



# HEARTON AED

Automated External Defibrillator

# A16

"ANYONE, ANYWHERE, ANYTIME"

Mediana's **Heart On AED** helps to save people's lives in case of emergency.



## 1 Cover

Protected Icon Sheet, Shock Button, Adult/Pediatric Mode Switch Button

## 2 Status Indicator

AED status, battery level status and temperature status, PADS status

## 3 Connecting Socket

Defibrillator pads connector socket. The pads are always ready for use.

## 4 Visual Icons

Indicator LED light flash with the corresponding voice prompts  
Visual Icons clarify the necessary actions.

## 5 Shock Button (Semi-Auto Only)

Flashing button indicates "Ready for shock delivery"  
Push the button to deliver shock.

## 6 Language Button

User can select the desired language among 3 languages

## 7 Adult/Pediatric Mode Switch button

Easily switch from adult to pediatric mode without changing pads.

## 8 Speaker

Acoustic indicator for real time guidance.



## 9 IR Port

IR communication Port between PC & AED

## 10 Battery

Disposable LiMnO2 Non-Rechargeable

## 11 SD Card Port

Review stored data & software upgrade



## 12 Pads

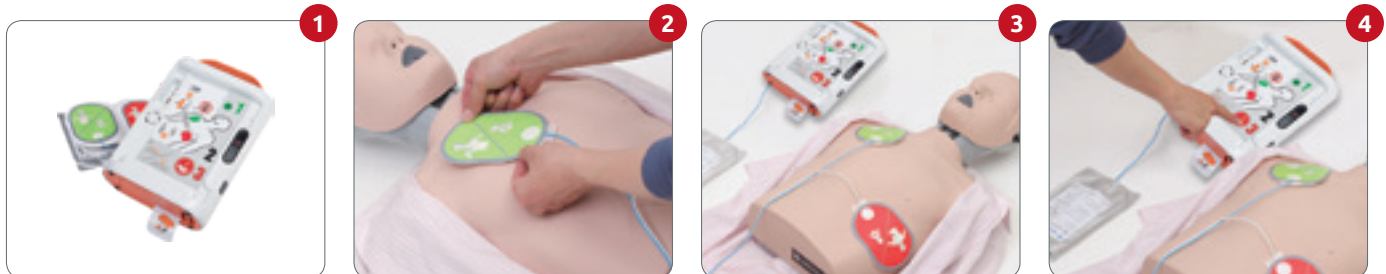
Two-In-One Electrode (Adult / Pediatric)

## 13 CPR feedback system

## A16 Features

- Semi-automatic or fully-automatic operation (Adult/Pediatric)
- Pace Pulse detection & rejection function
- CPR feedback function (option)
- Environmental sound recording (option)
- Light weight 1.97kgs
- Super fastest shock delivery time
- 3 language selection
- IP55
- Adult/Pediatric Mode Switch
- 2015 AHA / ERC Guidelines
- Battery Capacity 3000mAh/15V(200 shocks or 6hr monitoring)
- Voice prompt, Action Icon(LED) Indicator, Status LCD
- Status indicator : self test (fail/pass), battery level, Temp, condition, pads
- Self-test : POST(Power On Self Test), Periodic Test (Daily, Weekly, Monthly), Pad Quality Check BIST(Battery Insertion Self Test)
- SD card, IR communication support
- Event review PC software (Option)

## Fast & Easy Operation



1. Open the Cover

2. Attach the Pads

3. Analysis of Heart Rhythm

4. Push the Shock Button

## AED Event Review Software



# A16 Specifications

## Defibrillation Electric Shock

Waveform	Biphasic Truncated Exponential (BTE) waveform(impedance compensation)
Energy	Adult: 170 to 195J (±5%) Pediatric: 44 to 51J (±5%)
Operating mode	Semi-Auto, Fully-Auto

## ECG

Lead	II (RA, LL)
Patient impedance	25 to 200 ohm
Detection	V/F greater than or equal to 0.2 mV V/T Adult: greater than or equal to 150 bpm Pediatric: greater than or equal to 180bpm

## Indication

Controls	Standard	Power button, Shock button, Patient mode switch button, Select language button
Indicators	Visible	Action icon, Status LCD (AED status, Battery status, Temperature status, PADS status), LED
	Audible	Audio speaker (Voice prompt, CPR indication) Beep (CPR indication, Power on, Critically Low Battery, Self-Test fail, alarm of abnormal operation)

## Physical

Dimensions	200 × 286.5 × 90 (mm) (W×H×D)
Weight	Approx. 1.95kg including the battery excluding pads

## Self Test

Cycle	Every 24 hours, 1 week, 1 month Power on self test, Battery insertion self test
Test result	Status LCD displays "O"/"X".

## Data Backup and Communication

Standard	Internal memory, SD card slot, IR communication port
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# Accessories Specifications

## Pads

Adult / Pediatric Pads	
Shelf life	36 months from manufacture date (PADS-16B) 30 months from manufacture date (PADS-16Q /PADS-16CQ)
Electrodes	Disposable pads
Placement	Adult: Anterior-lateral Pediatric: Anterior-posterior
Minimum active gel area	80 cm <sup>2</sup> +/-5%
Cable length	About 1.8 m

Environmental Conditions	
Temperature	Operation: 0 to 43°C (32 to 109.4°F) Storage: 0 to 43°C (32 to 109.4°F)
Relative Humidity	5 to 95% RH (Non-condensing)

## Battery

Battery	
Type	LiMnO <sub>2</sub> , Disposable, Long Life Primary Cell
Voltage/Capacity	15V, 3000 mAh
Shelf Life <small>(in the original packaging)</small>	2 years from manufacture date
Standby Life <small>(inserted in the AED)</small>	5 years from manufacture date
Discharge	A minimum of 200 shocks (except the CPR period between the defibrillation therapy) or more than 6 hours of operating time at 20°C

Environmental Conditions	
Temperature	Operation: 0 to 43°C (32 to 109.4°F) Storage: 10 to 25°C (50 to 77°F)
Relative Humidity	5 to 95% RH (Non-condensing)

## CPR Feedback Module

CPR Feedback Module (option)	
Dimensions	80 mm diameter
Medical device class	IM

Measuring range	
Frequency	1 to 160 compressions/min
Depth	1 to 127 mm

Accuracy (flat surface)	
Frequency	+/- 3 /min (averaged)
Depth	< 10%
Ingress Protection	IP55
Impact Protection	IK09

Adhesive Pad (option)	
Dimensions	100 mm diameter



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