AERO Healthcare | HeartSine®

HEARTSINE® SAMARITAN® 500P

CLEAR GUIDANCE. **REAL-TIME CPR FEEDBACK.** GREATER CONFIDENCE.

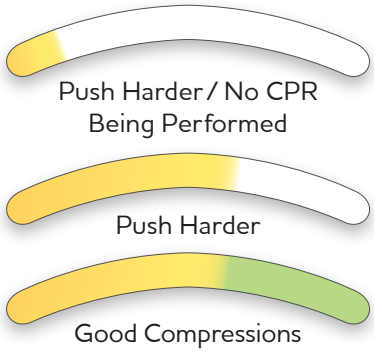
During a cardiac emergency, clear instructions can help rescuers take action. The **HeartSine Samaritan 500P** combines step-by-step defibrillation guidance with CPR Advisor™ feedback to help rescuers deliver effective chest compressions.

CPR GUIDANCE THAT GOES FURTHER

The built-in **CPR Advisor™** uses impedance cardiography (ICG) to assess the effectiveness of CPR and provide real-time feedback on chest compressions.

Clear voice prompts and visual LED indicators guide rescuers through defibrillation and help them adjust their CPR technique, supporting both first-time users and trained responders.

Visual LEDs



Voice Prompts

"Push Faster!"
"...Push Slower!"
"...Push Harder!"
"Good Compressions!"

READINESS AT A GLANCE

A flashing **System Status Ready Indicator** shows that the device is operational and ready for use. Weekly automatic self-checks help monitor its rescue-ready status.

ADAPTIVE SHOCK DELIVERY

SCOPE™ (Self-Compensating Output Pulse Envelope) technology automatically adjusts the electrical shock to account for how easily electricity passes through the patient's body.

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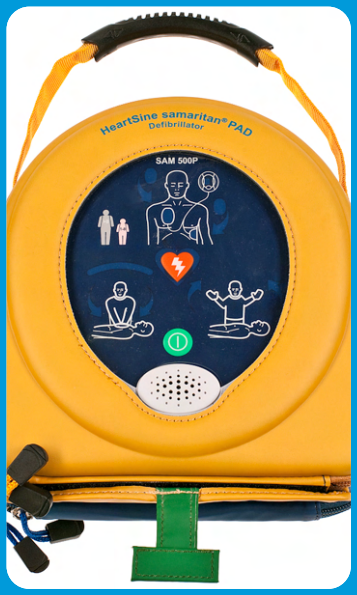
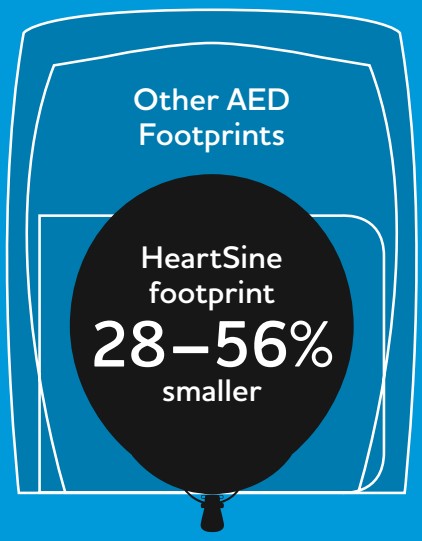


COMPACT, LIGHTWEIGHT AND DURABLE

Weighing just 1.1 kg with the Pad-Pak installed, the 500P is easy to carry to the scene of an emergency. Its **IP56 rating** provides protection against dust and water ingress, while its shock- and vibration-resistant design supports use in demanding environments.

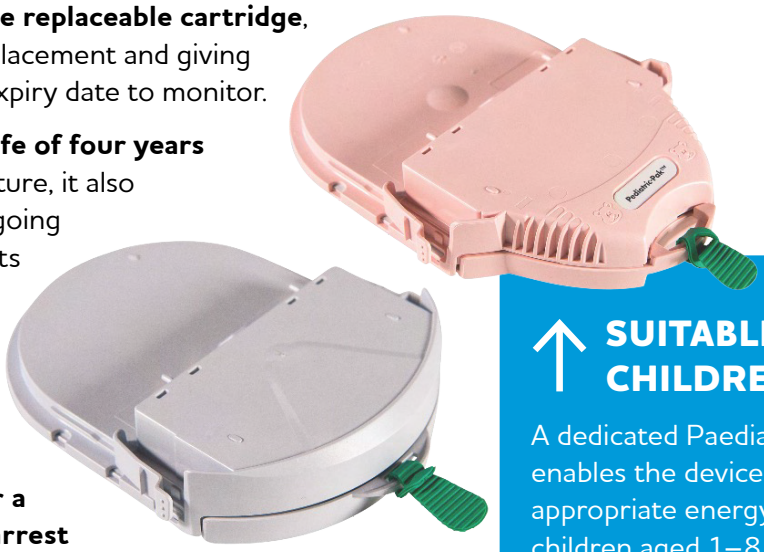
A protective carry case is included.



ONE CARTRIDGE. ONE EXPIRY DATE.

The Pad-Pak™ combines the battery and electrode pads in a single replaceable cartridge, simplifying replacement and giving you just one expiry date to monitor.

With a shelf life of four years from manufacture, it also helps keep ongoing ownership costs manageable.



FREE PAD-PAK™

HeartSine offers a free replacement Pad-Pak after a qualifying sudden cardiac arrest rescue, subject to submission of the AED's event data and a completed Customer Event Report form.

SUITABLE FOR CHILDREN

A dedicated Paediatric-Pak enables the device to deliver an appropriate energy level for children aged 1–8 years or weighing less than 25 kg (55 lb). Not for use on infant children under one year old.

8
YEARS
WARRANTY

REASSURANCE THAT LASTS

This HeartSine® Samaritan® AED is backed by an **8-year limited warranty**.

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TECHNICAL SPECIFICATIONS

AERO Healthcare

Defibrillator

Waveform: Self-Compensating Output Pulse Envelope (SCOPE) optimised biphasic escalating waveform compensates energy, slope and duration for patient impedance

Patient analysis system

Method: Evaluates patient's ECG, electrode contact integrity and patient impedance to determine if defibrillation is required

Sensitivity/Specificity: Meets IEC/EN 60601-2-4

Impedance range: 20-230 ohms

Energy selection

Pad-Pak:
Shock 1: 150 J
Shock 2: 150 J
Shock 3: 200 J

Paediatric-Pak:
Shock 1: 50 J
Shock 2: 50 J
Shock 3: 50 J

Charge time (typical):
150 J in < 8 seconds
200 J in < 12 seconds

Environmental

Operating/Standby temperature:
0°C to 50°C (32°F to 122°F)

Transport temperature:
0°C to 50°C (32°F to 122°F)

Note: It is recommended that the device should be placed in an ambient temperature of between 0°C to 50°C (32°F to 122°F) for at least 24 hours upon first receipt

Relative humidity: 5% to 95% non-condensing

Water resistance: IEC 60529/ EN 60529 IPX6 with electrodes connected and battery installed

Dust resistance: IEC 60529/ EN 60529 IP5X with electrodes connected and battery installed

Enclosure: IEC/EN 60529 IP56

Altitude: 0 to 4,575 metres (0 to 15,000 feet)

Shock: MIL STD 810F Method 516.5, Procedure 1 (40 G's)

Vibration: MIL STD 810F Method 514.5+ Procedure 1

Category 4 Truck transportation – US Highways

Category 7
Aircraft – Jet 737 & General aviation

Atmospheric pressure: 572 hPa to 1060 hPa (429 mmHg to 795 mmHg)

EMC: IEC/EN 60601-1-2

Radiated emissions: IEC/EN 55011

Electrostatic discharge:
IEC/EN 61000-4-2 (8 kV)

RF immunity:
IEC/EN 61000-4-3 80 MHz-2.5 GHz, (10 V/m)

Magnetic field immunity:
IEC/EN 61000-4-8 (3 A/m)

Aircraft: RTCA/DO-160G, Section 21 (Category M)

RTCA/DO-227 (TSO/ETSO-C142a/ EASA.21O.10042190)

Falling height: 1 metre (3.3 feet)

Physical characteristics
(with Pad-Pak inserted)

Size:
20 cm x 18.4 cm x 4.8 cm
(8.0 in x 7.25 in x 1.9 in)

Weight: 1.1 kg (2.4 lb)

Data storage

Memory type: Internal memory

Memory storage: 90 minutes of ECG (full disclosure) and event/incident recording

Review: Custom USB data cable (optional) directly connected to PC with Saver EVO Windows-based data review software

Materials used

Defibrillator housing: ABS, santoprene

Electrodes: Hydrogel, silver, aluminium and polyester

Warranty

AED: 8-year limited warranty

Pad-Pak electrode and battery cartridge

Shelf life/Standby life: 4 years from date of manufacture on both Pad-Pak/Paediatric-Pak

Weight: 0.2 kg (0.44 lb)

Size:
10 cm x 13.3 cm x 2.4 cm
(3.93 in x 5.24 in x 0.94 in)

Battery type: Disposable single-use combined battery and defibrillation electrode cartridge (lithium manganese dioxide ($LiMnO_2$) 18V)

Battery capacity (new):
> 60 shocks at 200 J or 6 hours of battery use

Electrodes: Disposable defibrillation pads are supplied as standard with each device

Electrode placement: Anterior-lateral (Adult)

Anterior-posterior (Paediatric)

Electrode active area: 100 cm^2 (15 in^2)

Electrode cable length: 1 metre (3.3 feet)

Aircraft safety test (TSO/ETSO-certified Pad-Pak): RTCA/DO-227 (TSO/ETSO-C142a/ EASA.21O.10042190)

CE 0123 HeartSine Samaritan PAD is a class III – 0123 device in accordance with EU MDR. Pad-Pak and Paediatric-Pak are CE class IIb – 0123 also in accordance with EU MDR.

HeartSine Samaritan PAD: UL Classified. See complete marking on product.

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