



BY APPOINTMENT TO  
H.R.H THE PRINCE OF WALES  
MANUFACTURERS AND SUPPLIERS  
OF FIRST AID DRESSINGS

**WALLACECAMERON**  
INTERNATIONAL



**SMART DESIGN**  
**SMART TECHNOLOGY**  
**SMARTY SAVER**

[wallacecameron.com](http://wallacecameron.com)



**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**

## 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  $\leq 200\text{J}$

### ADVANCED FEATURES:

- Smarty Saver Plus: CPR quality feedback in real time
- Smarty Saver Geo: CPR quality feedback in real time + access to Amisavercloud Platform



## DEFIBRILLATOR

**Model:** Code SM1-B1001: Semi-Automatic  
Code SM2-B1002: Fully Automatic  
200J (nominal)  
**Maximal energy:** Biphasic truncated exponential (BTE)  
**Waveform:** automatically adapts according to patient's impedance  
**Discharge protocol:** Adult: incremental  
first shock 150J - subsequent 200J  
Paediatric: fixed 50J

**Charging time from shock alert\*:** IEC60601-2-4  
≤ 9 sec with shock at 150J  
≤ 12 sec with shock at 200J

**Charging time from analysis time\*:** IEC60601-2-4  
≤ 13 sec with shock at 150J  
≤ 16 sec with shock at 200J

**Analysis time:** IEC/EN 60601-2-4  
from 4 to 15 seconds

**Impedance range:** 20-200 Ohms

**Sensitivity:** 97% (IEC/EN 60601-2-4)

**Specificity:** 99% (IEC/EN 60601-2-4)

**Controls:**

**Semi-automatic model** 4 buttons: ON/OFF, shock delivery, patient selection (adult/child)

**Fully Automatic model** 3 buttons: ON/OFF, patient selection (adult/child)

**Light indicators:**

- 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

**Upgradeable:** Through USB cable  
External memory card

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

## PHYSICAL

**Size:** 200x213x71mm (folded handle)  
257x213x71mm (open handle)

**Weight:** 1,56 Kg (with battery and PADS)

## EVENT RECORDING

**Optional external memory:** Micro uSD/SDHC card up to 32GB

**Stored data:** "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

**"AEDFILE.aed" review:** Through data manager software  
"Saver View Express"

## DEFIBRILLATION PADS

**Type:** Code SMT-C2001: Disposable, universal, pre-gelled, preconnected  
Code SMT-C2002: Disposable, universal, pre-gelled, preconnected, Face-to-Face  
**Dimensions:** Total surface 136cm<sup>2</sup>; active surface 94cm<sup>2</sup>; 120cm cable length (external to the packaging)

**Shelf-life:** 24-30 months, as indicated on the packaging

## BATTERY

**Type:** Code SMT-C14031:  
Disposable battery 8 cells Li-MnO<sub>2</sub>  
12VDC-3000mAh  
**Voltage/capacity:** Up to 200 complete rescue cycles (200J shocks + CPR);  
**Autonomy:** 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\*

**Stand by life:**

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

## ENVIRONMENTAL SPECIFICATION

**Operating temperature:** 0°C to 45°C (32°F to 113°F)

**Storing/Shipping temperature:** -40°C to 70°C (-40°F to 158°F)

**Humidity:** 10% to 95%  
relative humidity non condensing  
IEC/EN 60529: class IP56

**Sealing (IP Protection):**

**Shock/Drop:**

**Abuse Endurance:** IEC/EN 60601-1 clause 21

**Electrostatic Discharges:** IEC/EN 61000-4-2

**Electromagnetic Compatibility:** IEC/EN 60601-1-2:2015

**Protection from defibrillation:** IEC/EN 60601-1;  
device internally powered, Type BF

**Classification:** Directive 93/42/CEE  
Amd 2007/47/CE:  
Class IIb, Annex IX Rule 9

## SMARTY SAVER PLUS REAL TIME CPR FEEDBACK



*Compliant to latest ERC/AHA guidelines*

The Smarty Saver Plus 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 feedback** 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 Saver Plus 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 Saver Plus 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 Saver Plus 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 Saver Plus 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

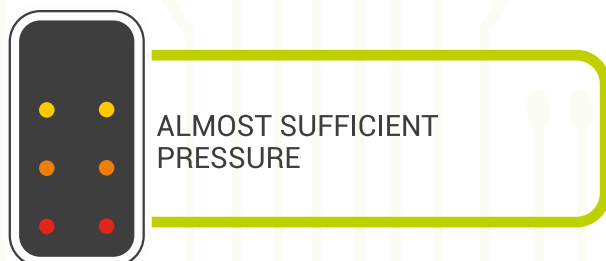
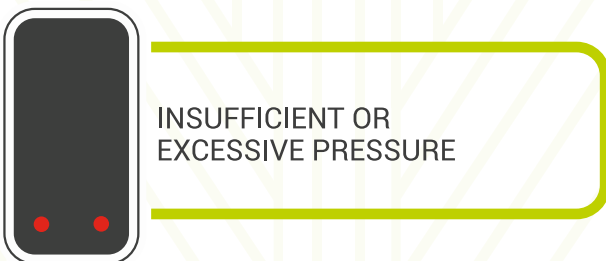
### CPR QUALITY SENSOR

- 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:



# TECHNICAL DATA SHEET

## DEFIBRILLATOR

Model:	Code SM3-B1003: Semi-Automatic Code SM4-B1004: Fully Automatic 200J (nominal)
Maximal energy: Waveform:	Biphasic truncated exponential (BTE) automatically adapts according to patient's impedance
Discharge protocol:	Adult: incremental first 150J - subsequent 200J Paediatric: fixed 50J
Charging time from shock alert*:	IEC60601-2-4 ≤ 9 sec with shock at 150J ≤ 12 sec with shock at 200J
Charging time from analysis time*:	IEC60601-2-4 ≤ 13 sec with shock at 150J ≤ 16 sec with shock at 200J
Analysis time:	IEC/EN 60601-2-4 from 4 to 15 seconds
Impedance range:	20-200 Ohms
Sensitivity:	97% (IEC/EN 60601-2-4)
Specificity:	99% (IEC/EN 60601-2-4)
Controls:	
Semi-Automatic model	4 buttons: ON/OFF, shock delivery, Patient selection (adult/child)
Fully Automatic model	3 buttons: ON/OFF, patient selection (adult/child)
Light indicators:	- 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
Upgradeable:	Through USB cable External memory card
<i>*on a 50 Ohm patient and with a fully charged new battery</i>	

## PHYSICAL

Size:	200x213x71mm (folded handle) 257x213x71mm (open handle)
Weight:	1,62 Kg (with battery and PADS)

## EVENT RECORDING

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

## DEFIBRILLATION PADS

Type:	Code SMT-C2001: Disposable, universal, pre- gelled, preconnected 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) 24-30 months, as indicated on the packaging
Dimensions:	
Shelf- life:	

## BATTERY

Type:	Code SMT-C14031: Disposable battery 8 cells Li- MnO <sub>2</sub> 12VDC-3000mAh Up to 200 complete rescue cycles (200J shocks + CPR); Up to 36 hours of continuous ECG analysis*
Voltage/capacity: Autonomy:	
Stand by life:	Up to 3 years with a battery insertion test and daily self-test without any turning on the AED*
<i>*performance referred to new batteries stored at a temperature of 20°C and relative humidity 45% without condensation</i>	

## ENVIRONMENTAL SPECIFICATION

Operating temperature:	0°C to 45°C (32°F to 113°F)
Storing/Shipping temperature:	- 40°C to 70°C (- 40°F to 158°F)
Humidity:	10% to 95% relative humidity non condensing IEC/EN 60529: class IP56
Sealing (IP Protection):	
Shock/Drop	
Abuse Endurance:	IEC/EN 60601-1 clause 21
Electrostatic Discharges:	IEC/EN 61000-4-2
Electromagnetic Compatibility:	IEC/EN 60601-1-2:2015
Protection from defibrillation:	IEC/EN 60601-1; device internally powered, Type BF Directive 93/42/CEE
Classification:	Amd 2007/47/CE: Class IIb, Annex IX Rule 9

## Q-CPR EXTERNAL MODULE

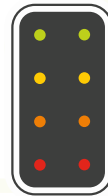
Description:	Code SMT-C14034 External module to support quality CPR paired with the AED via Bluetooth; Class I
Weight and Dimension:	95 x 60 x 13mm; 50gr
Compression guidance:	According to AHA/ERC guidelines for both adult and paediatric patients
Controls and light icons:	Ignition key ON/OFF Green flashing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



## SMARTY SAVER GEO CPR QUALITY AND GEO SYSTEM



*Compliant to latest ERC/AHA guidelines*



CPR QUALITY  
FEEDBACK



GEO SYSTEM TO LOCALIZE  
AND MONITOR THE AED DEVICE



"VIVO" BUTTON FOR  
LIVE EMERGENCY CALL

In addition to the Q-CPR module, the Smarty Saver Geo is equipped also with a SIM card and a **GPS/GPRS system**; the GPRS system allows the Smarty Saver Geo 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 Saver Geo 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 Saver Geo 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.



# TECHNICAL DATA SHEET

## DEFIBRILLATOR

Model: Code SM5-B1005: Semi- automatic  
Code SM6-B1006: Fully Automatic  
200J (nominal)  
Maximal energy: Biphasic truncated exponential (BTE)  
Waveform: automatically adapts according to  
patient's impedance  
Discharge protocol: Adult: incremental  
first 150J - subsequent 200J  
Paediatric: fixed 50J

Charging time from shock alert\*: IEC60601-2-4  
≤ 9 sec with shock at 150J  
≤ 12 sec with shock at 200J

Charging time from analysis time\*: IEC60601-2-4  
≤ 13 sec with shock at 150J  
≤ 16 sec with shock at 200J

Analysis time: IEC/EN 60601-2-4  
from 4 to 15 seconds

Impedance range: 20- 200 Ohms  
Sensitivity: 97% (IEC/EN 60601-2-4)  
Specificity: 99% (IEC/EN 60601-2-4)

Controls:  
Semi- Automatic model 6 buttons: ON/OFF, shock delivery,  
patient selection (adult/child),  
live call, ECG streaming  
Fully Automatic model 5 buttons: ON/OFF, patient  
selection (adult/child), live call,  
ECG streaming

Light indicators:  
- 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

Upgradeable: Through USB cable  
External memory card, remotely

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

## PHYSICAL

Size: 200x213x71mm (folded handle)  
257x213x71mm (open handle)  
Weight: 1,70 Kg (with battery and  
defibrillation PADs)

## EVENT RECORDING

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

## DEFIBRILLATION PADS

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

## BATTERY

Type: Code SMT-C14032:  
Disposable battery 8 cells Li-MnO<sub>2</sub>  
Ah 12VDC- 3000mAh  
Voltage/Capacity: Up to 200 complete rescue cycles  
(200J shocks + CPR);  
Autonomy: Up to 36 hours of continuous  
ECG analysis\*  
Stand by life: 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

Operating temperature: 0°C to 45°C (32°F to 113°F)  
Storing/Shipping temperature: - 40°C to 70°C (- 40°F to 158°F)  
Humidity: 10% to 95%  
relative humidity non condensing  
IEC/EN 60529: class IP56  
Sealing (IP Protection):  
Shock/Drop IEC/EN 60601-1 clause 21  
Abuse Endurance: IEC/EN 61000-4-2  
Electrostatic Discharges: IEC/EN 60601- 1-2:2015  
Electromagnetic Compatibility: IEC/EN 60601-1;  
Protection from defibrillation: device internally powered, Type BF  
Classification: Directive 93/42/CEE  
Amd 2007/47/CE:  
Class IIb, Annex IX Rule 9

## Q-CPR EXTERNAL MODULE

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

## Battery:

- Type
  - Voltage/capacity
  - Autonomy
- Radio Equipment compliance:

Directive 2014/53/UE- RED

## GEOLOC MODULE

Frequency: GSM: 850, 900, 1800, 1900MHz;  
UMTS: 900, 2100MHz;  
GPS: 1575, 1600MHZ

## Battery:

- Type
  - Voltage/capacity
- Performance: Contained in SMT-C14032;  
3 cells Li- SOCl<sub>2</sub>;  
10,8 VDC- 3500 mAh  
Geo-location, remote control of the  
device, live call, ECG streaming

Radio Equipment compliance:

RED- Directive 2014/53/UE

# WALLACECAMERON INTERNATIONAL



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01698 354 600 | [sales@wallacecameron.com](mailto:sales@wallacecameron.com) | [wallacecameron.com](http://wallacecameron.com)

Wallace Cameron International | 3 Chesford Grange  
Woolston | Warrington | WA1 4RQ

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