尺寸: 148 X 210MM

BeneHeart Trainer

自动体外除颤仪训练机

Automated External Defibrillator Trainer (AED Trainer)

深圳迈瑞生物医疗电子股份有限公司

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使用说明书 Operator's Manual



售后服务

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销售商名:	曲区	编:	
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产品规格及配置

产品型号: BeneHeart Trainer

产品名称: AED训练机

电 源: DC12V, 8节5号 (AA) 电池

外观尺寸: 288X210X80mm

产品重量: 1.4±0.2kg (标准版)

2.8±0.2kg (配重版)

最大工作电流: ≤500mA

关机电流: ≤10 μA

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: < 5μA 最大工作电流: <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	2	条	成人/小儿电极线各一条
4	成人电极片	2	对	电极片可重复使用
5	儿童电极片	1	对	电极片可重复使用
6	说明书	1	本	
7	储藏包	1	个	

Direction for Use

Product Introduction

The BeneHeart AED (Automated External Defibrillator) Trainer is designed specific for training first-aid personnel before they use BeneHeart D1 AED. The trainer fully simulates the BeneHeart D1 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.

Product Function Features

BeneHeart trainer (AED trainer) can simulate shock but cannot output high energy, thus ensuring its safety during use. (Note: high-voltage shock is applied in real AED application, be sure to keep this in mind for operation safety).

The BeneHeart Trainer (AED trainer) has preset 6 training scenarios (refer to the detailed description of simulated cases on Page 13 in the manual), which are demonstrated by pictures and sounds; 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.

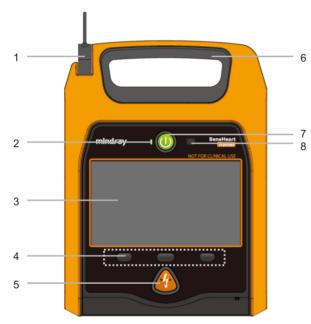
Direction for Use

Product Composition and Button Description

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

Main Unit

1.1 Front View of the Main Unit



1. Pads connector

It is used to connect the pads jack.

2. Status indicator

Green: Power indicator.

- 3. Display screen
- 4. Soft key area

Correspond to hotkeys on the screen. Under different interfaces, the functions of the same soft key are different.

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5. Shock button

Press this button to deliver a shock.

6. Handle

预设的6种病例

BeneHeart Trainer "AED 训练机"预设的6种模拟病例

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
4	可电击节律一 一次除颤成功 可电击节律一 一次除颤成功	可电击节律 一次除剪 正常节律 可电击节 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

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产品保存方法

电极片保养方法

- 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。
- 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。
- 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。
- 请不要用纸巾、布等擦粘贴面。
- 请不要用指甲、刷子等刮伤粘贴面。
- 请不要频繁清洗,请不要使用洗涤剂、热水清洗。
- 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。

主机保养方法

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%) 乙醇(70%)。

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。

保管注意事项:

- 不得将设备浸没在液体中。
- 不得将液体倾倒在设备或附件上。
- 不得让液体进入机壳。
- 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。
- 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。
- 请用储藏包保管主机、电极片、电极线,遥控器和说明书。

※请您务必遵守以上的注意事项及其正确使用方法。

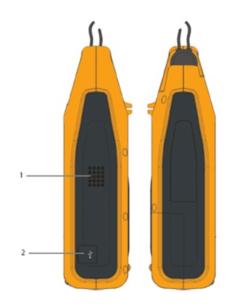
7. On/Off button

Press this button to power on or off the trainer.

8. Remote control receiver tube

When operating with a remote control, point it to the receiver tube.

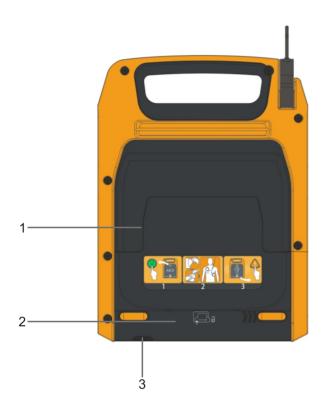
1.2 Side View



- 1. Loud speaker
- 2. USB interface

Direction for Use

1.3 Rear View



- 1. Pads compartment
- 2. Battery compartment
- Release button for the battery compartment
 Press down this button and slide the battery cover to the right to open the battery compartment.

产品使用方法

1. 开机

按电源键开机,显示拨打急救电话2秒(如下图)后,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,则进入儿童模式。



2. 贴放电极片

取出训练用的电板片,将电极片按照如下位置贴到模拟人身上。







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模式或持续进行分析。

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8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。

参数设置包括: 音量,场景,CPR模式,电击电量及语言。按 **>>** 选择参数 如场景,然后按上下键选择不同场景如1-6。

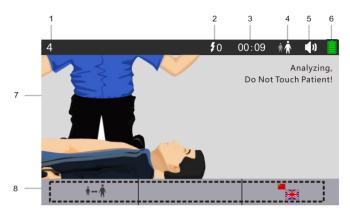
特别提示:此AED训练机带有多种语言功能。机器已默认两种语言——中文和英语,用户可以再选择一种语言作为第三种语言,然后再使用机器过程中可以在这三种语言之间切换。例如:用户按 ≫ 选择参数 ∰ "语言设置",然后按上下键选择目标语言如俄语,则以后使用机器时可以在中文—英语—俄语之间切换。如果选择的语言是中文或者英语,则只能在中文—英语之间切换。

1	01:55		
音量	低		
场景	1		
CPR模式	30: 2		
电击电量 (小儿)	1:50J 2:70J 3:100J		
电击电量(成人)	1:200J 2:300J 3:360J		
	**		
恢复默认值			
▲ ▼	>>		

注:设置好的参数将会被自动保存,不需再按任何按键进行保存操作。用户 在设置好参数后可以进行其他操作如关机或者返回当前模式。下次开机时 默认上一次设置好的参数,如上次设置场景6,此次开机将自动进入模式6。

Direction for Use

Screen Display



- Training scenario and simulation mode
 There are a total of six training scenarios and eight simulation modes.
- 2. Number of shocks delivered
- 3. Timing area of the system
 This area shows the operating time of the AED trainer after it is turned on.
- 4. Patient type (Adult/ Pediatric)
- 5. Volume icon
- 6. Battery status indicator It indicates the battery status.
- 7. Treatment information area
- 8. Soft key operation area
 Its soft key names correspond to the following soft buttons, which will change with the
 work mode and the interface view, when the soft button name is blank, it indicates the
 soft button is inactive currently.

Soft Button Icons

The following icons may appear at the soft button operation area, which meanings are as follows:

- Return to the previous page
- Adjust the parameter by +
- Adjust the parameter by -
- >> Move the option cursor
- Switching between the Adult/Pediatric Mode
- O Power off

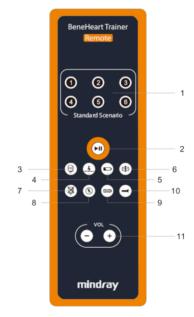
Direction for Use

Setting

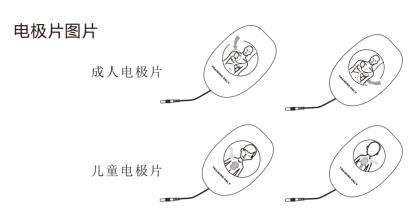
Switch the breathing- cardiac compression rate

Audio language soft key
Switch the language of audio prompts. The symbol changes if the system language
is changed. The larger symbol indicates the current language while the smaller one
indicates the target language.

Remote Control



- 1. Scenario selection: Select from 1 to 6.
- 2. 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.
- Note: press and hold the Play/pause button can switch the language. When the trainer is playing, press and hold the Play/pause button for about 2 seconds till the language icon is switched, the language will be changed successfully.
- 3. 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 "(w)", it enters the scenario of simulating good pads contact.



AED训练机设置

- 1. 按开机键开机
- 2. 再按一次开机键即进入关机和设置参数界面(见下图)。



- 2.1 按 Ů 键关机
- 2.2 按 🗂 返回到当前模式
- 2.3 按 键进行参数设置

基本操作及设置

主机安装电池

1)按下电池仓解锁按钮,同时按照下图箭头指示方向向右将电池门推开。



- 2) 装入8节5号AA电池,并注意极性。
 - (注:真正的AED所使用的电池是一次性二氧化锰锂电池)
- 3)将电池门盖上电池仓,然后向左推直到听到电池门卡到位的声音。

连接电极片与电极线

- 1. 将电极片与电极线连接好。成人电极片应与成人电极线(橙色端子线) 相连,儿童电极片应与儿童电极线(绿色端子线)相连。
- (注: Beneheart D1 除颤仪的电极线与电极片是连在一起的,不需要连接)
- 2. 将电极线的插头插入机器左上角的电极片接口内。
- 3. 将电极片放入机器背面的电极片仓内。

训练用电极片

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。

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

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- 4. Simulate "shock advised" scenario (shockable rhythm) Press the button during scenario training process, the upper left corner of the main unit screen will display ", it enters the scenario of simulating shock.
- 5. Simulate the scenario of low battery Press the button during scenario training process, the upper left corner of the main
- 6. Simulate the scenario of motion artifact Press the button during scenario training process, the upper left corner of the main unit screen will display " $(\frac{\bullet}{\bullet})$ ", it enters the scenario of "motion artifact".
- 7. 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 " 💢 ", it enters the scenario of simulating poor contact of pads.
- 8. Simulate "no shock advised" scenario Press the button during scenario training process, the upper left corner of the main unit screen will display " (), it enters the scenario of simulating no-shock.
- 9. Simulate the scenario that the battery power runs out Press the button during scenario training process, the upper left corner of the main unit screen will display " ", it enters the scenario of simulating the battery power is running out.
- 10. Simulate the scenario of unit error Press the button during scenario training process, the upper left corner of the main unit screen will display "

 ", it enters the scenario of simulating the unit error.
- 11. Volume +/-: High/Medium/Low/Mute adjustable.

Other Components

Pads & electrode wires



Operator's manual

ReneHeart Trainer

自动体外除额仪训练机





Carry case

Basic Operations and Settings

Battery installation

1) Press the battery compartment release button and push the battery compartment cover to the right as per the direction pointed by the arrow shown below.



- 2) Install 8 AA batteries properly, pay attention to the battery polarity. (Note: Batteries used by a true clinical AED are disposable manganese dioxide lithium batteries)
- 3) Close the battery cover of the battery compartment and push it leftward until the battery cover gives out an sound showing it is in position.

Connecting Pads to Electrode Wires

- 1. Connect the pads and the electrode wires properly. The adult electrode pad must be connected to the adult electrode wire (with orange connector) and the pediatric electrode pad must be connected to the pediatric electrode wire (with green connector). (Note: the electrode wires and pads of the BeneHeart D1 AED are connected together, which do not need additional connection)
- 2. Plug the electrode wire into the pads jack on the upper left corner of the machine.
- 3. Place the pads into the pads compartment properly at the back of the unit.

Training Pads

Pads for training are similar to those used in a clinical AED unit, 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.

Note: The training pads are for training use only and must be not used with the real clinical AED.

- 5. 模拟电池电量低模式 在模式训练过程中按此按钮,主机屏幕左上角显示" ■ ",进入模拟 电池电量低程序。
- 6. 模拟运动干扰模式 在模式训练过程中按此按钮,主机屏幕左上角显示"(*)",进入模拟 "运动干扰"程序。
- 7. 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" ",进入模拟 电极片接触不良程序。
- 8. 模拟不建议电击模式(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" ",进入模拟 无电击程序。
- 9. 模拟电池电量耗尽模式 在模式训练过程中按此按钮,主机屏幕左上角显示" ☑ ",进入模拟 电量耗尽程序。
- 10. 模拟设备故障模式 在模式训练过程中按此按钮,主机屏幕左上角显示" **←**",进入模拟 设备故障程序。
- 11. 音量+/-键: 高/中/低/关可调。

其它组件图

电极片&电极线



说明书



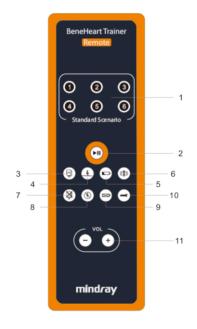
储藏包



语音提示语言切换热键

切换语音提示的语种。系统语言发生变化时,此处图标随之变化。较大图标为当前语种,较小图标为按下该软按键后的目标语种。

遥控器

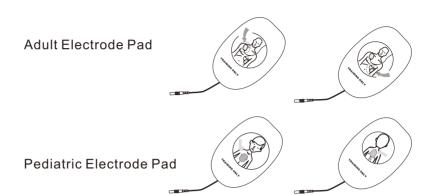


- 1. 模式选择: 从1-6共6个基本模式选择。
- 2. 播放/暂停按键: 当训练机正在播放时,按此按键,进入暂停状态;当训练机处于暂停状态时,按此按钮,继续播放。

注意:长按播放/暂停按键可以切换语言。当训练机正在播放时,长按播放/暂停按键约2秒钟,看到屏幕右下方语言图标切换之后,语言切换成功。

- 3. 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" ",进入模拟 电极片接触良好程序。
- 4. 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" , 进入模拟 电击程序。

Direction for Use



AED Trainer Setting

- 1. Press the Power button to turn on the trainer.
- 2. Press the Power button again to enter the power-off interface and the parameter-setting interface (see the figure below).

4		00:05	())
Volum		Low	
Scene		4	
CPR Patt	Hand	ls-Only	
Charge Lev	1:50J 2:70J	3:100J	
Charge Leve	1:200J 2:300J	3:360J	
Ф	o _o		ב

- 2.1 Press the button to turn off the trainer.
- 2.2 Press the button to return to the current scenario.
- 2.3 Press the button to set parameters.

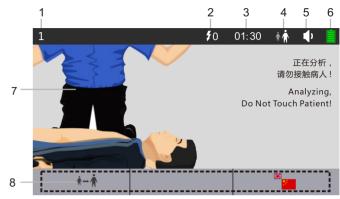
Parameter setting includes: volume, scene, CPR pattern, charge level and language. Press the button to choose parameters such as scene, and then press the Up/Down button to choose different scenes such as 1-6.

Special Tips: this AED Trainer comes with multi-languages function. The default languages are Chinese and English. Users can choose one more language as the third language, and then they can change language among these three languages during operation. For example: users can press the button to choose parameter "Language setting", and then press the Up/Down button to choose different language such as Russian, after that, they can change language among Chinese-English-Russian during operation. If the third language which the user chose is Chinese or English, then only Chinese and English can be changed during operation.

4	00:05		
Volume	Low		
Scene	4		
CPR Pattern	Hands-Only		
Charge Level(Kid)	1:50J 2:70J 3:100J		
Charge Level(Adult)	1:200J 2:300J 3:360J		
Default			
▲ ▼	>>		

Note: Set parameters will be saved automatically rather than by pressing any key. Users may carry out other operations such as turn off the trainer or return to the current scenario after setting parameters properly. The trainer will default the parameters set last time when it is powered on next time; For example, if Scene 6 was set last time, the trainer will enter Scenario 6 automatically when it is powered on.

屏幕显示



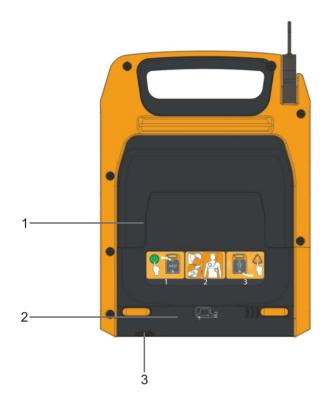
- 1. 模式显示显示 显示6个模式1-6及8个模拟模式的标志。
- 2. 电击次数
- 3. 系统计时区 显示AED训练机此次开机后运行的时间。
- 4. 病人类型 (成人/小儿)
- 5. 音量图标
- 6. 电池状态图标 电池图标显示电池的状态。
- 7. 治疗信息区
- 8. 软按键操作区 热键名称和下面的软按键一一对应,这些软按键名称会因工作模式 和界面视图的改变而改变,软按键名称为空白时,表示该软按键当

前无效。 **软按键图标**

以下图标可能在软按键操作区出现,其意义如下:

- ☎ 返回上一页
- ▲ 调整参数+
- ▼ 调整参数-
- >> 移动选项光标
- ₩ 切换成人/小儿模式
- **心** 关机
- ♥ 设置
- ₩ 切换呼吸按压比

1.3 后视图



- 1. 电极片仓
- 2. 电池仓
- 3. 电池仓解锁按钮 按下此按钮同时向右滑动电池仓门来打开电池仓。

Direction for Use

Product Operating Procedures

1. Turn on the trainer

Press the Power button to turn on the trainer. The screen will show the icon "call emergency" (as show below) for 2 seconds. 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 pediatric pads are connected, the AED trainer will enter the Pediatric Mode.



2. Apply pads

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







- 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 no shock is advised, the AED Trainer will enter the CPR pattern or keep on analyzing according to the current configurations

4. Select training scenario

The AED trainer has set 6 basic scenarios and 8 optional simulation scenes. Select different scenarios with its remote control for training.

Product Storage Method

Pads Maintenance Method

- Pads must be kept clean to avoid dust, oily substances, sticky articles and other contaminants, otherwise, pads viscosity will decline.
- Stick the pads to their original covers rather than to other articles randomly for preservation to avoid damaging them.
- 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.
- Do not wipe the sticky surface with tissue or cloth.
- Do not scrape the sticky surface with nails or brushes.
- Do not wash pads frequently and do not clean pads with cleaning agent or hot water.
- Keep the pads away from direct sunlight, high temperature, moisture, dust and corrosive gas.

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 (70%).

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.

Considerations in Trainer Keeping:

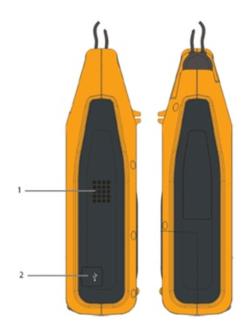
- Do not immerse the trainer into liquid.
- Do not pour any liquids onto the trainer or its accessories.
- Do not allow liquid to enter the enclosure.
- Do not use any abrasive material such as steel wool or polishing compound or any strong solvent such as acetone or cleaning agent containing acetone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

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

6. 手柄

- 7. 开关机按键 按下此按键来开机或关机
- 8. 遥控器接收管 使用遥控器时尽量对着接收管位置来操作

1.2 侧视图



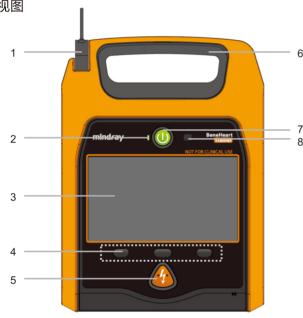
- 1. 扬声器
- 2. USB接口

产品组成及按键说明

产品组成包括: 主机、电极片、电极线、遥控器,说明书、储藏包。

主机

1.1 主机前视图



- 1. 电极片接口 用于连接电极片插头
- 2. 状态指示灯 绿色: 电源指示灯
- 3. 显示屏
- 4. 软按键区 与屏幕上的热键名称对应。在不同界面下,同一软按键的功能并不相同。

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5. 电击按键 按下此按键来发送电击

Direction for Use

6 kinds of Scenarios Preset

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
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

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Direction for Use

Product Specifications and Configurations

Product model: BeneHeart Trainer
Product name: AED Trainer

Power supply: DC12V, 8 AA batteries External dimension: 288X210X80mm

Product weight: 1.4±0.2kg (Standard Edition)

2.8±0.2kg (Weight Increase Edition)

Maximum working current: ≤500mA

Off current: ≤10µA

Note: Support chargeable AA batteries, rechargeable batteries and

charger must be purchased by the customer.

Remote control specifications

Power supply: DC 3V, 2 AAA batteries

Static working current: < 5µA

Maximum working current: < 10mA

Product Configurations:

SN.	Contents	Qty	Unit	Remarks
1	Main unit	1	PC	
2	Remote control	1	PC	
3	Electrode wire	2	PC	1pc adult electrode wire 1pc pediatric electrode wire
4	Adult electrode pad	2	Pair	Can be used repeatedly
5	Pediatric electrode pad	1	Pair	Can be used repeatedly
6	Operator's manual	1	PC	
7	Carry case	1	PC	

产品简介

BeneHeart Trainer "AED训练机" (自动体外除颤仪训练机)是专门为急救人员在使用BeneHeart D1除颤仪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 D1 除颤仪,目的在于帮助急救人员熟悉此除颤仪,并掌握在急救过程中使用除颤仪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。

产品功能特点

BeneHeart Trainer "AED训练机"具有模拟电击功能。但它不能输出高能量,确保了使用过程中的安全。(注:在使用真正的AED时会有高电压电击,因此请切记操作安全)

BeneHeart Trainer "AED训练机"预先设置了6种训练模式(请参照本说明书最后第13页中的模拟病例的详细描述),用图片和声音进行演示,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。