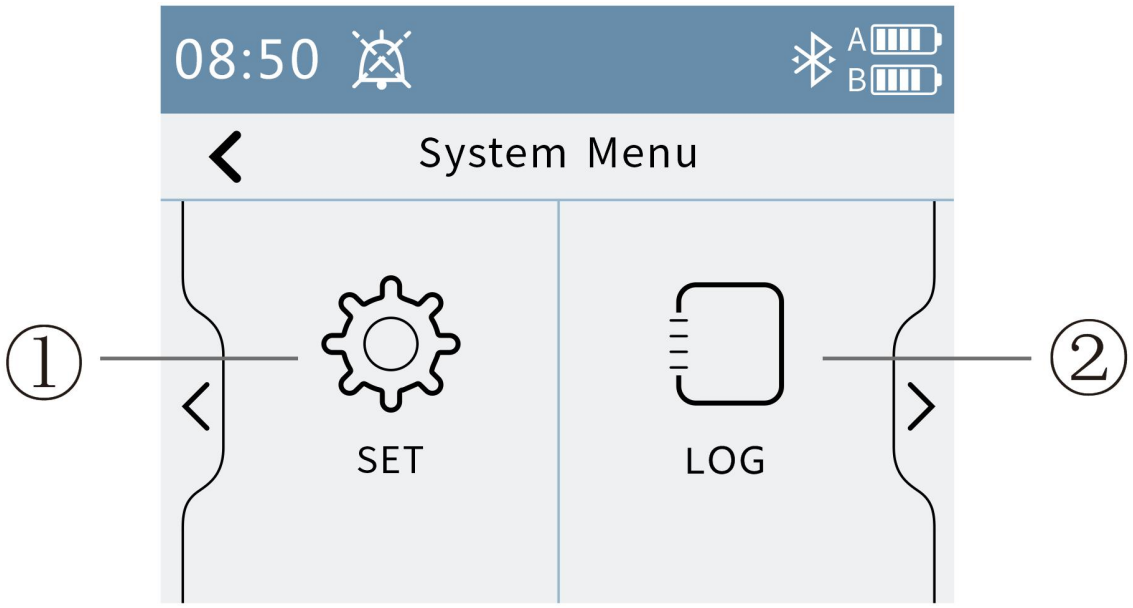
9 Stop	Stop pressing and return to the initial position

3.2 Function Menu Description

After the positioning is completed and the pressing depth is set, you can enter the menu interface by pressing the button .

In the menu interface, you can set system parameters, view alarm log, configure peripheral module on/off, set time, enter maintenance, and view local information. Press "Exit" button to exit menu setting interface (menu interface as shown below) .





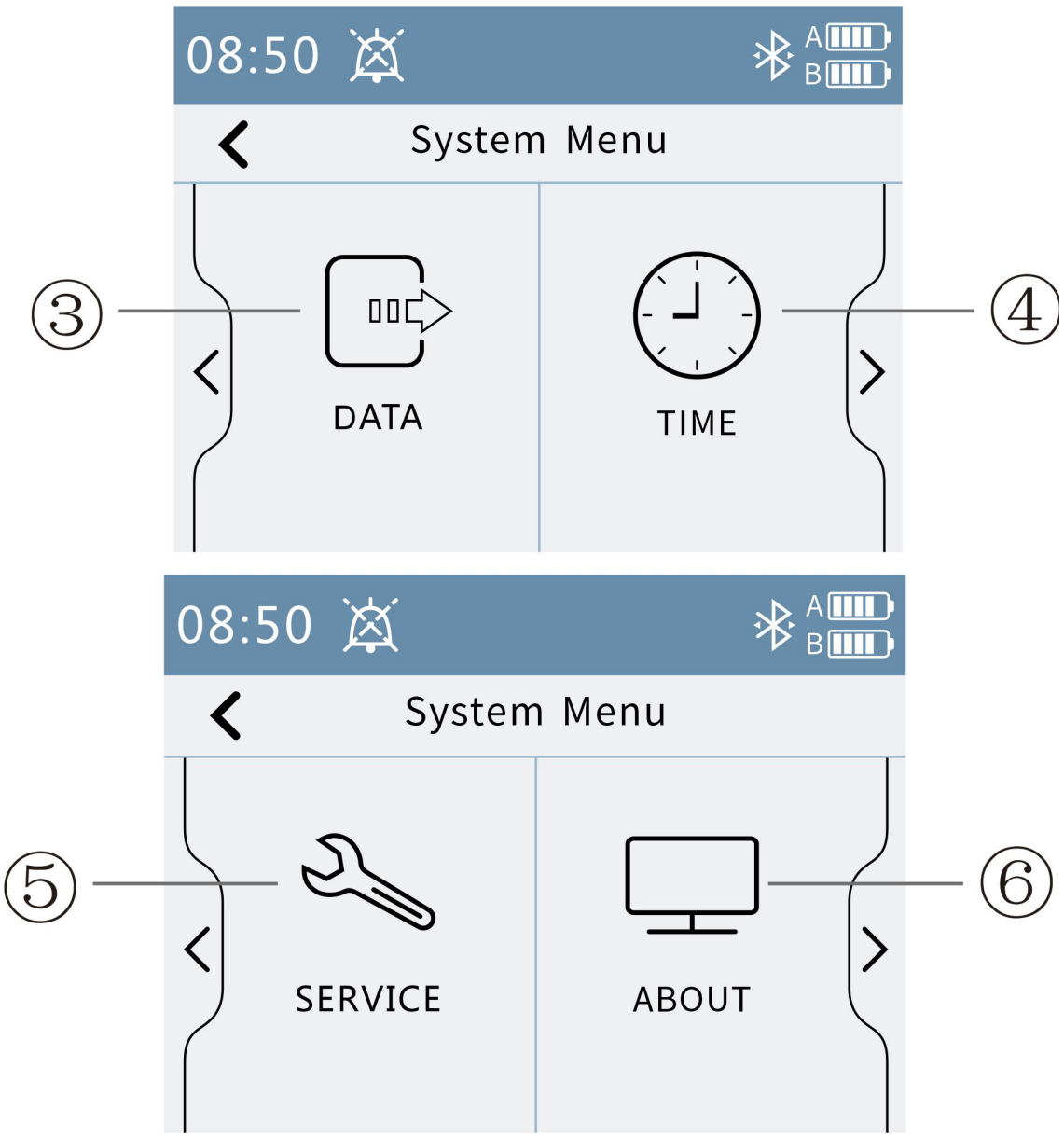


Fig. 7 Setting interface

Function	Description
1 System setting	Set system parameters
2 Alarm log	View alarm information
3 Data transit	Bluetooth and WiFi data on and off
4 Time	Set current time
5 Maintainance	Perform password modification and displacement sensor calibration
6 About host	See the host software version

3.2.1 System setting

The system settings page is shown below.

1. Press the Back button to return to the menu interface.
2. Press "<" ">" in the "Language" column to switch between languages.
3. Press "<" ">" in the "Volume" column to adjust the voice volume.

   Volume adjustable range : 0~7 level, when adjust the voice volume to 0 level, the mute icon is displayed.

Note:

When the voice volume is 0 level, there is no alarm sound, you need to pay attention to the alarm information.

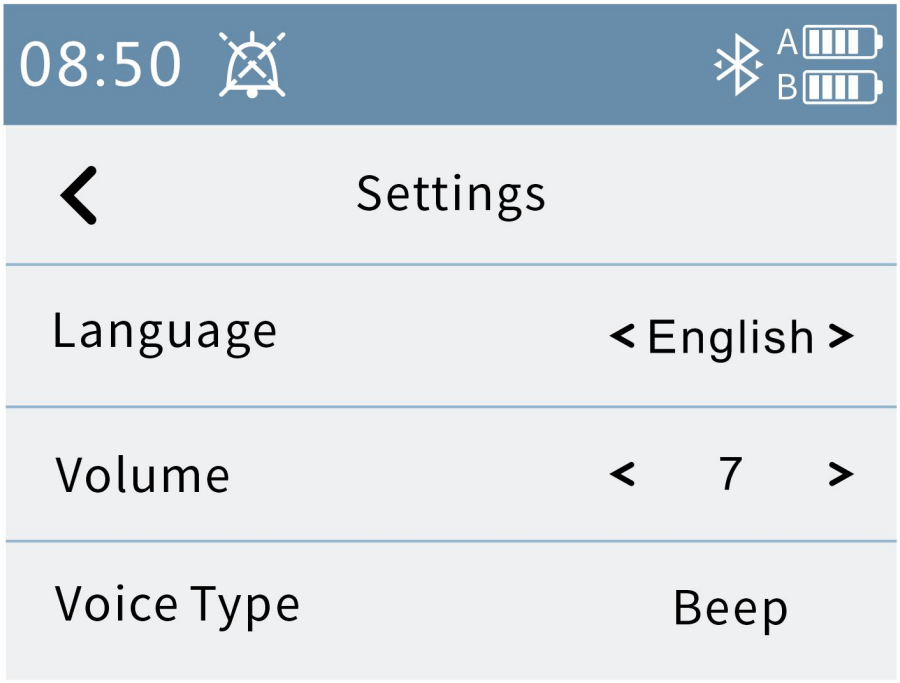


Fig. 8 System settings

3.2.2 Alarm log

The alarm log interface is shown below.

1. Press the Back button to return to the menu interface.
2. Press the button to scroll up the alarm information and support long press to scroll through pages.
3. Press the button to scroll down the alarm information and support long press to scroll through pages.

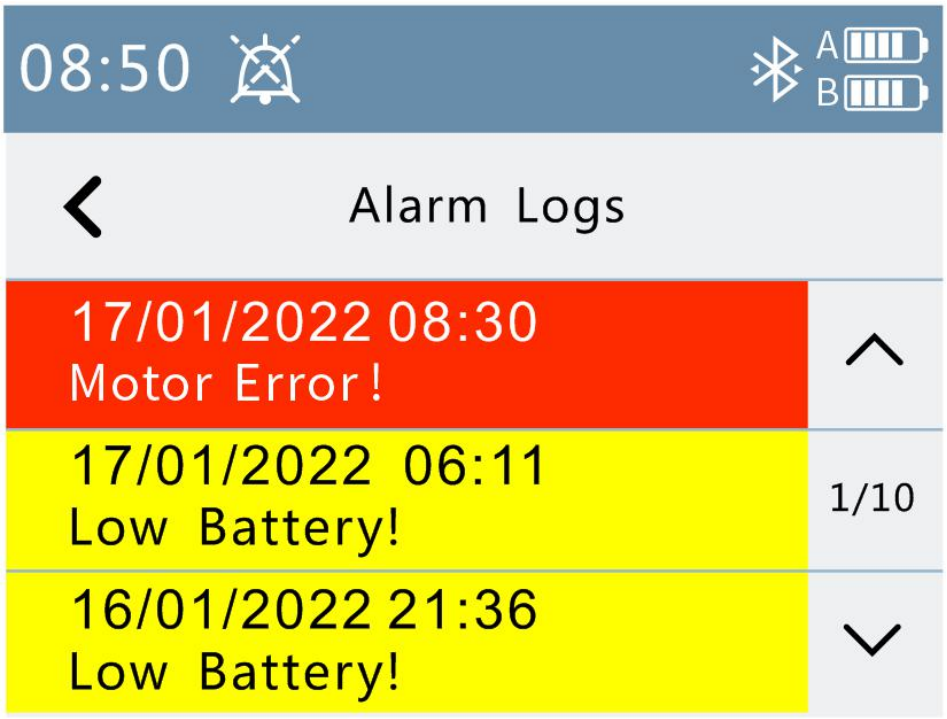


Fig. 9 Alarm log

3.2.3 Data transit

The data transfer interface is shown below.

1. Press the Back button  to return to the menu interface.
2. Press the switch button in the "Bluetooth" bar to open or close the Bluetooth module.

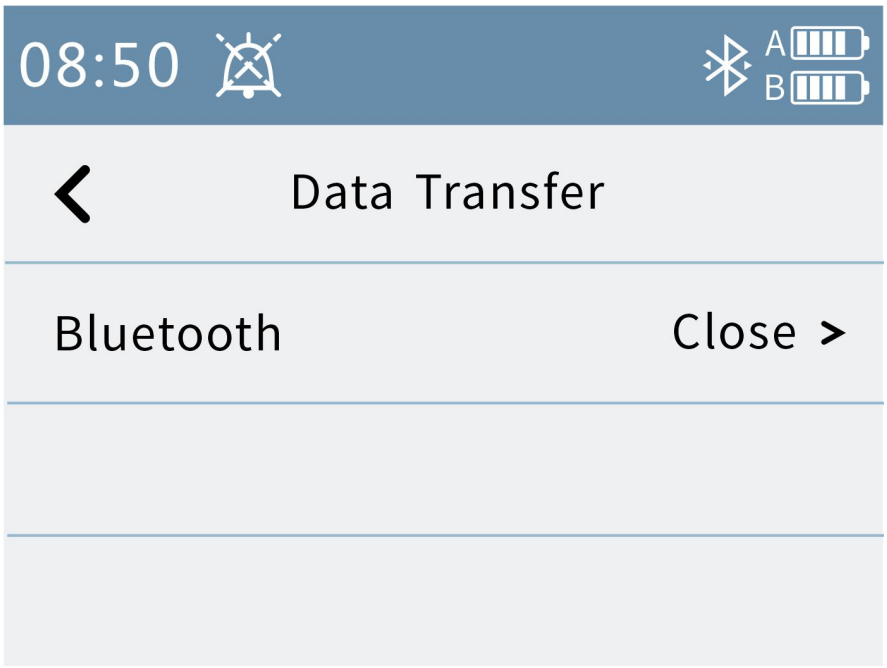


Fig. 10 Data transmission

3.2.4 Time

The time calibration interface is shown below.

1. Press the Back button < to return to the menu interface.

2. “Time” label displays gray when unmodified, and highlights when modified; press “Save” button, the label turns gray if saving is successful, or the label turn red when saving failed.

3. Press the "Save" button to save the set time.

4. Press the “+” button, the corresponding number is increased by one, and the long press scroll operation is supported.

5. Press the “-” button, the corresponding number is decremented by one, and the long press scroll operation is supported.

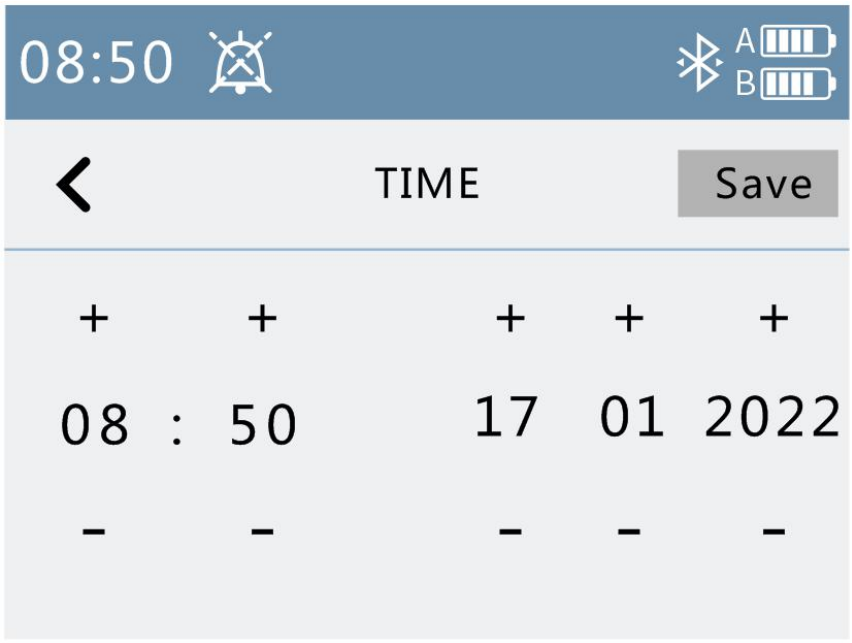


Fig. 11 Time

3.2.5 Maintainance

The maintenance interface is shown below.

1. Press the Back button < to return to the menu interface.

2. Enter the password and press the Enter key to enter the maintenance mode; if the password is entered incorrectly, the red font “Password Error” will be displayed. After entering the maintenance mode, the machine will stop pressing. The factory initialization password is six zero "000000".

3. After entering the maintenance interface, the interface is as shown below.

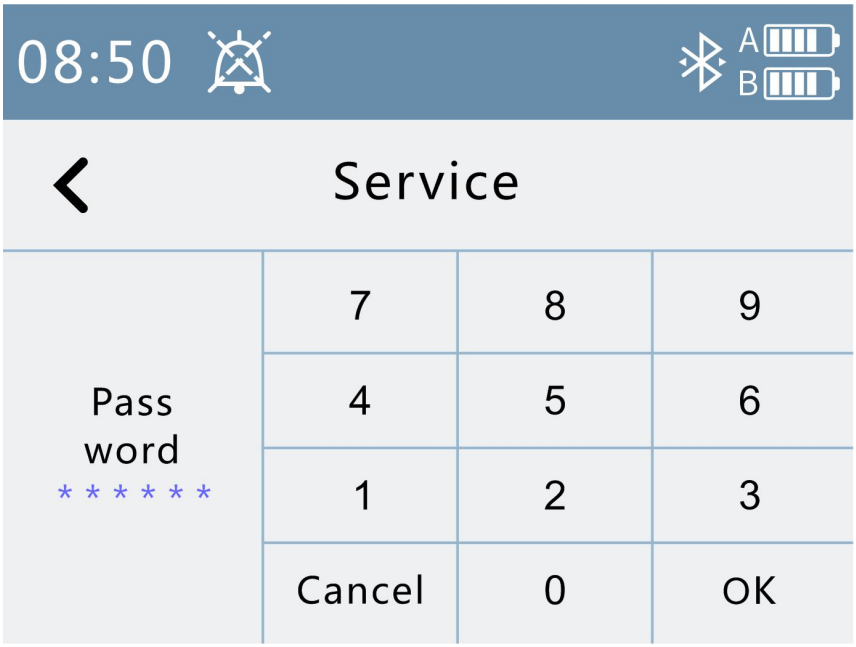


Fig. 12 Maintainance

4.Press the "Change Password" column to enter the password modification operation.

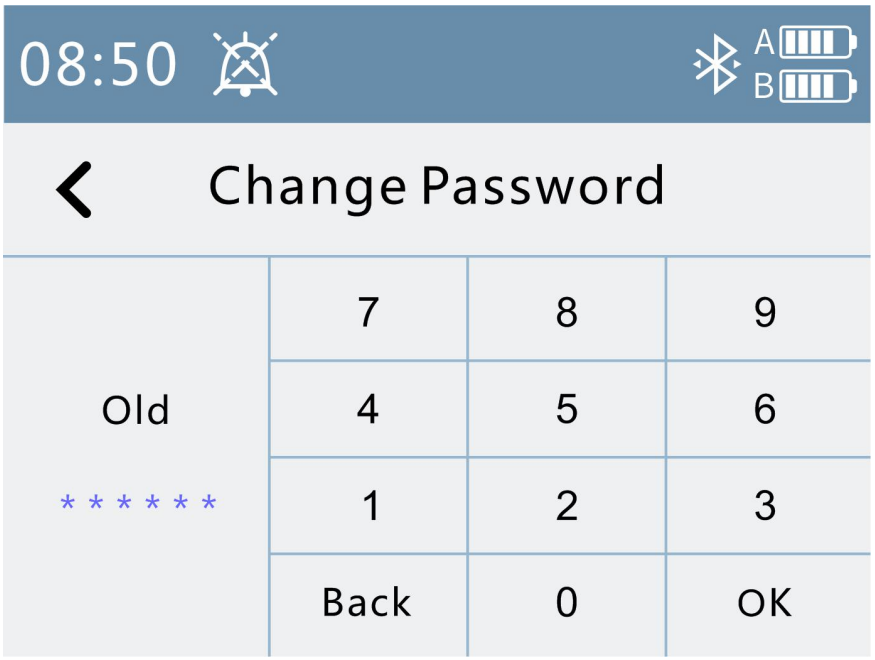


Fig. 13 Change password

5.Press the "Displacement Sensor Calibration" column to enter the displacement sensor calibration operation. The displacement sensor calibration interface is shown below.

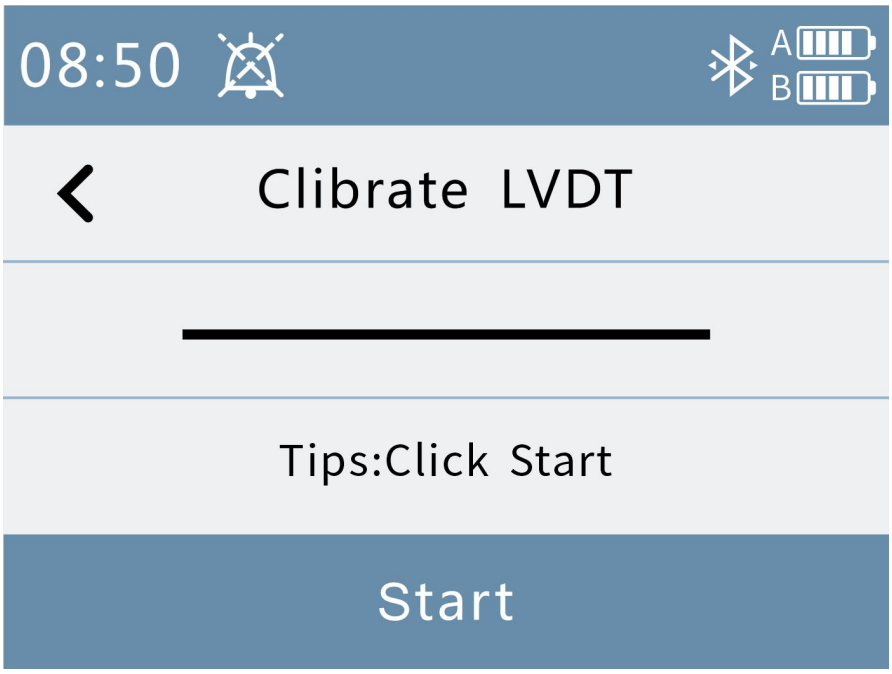


Fig. 13 Calibration

6.When the pressing depth is not correct, press the "Start" button of the displacement sensor calibration interface to perform the automatic calibration of the displacement sensor. Be sure that there is no obstacle under the compressing head during automatic calibration! Other operations of the calibration interface are not supported after calibration begins.

7.Press the Back button in the calibration interface to return to the automatic positioning interface.

3.3 Alarm information bar

The alarm information bar interface is shown below.

1. When an alarm occurs, the alarm bar will display an alarm message accompanied by a voice prompt.

2. Press the mute button in the alarm bar, all alarm voices are muted for 120s, and the normal alarm is restored after 120s.

3. Press the alarm message area and the Alarm drop-down list will appear, which shows all the information that is being alerted.

4. There is a reset button " " after the alarm drop-down list. After pressing this button, the corresponding alarm information is blocked. You must press it again to reactivate.

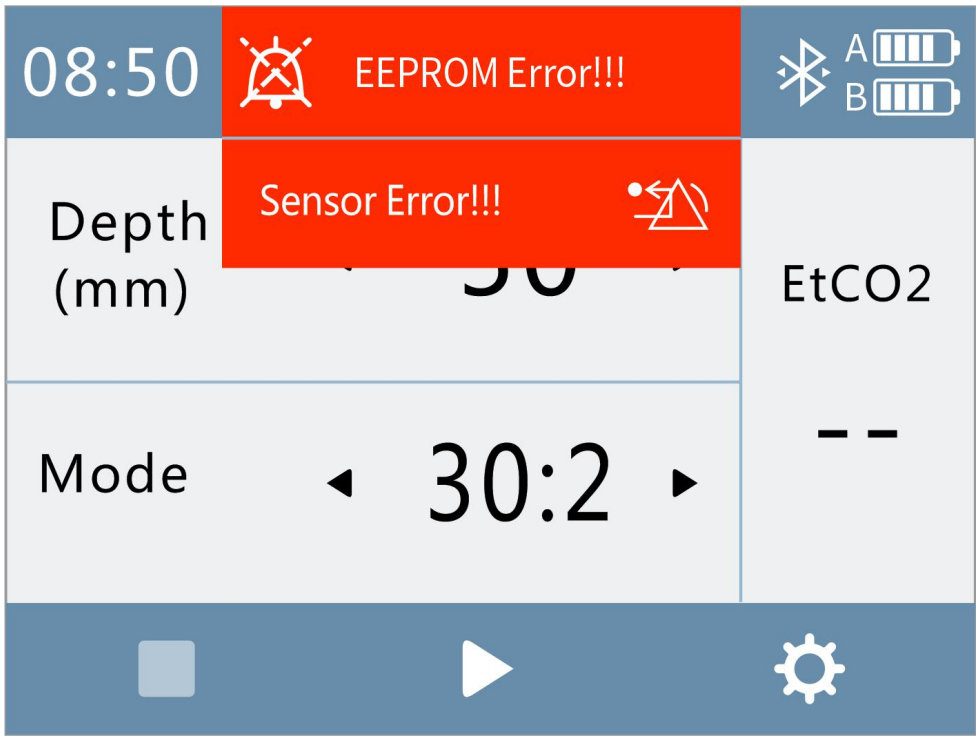


Fig. 15 Alarm information bar

4 Installation

4.1 Packing list

E6 Cardiopulmonary Resuscitator is packed in a single carton, including:

S/N	Description	Qty (PCS)
1	E6 machine （upper part and back board）	1
2	Suction cup	2
3	Carrying case	1
4	《user's manual》	1
5	Rechargeable battery	2
6	Patient stabilizing belt	1
7	Patient fixing belt	2
8	Power adapter	1

Accessory (optional) :

S/N	Description	Qty (PCS)
1	Suction cup	/
2	External battery charger	/
3	Rechargeable battery	/
4	Power adapter	/
5	Mainstream $ETCO_2$ module	/

Prepare the carrying case (as shown below):

1. Insert a fully charged E6 battery into the battery slot on the E6 leg.

2. Make sure the suction cup is installed correctly.

3. Place the upper part in the carrying case. Note that the main unit is facing as shown below.

4. Place the adapter in the appropriate position on the attachment stand between the E6 legs.

5. Place the battery charger and spare battery (optional) E6 battery in the appropriate position of the accessory holder.

6. Place the patient stabilizing belt in the covered bag.

7. Place the spare suction cup in the bag of the cover.
8. Place the backing plate in the covered compartment bag.
9. Load the User's Guide into the pocket.
10. Close the carrying case.

Fig. 16 Carrying case

Carrying case	
1 Host	2 Battery
3 Charging base	4 Adapter
5 User manual	6 Pocket
7 Back plate	

4.2 Battery installation

The lithium polymer battery is a dedicated power supply for the E6. You can remove the battery from the E6 and charge it.

The E6 and battery in the battery charger are mechanically keyed to ensure they are properly installed. The top of the battery has a power connector and a communication port to the battery charger and E6. (As shown below)

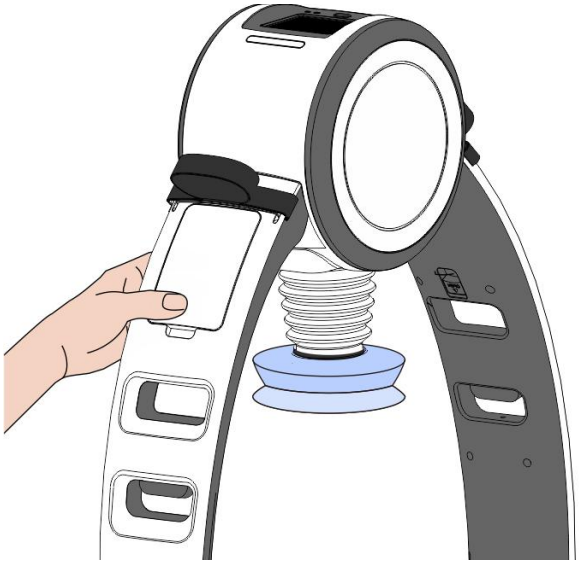


Fig. 17 Battery install

4.3 Fixing belt install

Attach the fixing belt to the E6 legs before using the E6. (As shown below)

1. Attach the fixing belt to the leg with the mounting hole.

2. Stick to the Velcro.

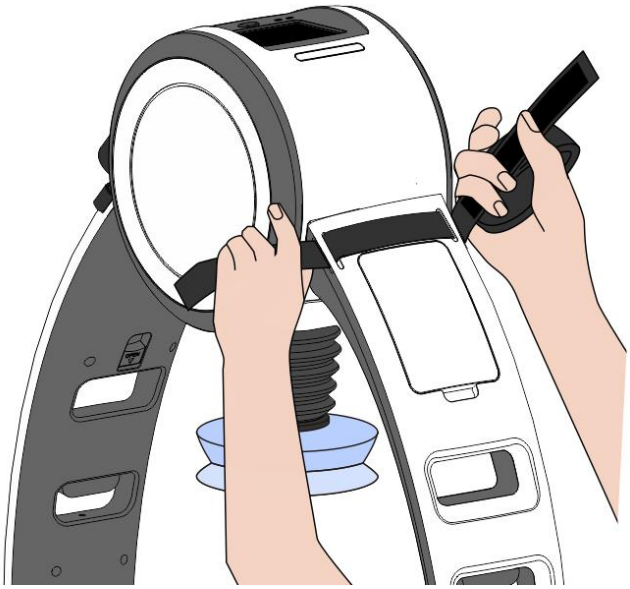


Fig. 18 Fixing belt install

4.4 Stabilizing belt install

Attach the leg straps (part of stabilizing belt) to the E6 legs before using the E6. (As shown below)

1. Wrap the leg straps around E6 leg.
2. Fasten the buckle on the inside of the leg.

Fig. 19 Stabilizing belt install

4.5 $EtCO_2$ install (optional)

If an optional EtCO2 module is available, it can be connected to the corresponding breathing circuit as shown below.

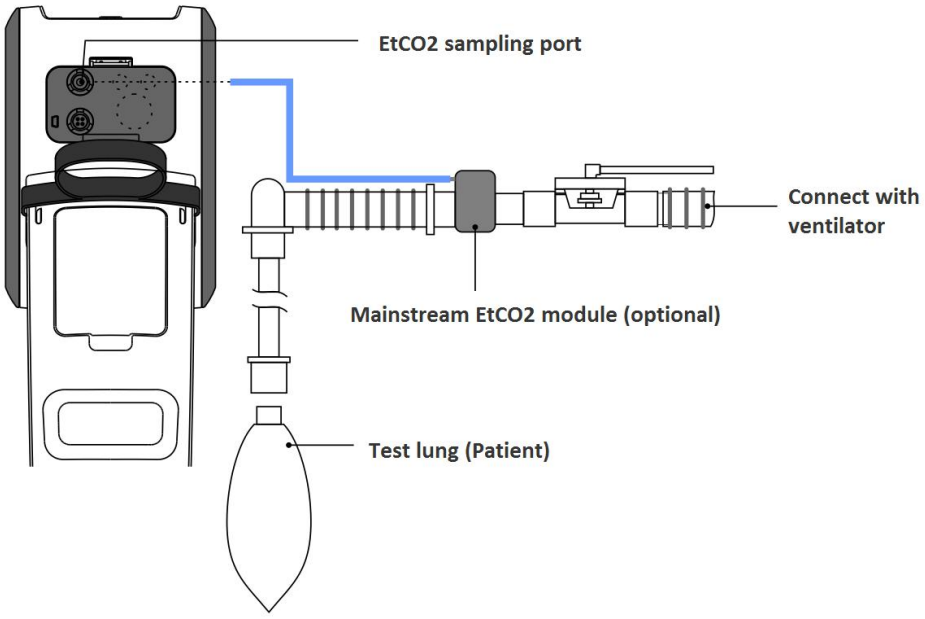


Fig. 20 EtCO2 install

5 Operation

5.1 Arrive at the scene

When you confirm a patient's cardiac arrest, start cardiopulmonary resuscitation (CPR) rescue immediately. Try to ensure uninterrupted operation.

5.2 Unpacking

1. Lower the carrying case so that the top is close to you.
2. Pull the carrying case zip open and open the carrying case cover.

5.3 For patients

1. Remove the E6 backplane from the carrying case.

Fig. 21 Remove back plate

2. Stop manual CPR
3. Make sure to support the patient's head.
4. Carefully place the E6 back plate under the patient (new the armpit). Do one of the following:

   a) hold the patient's shoulder and lift the patient's upper body slightly;

   b) Turn the patient from side to side.

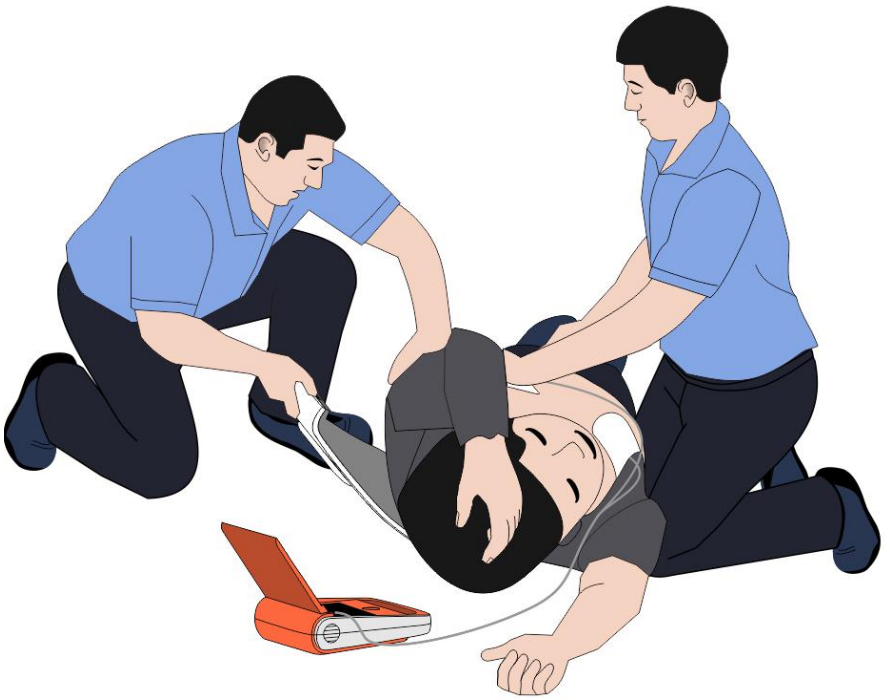


Fig. 22 place the back plate

Tip: The correct position of the back plate will make it easier to place the suction cup more quickly and correctly.

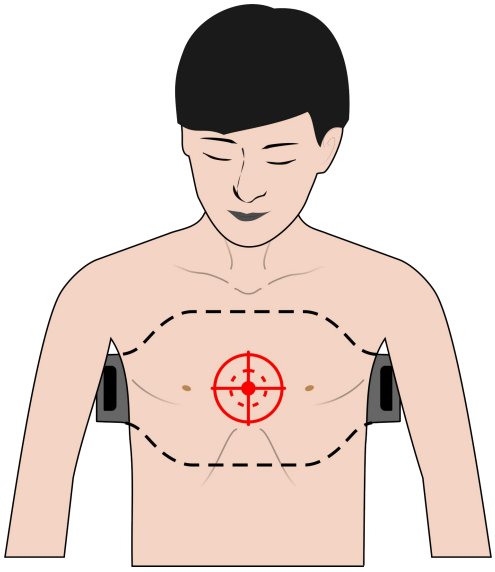


Fig. 23 Back plate position

5. Re-start manual CPR
6. Grasp the legs as shown below to remove the E6 upper part from the bag.

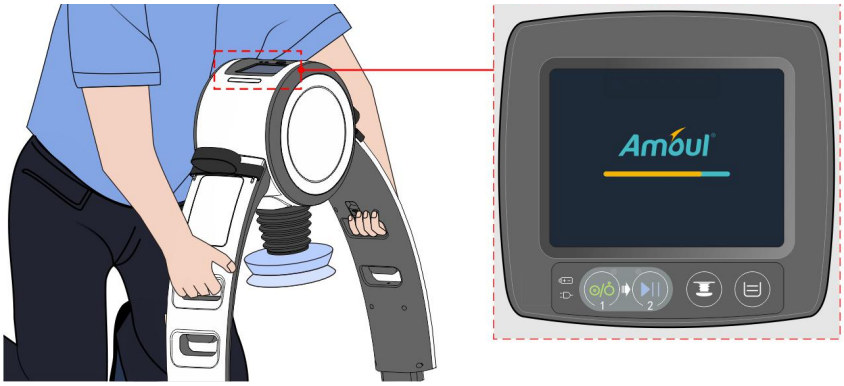


Fig. 24 Remove upper part

7. After removing the upper part, press the "On/Off" button to activate the device in advance to save boot time, and move close to the patient.

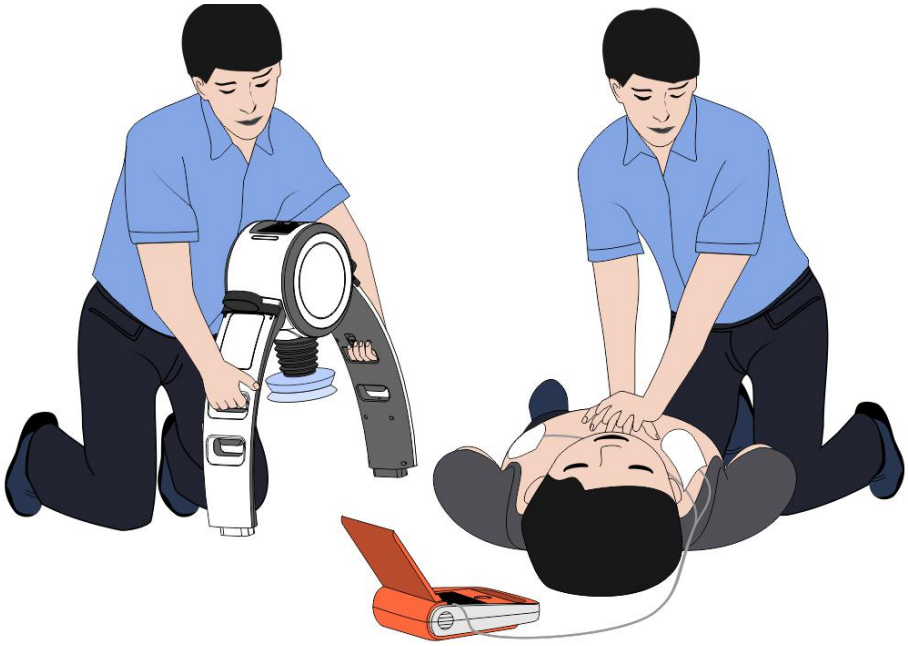


Fig. 25 Start device in advance

8. Stop manual CPR
9. After aligning the leg locks with the back panel latch slots, insert the UPPER part into the back plate and you will hear a click.

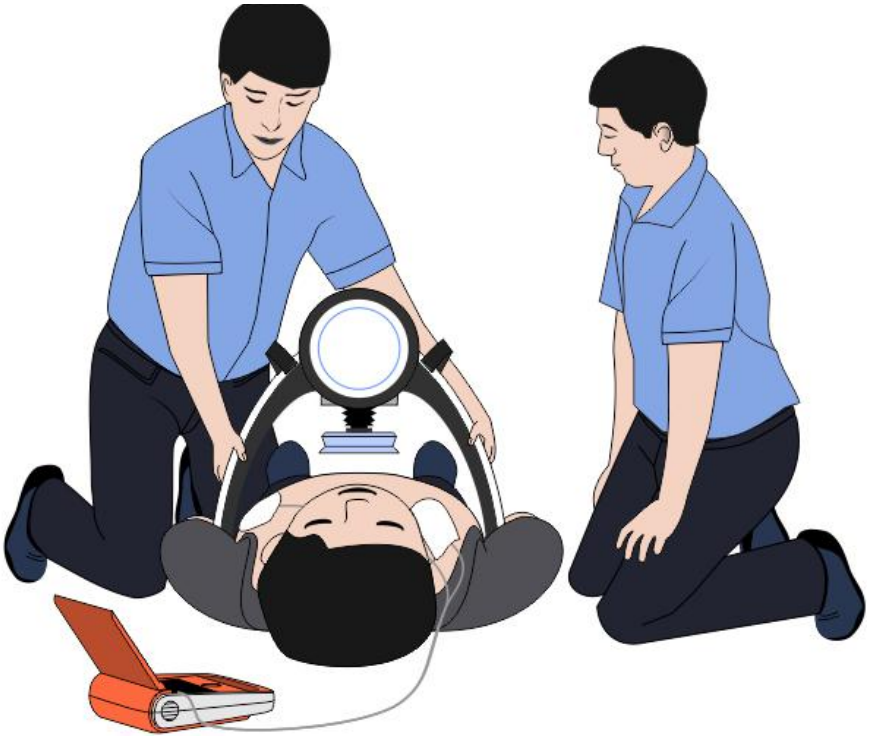


Fig. 25 Install

10. Pull up once to make sure the parts are connected correctly.

Note:

- [Pull up and confirm the grip position] When lifting up, please note that the position where the hand is placed is the upper gripper hole without the lock button, so as not to loosen the lock.

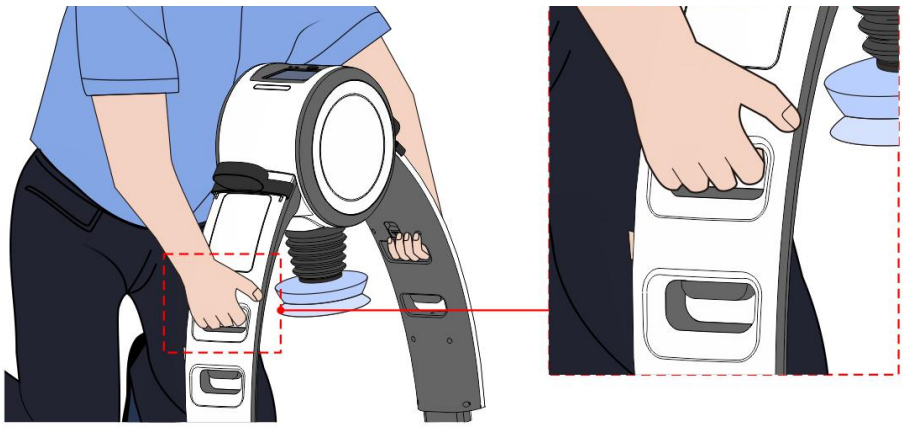


Fig. 27 Hand holding postion

Warning :

- [Patient too large] If the patient is too large, the upper part of the E6 cannot be locked to the back panel without pressing the patient's chest. Please abandon using the E6 under such case and continue manual CPR.

5.4 Adjust and start pressing

The compression point should be the same as the manual cardiopulmonary resuscitation position and should meet the guidelines.

The center position of the suction cup should be in the middle between the patient's nipples.

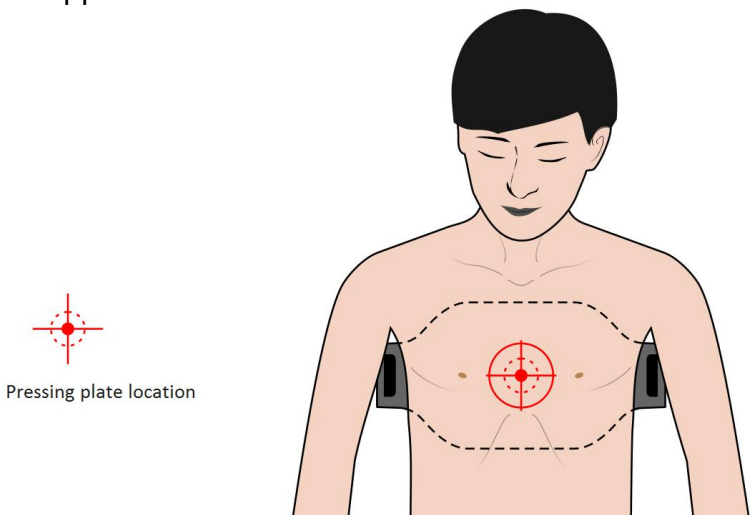


Fig. 28 Suction cup position

Warning :

- [Incorrect position on the chest] If the relative position of the suction cup and the sternum is incorrect, the risk of damaging the chest and internal organs will increase. It also affects the patient's blood circulation.

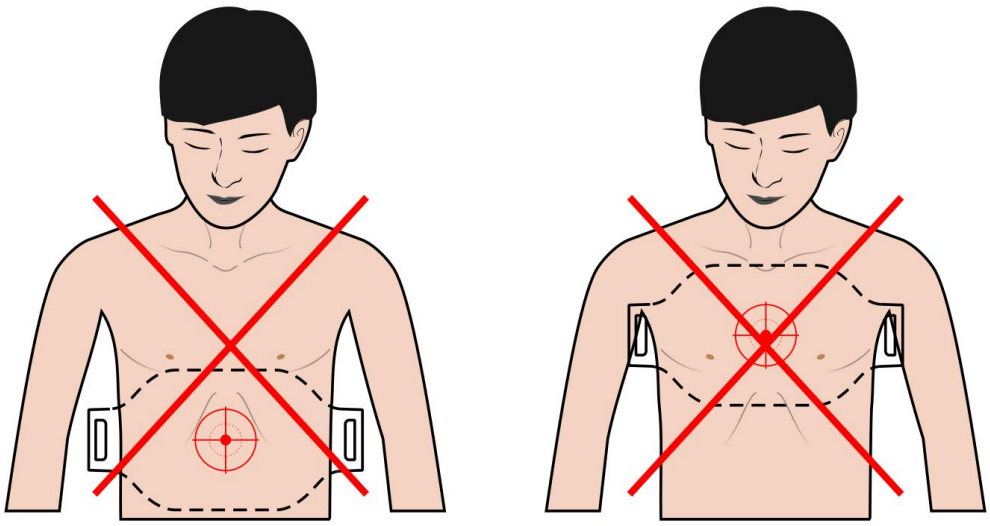


Fig. 29 Suction cup wrong position

1. Make sure the center of the suction cup is in the correct position by hand. If necessary, move the device by pulling the legs to adjust the position.

2. Press the "◀" "▶" button to set press deep.

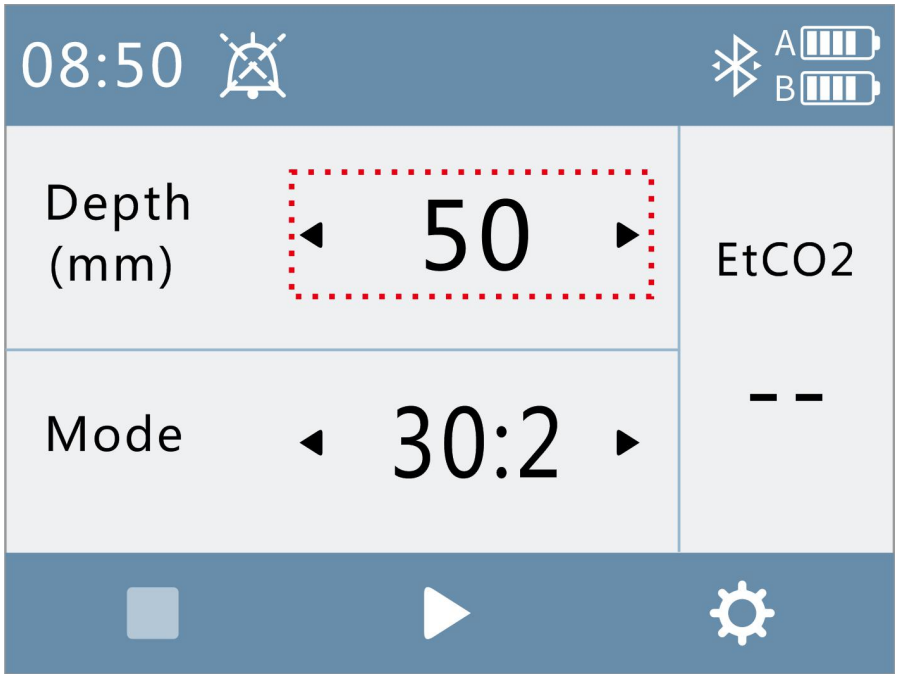


Fig. 30 Pressing depth setting

3. Press the "◀" "▶" button to set press mode.

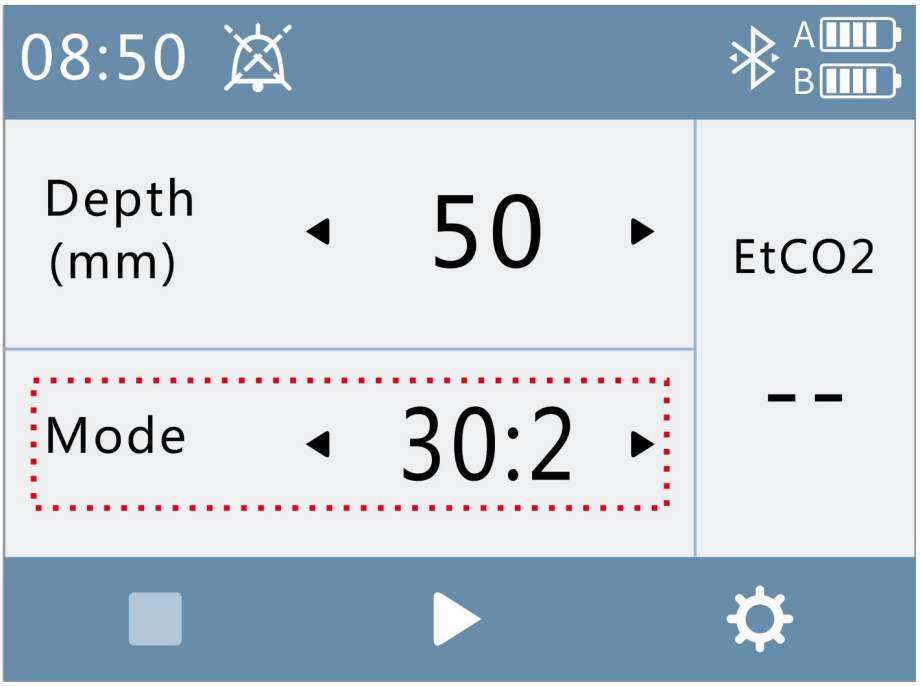


Fig.31 Pressing mode setting

4. The following EtCO2 monitoring interface will appear on the display.

   Tip: EtCO2 needs to be connected to the circuit of the auxiliary ventilation device to realize the monitoring of EtCO2.

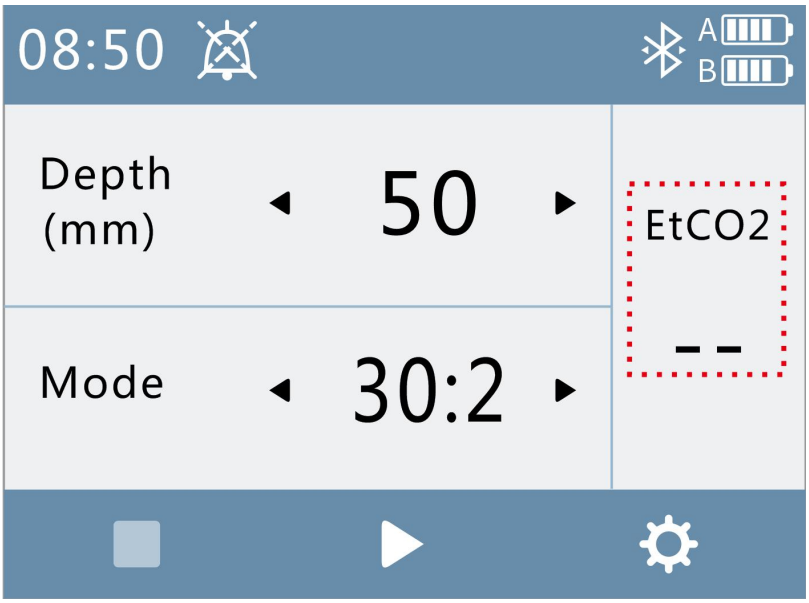


Fig. 32 Parameters monitoring

5. Press the start button,E6 will auto positioning and start pressing

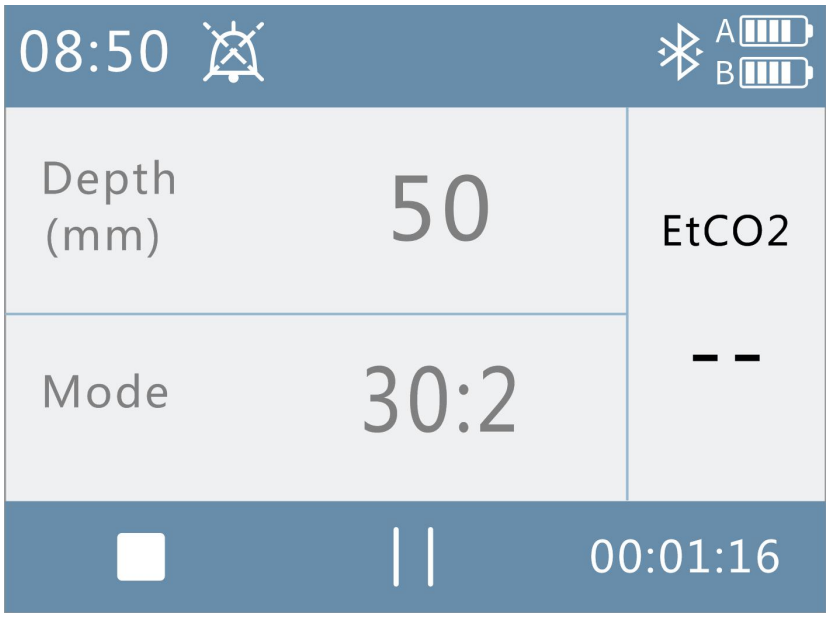


Fig. 33 Starting press

Warning :

- [Unsatisfactory position] If the E6 cannot be safely and correctly placed on the patient's chest, perform manual CPR again.
- [Patient too small] If the E6 sends 3 quick alarms when lowering the suction cup, and you cannot enter setting of the pressing depth and pressing mode. Restart the manual CPR
- [Keeping Care] Never leave the patient or CPR machine during cardiopulmonary resuscitation. Only then can you respond quickly when the patient's condition deteriorates or the CPR machine fails or alarms. A

slow response from a medical professional can result in serious bodily injury.

- [Fault] If an interruption occurs during operation, or the pressing becomes insufficient, or an abnormal condition occurs: Press the On/Off key for 3 seconds to stop E6 and remove the device. Begin manual CPR.
- [Battery Low] When a low battery alarm occurs, do one of the following:

  a) Replace the battery with a fully charged battery.

  b) Connect the external E6 power supply.

  Note:

- [Keep your hands away] Do not place your hands on or under the suction cup while the E6 is running. Keep your hands away from the lock when attaching the upper part or lifting the patient.
- [Gel is present on the chest] If there is a gel on the patient's chest (for example, when used for an ultrasound examination), the position of the suction cup may change during use, so remove all gels before placing the suction cup.
- [Do not block the air hole] Do not block the air hole under the hood, as this may cause the device overheat.

5.5 Use stabilizing belt

The E6 stabilizing belt helps ensure the correct position during operation. Use a stabilizing belt when E6 is started to minimize the number of interruptions.

1. Take out the buffer belt that is part of the stabilizer belt from the carrying case (the leg strap of the stabilizing belt should already be connected to the leg).

2. Fully stretch the stabilizing belt at the buckle.

3. Carefully lift the patient's head and place the mat behind the patient's neck. Place the mat as close as possible to the patient's shoulder.

4. Attach the buckle of the leg strap to the buckle of the buffer belt. Make sure the belts are not kinked.

5. Keep the E6 legs stable and then tighten the buffer belt.

6. Make sure the suction cup on the patient's chest is in the correct position.

Otherwise, please adjust the position as below:

a) Press the stop button.

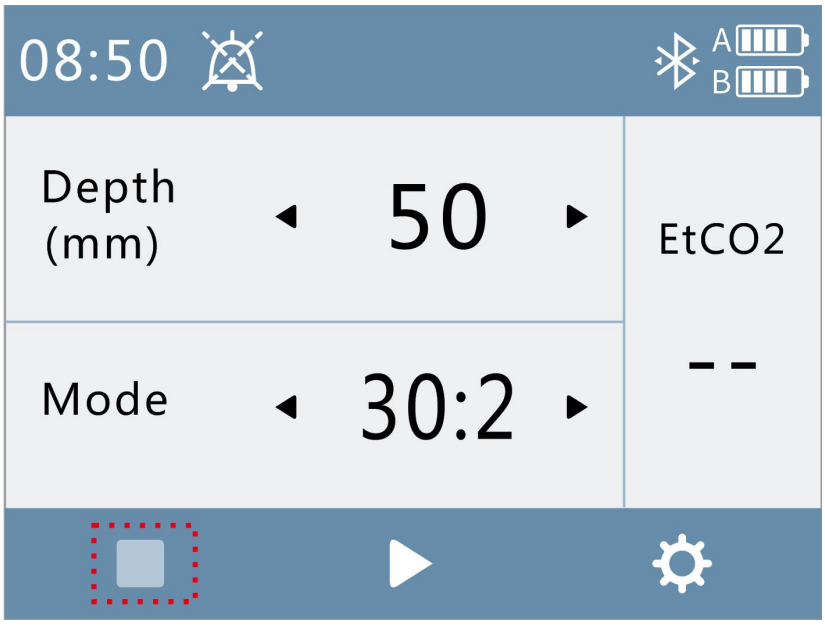


Fig.34 Stop

b) Separate the buffer belt from the leg strap.

c) Adjust the position of the suction cup (as described in section 4.4).

d) Reconnect the buffer (See steps 2 - 5 above)

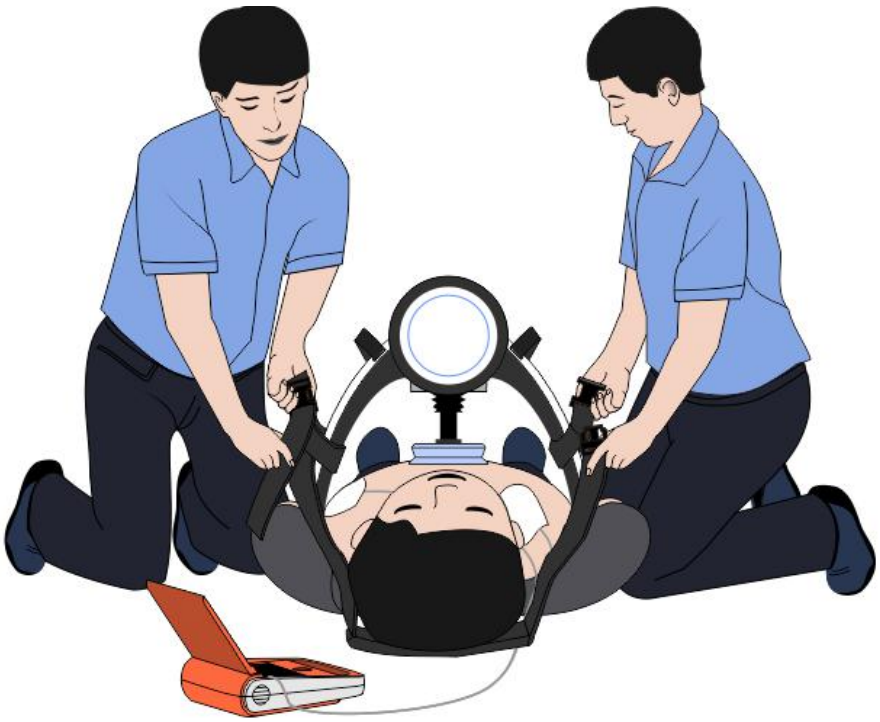


Fig. 35 Stabilizing belt

Note：

- [Application of Stabilizing belt] If the use of Stabilizing belt will prevent or delay any treatment for the patient, the usage of the E6 device should be deferred.

5.6 Move patient

5.6.1 Fix the patient arms

When moving the patient, the patient's arm can be secured using the patient fixing belt on the E6. This makes it easy to move the patient.

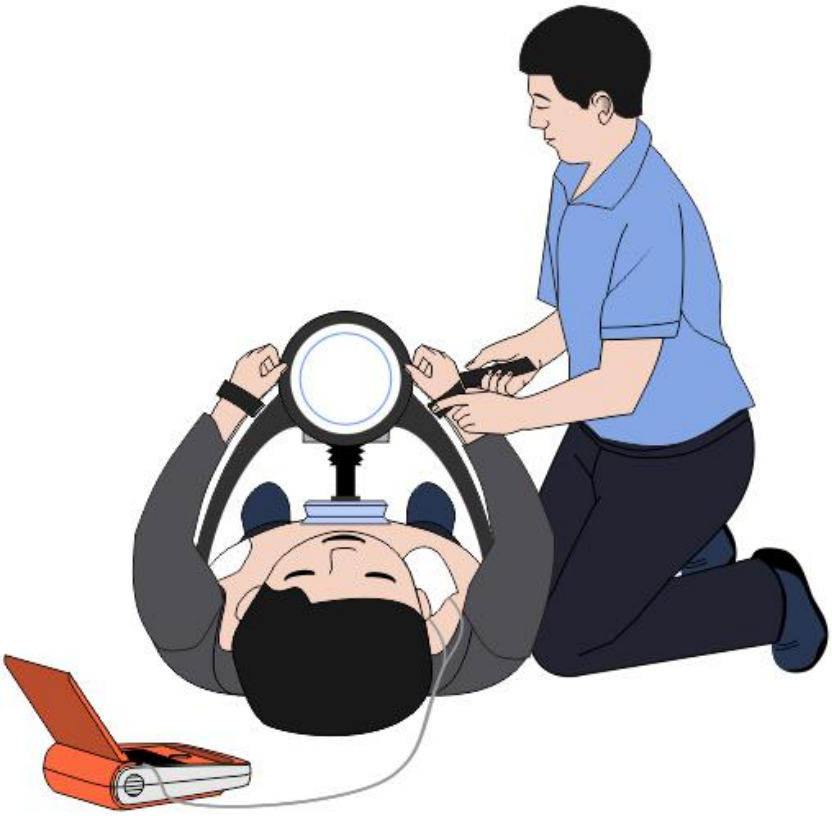


Fig. 36 fix patient arms

Note：

- • [Do not use the fixing belt to lift the patient] Do not use the fixing belt to lift the patient. The belt is only used to secure the patient to the E6.
- [Skin burns] The temperature of the cover and battery may rise above 118°F / 48°C. If it is too hot, do not touch it for a long time to prevent skin burns, and remove the patient fixing belt from the patient's hands.
- [Vein Path] ensures unobstructed venous access.

5.6.2 Preparing to lift the patient

1. Decide which device you will be moving and where to place it.
2. Personnel on the side of the patient:

   a) place one hand under the back plate at the bottom of the leg;

   b) Hold the patient's belt, pants or thighs with the other hand.
3. Make sure the patient's head is stable.

5.6.3 Lifting the patient

1. Press "Pause" to pause pressing.

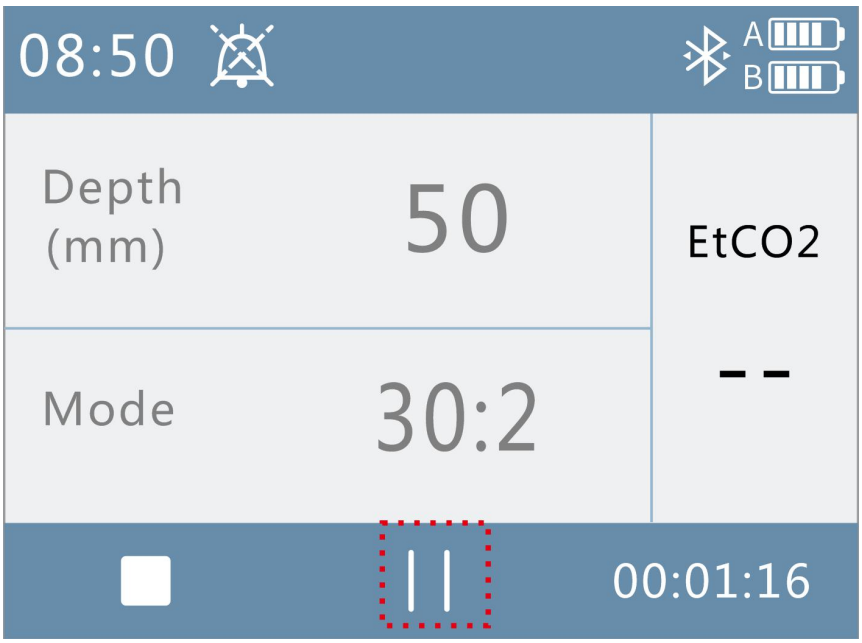


Fig. 37 Pause

2. Lift the patient and move it to a stretcher or other transport device (backplane, vacuum mattress or similar).
3. Make sure the suction cup is in the correct position on the patient's chest.
4. Press "Start" to restart the press

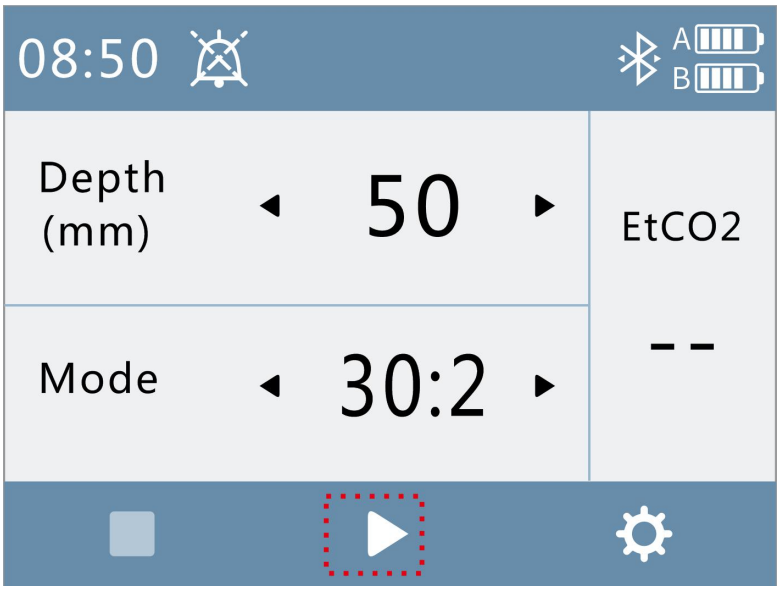


Fig. 38 Start

5.6.4 Move patient

E6 can be enabled when you move a patient under the following conditions:

- E6 is safe with the patient on a transport unit.
- E6 maintains the correct position and angle on the patient's chest.

Adjust the position of the suction cup if necessary.

Note：

- [Position changed during operation] If the position of the suction cup changes during operation or defibrillation, immediately press the adjustment button to adjust the position. Always use the E6 stabilizing belt to help ensure the correct position.

5.7 Change battery during operation

When the battery is about to run out, E6 sends an alarm by lighting an alarm light (red alarm), displaying an alarm message in the message bar, and an audible (or voice) alarm.

5.7.1 Change battery

Note ： To minimize disruption, we offer a dual battery design. It is recommended to replace the new battery or connect the external power supply to charge the battery after a battery has a low battery alarm. Try to avoid the situation where only one battery is left.

1. When the E6 is connected to an external power source or there is still a

battery that is fully charged, battery can be replaced directly during operation.

2. Press the battery button and take the battery out of the gap.

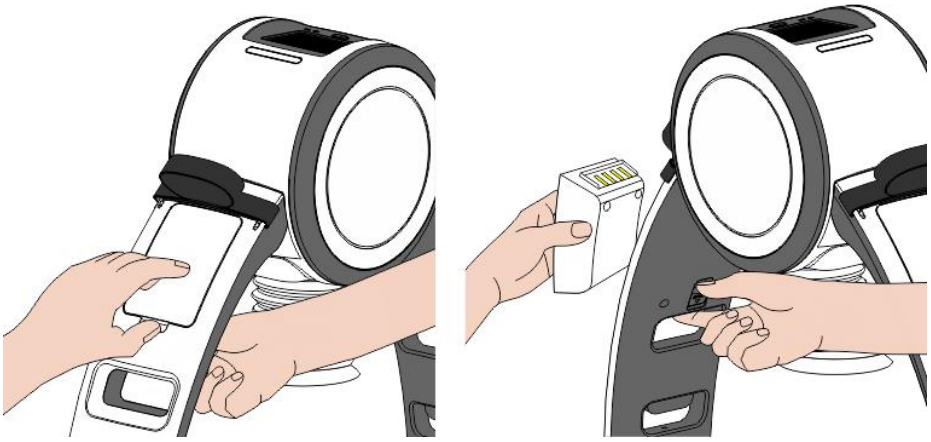


Fig. 39 Remove battery

3. Install the fully charged E6 battery, load it in the direction shown in the figure, press it after loading, you can hear the click of the battery button reset, and make sure the battery is installed.

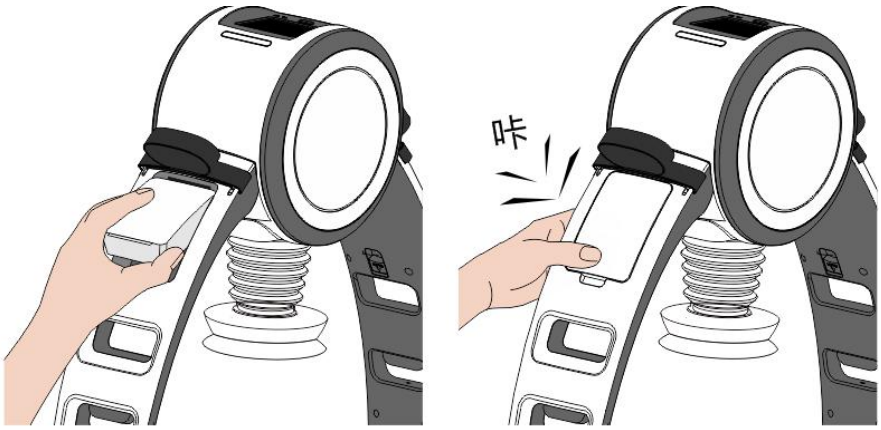


Fig. 40 Battery install

4. If only one battery is left in the device and the external power is not connected, you need to “stop” the device and restart according to steps 2 and 3.

5.7.2 Connect with external power

You can connect the E6 power supply under all E6 operating modes.

Use the power cord:

- Connect the power cord to the E6.
- Connect the power cord to a wall outlet (100-240V, 50/60 Hz)

Use the vehicle charging cord:

- Connect the vehicle charging cord to the E6
- Connect the vehicle charging cord to the car outlet (10-28 V DC)

5.8 Charging battery

There are two ways to charge your E6 battery:

Method 1: In the external E6 battery charger (optional). (As shown below)

- Place the battery in the slot of the battery charger,
- Connect the battery charger power cord to a wall outlet.

When all five battery indicator lights on the charger turn green, the battery is fully charged.

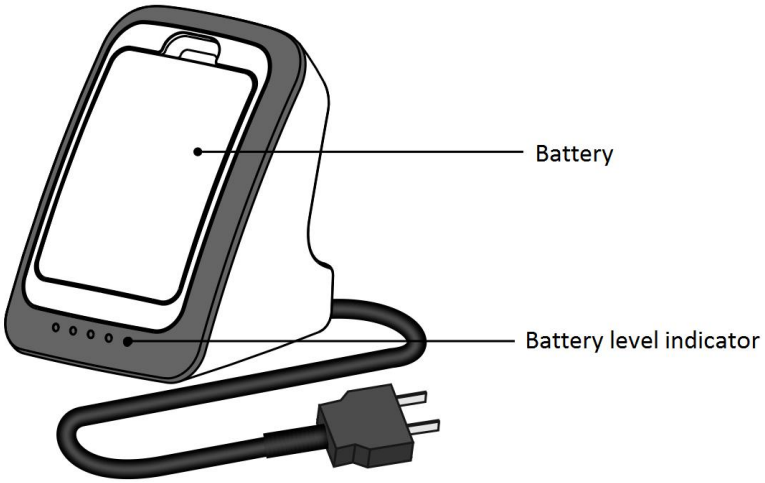


Fig. 41 Charger

Method 2: Installed in E6. (As shown below)

- Place the battery in the slot of the E6 leg
- Connect the power supply to the DC input on the E6 side.
- Connect the power supply to a wall outlet.

When the battery icon on the screen shows 5 cells, the battery is fully charged.

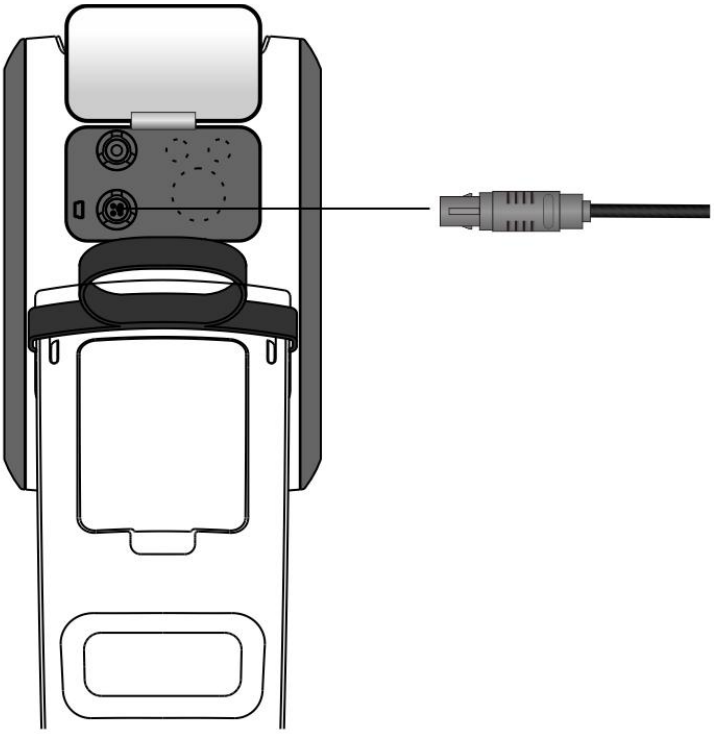


Fig. 42 External power supply port

Note：

- [Keep battery installed] In order for E6 to operate, the battery must always be installed (even when powered by an external power source).
- [Use only approved accessories] Only accessories approved by the Ambulanc company are allowed to be used with the E6. If you are using an unauthorized attachment, E6 will not operate correctly. Use only E6 batteries for E6 and E6 power supplies. If you use a different battery or power source, it may cause permanent damage to the E6. This will also result in the device not being able to enjoy the warranty service.

5.9 Battery management

1. The device is equipped with 2 rechargeable batteries.
2. After the two batteries are installed, the device interface can display the working battery, and it will switch when the battery is low.
3. A battery is fully charged for no more than 45 minutes.
4. When the device is not equipped with a battery and only the adapter is present, the pressing function is supported.

5.10 Adjuvant treatment

Note：

- [Adjuvant treatment] Using other medical devices or drugs with E6 will affect the treatment. For other devices and/or drugs, be sure to refer to their Instructions for Use to ensure they are suitable for use with CPR.

5.10.1 Defibrillation

Defibrillation can be performed while the E6 is running.

1. You can use the defibrillation electrodes before or after positioning the E6.

2. Defibrillation according to the instructions of the defibrillator manufacturer.

Note:

• [Defibrillation Electrodes] Position the defibrillator electrodes and wires so that they are not under the suction cup. If the electrode already exists on the patient, make sure it is not under the suction cup. If it is under the suction cup, a new electrode must be used.

3. After the defibrillation is finished, make sure the position of the suction cup is correct. Adjust the position if necessary.

Warning:

• [Position changed during operation] If the position of the suction cup changes during operation or defibrillation, immediately press the adjustment button to adjust the position. Always use the E6 stabilizing beltp to help ensure the correct position.

• [ECG interference] Chest compression can interfere with ECG analysis. Press Pause first before starting the ECG analysis. Reduce interruption time as much as possible. Press Start (continuous) or Start (15:2, 30:2) to restart pressing.

5.10.2 Ventilation

Always follow local and / or international ventilation guidelines.

E6 can be run in two different modes:

• Start (continuous)

When you select this mode, the E6 is continuously pressing and, the ventilation is controlled by the operator or other breathing apparatus.

- Start (15:2, 30:2)

When you press this button, the E6 performs 30 (or 15) chest compressions and then pauses for 6 seconds. During the pause, the operator can perform two ventilations. After the pause, machine repeats the pressing. At each pause in ventilation, the device will give the voice "ventilate" twice to alert the operator.

5.10.3 Use in radioactive laboratory

E6 can be used in a radiology laboratory. In addition to a pressing transmission mechanism, it is primarily radiation-shielded, allowing X-ray projection.

5.11 Remove E6 from patient

1. Press the On/Off key for 3 seconds to turn off the power.
2. If the E6 stabilizing belt is connected to the E6, remove the buffer belt that is part of the stabilizing part from the E6 leg
3. Grasp the legs as shown below and press the lock button to remove the upper part from the back panel.

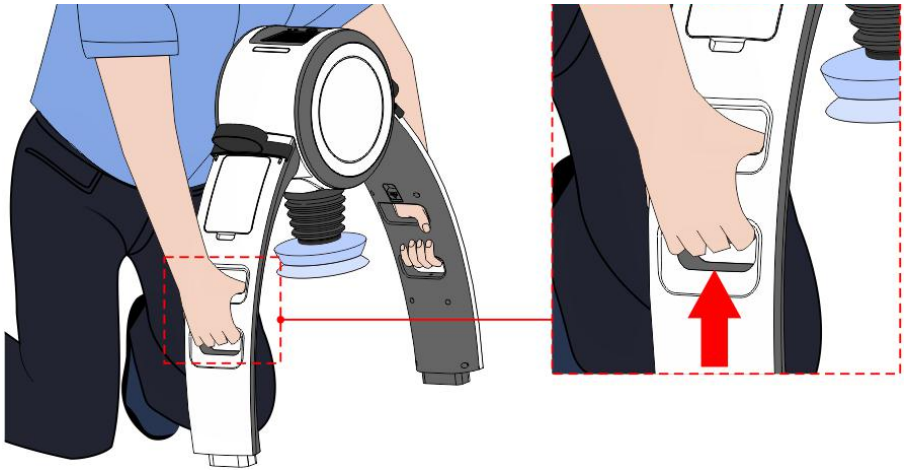


Fig. 43 Remove E6

4. Remove the back plate if patient condition allows

6 Sanitary treatment

After each use of the E6 chest compression system, do the following:

1) Replace the suction cup (see section 6.2);

2) If necessary, perform a general cleaning procedure (see section 6.1).

6.1 General cleaning procedures

Clean all surfaces and belts with a soft cloth and warm water containing a mild detergent or disinfectant. The cleaner or disinfectant can be:

- 70% isopropyl alcohol solution
- 45% isopropyl alcohol with added detergent
- Quaternary ammonium compounds
- 10% bleach

Follow the instructions provided by the disinfectant manufacturer.

Note：

Do not immerse the E6 in a liquid. If liquid enters the hood, it will cause damage to the equipment. Allow the E6 to dry before wrapping it.

6.2 Removing and installing the suction cup

Pull the suction cup down,Dispose it as contaminated medical waste,Install a new suction cup.

Note：

Make sure the suction cup is securely connected.

7 Faults and trouble shooting

If the problem can’ t be solved immediately, please contact the manufacturer Ambulanc (Shenzhen) Tech. Co., Ltd., or the distributor authorized by Ambulanc (Shenzhen) Tech. Co., Ltd. Please do not continue to use the machine to avoid unnecessary damage.

7.1 Technical faults

Fault	Cause	Remedy
E6 can't start	E6 is faulty	Give to manufacturer or authorized distributor
	Battery is finished	Charge the battery
E6 can’ t close	Wrong operation	Long press “On/Off” for at least 3 seconds
Power indicator unstable	Power cable not connected well	Re-connect power cable

7.2 Physiological Alarm

Priority	LED Alarm	LED indication	Sound Alarm	Cause	Method
High priority	Insufficient compression depth	Red LED light lit intermittently	Voice: insufficient compression depth, please re-adjust the initial position Sound: Dididi--didi	Patient too small	stop using the E6 and use manual compression

7.3 System Alarm

Priority	LED Alarm	LED indication	Sound Alarm	Cause	Method
High priority	Communication error	Red LED light lit intermittently	Voice: system error Sound: Dididi--didi	main board commun-cation wrong	check MB and CB connection or looseness

High priority	Pressing motor abnormal	Red LED light lit intermittently	Voice: system error Sound: Dididi--didi	Pressing motor abnormal	Re-start machine
High priority	EEPROM abnormal	Red LED light lit intermittently	Voice: system error Sound: Dididi--didi	CB’ s EEPROM error	Re-start machine
High priority	displacement sensor A abonormal	Red LED light lit intermittently	Voice: system error Sound: Dididi--didi	displacement sensor not connected well	Change displacement sensor A
High priority	displacement sensor B abonormal	Red LED light lit intermittently	Voice: system error Sound: Dididi--didi	displacement sensor not connected well	Change displacement sensor B
High priority	Battery is running out	Red LED light lit intermittently	Voice: Battery is running out Sound: Dididi--didi	Battery level is less than 5%	Connect adapter or change battery
Middle priority	Battery level is insufficient	Yellow LED light lit intermittently	Voice: Check battery status Sound: di-di-di	Battery level is less than 20%	Connect adapter or change battery

Note: Acoustic signal characteristics (one '-' means 100ms)

[1]: (di-di-di-----di-di-----di-di-di-----di-di); pulse duration 200ms, alarm period 5s

[2]: (di-di-di); the pulse duration is 200ms and the alarm period is 5s.

7.4 System prompts

Prompts	Purpose	Trigger actor

CO_2 concentration rises (only for E6)	Indicate that the patient is breathing now, and the user should stop using the E6 CPR	CO_2 concentration is more than 20

8 Maintainance

8.1 Regular check

After each week and after each use of E6 cardiopulmonary resuscitator, do the following:

1. Make sure the equipment is clean.

2. Make sure to install a new suction cup.

3. Make sure the patient fixing belt is attached.

4. Make sure that the two leg straps of the stabilizing belt are wrapped around the legs.

5. Press up and release the lock button to ensure that the lock can be opened and reset.

6. Press ON/OFF to have E6 perform a self-test to ensure that it passes the self-test.

7. After turning the power on, observe the battery level to make sure the battery is fully charged.

8. Press On/Off to turn the E6 power off again.

9. Make sure the external power cord (optional accessory) is intact.

Warning :

- [Electric Shock] If the external power cord (optional accessory) is damaged, remove it and replace it immediately to avoid electric shock or fire hazard.

8.2 Uninstall and install patient fixing belt

Uninstall:

1. Open the patient fixing belt and pull it out of the corresponding hole in the E6 leg.

   Clean as described in Section 6.1.

Install :

1. Pass the patient fixing belt through the corresponding hole on the E6 leg.

2. Fold the patient fixing belt to make the symbol visible.
3. Press the belt assembly firmly together.

8.3 Uninstall and install patient stabilizing belt

Open the buckle and disassemble the leg strap that is part of the stabilizing belt.

Clean the stabilizing belt as described in Section 6.1

Install as described in Section 4.4

8.4 Remove battery and charge

1. Replace the battery with a fully charged battery.
2. Charge the used battery for future use.

You can charge the E6 battery in two ways. For details, see 5.8

Note：

- [Keep battery installed] In order for E6 to operate, the battery must always be installed (even when powered by an external power source). To minimize interruptions, we recommend always having a spare E6 battery that has been charged in the carrying case.

Warning：

- [Use only approved accessories] Using accessories from other manufacturers can cause malfunctions and incompatibilities. Please keep in mind that in these cases the rights and responsibilities of the warranty will be void: do not use the accessories recommended in the instructions or do not use the original spare parts.

9 E6 Packing

9.1 Standard configuration

S/N	Description	Maternal no.	Qty(pcs)	Remarks
1	E6 machine （upper part and back board）	2.202.00007	1（set）	
2	Suction cup	1.402.00191	2 （pcs）	
3	Carrying case	1.504.00058	1 （pc）	
4	《user's manual》	1.601.00150	1 （pc）	
5	Rechargeable battery	2.202.00016	2 （pcs）	
6	Power adapter	2.202.00028	1 （pc）	
7	Patient stabilizing belt	1.701.00015	1 （pc）	
8	Patient fixing belt	1.701.00016	2 （pcs）	

9.2 Optional

S/N	Description	Maternal no.	Qty(pcs)	Remarks
1	Suction cup	1.402.00191	/（PC）	
2	Rechargeable battery	2.202.00016	/（PC）	
3	Mainstream $ETCO_2$ module	5.000.00452	/（PC）	
4	E6-Charging base	2.202.00015	/（pc）	

Note：

The specific configuration is subject to the packing list.

10 Technical parameters

10.1 Medical Devices Management Category

Medical Devices Management Category	
Category	Class-IIb

10.2 Physical Specifications

Machine size	
Size	length： 533mm width： 242mm height： 593mm
Weight (including battery)	8.9 kg
Screen	
Types	Color TFT
Size	3.5 “
Resolution	320 x 240 pixels
Features	With resistor type touch screen control

10.3 Environmental specifications

Operating Environment	
Temperature range	0℃ ~ 40°C
Humidity range	5% ~ 98%
Air pressure	70kPa ~ 110kPa
Storage Environment	
Storage temp.	-20 ~ 55℃
Storage humidity	5% ~ 93%

10.4 Power speficications

Power adapter	
Input voltage	100-240V~
Input frequency	50/60Hz
Input Current	<2.3A

Host	
Input	DC 10-28V

10.5 Patient

Description	Types
Suitable patients	Adult patients with: • sternal height from 165 to 305 mm • Maximum chest width 450 mm Usage of E6 is not subject to patient’ s weight limit.

10.6 Pressing parameters

Description	Parameters
Pressing depth	30-53mm , error ±3mm. Default setting: 50mm , continuous adjustable
Pressing frequency	110 times per minute , error ±3 times
Press/Release ratio	50% , erro ±5%
Pressing mode (operator choose)	• 15:2 （press 15 times , and 6 secs for ventilation ） • 30:2 （press 30 times , and 6 secs for ventilation ） • Continuous pressing

10.7 Battery physical specification

Description	Parameters
Size （length x width x height ）	115mm x 80mm x 52mm
Weight	0.5kg
Type	lithium polymer battery
Capacity (each battery)	2900 mAh 75Wh
Voltage	25.9V
Working time (standard patient)	≥90min（for 2 batteries ）
Charging time	less than 4 hours (22°C)
Battery change	It is recommended to replace the battery every 3 years or 500 times (full charge and discharge)

10.8 Battery environment specs.

Description	Parameters
Operating temperature	0°C ~ +40°C
Charging temperature	10°C ~ +45°C
Storage temperature	-20°C ~ +50°C, less than 1 month -20°C ~ +40°C, less than 3 month -20°C ~ +20°C, less than 1 year

11 EMC

 Note：

- E6 cardiopulmonary resuscitator machine meets the requirements of YY0505 standard electromagnetic compatibility.
- Users should install and use the electromagnetic compatibility information provided by the random file.
- Portable and mobile RF communication equipment may affect the performance of the E6 cardiopulmonary resuscitator machine, avoiding strong electromagnetic interference when used, such as near mobile phones, microwave ovens, etc.
- The guide and the manufacturer’ s statement are in the attachment.

 Warning：

- E6 cardiopulmonary resuscitator machine should not be used close to or stacked with other equipment. If it must be, it should be observed to be able to operate normally in its configuration.
- In addition to the cables sold by the manufacturer of the E6 cardiopulmonary resuscitator machine as spare parts for internal components, the use of extra-standard accessories and cables may result in E6 increased working or reduced immunity.

EMR Statement		
E6 can be used in the following specific EMR environment, in which user shall ensure to operate this equipment.		
EMR Testing	**Compliance Testing**	**EMR Environment Guide**
Radio frequency radiation (CISPR 11) (GB4824)	Group 1	E6 generates radio frequency energy only when operating its internal functions. Therefore, this ventilator emits very small amount of radio frequency radiation and it is unlikely to cause any EMI to electronic equipment nearby.
Radio frequency radiation (CISPR 11) (GB4824)	Category B	E6 is applicable in all facilities, including domestic and public LV power supply network directly connected to house.
Harmonic wave radiation (GB 17625.1)	Category A	
Voltage fluctuation and flicker emission (GB 17625.2)	Acceptable	

EMI Statement - Requirements for All Equipment and Systems			
E6 can be used in the following specific EMR environments, and the user shall ensure to operate this equipment in the following EMR environments.			
EMI Type	**YY0505 Testing Grade**	**Compliance Grade**	**EMR Environment Guide**
ESD (GB/T 17626.2)	Contact discharge: ±8kV Air discharge: ±15kV	Contact discharge: ±8kV Air discharge: ±15kV	The ground shall be of wood, concrete or ceramics. In case of composite paving material, the relative humidity shall be at least 30%.
EFT (GB/T 17626.4)	To power cable: ±2kV To long I/O cable: ±1kV	To power cable: ±2kV To long I/O cable: ±1kV	Power supply grade shall be minimally the grade for typical commercial or medical environment.
Surging (GB/T 17626.5)	DM: ±1kV CM: ±2kV	DM: ±1kV CM: ±2kV	
Power frequency magnetic field (50/60Hz) (GB/T 17626.8)	3A/m	3A/m	Power frequency magnetic field shall be of the horizontal characteristics as in typical commercial or medical environment.
Voltage sag, short interruption and variation (GB/T 17626.11)	< 5% U_T (> 95% fall, U_T), 0.5 cycle;	< 5% U_T (> 95% fall, U_T), 0.5 cycle;	Power supply grade shall be minimally the grade for typical commercial or medical environment. It is recommended to use UPS to ensure continuous operation of this product even in case of AC power outage.
	40% U_T (60% fall, U_T), 5 cycles;	40% U_T (60% fall, U_T), 5 cycles;	
	70% U_T (30% fall, U_T), 25 cycles; < 5% U_T (> 95% fall, U_T), 5s;	70% U_T (30% fall, U_T), 25 cycles; < 5% U_T (> 95% fall, U_T), 5s;	
Note: U_T refers to the AC network voltage before the test voltage is applied.			

Guide and Manufacturer Statement – EMI			
E6 is intended for the following EMI environments, and E6 purchaser or user shall ensure to operate E6 in these EMI environments:			
EMI Test	**IEC 60601 Test Level**	**Compliance Level**	**EM Environment - Guide**

Radio frequency transmission GB/T 17626.6	3 V (effective value) 150 kHz~80 MHz (except ISM bandsa)	3V (effective value)	Any portable or mobile radio frequency communication equipment shall not be used in a distance closer to any part of E6 Emergency Ventilator (including cable) than as recommended. Such distance is determined based on a formula related to transmitter frequency. Recommended Distance $d = 1.2\sqrt{P}$ $d = 1.2\sqrt{P}$ $d = 0.4\sqrt{P}$ 80 MHz ~ 800 MHz $d = 0.8\sqrt{P}$ 800 MHz ~ 2.5 GHz **where,** P : the maximum rated output power (in Watt) of transmitter provided by its manufacturer; *d*: the recommended distance (in meter)[b]. The field strength of fixed radio frequency transmitter is determined based on the survey at EMI location[c], and each frequency range should be lower than Compliance Level[d]. **Interference may occurs near the equipment attached with the following signs.** 
Radio frequency radiation GB/T 17626.3	10V (effective value) 150kHz~80MHz (ISM banda) 10V/m 80 MHz ~ 2.5 GHz	10V (effective value) 30V/m	

Note 1 :
For frequency of 80MHz and 800MHz, a formula in respect of high frequency should be used.

Note 2 :
As EM transmission is affected by absorption and reflection of buildings, objects and human bodies, these guidelines may not be applicable to all circumstances.

a) ISM bands between 150kHz and 80MHz are 6.765MHz~6.795MHz, 13.553MHz~13.567MHz, 26.957MHz~27.283MHz and 40.66MHz~40.70MHz.

b) ISM bands between 150kHz and 80MHz and compliance levels between 80MHz and

2.5GHz are used to reduce the possibility of interference resulted from mobile/portable communication devices which are accidentally taken into patient's location. For this reason, additional factor 10/3 is used for calculation of recommended distance to the transmitter within these frequency ranges.

c) Theoretically, field strength of fixed transmitters, such as wireless (cellular/cordless) phone and mobile ground radio base station, amateur radio, FA/FM radio broadcast and TV broadcast, cannot be estimated accurately. Evaluation of EMI environment of fixed radio frequency transmitter should take into consideration survey at EM locations. If field strength measured at the place where E6 Emergency Ventilator is located is higher than the aforesaid applicable radio frequency compliance level, then E6 Emergency Ventilator shall be observed to verify its normal operation. If any abnormal property is found, related remedial measure may be required, such as re-adjustment of orientation or position of E6 Emergency Ventilator.

d) Throughout the frequency range of 150kHz~80MHz, the field strength should be lower than 3V/m.

Recommended distance between portable and mobile RF communication equipment and E6 Cardiopulmonary resuscitator

E6 is intended for use in RFI-controlled EMI environments. Based on the maximum rated power of related communication equipment, purchaser or user can prevent EMI by maintaining the minimum distance between portable and mobile RF communication equipment and E6 as recommended below.

Max. Output Power of Transmitter (W)	Distance (m) for Transmitters of Various Frequencies			
	150 kHz~80 MHz (except ISM bands) $d = 1.2\sqrt{P}$	150 kHz~80 MHz (ISM bands) $d = 1.2\sqrt{P}$	80 MHz ~ 800 MHz $d = 1.2\sqrt{P}$	800 MHz~2.5 GHz $d = 2.3\sqrt{P}$
0.01	0.12	0.12	0.04	0.08
0.1	0.38	0.38	0.12	0.24
1	1.2	1.2	0.4	0.8
10	3.8	3.8	1.2	2.4
100	12	12	3.8	7.7

For any maximum rated output power which is not listed in the table above, the recommended distance d (in meter) can be determined based on the formula in the

corresponding volume of transmitter frequency, where p is the maximum rated output power in (Watt) of transmitter provided by its manufacturer.

Note 1 :

For frequency of 80MHz and 800MHz, a formula in respect of high frequency should be used.

Note 2 :

ISM bands between 150kHz and 80MHz are 6.765MHz~6.795MHz, 13.553MHz~13.567MHz, 26.957MHz~27.283MHz and 40.66MHz~40.70MHz.

Note 3 :

Additional factor 10/3 is used for calculation of recommended distance to the transmitter within frequency ranges of 150kHz ~ 80MHz and 80MHz~2.5GHz, so as to reduce the possibility of interference resulted from mobile/portable communication devices which are accidentally taken into patient's location.

Note 4 :

As EM transmission is affected by absorption and reflection of buildings, objects and human bodies, these guidelines may not be applicable to all circumstances.

Basic EMC Properties of E6 Cardiopulmonary resuscitator	
The E6 cardiopulmonary resuscitator can work normally according to the parameter settings. See Chapter 5 of the manual for details. Alarms can be issued based on real-time monitoring of the E6 status, and to ensure the accuracy of the parameters below of the E6 in the electromagnetic compatibility environment:	
Pressing depth	30-53mm，error ±3mm. Default setting: 50mm，continuous adjustable
Pressing frequency	110 times per minute，error ±3 times
Press/Release ratio	50%，erro ±5%
Pressing mode (operator choose)	• 15:2 （press 15 times，and 6 secs for ventilation） • 30:2 （press 15 times，and 6 secs for ventilation） • Continuous pressing
Parameters of EMC Cable Material	
Adapter input power cable	3.0±0.01m
Adapter output power cable	1.2±0.05m

12 Warranty

1. Within two years of purchase, any quality defect occurring in proper operation pursuant to this manual will be subject to Ambulanc's repair service free of charge. If the shelf life as labeled on the product is less than two years, this warranty will become invalid with expiration of such shelf life.
2. Upon request for repair service, a certificate of purchase attached with name of the seller and date of purchase must be provided.
3. This warranty becomes invalid in one of the following cases:

- Failure to observe related instructions
- Improper operation
- Improper use or handling
- Repair on the equipment by any unauthorized personnel
- Occurrence of force majeure, such as lightning stroke
- Damage during delivery to the manufacture resulted from improper packaging
- Poor maintenance
- Wear resulted from excessive use or normal wear; parts to which this item is applicable include:
- Filter
- Battery
- disposable article
- use of any spare part other than recommended.

4. Ambulanc will not be responsible for any damage not resulted from intentional or gross negligence and body injury caused by minor fault.
5. Ambulanc will take no responsibility for any problem arising after service life of this product has expired.
6. Ambulanc reserves the right to remove any defect, supply deficiency-free goods or properly reduce purchase price at its own discretion.
7. In case that any request for repair service is rejected, the freight shall not be at Ambulanc's cost.
8. Any statutory warranty shall be exempt of the aforesaid restrictions.

13 Classification of Toxic/Harmful Substances

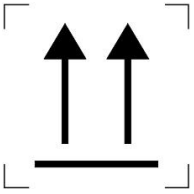
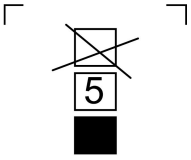
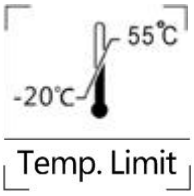
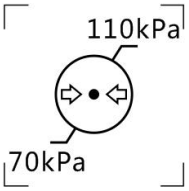
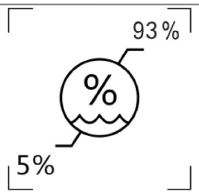
Name & Content of Toxic/Harmful Substances							
Name of Part		**Cadmium (Cd)**	**Mercury (Hg)**	**Lead (Pb)**	**Hexavalent Chrome (Cr-VI)**	**PBB**	**PBDE**
Display Screen		×	×	×	×	×	×
Lithium Battery		×	×	×	×	×	×
Packing materials		○	×	×	○	×	×
Main unit	PCBA	○	○	×	○	○	○
	Interior Connecting Wires	○	○	○	○	○	○
	Machined Parts	○	○	○	×	○	○
Host shell	Button	○	○	○	○	○	○
	Label	○	○	○	○	○	○
	Shell	○	○	○	○	○	○
Accessories	Power cable	○	○	○	○	○	○
	Connecting parts	○	○	○	×	○	○

×： means that content of the harmful substance or element in at least one homogeneous material composing related part exceeds the limit as stipulated in SJ/T11363-2006.

○ : means that the content of the harmful substance or element in all homogeneous material composing related part is within the limit as stipulated in SJ/T11363-2006.

14 Storage and transport

The packaged product can be transported on road, by air or by train. Impact, extreme vibration and humidity shall be prevented during transportation.

Graphics	DESCRIPTION	Graphics	DESCRIPTION
	This way up		Handle with care
	Keep dry		Stacking limit：5
	Temp.Limit：-20~55℃		
	Pressure range：70kPa~110kPa		
	Humidity range：5%~93% Non-condensing		

Warning：

When machine is moved out from a storage condition not meeting the working condition, this equipment shall be placed in a standard environment for at least 8 hours before being used.

Amoul® Ambulanc(Shenzhen)Tech.Co.,Ltd.

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