



iPAD SP2 Automatic External Defibrillator



Key Features



Compact. Robust. Lightweight.

The iPad SP2 is designed for durability. It is drop tested from 1.2m upon any surface, on all corners. It is also water and dust proof (IP55).

It can operate between 0°C —50°C and meets all standard vibration tests (MILSTD 810G).



Disposable Adult/Child Smart Electrode Pads

Adult/Child "Smart" Pads, capable of 'talking' to the device to notify users of expired defibrillator pads and if the pads have already been used.

These pads are useable with paediatric patients by simply selecting adult or child soft key. In AED mode, these pads can be used on infants down to 1 years old.



Bluetooth Technology

The iPad SP2 is designed to be future proof, providing industry standard technologies for high performance during rescue situations. The Bluetooth printer and ECG module allow for remote monitoring (up to 10 metres) and on the spot reporting— by the casualty's side or on the move.



Manual Override

Gives trained healthcare professionals the opportunity to interpret select the appropriate energy level and delivery a shock manually. The low energies available under manual mode allow for infants under the age of 1 to be shocked.



Full colour screen

The colour screen allows for significant amounts of clinical data to be available at your fingertips. The indicators (see LCD Monitor section) provide up to date information on the patient through either lead II (via defibrillation pads) or via the 3 Lead ECG module. It will also clearly show modes (AED/Manual/Monitoring) and patient modes (Adult/Paediatric).



Event review and playback

The 'review' function allows for recorded events to be replayed on the colour screen with the option to print out a partial or full readout from the Bluetooth printer.



Ambient Noise Detector

When the environment is loud, the iPad SP2 automatically senses this and increases its own volume to ensure the rescuer can hear audible commands clearly and precisely. If preferred, the volume can be manually controlled.



Multifunctioning soft keys

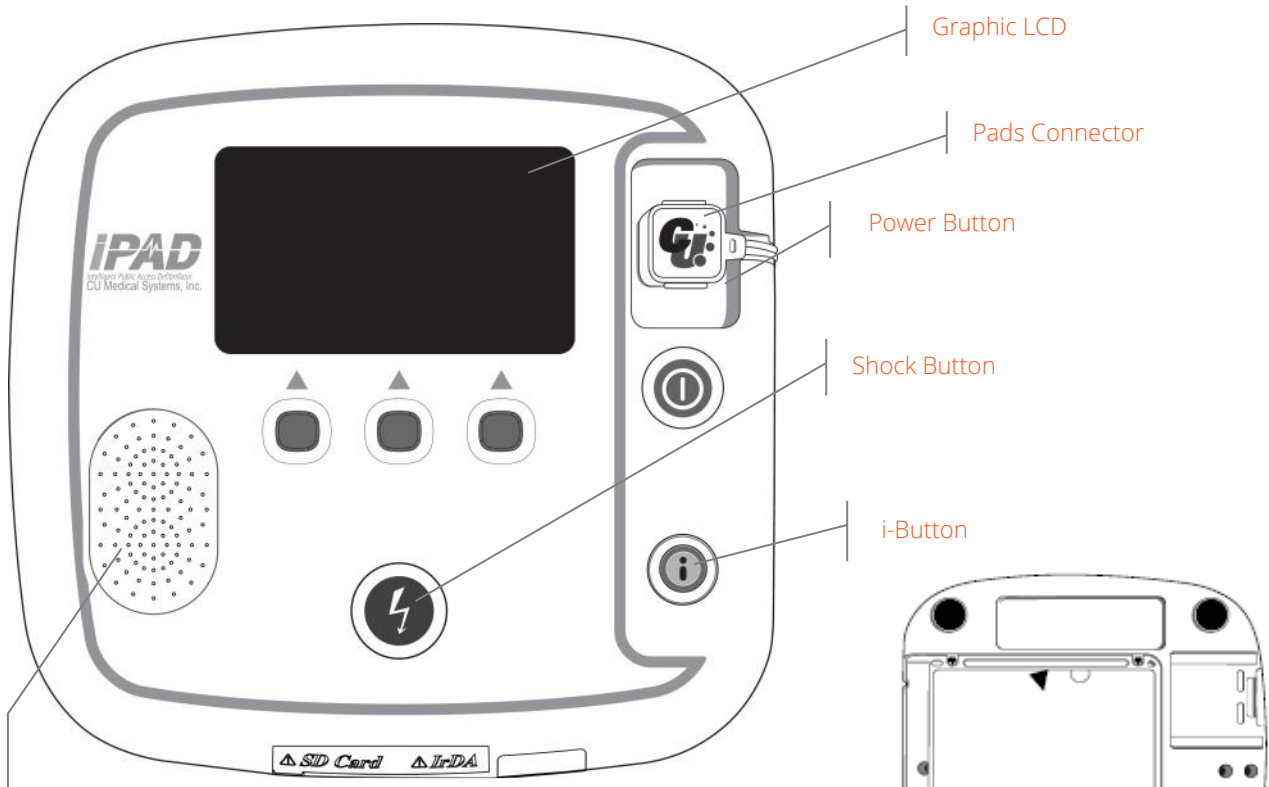
User friendly interface to be able to set up and change modes and settings quickly. They are inset from the body of the unit to prevent accidental pressing or knocking.



Synchronized cardioversion

Synchronized electrical cardioversion uses a therapeutic dose of electric current to the heart at a specific moment in the cardiac cycle, restoring the activity of the electrical conduction system of the heart.

Layout



Speaker

Ambient noise detector measures level of background noise and adjusts the volume of the voice prompts accordingly.

Ideal for noisy environments such as public places, factories, warehouses, schools etc.

Smart Pads Storage

Electrode pads are stored, pre-connected, in a clear compartment on the underside of the unit.

Battery Pack

(See Power Options page)

Soft Key Button

For easy inter-changeable settings and menus. They are inset to prevent accidentally changing.

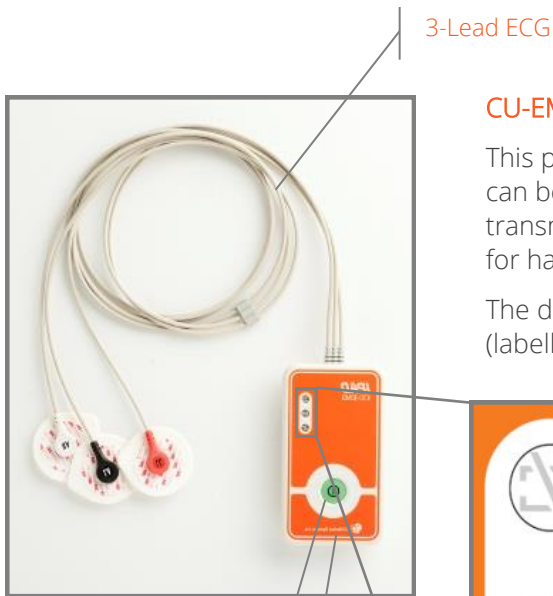
Data Transfer

With an infrared port and SD Card slot, the SP2 can transfer rescue data for analysis after an event.

Bluetooth Technology



Bluetooth®



CU-EM1—ECG Transmission Device

This powerful device allows for three lead ECG monitoring and can be used simultaneously with defibrillator electrode pads. The transmission device also has a belt clip attached upon the back for hands-free transportation.

The device has a range of 10m between the transmission device (labelled) and the SP2.

Power Button

Transmission Device



Low Power Indicator

Power and Connection Indicator

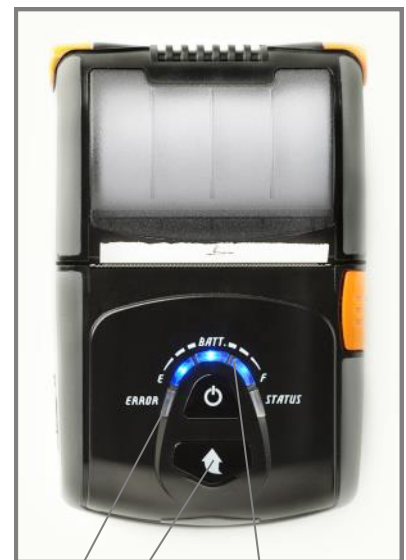
Lead-Fault Indicator

Bluetooth ECG Printer

This rechargeable printer offers a method of immediately providing a permanent record of the event. With a meter to allow you to check the current charge left in the device, a manual feed option as well as an error status indicator which will allow you to know if there's any fault with the printer.

The paper used on this device is also compatible with the other CU Medical products (HD1 and ER Ranges).

The device a range of 10m between itself and the SP2.



Error Indicator

Manual Feed

Battery Life

LCD Monitor

The diagram illustrates the LCD Monitor interface in three modes: AED Mode, Manual Mode, and Monitor Mode. Each mode displays a top status bar with a timer (00:00:32), a person icon, a 30:2 ratio, a lightning bolt icon with '0', '150J' energy level, and a battery icon. The heart rate (HR bpm) is displayed as 60. The AED Mode includes a visual guidance image of a person lying down with a red 'no' symbol over their chest and the text 'Analyzing heart rhythm.' The Manual Mode shows an ECG trace labeled 'Pade' and three soft key indicators: ENERGY, SYNC ON, and CHARGE. The Monitor Mode shows an ECG trace, a 'Monitor Mode' indicator, a Bluetooth ECG Module Battery Status Indicator (EM1 Battery 100%), and a SEMI-AUTO soft key indicator. Labels with leader lines identify various elements: Elapsed Time, Adult/Child Indicator, SP2 Battery Level, Heart Rate, Compression : Breaths, No. of Shocks Delivered, Energy Level, Visual Guidance, 'Manual Mode' Indicator, ECG Trace, Soft Key Indicators, 'Monitor Mode' Indicator, Bluetooth ECG Module Battery Status Indicator, and Soft Key Indicator.

SETUP MENU SCREEN

DEVICE SETUP	DATA REVIEW	EXIT
Device Mode		AED Mode
Manual Override		OFF
Adult / Pediatric Mode		Pediatric
Shock Energy		Fixed 150J
ECG Gain		10 mm / mV
Device Volume		1
Graphic Instructions		ON

DATA REVIEW SCREEN

DEVICE SETUP	DATA REVIEW	EXIT
	Power On	00:00:00
	Pads On	00:00:10
	Analyzing Heart Rhythm	00:00:10
	No Shock Advised	00:00:17
	Pause For CPR	00:00:20
	Pads On	00:00:53
	Pads On	00:00:57

i :EXIT
1 / 3

ECG PLAYBACK

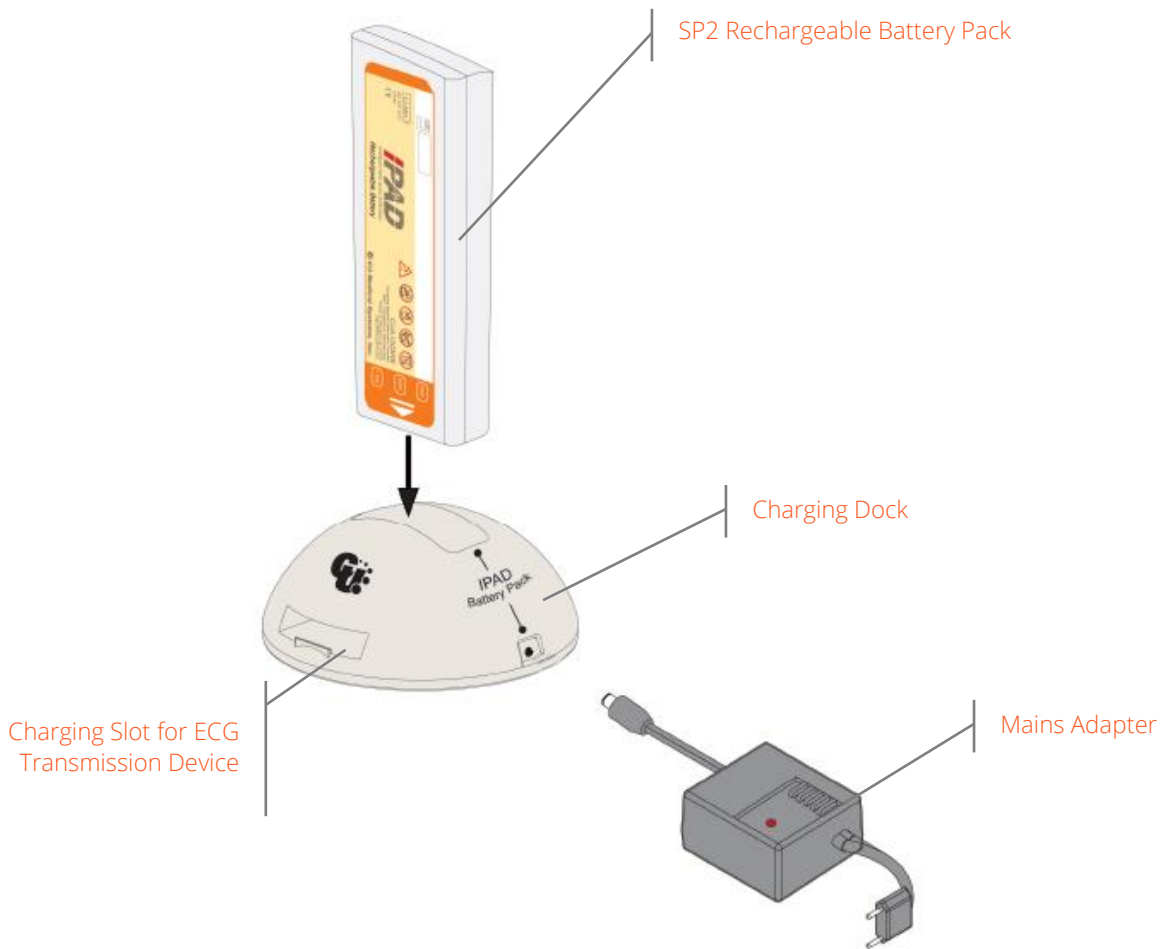


Power Options

The SP2 provides both disposable and rechargeable battery options, with the disposable battery pack similar to the SP1, as well as a new rechargeable battery pack, designed for intensive usage of your machine. Along with the SP2, all the additional accessories; the Bluetooth printer and ECG transmission device both operate on rechargeable batteries.

The rechargeable battery pack is the recommended power option for when monitoring is required.

The SP2 Charging Dock provides a means to restore power to all your devices—in one sitting!



	Disposable Battery	Rechargeable Battery
Capacity	150 Shocks / 5 hours of operation time.	70 Shocks / 3 hours of operation time.

Accessories

Disposable Adult/Child Smart Electrode Pads

Adult/Child "Smart" Pads, capable of 'talking' to the device to notify users of expired defibrillator pads and if the pads have already been used.

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SP2 Battery Packs — Disposable and Rechargeable

See Power Options page for more details.

SP2 Orange Carry Case

This highly visible carry case is the perfect companion for your SP1 device. Currently available at no additional cost.

The bag has space for an additional set of pads, a spare battery, printer and ECG module. There is also a detachable shoulder strap.

The case offers protection while still being able to use the device.



Additional Options



Electrode Pad Adapters

These pad adapters will allow the electrode pads from Zoll, Phillips and PhysioControl to be used with the iPAD SP1.

This means the same pads can be unplugged from iPAD and plugged straight in to the defibrillator on the front line vehicle. This reduces risk, saves time, reduces trauma and is cost-effective.

Bluetooth 3 Lead ECG Monitoring

The 3-Lead ECH monitoring via bluetooth technology means patients can be continuously monitored, even in difficult environment or situations. It also means patients can be moved and monitored at all times.



Bluetooth Printer

This rechargeable printer using Bluetooth technology means that a full or partial print out can be obtained, on the scene during any scenario.

Recharged via a mains adapter.

Device Specifications—Model Name: CU-SP2

Physical

Dimensions 260mm x 256mm x 69.5mm (Width x Length x Height)

Weight 2.4kg (Including the battery pack and pads)

Environmental

Operating Environment (The device can be used immediately in case of an emergency.)

Temperature: 0°C ~ 43°C (32°F ~ 109°F)

Humidity: 5% ~ 95% (a location with no condensation)

Storage Environment (The device has pads and a battery and is ready to be used for an emergency.)

Temperature: 0°C ~ 43°C (32°F ~ 109°F)

Humidity: 5% ~ 95% (a location with no condensation)

Transportation Environment (The device does not have pads and a battery and is separately stored or transported over a long period of time.)

Temperature: -20°C ~ 60°C (-4°F ~ 140°F)

Humidity: 5% ~ 95% (a location with no condensation)

Altitude 0 to 15,000 feet (operational and storage)

Drop Withstands 1.2-meter drop to any edge, corner, or surface

Vibration Operating: Meets MIL-STD-810G

Sealing IEC 60529: IP55

ESD Meets IEC 61000-4-2:2001

EMI (Radiated) Meets IEC 60601-1-2 limits, method EN 55011:2007 +A2:2007, Group 1, Class B

EMI (Immunity) Meets IEC 60601-1-2 limits, method EN 61000-4-3:2006 +A1:2008 Level 3 (10V/m 80MHz to 2500MHz)

Defibrillator

Operation Type Semi-automated External Defibrillator

Output Type e-cube biphasic (Truncated exponential type)

Output Energy - AED Mode

150J, 200J at 50Ω load for adults

50J at 50Ω load for children

- Manual Override (Not Option)

2J, 3J, 5J, 7J, 10J, 20J 30J 50J 70J, 100J, 150J, 200J

Charge Control Controlled by an automated patient analysis system

Charge Time For the first defibrillation of a new battery, capable of administering shock within 9 seconds of the given voice instruction.

Get in touch to find out more

T: 03333 444789

W: www.ipad-aed.com

E: info@ipad-aed.com

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Intelligent Public Access Defibrillator