



HEART  GUARDIAN

Technology for Life

C € 2460

*AED Life Mode
AED Trainer
Accessories
Safety container*

 Technology for Life
RADIAN QBIO

RADIAN QBiO History

Technology for Life



Technology for Life

2005~2010



Measuring Sensor & equipment



2011~2013



Research and development
(Lab / AED Development)

2014~



Strengthening core business
Medical health care specialist
based on Sensor Technology

2018~



Bio Technology -
Integrated device for
Cell separation &
Lysis and Virus detection



Survival Loop is with us here



AHA(American Heart Association) emphasizes 5 steps for improving the chances of survival and recovery for victims of heart attack.

Being a part of such the Survival Chain. AED now serves as an indispensable mean of saving lives. Many of North America and Europe countries are expending mandatory AED installation. Korea joins the trend, upon amendments of the governing Act to secure more AED sites

Anyone can save a life with an AED

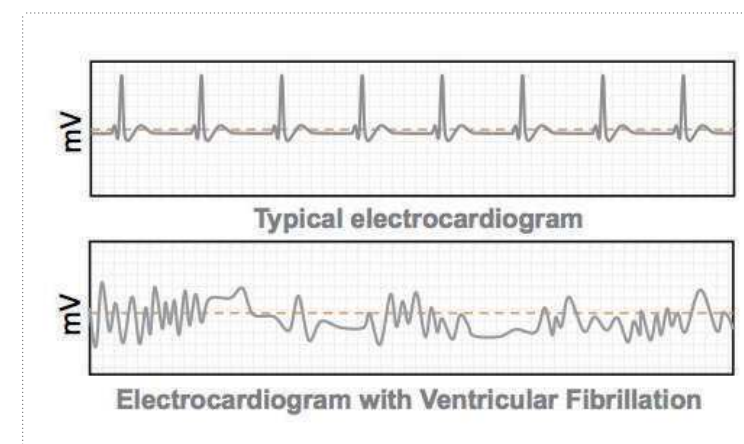
Life is more precious than anything

For over 10 years, Radian has accomplished countless know-how focusing on the safety and quality management through our high-edge sensor technologies. With all those, we are newly opening up a new horizon for the medical/health care business. AED is our first step



Sudden Cardiac Arrest

Involves failure in cardiac contraction for circulatory failure.¹⁾ Tissues are no longer supplied with Blood and, upon extensive cardiac arrest, cells are necrotized, leading to systemic paralysis and death.

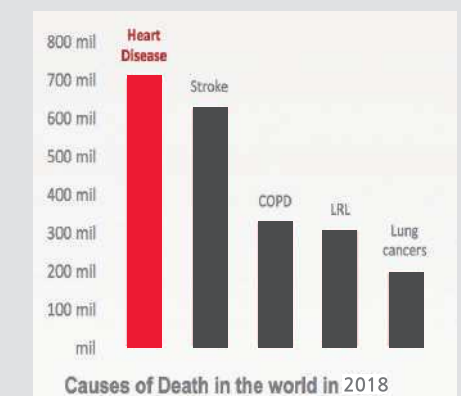


Over 75% of sudden cardiac arrests are occurred by the ventricular fibrillations, AED performs number of precise electric shocks on the victim's body for recovering the normal cardiac function.

1) Jameson, J. N. St C.; Dennis L. Kasper; Harrison, Tinsley Randolph; Braunwald, Eugene; Fauci, Anthony S.; Hauser, Stephen L; Longo, Dan L. (2005). Harrison's principles of internal medicine. New York: McGraw-Hill Medical Publishing Division

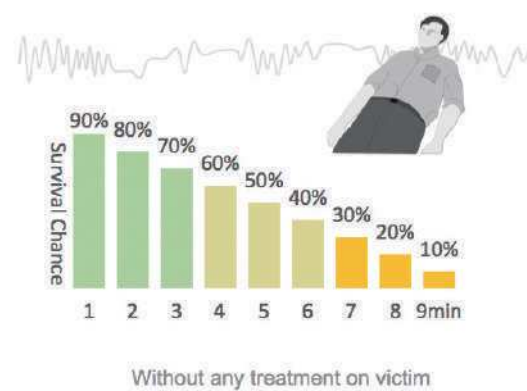
2) WHO, 10 top causes of death in 2018, <http://www.who.int/mediacentre/factsheets/fs310/en>

Heart disease is the top leading cause of death in the world

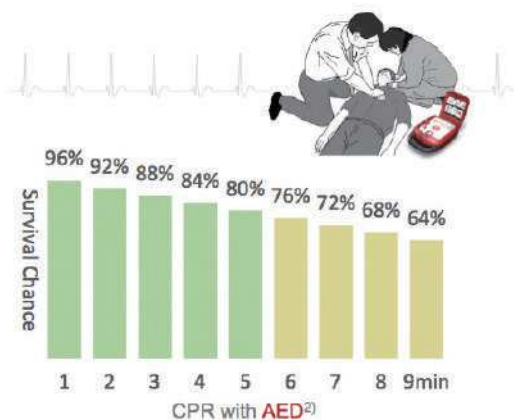


According to The World Health Organization report for 2018²⁾ about the death causes research, indicated the heart disease is being the most dangerous threat for human being that is actually causing the most deaths. More deaths of heart disease than of AIDS and all cancers combined.

With AED, The survival chance Increases about 500%



According to the AHA's 2015 Guidelines¹⁾, if there is no treatment for a collapsed victim by heart attack, the chance of survival decreases about 10% per every minutes.



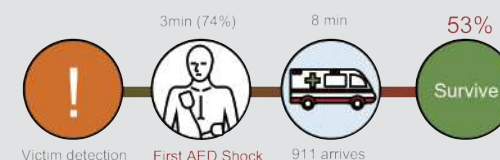
However, if any bystander performs CPR and AED immediately, in this case, the chance of survival significantly increases, and the drop rates are only 3% to 4% per minute.

1) 2015 AHA Guidelines for CPR and ECC. Circulation, 2015;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⁾.

HR-501

AED (Automated External Defibrillators)

€ 2460



Technology for Life

HEART GUARDIAN

AED(Automated External Defibrillators)

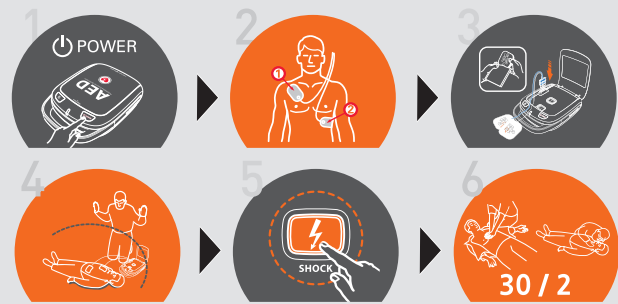
helps recover the normal cardiac function upon acute heart disease, such as acute cardiac arrest, by cardiac function analysis and, if necessary, electroshock.

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.

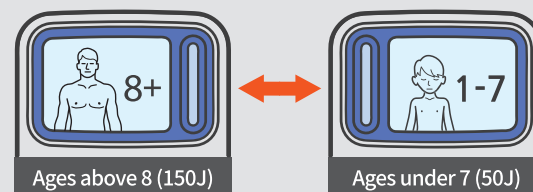


Easy to use and accessible by all without special training



- ✓ 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 Adult and Child



- ✓ AED pads are 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 boy size 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.

HR-701 Plus

AED (Automated External Defibrillators)



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HEART GUARDIAN



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.

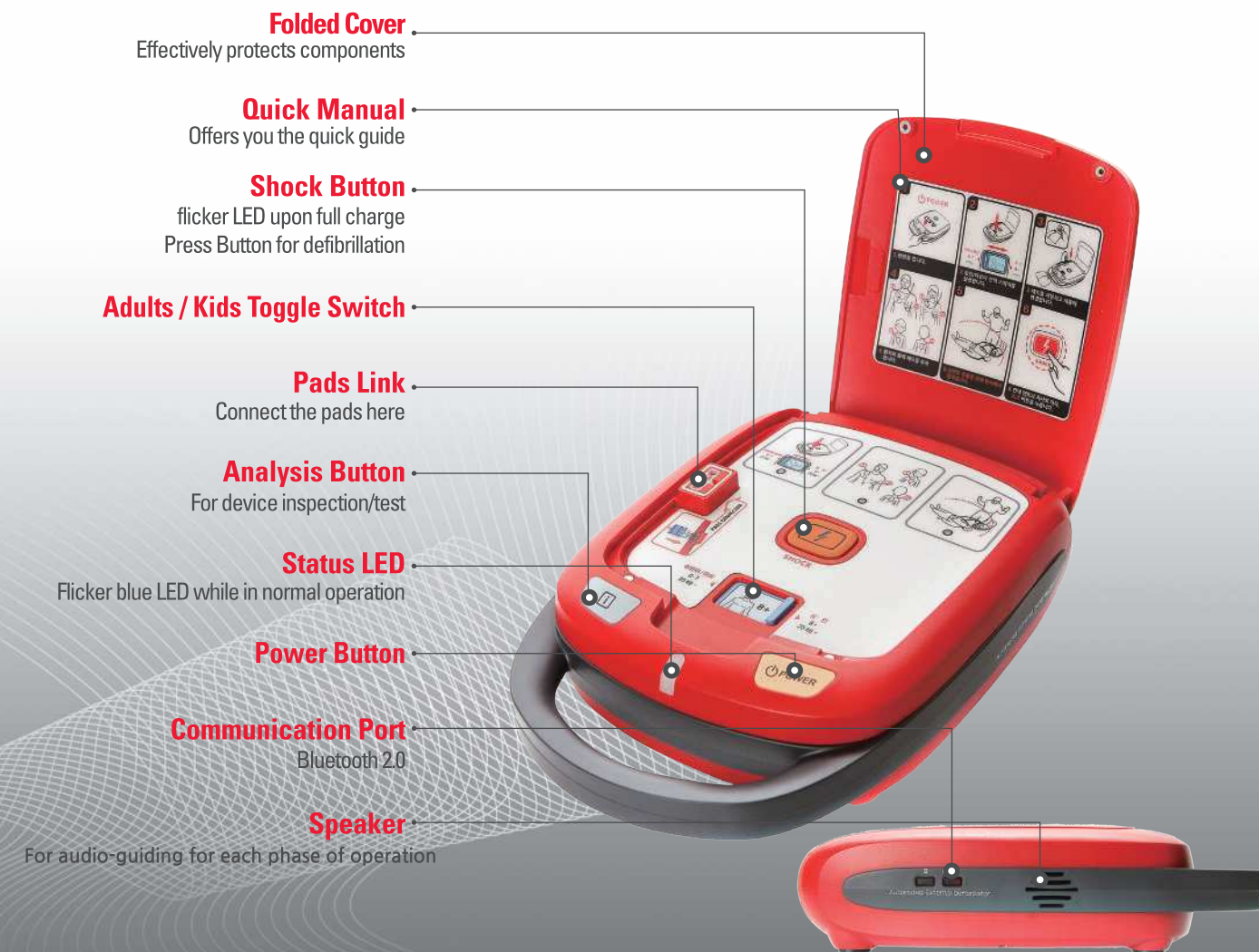
BiMos High-voltage Switching Circuit

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

RADIANQBIO's "BiMos High-Voltage Switching Circuit technology" enables the shudden 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.

HR-501 Life Mode



HR-501T AED Trainer



Composition



Carrier



Pads for Adults/Kids



Primary Li-Mn Battery



User Manual

Composition



Carrier



Pads for Adults/Kids



Primary Ni-Mh Battery



User Manual

HR-503 Pre-Connector Type



HR-503T AED Trainer



Composition



Carrier



Pads for adult/Kids



Primary Ni-Mh Battery



User Manual

Composition



Carrier



Pads for adult/Kids



Primary Ni-Mh Battery



User Manual

HR-701plus LCD Type

HR-701T AED Trainer



Composition



Composition



HEART GUARDIAN Accessories


HR-501
 Automated External Defibrillator

- Automatic Self-test
(Battery power, Circuit power, Check button function availability)
- Adult / Child mode Compatible switch (fundamental),
Output Range : 150J for Adult, 50J for Child
- Basic Composition : AED Bag, Electrode Pads (P-303),
Battery (BT-303), User's Manual, Quick Guidance
- Product Size : 230(W) x 320(L) x 105(H)mm Weight : 2.2kg


P-303 Standard Type
 HR-501 Only

- Adults/Kids Compatible, 1 pair
- Size : 145(H) x 98(W) x 1(T) mm
- Polyolefin foam
- Adhesive : 180-129A


BT-303
 Battery only for HR-501

- Component : LiMn
- Number of shocks :
More than 200 times
- Chargeable : Non-Rechargeable
- Power : 12V DC 4.2A
- Weight : 285g


HR-501T
 Training AED
 (For Training Purpose, No electric Shock and actual analysis)

- Automatic Self-test
(Battery power, Circuit power, Check button function availability)
- Adult / Child mode Compatible switch (fundamental),
- Basic Composition : AED Bag, Electrode Pads
(Training purpose P-303T), Charger (CH-303T)
Battery (RC-303T), User's Manual, Quick Guidance
- Product Size : 230(W) x 320(L) x 85(H)mm Weight : 1.6kg


P-303T Standard Type
 HR-501T Only

- Adults/Kids Compatible, 1 pair
- Size : 145(H) x 98(W) x 1(T) mm
- Polyolefin foam
- Adhesive : 180-129A


RC-303T
 Battery only for HR-501T

- DC 9.6V (Ni-MH) 2Ah for Charging
- Charge complete time : 5 hours
(may differ by remaining battery,
used frequency, used battery life)


CH-303T
 Charger

- AC Adaptor only for RC-303T
- Input : AC110~240V 50/60hz
- Output : 14V 0.6A 2%
- Reted Voltage : 14VDC

HEART GUARDIAN Accessories


HR-503
 Automated External Defibrillator

- Automatic Self-test
(Battery power, Circuit power, Check button function availability)
- Adult / Child mode Compatible switch (fundamental),
Output Range : 150J for Adult, 50J for Child
- Basic Composition : AED Bag, Electrode Pads (P-503),
Battery (BT-503), User's Manual, Quick Guidance
- 4 languages available, battery indicator
- Product Size : 230(W) x 302(L) x 105(H)mm / Weight : 2.3kg


P-503 Standard Type
 HR-503 Only

- Adults/Kids Compatible, 1 pair
- Size : 145(H) x 98(W) x 1(T) mm
- Polyolefin foam
- Adhesive : 180-129A


BT-503
 Battery only for HR-503

- Component : LiMn
- Number of shocks :
More than 200 times
- Chargeable : Non-Rechargeable
- Power : 12V DC 4.2A
- Weight : 285g


HR-503T
 Training AED
 (For Training Purpose, No electric Shock and actual analysis)

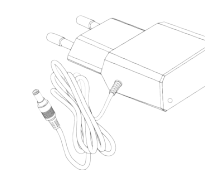
- Automatic Self-test
(Battery power, Circuit power, Check button function availability)
- Adult / Child mode Compatible switch (fundamental)
- Basic Composition : AED Bag, Electrode Pads
(Training purpose P-503T), Charger (CH-503T)
Battery (RC-503T), User's Manual, Quick Guidance
- 4 languages available, battery indicator
- Product Size : 230(W) x 302(L) x 105(H)mm / Weight : 2.3kg


P-503T Standard Type
 HR-503T Only

- Adults/Kids Compatible, 1 pair
- Size : 145(H) x 98(W) x 1(T) mm
- Polyolefin foam
- Adhesive : 180-129A


RC-503T
 Battery only for HR-503T

- DC 9.6V (Ni-MH) 2Ah for Charging
- Charge complete time : 5 hours
(may differ by remaining battery,
used frequency, used battery life)


SH-8410
 Charger

- AC Adaptor only for RC-503T
- Input : AC 110~240V 50/60hz
- Output : DC 8.4V / 1000Ma

HEART GUARDIAN Accessories

HEART GUARDIAN Accessories


HR-701 · HR-701plus
 Automated External Defibrillator

- Automatic Self-test once a month
- Adult / Child Mode Compatible switch (Energy : 150J ~250J for Adult / 50J for Child)
- 4.3" High Resolution Color LCD display
- Size : 222(W) x 280(D) x 75(H)mm
- Weight (with Battery) : 2.3kg (5lb)


P-701 Standard Type
 HR-701, 701plus Only

- Pre-Gelled / Self-Adhesive / Disposable
- Non-Polarized Defibrillation Pads
- Non-Sterilization
- 2 years from Date of Manufacturing
- Size & Length : 110 x 120mm / 1.8m
- Pouch Size : 170 x 250mm


BT-701
 Battery only for HR-701,701plus

- LiMnO2(12V / DC6.4A)
- Non-Rechargeable
- Weight: 285g
- Shelf-Life : 4 years for Standby Mode (Can be reduced by temperature and Humidity condition during storage)


HR-701T
 Training AED

- Rechargeable Battery
- Multi-Language (4) / 10 Scenarios
- Volume control available
- Easy to use with Remote Controller
- Visual Guidance with LCD Display
- Size : 222(W) x 280(D) x 75(H)mm Weight : 1.0kg


P-701T Standard Type
 HR-701T Only

- Adult/Kids Compatible, 1pair
- Size : 145(H) x 98 (W) x 1(T)mm
- Polyolefin foam
- Adhesive : 180-129A


RR-701T
 HR-701T Only

- Remote Controller for HR-701T Trainer (IR Format)

AED Container

HR-51A1, HR-51B1
 AED Container
 Stand Type
 Wall Mounted Type
Specifications

Stand Type, Wall-mounted Type. Anti-theft Feature.

Dimension (Exterior)

Stand Type : 380(W) x 200(D) x 1,365(H)mm

Wall-mounted Type : 380(W) x 200(D) x 450(H)mm



AED Accessory


CPR Mannequin
 Made in Korea

- Weight : 3.5 kg
- Size : 400(W) x 620(D) x 200(H)mm
- Composition : Mannequin model
Lung Pocket 2pcs, Mouth Shield 20pcs,
User's Manual, Portable Bag



Technology for Life



HEART GUARDIAN

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