

HR-501

AED(Automated External Defibrillators)



Organismo Notificaro n. 0476



Technology for Life



HEART GUARDIAN

AED(Automated External Defibrillators)

helps recover the normal cardiac function upon acute heart disease, such as acute cardiac arrest, by cardiac function analysis and, if necessary, electroshock.

Heart Guardian, as an AED,

provides precise analysis of victim's body and configures the exact amount of shocks, promising the safety and quicker responses.



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Prompt and Accurate Analysis of ECG

Heart Guardian offers ECG (Electrocardiography) analysis in just 8.5 seconds.

ECG Analysis function offers detecting irregular cardiac wave with 97.8% confidence and immediately commences electric charging upon detect.

Embedded shock timing table based on the patient's impedance levels enables the most accurate charging time and shock timing analysis.1)

BiMos High-voltage Switching Circuit

Heart Guardian provides the precise amounts of shock energy depends on the patient's body size and condition into two levels.

RADIAN's "BiMos High-voltage Switching Circuit technology" enables the sudden high voltage (above 2,000V) generation within 8 seconds. By using any kind of common battery types. This is especially useful technology for AED requiring an urgent defibrillation for the heart attack victims.



Folded Cover
Effectively protects components

Quick Manual
Offers you the quick guide

Shock Button
flicker LED upon full charge
Press Button for defibrillation

Adults / Kids Toggle Switch

Pads Link
Connect the padss here

Analysis Button
For device inspection/test

Status LED
Flicker blue LED while in normal operation

Power Button

Communication Port
Bluetooth 2.0

Speaker
For audio-guiding for each phase of operatino



Composition



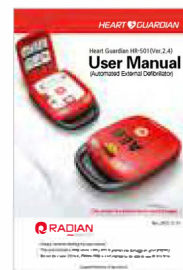
Carrier



Padss for Adults/Kids



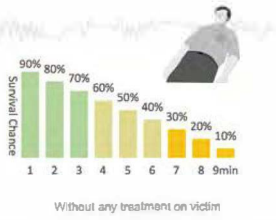
Primary Li- Mn Battery



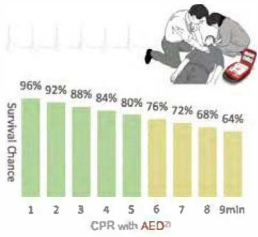
User Manual



With AED, The survival chance Increases about 500%



According to the AHA's 2010 Guidelines¹⁾, if there is no treatment for a collapsed victim by heart attack, the chance of survival decreases about 10% per every minutes.



However, if any bystander performs CPR and AED immediately, in this case, the chance of survival significantly increases, and the drop rates are only 3% to 4% per minute.

1) 2010 AHA Guidelines for CPR and ECC. Circulation. 2010;122:S706.
2) N Engl J Med. 2000;343(17):1206-9



Casino security officers were instructed in the use of AED. The locations where the AEDs were stored in the casinos were chosen to make possible a target interval of three minutes or less from collapse to the first defibrillation. The defibrillations performed first, followed by manual cardiopulmonary resuscitation. AEDs were used for 105 patients whose initial cardiac rhythm was ventricular fibrillation. The result was as below.



**CPR within one minute,
First AED Shock within three minutes
= 53% of Survival Rate**

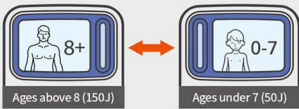
Rapid defibrillation by nonmedical personnel using an automated external defibrillator can improve survival after out-of-hospital cardiac arrest due to ventricular fibrillation. Intervals of no more than three minutes from collapse to defibrillation are necessary to achieve the highest survival rates²⁾.

Easy to use and accessible by all without special training



- ✓ As soon as uncovering AED, there will be an audio- guidance for every phase of operation
- ✓ In case where not audio LED indicator guides you for accurate
- ✓ From analysis to charging, services are all-Automated
- ✓ All you need to do is to pads at the right place and press a button to work

Compatible with both Adults and kids



- ✓ AED pads is compatible among any ages and gender, simply by setting up one button
- ✓ Heart Guardian provides the precise amount of shock energy depends on the patient's boysize and condition into two levels.

Heart Guardian offers data extraction with the embedded memory



- ✓ AED offers "defibrillation blackbox" by memorizing the operational history.
- ✓ Once recorded, data can be transferred out and analyzed by way of Bluetooth-enabled AED.

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Product Type	Low-output CPR Machine (Folded)
ECG Analysis	8.5 Sec.
Hi- Cap Charging	8 Sec.
Shock Output	50~150 J offered
Data Storage	100 th (ECG storage)
Data Transfer Protocol	Bluetooth 2.0
Control Buttons	Power, Analysis, Shock
Battery Type	Li-Mn(12V DC 4.2A)
Shock Frequency	200, at least
Pads Type	Electrode Pads, disposable and adhesive
Dimension	230(W) x 320(L) x 85(H)mm
Weight	1.9kg