

BeneHeart Trainer II / IIs

自动体外除颤器训练机

Automated External Defibrillator Trainer
(AED Trainer)

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使用说明书

Operator's Manual

mindray 迈瑞

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1. Product Introduction and Product Features

1.1 Product Introduction

The BeneHeart Trainer II / IIs Automated External Defibrillator Trainer (AED Trainer) is designed specific for training first-aid personnel before they use C&S Automated External Defibrillator (AED). The trainer fully simulates the C&S automated external defibrillator in the training guide and drill program with a view to help first-aid personnel to get familiar with the AED and grasp required basic operation skills when using it in the first-aid process.

Note: Before using an AED clinically, first-aid personnel must first complete required first-aid training courses so that they can cope with various situations calmly in case of an accident. Such first-aid trainings also include studying the use of the AED trainer. Well-trained first-aid personnel must know very well how to assess the patient's conditions such as loss of consciousness, respiratory arrest, cardiac arrest etc. They are also proficient in CPR operation procedures and related medical procedures.

1.2 Product Features

The BeneHeart Trainer II/ IIs AED trainer has preset 6 training scenarios. Each scenario simulates sudden cardiac arrest of a real heart, which will help its users master the AED operation skills. These scenarios conform to the training standards required by AHA CPR guidelines. Please refer to the local medical guide and emergency medicine for other requirements of the training.

BeneHeart trainer II / IIs AED trainer can simulate shock but cannot output high energy, thus ensuring its safety during use.

Note: high-voltage shock is applied in Beneheart C&S series automatic external defibrillator, be sure to keep this in mind for operation safety.

The BeneHeart Trainer II / IIs AED trainer can simulate the semi-automatic and fully-automatic defibrillation modes.

The BeneHeart Trainer II / IIs AED trainer is equipped with a remote control, which is convenient for teacher to control the AED trainer and select different training modes.

保修声明

自购买之日起, 迈瑞公司将提供三年的免费保修服务。但对因下列使用者个人的原因而造成的故障不提供免费保修服务。

- (1) 擅自拆装、改装产品而造成的故障;
- (2) 在使用、搬运过程中不慎摔打、跌落而造成的故障;
- (3) 因缺乏合理的保养而造成的故障;
- (4) 没有按照使用说明书的正确指示进行操作而造成的故障;
- (5) 因非本公司授权的维修店进行不当修理而造成的故障等。

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产品型号: _____

产品名称: _____

产品序列号: _____

购买单位: _____

购买日期: _____

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6. 产品规格及配置

主机规格

产品型号: BeneHeart Trainer II / IIs

产品名称: 自动体外除颤器训练机

电 源: DC12V, 8节5号(AA) 电池

外观尺寸: 210 x 286 x 78mm (±20mm)

产品重量: 1.5±0.2kg (BeneHeart Trainer IIs)

1.3±0.2kg (BeneHeart Trainer II)

最大工作电流: ≤500mA

关机电流: ≤10μA

注: 支持可充电5号电池, 电池及充电器需要客户自行购买。

遥控器规格

电 源: DC3V, 2节7号(AAA) 电池

静态工作电流小于: 5μA

最大工作电流小于: 10 mA

产品配置

序号	内容	数量	单位	备注
1	主机	1	台	
2	遥控器	1	个	
3	电极线	1	条	默认配成人电极线(黄色端子)
4	电极片	1	对	默认配成人电极片, 电极片可重复使用
5	说明书	1	本	
6	储藏包	1	个	

配置说明: 小儿电极线和电极片为选配配件, 不含在标配包装里, 客户可根据自己需要再另外购买小儿电极线和电极片。

2. Product Composition and Structures

The product consists of main unit, remote control, electrode pad & electrode wire, operator's manual and carry case.

2.1 Main Unit

2.1.1 Top View

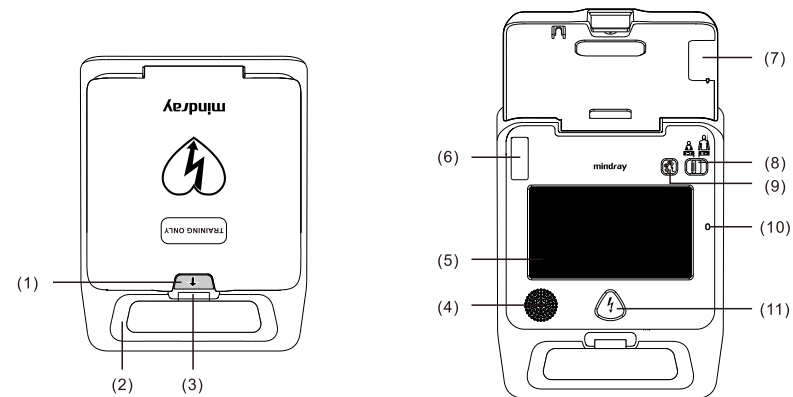


Figure 1. With lid closed

Figure 2. With lid opened

(1) Latch: opens or closes the lid.

(2) Handle

(3) Status indicator

Green: the device is turned on, and can work correctly.

Flashing green: the green light flashes when the remote control is used.

Off: the device is not powered on, or no batteries installed, or the batteries are failure.

(4) Speaker: play voice prompt.

(5) Display screen (Note: BeneHeart Trainer II is not configured with the screen)

(6) Pads connector: connects the electrode pads.

(7) Pads package holder: stores the electrode pads.

(8) Adult/Child mode switch: flip right or left to switch between adult and child.

(9) Language button: press to switch between the configured languages.

(10) Remote control receiver tube: when operating with a remote control, point it to the receiver tube.

(11) Shock button: press to deliver a shock.

2.1.2 Rear View of the Main Unit

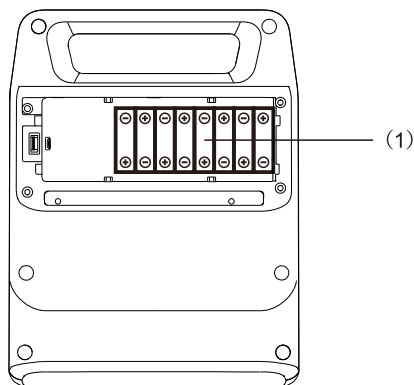


Figure3. Rear view of the main unit

(1) Battery compartment

2.1.3 Screen Display (for device configured with screen)

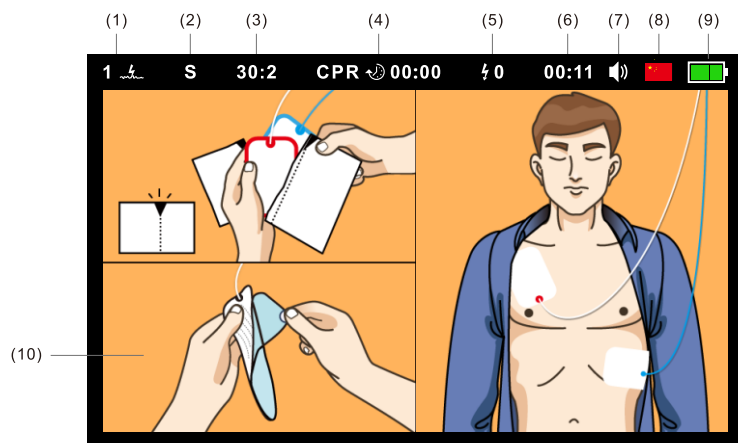


Figure 4. Screen display

5. 产品保养与清洁

5.1 主机保养与清洁方法

主机应定期进行清洁。在环境污染严重或风沙较大的地区,应提高清洁的频度。这是可供选用的清洁剂:双氧水(3%)或乙醇(75%)。

清洁设备时:

- (1) 关闭电源,并取出电池。
- (2) 使用柔软的棉球,吸附适量的清洁剂后,擦拭显示屏。
- (3) 使用柔软的布,吸附适量的清洁剂后,擦拭设备的表面。
- (4) 必要时,使用干布擦去多余的清洁剂。
- (5) 将设备放置在通风阴凉的环境下风干。

5.2 电极片保养方法

- (1) 电极片应保持清洁,避免粘上灰尘、油性物、粘性物等污物,否则粘性会下降。
- (2) 请把电极片粘贴在存放片上进行保存,不要任意粘在其它物品上,避免损伤电极片。
- (3) 电极片因脏污而使粘性下降时,可以直接用少量水轻轻擦洗,充分干燥后暂时恢复其粘贴性。但若用水过多,则会使粘性下降。
- (4) 请不要用纸巾、布等擦粘贴面。
- (5) 请不要用指甲、刷子等刮伤粘贴面。
- (6) 请不要频繁清洗,请不要使用洗涤剂、热水清洗。
- (7) 请勿放在阳光直射、高温、潮湿、灰尘多、腐蚀性气体多的地方保管。

保管注意事项:

- (1) 不得将设备浸没在液体中。
- (2) 不得将液体倾倒在设备或附件上。
- (3) 不得让液体进入机壳。
- (4) 不得使用磨损性的材料(如钢丝绒或银抛光剂),以及任何强溶剂(如丙酮或含有丙酮成分的清洁剂)进行清洁和消毒。
- (5) 请勿放在阳光直射、高温、潮湿、灰尘多、腐蚀性气体多的地方保管。
- (6) 请用储藏包保管主机、电极片、电极线,遥控器和说明书。

※ 请您务必遵守以上注意事项及其正确使用方法。

4. 产品使用步骤

4.1 开启设备

翻开机盖后, 自动开机, AED训练机会进行电极片检测, 若没有接好电极片插好插头, 机器会一直提示连接电极片插好电极线插头; 若已接上成人电极片, AED训练机则进入成人模式; 若接上儿童电极片, 则进入小儿模式。

4.2 贴放电极片

取出训练用的电极片, 将电极片按照如下位置贴到模拟人身上。

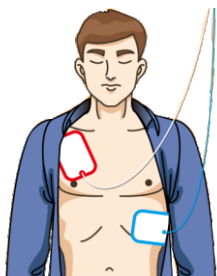


图11.贴放电极片(成人)

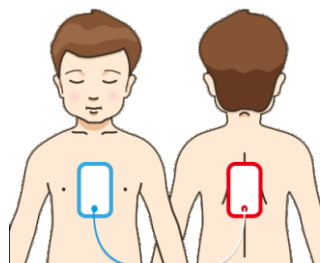


图12.贴放电极片(小儿)

4.3 按照语音和提示信息进行操作

- ◆ 如果检测到可电击节律, AED训练机会提示按电击按键进行模拟电击。
- ◆ 如果不建议电击, AED训练机会根据当前配置进行CPR模式。

4.4 选择训练模式

机器已经设置了6种基本场景训练模式及4个可选的模拟场景模式。用遥控器选择不同的模式进行训练即可。

4.5 关闭设备

如需关闭设备, 请拔出电极插头, 将电极线和电极片收纳到储藏包里保存, 然后请关闭机盖。

警告: 如果设备暂停后30分钟内没有对设备执行任何操作, 则设备将自动关闭。

Table 1: Screen Display Instructions of Main Unit

No.	Explanation	Icon Style	Description
(1)	Mode display	1/2/3/4/5/6 	Displays the 6 training scenarios modes 1-6. If a simulation mode is selected with the remote control, the corresponding simulation mode icon will be displayed on the right side of the scenario mode number.
(2)	Semi-automatic / Fully-automatic mode	S F	Displays the current defibrillation mode (semi-automatic / fully-automatic). S stands for Semi-auto (semi-automatic mode), F stands for Fully-auto (fully-automatic mode).
(3)	CPR mode	30:2	Displays the current CPR mode 30:2.
(4)	CPR time	CPR 00:00	Calculates the CPR time from the device is powered on to it is shutdown.
(5)	Number of delivered shocks	⚡ 0	Displays the total number of shocks in a single mode. If you switch to other mode such as the 6th scenario mode, the number of shocks will be re-calculated.
(6)	Runtime area	00:11	Displays the device's operating time since powered on.
(7)	Volume		Displays the four volume icons: mute/low/medium/high.
(8)	Language		Displays the current language with the national flag icon.
(9)	Battery status indicator		Indicates the battery status.
(10)	Treatment information area	Plays the operation instruction with pictures	Displays the corresponding operation instruction according to the voice prompt.

2.2 Remote Control

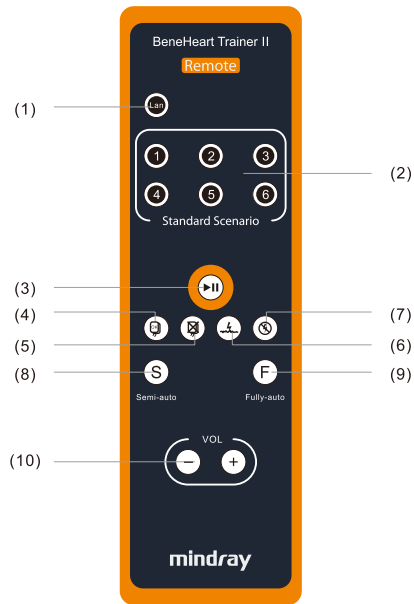


Figure 5. Remote control

(1) Language switch button: multi-languages are available for choice.

(2) Scenario selection: select from 1 to 6.

Table 2: Description of 6 Basic Scenarios Training Modes

Simulated Scenarios	Description	Operation
①	Shockable rhythm— Defibrillation succeeds in one shock	Shockable rhythm One shock Normal rhythm
②	Shockable rhythm— Defibrillation succeeds in two shocks	Shockable rhythm Two shocks Normal rhythm
③	Shockable rhythm— Defibrillation succeeds in three shocks	Shockable rhythm Three shocks Normal rhythm

3.2 连接电极片与电极线

(1) 将电极片与电极线连接好。

注：C&S系列除颤器的电极线与电极片是连在一起的，不需要连接。

(2) 在训练过程中，根据语音提示将电极线插头插入机器左上角的电极片接口内。

电极片说明：训练用的电极片跟真正的AED机器使用的电极片类似，但外观尺寸不同，材质不同，不会传导电流。电极线连接电极片后可与任何人体模型配合使用；当把电极线端子插进训练机插孔时，训练机就会按照训练流程进行演示。

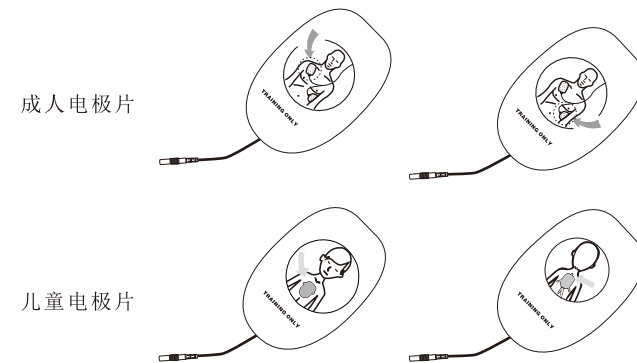


图10.电极片

注意：训练电极片仅供培训时使用，不可以连接到真正的AED机器进行临床使用。

标准包装只包括成人电极片，儿童电极片为选配配件。

3. 产品安装

3.1 主机安装电池

- (1) 将设备正面朝下放置在工作台上。
- (2) 拧下电池盖上的螺钉。
- (3) 如图所示, 卸下电池盖。

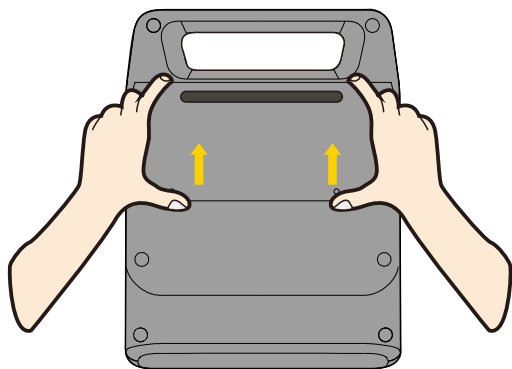


图9. 卸下电池盖

- (4) 装入8节5号AA电池, 安装时请注意电池极性。
(注: C&S系列除颤器所使用的电池是一次性二氧化锰锂电池。)
- (5) 合上电池盖, 用螺钉重新安装电池盖。

④	Shockable rhythm – Defibrillation succeeds in one shock Shockable rhythm Defibrillation succeeds in one shock	Shockable rhythm One shock Normal rhythm Shockable rhythm One shock Normal rhythm
⑤	Shockable rhythm	Shockable rhythm throughout the whole course
⑥	Normal rhythm	Normal rhythm throughout the whole course

- (3) Play/pause button: when the trainer is playing, press this button, the trainer enters the pause state; when the trainer is under the pause state, press the button, it will continue its play.
- (4) Simulate the scenario that the pads have been connected properly
Press the button during scenario training process, the upper left corner of the main unit screen will display “☺” (for device configured with the screen), it enters the scenario of simulating good pads contact.
- (5) Simulate the scenario that the pads are not connected properly
Press the button during scenario training process, the upper left corner of the main unit screen will display “☒” (for device configured with the screen), it enters the scenario of simulating poor pads contact.
- (6) Simulate “shock advised” scenario (shockable rhythm)
Press the button during scenario training process, the upper left corner of the main unit screen will display “⚡” (for device configured with the screen), it enters the scenario of simulating shock.
- (7) Simulate “no shock advised” scenario (normal rhythm)
Press the button during scenario training process, the upper left corner of the main unit screen will display “☹” (for device configured with the screen), it enters the scenario of simulating no-shock.
- (8) Semi-auto mode button: when it is on fully-auto mode, press this button, it will enter the semi-auto mode.
- (9) Fully-auto mode button: when it is on semi-auto mode, press this button, it will enter the fully-auto mode.
- (10) Volume +/-: High/medium/Low/Mute adjustable.

2.3 Other Components

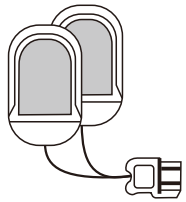


Figure 6. Electrode pad & electrode wire



Figure 7. Operator's manual



Figure 8. Carry case

3. Product Installation

3.1 Install Battery

- (1) Place the device on the worktable with face down.
- (2) Remove the screws from the battery door.
- (3) Remove the battery door as indicated.

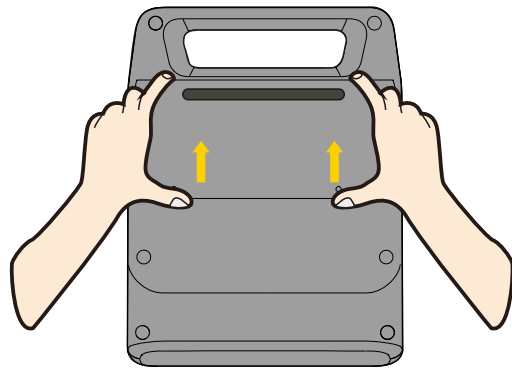


Figure 9. Removing the battery door

- (4) Install 8 AA batteries properly, pay attention to the battery polarity.
(Note: Batteries used by a C&S series defibrillator are disposable manganese dioxide lithium batteries.)
- (5) Close the battery door and reinstall the battery cover with the screws.

④	可电击节律一次除颤成功 可电击节律一次除颤成功	可电击节律一次除颤 正常节律 可电击节律一次除颤 正常节律
⑤	可电击节律	全程可电击节律
⑥	正常节律	全程正常节律

(3) 播放/暂停按键：当训练机正在播放时，按此按键，进入暂停状态；当训练机处于暂停状态时，按此按钮，继续播放。

(4) 模拟电极片接好模式

在模式训练过程中按此按钮，主机屏幕左上角显示“OK”（只适用于有屏的机器），进入模拟电极片接触良好程序。

(5) 模拟电极片未接好模式

在模式训练过程中按此按钮，主机屏幕左上角显示“✘”（只适用于有屏的机器），进入模拟电极片接触不良程序。

(6) 模拟建议电击模式（可电击节律）

在模式训练过程中按此按钮，主机屏幕左上角显示“⚡”（只适用于有屏的机器），进入模拟电击程序。

(7) 模拟无电击模式（正常节律）

在模式训练过程中按此按钮，主机屏幕左上角显示“⊖”（只适用于有屏的机器），进入模拟无电击程序。

(8) 半自动模式按键：如果当前是全自动模式，按此按键，可以切换到半自动模式。

(9) 全自动模式按键：如果当前是半自动模式，按此按键，可以切换到全自动模式。

(10) 音量+/-键：大/中/小/静音四档可调。

2.3 其他组件

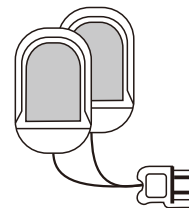


图6. 电极片&电极线



图7. 说明书



图8. 储藏包

2.2 遥控器

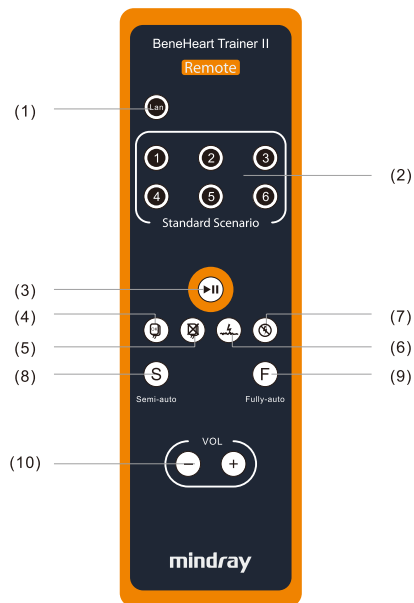


图5. 遥控器

- (1) 语言切换按键: 可以切换多种语言。
- (2) 基本训练模式选择: 从1-6共6个基本训练模式选择。

表2: 6个基本训练模式 (模拟病例) 说明

模拟病例	描述	操作
①	可电击节律— 一次除颤成功	可电击节律 一次除颤 正常节律
②	可电击节律— 两次除颤成功	可电击节律 两次除颤 正常节律
③	可电击节律— 三次除颤成功	可电击节律 三次除颤 正常节律

3.2 Connect Pads to Electrode Wires

- (1) Connect the pads and the electrode wires properly.
Note: The electrode wire of the C&S series defibrillator is connected to the electrode pad and does not need to be connected.
- (2) During the training, plug the electrode wire into the pads jack on the upper left corner of the machine by following the voice prompt.

Statement of electrode pad: The electrode pads for training are similar to the electrode pad used in a clinical AED machine, however, their external dimensions and materials are different and cannot conduct current. After the electrode wires are connected to pads, it may be used with any CPR manikin; when inserting the electrode wire terminal into the trainer jack, the trainer will demonstrate the process according to the training procedure.

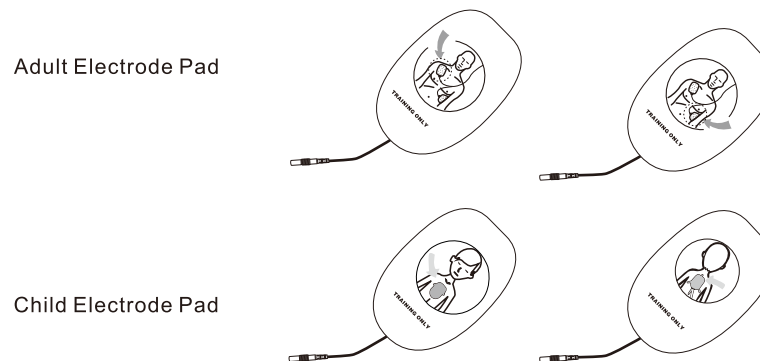


Figure 10. Electrode Pads

Note: The training pads are for training used only and should not be used with a real clinical AED.

The standard package only includes adult electrode pads, the child electrode pads are optional accessories.

4. Operation Instruction

4.1 Turn On the Device

Open the lid, then the device automatically powers on. Then the AED Trainer will detect the pads connection. If the pads have not been connected and plugged into the pads connector properly, the trainer will keep on prompting its user to connect the pads and the electrode wire plugs properly; if the adult pads are connected, the AED trainer will enter the Adult Mode; if the child pads are connected, the AED trainer will enter the Child Mode.

4.2 Apply Electrode Pads

Take out the pads for training and apply them to a CPR manikin body according to the following positions.

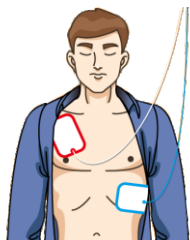


Figure 11. Apply pads (adult)

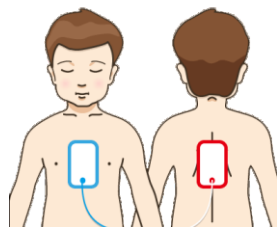


Figure 12. Apply pads (child)

4.3 Carry Out Operations According to Sound and Prompt Information

- ◆ If a shockable rhythm is detected, the AED trainer will prompt the user to press the Shock button to simulate a shock.
- ◆ If a shock is not advised, the AED trainer will perform CPR mode according to the current configuration.

4.4 Select Scenario Mode

The AED trainer has preset 6 basic scenarios and 4 optional simulation scenarios. Select different scenarios with the remote control for training.

4.5 Turn Off the Device

To turn off the device, pull out the electrode plug, store the electrode wire and electrode pads in the carry case, and then close the lid to turn off the device.

- ※ If no operation is found performed on the device within 30 minutes after the device is paused, the device will automatically shut down.

表1: 主机屏幕显示说明

序号	说明	图标样式	详述
(1)	模式显示	1/2/3/4/5/6 	显示6个基本训练模式1-6。如果用遥控器选择模拟模式,则相应的模拟模式标志会显示在训练模式数字的右边。
(2)	半自动/全自动模式	S F	显示当前的除颤模式(半自动/全自动)。S代表Semi-auto(半自动模式),F代表Fully-auto(全自动模式)。
(3)	CPR模式	30:2	显示当前的CPR模式30:2。
(4)	CPR持续时间	CPR 00:00	记录从开机到关机之间所有CPR环节的总时间。
(5)	电击次数	⚡ 0	记录单个模式下电击的总次数,如果切换其他模式比如第6种基础训练模式,电击次数重新计算。
(6)	开机后设备运行时间	00:11	从开机开始计算时间直至关机。
(7)	音量		显示静音/小/中/大四种音量图标。
(8)	语言		用国旗标志显示当前训练机语言。
(9)	电量状态		电池图标显示电池的状态。
(10)	治疗信息区	播放操作指示图	根据语音提示播放对应的操作指示图。

2.1.2 主机后视图

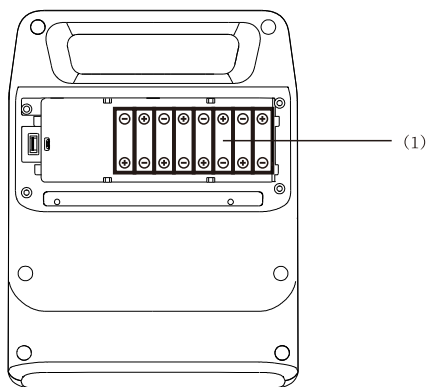


图3.主机后视图

(1) 电池仓

2.1.3 屏幕显示 (只适用于有屏的机器)

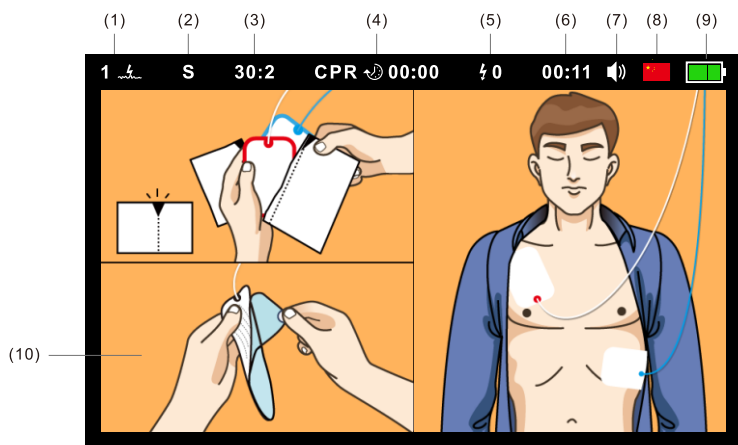


图4. 屏幕显示图

5. Care and Cleaning

5.1 Main Unit Maintenance Method

The main unit must be cleaned on a regular basis. At places with heavy environmental pollution or strong sandstorm, the main unit must be cleaned more frequently. Optional cleaning agents include hydrogen peroxide solution (3%) and ethanol (75%).

When cleaning the trainer:

- (1) Turn off the power and remove batteries.
- (2) Cleanse the display screen with soft cotton balls soaked with proper amount of cleaning agent.
- (3) Cleanse the trainer surface with a soft cloth soaked with proper amount of cleaning agent.
- (4) Remove excess cleaning agent with a dry cloth when necessary.
- (5) Place the trainer in a ventilated cool environment to let it dry.

5.2 Pads Maintenance Method

- (1) Pads must be kept clean to avoid dust, oily substances, sticky articles and other contaminants, otherwise, pads viscosity will decline.
- (2) Stick the pads to their original covers rather than to other articles randomly for preservation to avoid damaging them.
- (3) When pads viscosity declines due to contamination, clean directly with a small amount of water slightly, which viscosity will be recovered temporarily after being fully dried. If too much water is used for cleaning, pads viscosity will decline.
- (4) Do not wipe the sticky surface with tissue or cloth.
- (5) Do not scrape the sticky surface with nails or brushes.
- (6) Do not wash pads frequently and do not clean pads with cleaning agent or hot water.
- (7) Keep the pads away from direct sunlight, high temperature, moisture, dust and corrosive gas.

Considerations in Trainer Keeping

- (1) Do not immerse the trainer into liquid.
- (2) Do not pour any liquids onto the trainer or its accessories.
- (3) Do not allow liquid to enter the enclosure.
- (4) Do not use any abrasive material such as steel wool or polishing compound or any strong solvent such as acetone or cleaning agent containing acetone component for cleaning and disinfection.
- (5) Keep the trainer away from direct sunlight, high temperature, moisture, dust or corrosive gas.
- (6) Keep the main unit, pads, electrode wires, remote control and manual into the carry case.

※ Be sure to obey the above considerations to use the trainer correctly.

6. Product Specifications and Configurations

Main Unit Specification

Product Model: BeneHeart Trainer II / IIs
 Product Name: AED Trainer
 Power Supply: DC12V, 8 AA batteries
 External Dimension: 210 x 286 x 78mm (±20mm)
 Product Weight: 1.5±0.2kg (BeneHeart Trainer IIs)
 1.3±0.2kg (BeneHeart Trainer II)
 Maximum Working Current: ≤500mA
 Off Current: ≤10μA

Note: Support chargeable AA batteries, rechargeable batteries and charger must be purchased by the customer.

Remote Control Specification

Power: DC3V, 2 AAA batteries
 Static Working Current: < 5μA
 Maximum Working Current: <10 mA

2. 产品组成与结构

产品组成包括: 主机、遥控器、电极线、电极片、说明书、储藏包。

2.1 主机

2.1.1 主机前视图

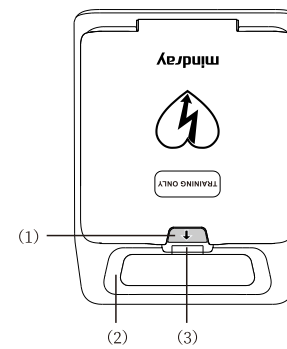


图1. 机盖合上

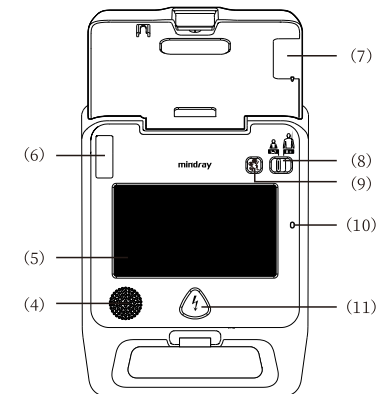


图2. 机盖打开

- (1) 解锁按键: 用于打开或关闭机盖。
- (2) 提手
- (3) 状态指示灯
 - 绿色: 设备已开启, 并且可以正常工作。
 - 绿色闪烁: 使用遥控器操作时绿灯闪烁。
 - 熄灭: 未开机, 未安装电池或电池出现故障。
- (4) 扬声器: 播放语音提示。
- (5) 显示屏(注: BeneHeart Trainer II 没有屏)
- (6) 电极片接口: 用于连接电极片插头。
- (7) 电极片仓: 用于存放电极片。
- (8) 成人/小儿模式开关: 向右或向左拨动可在成人和小儿模式之间切换。
- (9) 语言按键: 按此按钮可以在配置的语言之间切换。
- (10) 遥控器接收管: 使用遥控器时尽量对着接收管位置来操作。
- (11) 电击按键: 按下此按键来发送电击。

1. 产品简介与功能特点

1.1 产品简介

BeneHeart Trainer II / IIs自动体外除颤器训练机(AED训练机)是专门为急救人员在使用BeneHeart C&S系列自动体外除颤器之前的培训而设计的。该训练机在培训指南、训练程序完全模拟BeneHeart C&S系列自动体外除颤器, 目的在于帮助急救人员熟悉此除颤器, 并掌握在急救过程中使用除颤器的一些必备的基础操作技能。

注: 在使用临床AED之前, 急救人员应当首先完成相应的急救训练课程的培训, 以便在真实事故中冷静地应对, 而这些急救培训也包括学习使用AED训练机。接受过培训的人员在遇到急救场合时, 应熟知如何评估病人的状况, 如意识丧失、呼吸停止、心跳停止等, 并能精通CPR操作程序和相关的医学程序。

1.2 产品功能特点

- BeneHeart Trainer II / IIs AED训练机预置了6种训练模式, 每个模式都是模拟真实的心脏突发停止事件, 帮助使用者快速掌握AED使用技能。这些模式符合AHA心肺复苏指南要求的训练标准。请核对当地的医学指南及急救医学对该培训的其他要求。
- BeneHeart Trainer II / IIs AED训练机具有模拟电击功能。但它不能输出高能量, 确保了培训者在使用过程中的安全。
注: 在使用BeneHeart C&S系列自动体外除颤器时会有高电压电击, 因此请切记操作安全。
- BeneHeart Trainer II / IIs AED训练机具有模拟电击功能。但它不能输出高能量, 确保了培训者在使用过程中的安全。
- BeneHeart Trainer II / IIs AED训练机配置了遥控器, 方便教员控制AED训练机和选取不同的训练模式。

Product Configurations:

No.	Contents	Qty	Unit	Remarks
1	Main unit	1	EA	
2	Remote control	1	EA	
3	Electrode wire	1	EA	Adult electrode wire (with yellow terminal)
4	Electrode pad	1	EA	Adult pads, can be used repeatedly
5	Operator's manual	1	EA	
6	Carry case	1	EA	

Configuration Statement: child electrode wire and child electrode pads are optional accessories which are not included in the standard package. Customers can purchase the child electrode wire and child electrode pad separately according to their needs.

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