

# SMARTY® SAVER SERIES



SMART  
DESIGN



SMART  
TECHNOLOGY

WITHIN  
EVERYONE'S REACH!





**REDUCED DIMENSIONS  
& INTUITIVE USE**



**INSTANT SWITCH  
ADULT/CHILD MODE**



**FULLY AUTOMATIC  
OR SEMI-AUTOMATIC  
OPERATION**



**IP 56 DUST/ WATER  
RESISTANCE**



**FAST SHOCK  
ADMINISTRATION  
9 SECONDS**

**SMARTY  
SAVER SERIES**

## WITHIN EVERYONE'S REACH!

The best portable AED (Automated External Defibrillator) conceived for a **quick and simple treatment** of the Sudden Cardiac Arrest (SCA) and to assist in delivering the Cardiopulmonary Resuscitation (CPR).

The SMARTY Saver Series is AMI Italia latest defibrillators line that meets all the requirements of a modern AED: designed to **reliable, simple and easy to use by anyone, whether they are trained or not.**

Even in the best of circumstances, an emergency medical response cannot respond as quickly as a bystander with access to an AED. The **lightweight and portability**, thanks to the **folding handle**, the compactness and its **catchy look**, are conceived to meet the "gold standard" for early defibrillation in public large areas.

Last but not least, the **advanced electronic** guarantees the best functionality which you would expect from an average sized AED, although it's confined in a **very small case**.



### KEY FEATURES:

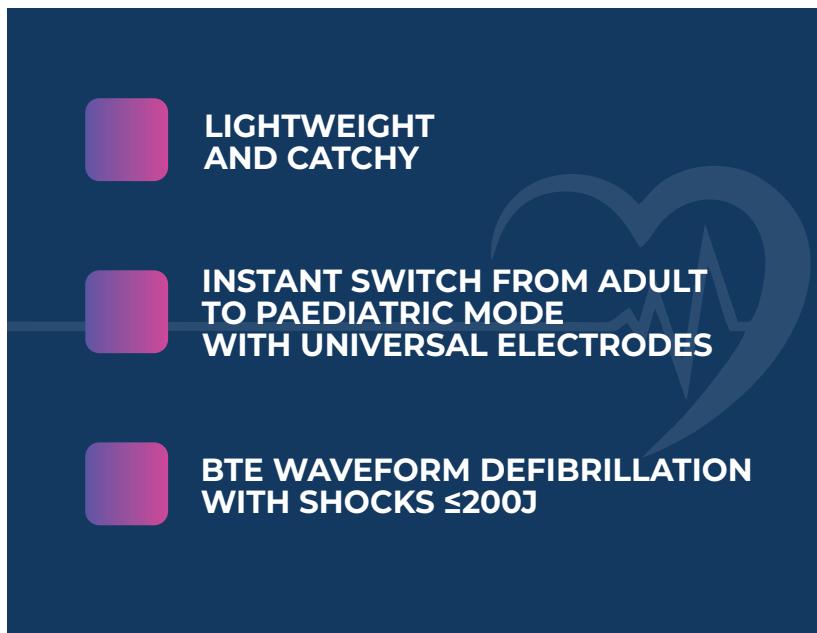
- Reduced dimensions (fitting an A4 sheet!)
- Practical folding handle
- Audio and visual signals for users
- Guidance through voice prompt and metronome
- Universal preconnected electrodes
- BTE waveform defibrillation with shocks ≤200J

### ADVANCED FEATURES:

- **SMARTY SaverPlus:** CPR quality feedback in real time
- **SMARTY SaverGeo:** CPR quality feedback in real time and access to Amisavercloud Platform

## SMARTY SAVER

### SMART DESIGN & SMART TECHNOLOGY FOR A MODERN AED!



Compliant to latest ERC/AHA guidelines

The basic model of the SMARTY Saver Series line, very affordable and easy to use. Reliable and durable (1-meter drop test - dustproof and waterproof resistance IP56 rated) capable of tackling challenges in various severe environments. It can be easily operated by anyone in the medical field (e.g. ambulance, emergency room, etc.) and non-medical field too (e.g. public or private places). It allows to deliver one or more defibrillating shocks on adult or paediatric patients affected by ventricular fibrillation or ventricular tachycardia, by means of a thorax impedance-compensated, biphasic truncated exponential discharge (BTE).

The **Semi-Automatic model** analyses the patient's ECG and if a shockable rhythm is detected it automatically starts charging the reservoir capacitor. The AED vocal message will suggest the operator to press the shock button to deliver the defibrillating shock.

The phase following the defibrillation, that is the Cardiopulmonary Resuscitation, will be guided by voice prompts and the metronome marking the various cycles of compressions and insufflations.

The **Fully Automatic model** instead, if a shockable rhythm is detected, will warn the user of the imminent shock delivery and after 5 seconds the defibrillating shock will be released automatically; the CPR phase will follow.

**SMARTY**  
**SAVER SERIES**

## DEFIBRILLATOR

<b>Model:</b>	Code SM1-B1001: Semi-Automatic Code SM2-B1002: Fully Automatic
<b>Maximal Energy:</b>	200J (nominal)
<b>Waveform:</b>	Biphasic truncated exponential (BTE) automatically adapts according to patient's impedance
<b>Discharge protocol:</b>	Adult: incremental first shock 150J - subsequent 200J Paediatric: fixed 50J
<b>Charging time from shock alert*:</b>	IEC/EN 60601-2-4 ≤ 9 sec with shock at 150J ≤ 12 sec with shock at 200J
<b>Charging time from analysis time*:</b>	IEC/EN 60601-2-4 ≤ 13 sec with shock at 150J ≤ 16 sec with shock at 200J
<b>Analysis time:</b>	IEC/EN 60601-2-4 from 4 to 15 seconds
<b>Impedance range:</b>	20-200 Ohms
<b>Sensitivity:</b>	97% (IEC/EN 60601-2-4)
<b>Specificity:</b>	99% (IEC/EN 60601-2-4)
<b>Controls:</b> <b>Semi-automatic model</b>	4 buttons: ON/OFF, shock delivery, patient selection (adult/child)
<b>Fully Automatic model</b>	3 buttons: ON/OFF, patient selection (adult/child)
<b>Light indicators:</b>	- Device status: 2 LEDs red /green - PADs placement: 2 red LEDs - Do not touch the patient: 2 red LEDs - Touch the patient: 1 green LED - Adult patient: 1 green LED - Paediatric patient: 1 green LED - ON/OFF button : 2 green LEDs - Shock button: 8 red LEDs
<b>Upgradeable:</b>	Through USB cable External memory card

\*on a 50 Ohm patient and with a fully charged new battery

## PHYSICAL

<b>Size:</b>	200x213x71mm (folded handle) 257x213x71mm (open handle)
<b>Weight:</b>	1,56 Kg (with battery and PADs)

## EVENT RECORDING

<b>Optional external memory:</b>	Micro uSD/SDHC card up to 32GB
<b>Stored data:</b>	"AED1LOG.txt": text file with detailed report of the activities of self-test and power-ups "AEDFILE.aed": ECG trace, rescue events, voices and background audio Through data manager software "SaverViewExpress"
<b>"AEDFILE.aed" review:</b>	

## DEFIBRILLATION PADS

<b>Type:</b>	Code SMT-C2001: Disposable, universal, pre-gelled, preconnected
<b>Dimensions:</b>	Code SMT-C2002: Disposable, universal, pre-gelled, preconnected, Face-to-Face Total surface 136cm <sup>2</sup> ; active surface 94cm <sup>2</sup> ; 120cm cable length (external to the packaging)
<b>Shelf-life:</b>	24-30 months, as indicated on the packaging

## BATTERY OPTIONS

<b>Type:</b>	Code SMT-C14031
<b>Voltage/capacity:</b>	12VDC-3000mAh
<b>Autonomy:</b>	Up to 200 complete rescue cycles (200J shocks + CPR); Up to 36 hours of continuous ECG analysis*
<b>Stand by life:</b>	Up to 3 years with a battery insertion test and daily self-test without any turning on the AED*
<b>Type:</b>	Code SMT-C14033
<b>Voltage/capacity:</b>	12VDC-5600mAh
<b>Autonomy:</b>	Up to 350 complete rescue cycles (200J shocks + CPR); Up to 100 hours of continuous ECG analysis*
<b>Stand by life:</b>	Up to 4 years with a battery insertion test and daily self-test without any turning on the AED*

\* performance referred to new batteries stored at a temperature of 20°C and relative humidity 45% without condensation

## ENVIRONMENTAL SPECIFICATION

<b>Operating temperature:</b>	0°C to 45°C (32°F to 113°F)
<b>Storing/Shipping temperature:</b>	-40°C to 70°C (-40°F to 158°F)
<b>Humidity:</b>	10% to 95% relative humidity without condensation
<b>Sealing (IP Protection):</b>	IEC/EN 60529: class IP56
<b>Shock/Drop Endurance:</b>	IEC/EN 60601-1 (compliant to 1 m. Drop Test)
<b>Electrostatic Discharges:</b>	IEC/EN 61000-4-2
<b>Electromagnetic Compatibility:</b>	IEC/EN 60601-1-2:2015
<b>Protection from defibrillation:</b>	IEC/EN 60601-1; device internally powered, Type BF
<b>Classification:</b>	MDR (EU) 2017/745 Class III, Annex VIII, Rule 22

## SMARTY SAVERPLUS REAL TIME CPR FEEDBACK



Compliant to latest ERC/AHA guidelines

The SMARTY SaverPlus assists the operator for the correct execution of the cardiac massage, during the Cardiopulmonary Resuscitation, thanks to the external **CPR Quality sensor**. The operator can count on a real-time support to carry out the CPR successfully.

The **CPR Quality sensor** device is designed to **optimize the accomplishment of the Cardiopulmonary Resuscitation** by providing simple and accurate responses to the rescuer, in real time!

When switched on, this device will automatically be linked to the AED SMARTY SaverPlus via Bluetooth; when positioned on the patient's chest, it will measure the depth and frequency of the compressions performed during the CPR and it will send this feedback to the SMARTY SaverPlus device.

The 8 flashing LEDs bar located on the AED keyboard will report the accuracy of the compression's depth while the acoustic metronome will mark the correct frequency of compression, along with the voice prompts.

The operator will be able to correct the intensity and the speed of compressions to optimize the CPR.

## CPR QUALITY SENSOR & CPR QUALITY FEEDBACK

SMARTY SaverPlus assists the operator in properly performing the cardiac massage, during the Cardiopulmonary Resuscitation, thanks to the external **CPR Quality sensor**. This external device is, in fact, able to measure the depth and the frequency of the compressions performed and to send this feedback to the SMARTY SaverPlus device via Bluetooth. Thanks to the CPR Quality module, the operators can check:

- the correctness of the depth of the compressions they are performing, through the LED bar on the defibrillator's keyboard.
- the correct frequency/rhythm of compressions through the audio signals emitted by the AED



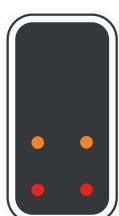
### CPR QUALITY SENSOR

- Turn the module on by pushing the side ignition key
- Place it on the patient's chest prior to start CPR
- Perform the compressions by checking their accuracy through the LED bar on the AED keyboard and with the support of the AED voice instructions

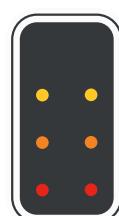
### CPR QUALITY FEEDBACK LED SCALE WITH PROGRESSIVE LIGHTING:



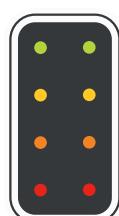
INSUFFICIENT  
OR EXCESSIVE  
PRESSURE



NOT ENOUGH  
PRESSURE



ALMOST  
SUFFICIENT  
PRESSURE



CORRECT  
PRESSURE



# TECHNICAL DATA SHEET

7

## DEFIBRILLATOR

<b>Model:</b>	Code SM3-B1003: Semi-Automatic Code SM4-B1004: Fully Automatic
<b>Maximal Energy:</b>	200J (nominal)
<b>Waveform:</b>	Biphasic truncated exponential (BTE) automatically adapts according to patient's impedance
<b>Discharge protocol:</b>	Adult: incremental first shock 150J - subsequent 200J Paediatric: fixed 50J
<b>Charging time from shock alert*:</b>	IEC/EN 60601-2-4 ≤ 9 sec with shock at 150J ≤ 12 sec with shock at 200J
<b>Charging time from analysis time*:</b>	IEC/EN 60601-2-4 ≤ 13 sec with shock at 150J ≤ 16 sec with shock at 200J
<b>Analysis time:</b>	IEC/EN 60601-2-4 from 4 to 15 seconds
<b>Impedance range:</b>	20-200 Ohms
<b>Sensitivity:</b>	97% (IEC/EN 60601-2-4)
<b>Specificity:</b>	99% (IEC/EN 60601-2-4)
<b>Controls:</b> <b>Semi-automatic model</b>	4 buttons: ON/OFF, shock delivery, patient selection (adult/child)
<b>Fully Automatic model</b>	3 buttons: ON/OFF, patient selection (adult/child)
<b>Light indicators:</b>	- Device status: 2 LEDs red/green - PADs placement: 2 red LEDs - Do not touch the patient: 2 red LEDs - Touch the patient: 1 green LED - Adult patient: 1 green LED - Paediatric patient: 1 green LED - ON/OFF button: 2 green LEDs - Shock button: 8 red LEDs - CPR Quality feedback 8 LED bar: 2 red + 2 orange + 2 yellow + 2 green - Q-CPR module connection: 1 green LED
<b>Upgradeable:</b>	Through USB cable External memory card

\*on a 50 Ohm patient and with a fully charged new battery

## PHYSICAL

<b>Size:</b>	200x213x71mm (folded handle) 257x213x71mm (open handle)
<b>Weight:</b>	1,62 Kg (with battery and PADs)

## EVENT RECORDING

<b>Optional external memory:</b>	Micro uSD/SDHC card up to 32GB
<b>Stored data:</b>	"AED1LOG.txt": text file with detailed report of the activities of self-test and power-ups "AEDFILE.aed": ECG trace, rescue events, voices and background audio
<b>"AEDFILE.aed" review:</b>	Through data manager software "SaverViewExpress"

## DEFIBRILLATION PADS

<b>Type:</b>	Code SMT-C2001: Disposable, universal, pre-gelled, preconnected
<b>Dimensions:</b>	Code SMT-C2002: Disposable, universal, pre-gelled, preconnected, Face- to- Face Total surface 136cm <sup>2</sup> ; active surface 94cm <sup>2</sup> ; 120cm cable length (external to packaging)
<b>Shelf-life:</b>	24-30 months, as indicated on the packaging

## BATTERY OPTIONS

<b>Type:</b>	Code SMT-C14031
<b>Voltage/capacity:</b>	12VDC-3000mAh
<b>Autonomy:</b>	Up to 200 complete rescue cycles (200J shocks + CPR); Up to 36 hours of continuous ECG analysis*
<b>Stand by life:</b>	Up to 3 years with a battery insertion test and daily self-test without any turning on the AED*
<b>Type:</b>	Code SMT-C14033
<b>Voltage/capacity:</b>	12VDC-5600mAh
<b>Autonomy:</b>	Up to 350 complete rescue cycles (200J shocks + CPR); Up to 100 hours of continuous ECG analysis*
<b>Stand by life:</b>	Up to 4 years with a battery insertion test and daily self-test without any turning on the AED*

\* performance referred to new batteries stored at a temperature of 20°C and relative humidity 45% without condensation

## ENVIRONMENTAL SPECIFICATION

<b>Operating temperature:</b>	0°C to 45°C (32°F to 113°F)
<b>Storing/Shipping temperature:</b>	-40°C to 70°C (-40°F to 158°F)
<b>Humidity:</b>	10% to 95% relative humidity without condensation
<b>Sealing (IP Protection):</b>	IEC/EN 60529: class IP56
<b>Shock/Drop Endurance:</b>	IEC/EN 60601-1 (compliant to 1 m. Drop Test)
<b>Electrostatic Discharges:</b>	IEC/EN 61000-4-2
<b>Electromagnetic Compatibility:</b>	IEC/EN 60601-1-2:2015
<b>Protection from defibrillation:</b>	IEC/EN 60601-1; device internally powered, Type BF
<b>Classification:</b>	MDR (EU) 2017/745 Class III, Annex VIII, Rule 22

## Q-CPR EXTERNAL MODULE

<b>Description:</b>	Code SMT-C14034 External module to support CPR paired with the AED via Bluetooth; Class I Medical Device
<b>Weight and Dimension:</b>	95 x 60 x 13mm; 50gr
<b>Compression guidance:</b>	According to AHA/ERC guidelines for both adult and paediatric patients
<b>Controls and light icons:</b>	Ignition key ON/OFF Green flashing LED: Bluetooth signal search Green fix LED: Bluetooth connection active
<b>Battery:</b>	Code: SMT- C14035 Battery Coin 3 VDC / 1Ah up to 2 hours in continued use
<b>Type</b>	
<b>Voltage/capacity</b>	
<b>Autonomy</b>	
<b>Radio Equipment compliance:</b>	Directive 2014/53/UE- RED

**SMARTY**  
**SAVER SERIES**

## SMARTY SAVERGEO CPR QUALITY AND GEO SYSTEM



Compliant to latest ERC/AHA guidelines

In addition to the Q-CPR module, the SMARTY SaverGeo is equipped also with a SIM card and a **GPS/GPRS system**; the GPRS system allows the SMARTY SaverGeo to transmit and receive data through the mobile phone network, while the GPS system enables the tracking of the AED movements.

This info is sent by the device to the **Amisavercloud Platform**, which is conceived to **monitor and control multiple AEDs** remotely through any web browser and internet connected device. Among the info and data sent to the platform, such as position and current status of the AED, the device can also **transmit the ECG in real time**.

Hence a professional operator will be able to view and examine the ECG, real time, remotely on the Amisavercloud Platform just while the ECG is being performed on the patient.

Finally, through the dedicated **“Vivo” button** located on the keyboard the operator will be free to call the local EMS straight away, directly from the AED!

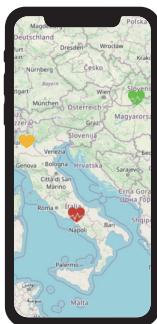
These features make the SMARTY SaverGeo very suitable for the use in moving vehicles such as trains, buses and ambulances.

The device is powered with two independent batteries - one to supply the proper AED functions and another one to supply the additional Geo system functions - in order to preserve the primary use of the device as automatic external defibrillator.

## GEO SYSTEM: REAL TIME AED MANAGEMENT

All the functions can be managed remotely, by any device, through the **Amisavercloud Platform**:

### TELEMETRY



SMARTY SaverGeo connects to the portal daily, sending a log that contains detailed information on its status; this will be shown on the map with a coloured icon.

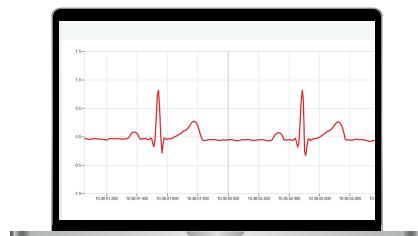
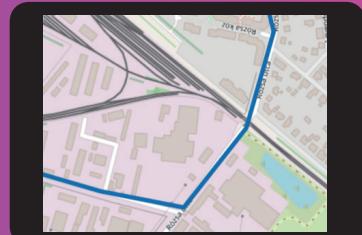
In case of anomaly, the Amisavercloud will notify the authorized user by SMS or e-mail (customizable alert).

-  DEVICE READY TO USE
-  WARNING - anomaly that does not compromise the defibrillator functions
-  FAULTY DEVICE - assistance required

### GEOLOCATION

The platform can show:

- AED location: the exact position will be identifiable on the map.
- AED movements (self-tracking function): the AED journey will be visible on the map; if the “anti-theft” function is on the user will be notified by SMS/e-mail every time the AED is moved.



### REMOTE ASSISTANCE - STREAMING ECG

The AED is able to transmit the ECG in real time; this can be consultable in streaming by any web connected device, via the Amisavercloud Portal. In addition, all ECGs sent will be saved in the portal and made available for subsequent consultations.

### “VIVO” BUTTON FOR LIVE CALLS

The operator can promptly call the local EMS by pressing the dedicated button on the AED keyboard.

According to the local regulation, three telephone numbers can be set up to automatically attempt multiple calls, until a feedback is finally received.



**SMARTY**  
**SAVERSERIES**

## DEFIBRILLATOR

<b>Model:</b>	Code SM5-B1005: Semi-Automatic Code SM6-B1006: Fully Automatic
<b>Maximal Energy:</b>	200J (nominal)
<b>Waveform:</b>	Biphasic truncated exponential (BTE) automatically adapts according to patient's impedance
<b>Discharge protocol:</b>	Adult: incremental first shock 150J - subsequent 200J Paediatric: fixed 50J
<b>Charging time from shock alert*:</b>	IEC/EN 60601-2-4 ≤ 9 sec with shock at 150J ≤ 12 sec with shock at 200J
<b>Charging time from analysis time*:</b>	IEC/EN 60601-2-4 ≤ 13 sec with shock at 150J ≤ 16 sec with shock at 200J
<b>Analysis time:</b>	IEC/EN 60601-2-4 from 4 to 15 seconds
<b>Impedance range:</b>	20-200 Ohms
<b>Sensitivity:</b>	97% (IEC/EN 60601-2-4)
<b>Specificity:</b>	99% (IEC/EN 60601-2-4)
<b>Controls:</b> Semi-automatic model	6 buttons: ON/OFF, shock delivery, patient selection (adult/child), live call, ECG streaming
<b>Fully Automatic model</b>	5 buttons: ON/OFF, patient selection (adult/child), live call, ECG streaming
<b>Light indicators:</b>	- Device status: 2 LEDs red/green - PADS placement: 2 red LEDs - Do not touch the patient: 2 red LEDs - Touch the patient: 1 green LED - Adult patient: 1 green LED - Paediatric patient: 1 green LED - ON/OFF button: 2 green LEDs - Shock button: 8 red LEDs - CPR Quality feedback 8 LED bar: 2 red + 2 orange + 2 yellow + 2 green - Q-CPR module connection: 1 green fixed LED - ECG streaming: 1 green blinking LED
<b>Upgradeable:</b>	Through USB cable External memory card, remotely

\*on a 50 Ohm patient and with a fully charged new battery

## PHYSICAL

<b>Size:</b>	200x213x71mm (folded handle) 257x213x71mm (open handle)
<b>Weight:</b>	1,70 Kg (with battery and defibrillation PADS)

## EVENT RECORDING

<b>Optional external memory:</b>	Micro uSD/SDHC card up to 32GB
<b>Stored data:</b>	“AED1LOG.txt”: text file with detailed report of the activities of self-test and power-ups “AEDFILE.aed”: ECG trace, rescue events, voices and background audio
<b>“AEDFILE.aed” review:</b>	Through data manager software “SaverViewExpress”

## DEFIBRILLATION PADS

<b>Type:</b>	Code SMT-C2001: Disposable, universal, pre-gelled, preconnected
<b>Dimensions:</b>	Code SMT-C2002: Disposable, universal, pre-gelled, preconnected, Face- to- Face
<b>Shelf-life:</b>	Total surface 136cm <sup>2</sup> ; active surface 94cm <sup>2</sup> ; 120cm cable length (external to packaging) 24-30 months, as indicated on the packaging

## BATTERY OPTIONS

<b>Type:</b>	Contained in SMT-C14032
<b>Voltage/capacity:</b>	12VDC-3000mAh
<b>Autonomy:</b>	Up to 200 complete rescue cycles (200J shocks + CPR);
<b>Stand by life:</b>	Up to 36 hours of continuous ECG analysis*
	Up to 3 years with a battery insertion test and daily self-test without any turning on the AED*

\* performance referred to new batteries stored at a temperature of 20°C and relative humidity 45% without condensation

## ENVIRONMENTAL SPECIFICATION

<b>Operating temperature:</b>	0°C to 45°C (32°F to 113°F)
<b>Storing/Shipping temperature:</b>	-40°C to 70°C (-40°F to 158°F)
<b>Humidity:</b>	10% to 95%
<b>Sealing (IP Protection):</b>	relative humidity without condensation
<b>Shock/Drop Endurance:</b>	IEC/EN 60529: class IP56
<b>Electrostatic Discharges:</b>	IEC/EN 60601-1 (compliant to 1 m. Drop Test)
<b>Electromagnetic Compatibility:</b>	IEC/EN 61000-4-2
<b>Protection from defibrillation:</b>	IEC/EN 60601-1-2:2015
<b>Classification:</b>	IEC/EN 60601-1; device internally powered, Type BF
	MDR (EU) 2017/745 Class III, Annex VIII, Rule 22

## Q-CPR EXTERNAL MODULE

<b>Description:</b>	Code SMT-C14034 External module to support CPR paired with the AED via Bluetooth; Class I Medical Device
<b>Weight and Dimension:</b>	95 x 60 x 13mm; 50gr
<b>Compression guidance:</b>	According to AHA/ERC guidelines for both adult and paediatric patients
<b>Controls and light icons:</b>	Ignition key ON/OFF Green flashing LED: Bluetooth signal search Green fix LED: Bluetooth connection active
<b>Battery:</b>	Code: SMT- C14035 Battery Coin 3 VDC / 1Ah
<b>Type</b>	up to 2 hours in continued use
<b>Voltage/capacity</b>	Directive 2014/53/UE- RED
<b>Autonomy</b>	
<b>Radio Equipment compliance:</b>	

## GEOLOC MODULE

<b>Frequency:</b>	GSM: 850, 900, 1800, 1900MHz; UMTS: 900, 2100MHz; GPS: 1575, 1600MHz
<b>Battery:</b>	Contained in SMT-C14032
<b>Type</b>	10,8 VDC- 3500 mAh
<b>Voltage/capacity</b>	Geo-location, remote control of the device, live call, ECG streaming
<b>Performance:</b>	RED- Directive 2014/53/UE
<b>Radio Equipment compliance:</b>	



adv Phantasya.it

ONE SIMPLE  
GESTURE TO KEEP  
ON LISTENING TO THE MOST  
**BEAUTIFUL BEAT**  
**IN THE WORLD!**

#### REGISTERED OFFICE

Viale Campi Flegrei, 55  
80124 - Naples (NA),  
Italy

#### PRODUCTION

Via San Francesco a  
Patria SNC, località  
Ponte Riccio  
Zona ASI 80014 -  
Giugliano in  
Campania (NA), Italy

#### PRODUCTION, COMMERCIAL, R&D

Via Cupa Reginella,  
15/A 80010 - Quarto (NA),  
Italy

✉ info@amiitalia.com  
🌐 www.amiitalia.com  
📞 +39 081/806.34.75  
📞 +39 081/806.05.74

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👤 @AMI Italia  
👤 @AMI Italia  
👤 @ami\_italia

UAB Omnia vincit  
Oficialus atstovas Lietuvoje  
info@defibriliatoriai24.lt  
Tel.: +370 636 35566



5 YEARS   
WARRANTY 0051  
Manufactured in Italy  
EU-MDR  
REV. 02.24