

i-PAD CU-SP1

(Intelligent Public Access Defibrillator)

Defibrillation capability for the general public

Key Features

- Ambient noise detection(Auto volume adjusting)
- CPR detection
- Pads and battery status indicator
- Multi events recording
- Easy communication with CU-EX1 software
- Low cost of ownership

Specifications

DEFIBRILLATOR

- Model : IPAD CU-SP1
- Standard Package : Defibrillator, Pads, Battery, Manual
- Output Energy : Adult-150Joules / Pediatric-50Joules(Common usage)
- Charging Time
Charging time : Less than 10 seconds
Charging time after CPR finished : At least 6 seconds

User Interface

- User Support : Detailed voice prompts and flashing indicators
- CPR guidance : Voice prompts for how to perform CPR for adult and child patient
- Controls : On/Off button, I button, Shock button
- Indicator : LCD display(Device status, Battery status, Pads status)
- Sensing : Pads expiring date, Pads connection status
- CPR monitoring
- Automatic Volume adjusting

Environment

- Sealing :
Waterjet proof IPX5 per IEC60529(IP55)
Dust protected IP5X per IEC60529
- Temperature : Operation/Standby (0 ~43°C)
- Vibration : Meets MILSTD 810G

Data Recording and Transmission

- IrDA port : Wireless transmission of event data to PC, SD card
- Internal Memory : ECG, Event
- Storage Capacity : Multi Recording 5 events / Max 3 hours
- Data Review PC Program : CU-EX1

Patient Analysis System

- Patient Analysis : Shockable rhythms (Ventricular Fibrillation, Ventricular Tachycardia)
- Sensitivity/Specificity : Meets AAMI DF80 Guideline

Battery

- Standard Capacity : - Type : DC 12 volt 2.8Ah, Lithium manganese dioxide
- Capacity : Minimum 50 shocks(150J)
- High Capacity : - Type : DC 12 volt 4.2Ah, Lithium manganese dioxide
- Capacity : Minimum 200 shocks(150J)
- Lifespan : 5 years (high capacity battery)
(With the condition of the temperature of operation/standby, standby mode after the first initial check)



• Size : 260×256×69.5 (W×L×H, mm)
• Weight : 2.4kg

Parts & Accessories

Standard Package

- Device
- Multifunction Defib. Pads
- Disposable LiMnO₂ Battery Pack
- User's Guide

Option

- Carrying case
- SD card
- Software for data management with key file
- Wall bracket - Wall cabinet



CU-SP1 Trainer

- 8 Standard rescue scenarios
- Powered by AAA disposable, rechargeable battery
- Simulates all the functions of CU-SP1



Auto volume adjusting, upto 90db

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



Smart pads storage, underneath the device

Integrated pad storage
- electrode pads are stored, pre-connected, in a clear compartment on the underside of the unit.



Smart CPR detection

- If CPR is not being performed, voice prompts encourage the responder to 'perform CPR'
- If CPR is being performed, voice prompts encourage the responder to 'continue CPR'



Easy communication

- Internal memory stores the last 5 events/3 hours of data
- Data can be transferred via the built in SD card and IrDA ports



Patient mode switch

- Easily switch from Adult to Child mode without changing pads
- Safety cover prevents accidental switching

i-PAD CU-SP2

(Intelligent AED for professional use)

Key Features

- Manual Override, R-Sync function
- Graphic LCD status indicator
- Wireless ECG transmission device
- External Bluetooth Printer
- Ambient noise detection(Auto volume adjusting)
- Easy communication with CU-EX1 software

Specifications

DEFIBRILLATOR

- Model : IPAD CU-SP2
- Output Energy :
AED Mode : Adult-150/200J(fixed) or 150-200J, 150-150-200J(Energy Escalating)
Manual Mode : 2-200J, R-Sync
- Charging Time
Charging time : Less than 10 seconds
Charging time after CPR finished : At least 6 seconds

User Interface

- User Support : Graphic guide, Detailed voice and text prompts
- CPR guidance : Voice prompts for CPR for adult and child patient
- Controls : On/Off button, I button, Shock button, 3 Menu buttons
- Indicator : Graphic LCD display (Device status, user's guide, ECG, heart rate, etc.)
- Sensing : Pads expiring date, Pads connection status, Pads usage detecting
- ECG monitoring
- CPR monitoring
- Automatic Volume adjusting

Environment

- Sealing :
Waterjet proof IPX5 per IEC60529(IP55)
Dust protected IP5X per IEC60529
- Temperature : Operation/Standby(0 ~50°C)
- Vibration : Meets MILSTD 810G

Data Recoding and Transmission

- Internal Memory : ECG, Event
- IrDA : Wireless transmission, SD card
- Storage Capacity : Multi Recording 3 events(up to 17 hours for each event)
- Bluetooth : Printer or CU-EM1
- Data Review : CU-EX1

Patient Analysis System

- Patient Analysis : Shockable rhythms (Ventricular Fibrillation, Ventricular Tachycardia)
- Sensitivity/Specificity : Meets AAMI DF80 Guideline

Battery

- Rechargeable : - Type : 11.1V DC, 1.9Ah Li-ion
- Capacity : Minimum 60 shocks or 3 hours of operation
- Disposable : - Type : 12V DC, 4.2Ah LiMnO2
- Capacity : Minimum 130 shocks or 5 hours of operation



- Size : 260 x 256 x 69.5(W x L x H,mm)
- Weight : 2.4kg

Parts & Accessories

Standard Package

- Device
- Multifunction Defib. Pads
- Rechargeable Battery Pack
- Battery Charger
- User's Guide

Option

- Carrying case
- SD card
- Printer
- CU-EM1 (ECG Transmission Device)

DEVICE SETUP	DATA REVIEW	EXIT
Device Mode	Manual Mode	
Manual Override	CHARGE	
Adult / Pediatric Mode	ADULT	
Shock Energy	Escalating(150-150-200J)	
ECG Gain	10 mm/m V	
Device Volume	1	
Graphic Indication	ON	1 / 2

Manual Mode

When in manual override, the user can set the energy value for defibrillation. Using R-Sync will detect the R-wave of the patient's ECG, and display the R-Sync mark on the LCD Screen with a short beep.



Wireless ECG transmission device(CU-EM1)

In Monitor Mode, the i-PAD CU-SP2 uses Bluetooth to receive ECG data from the CU-EM1 and displays it on the LCD Screen.



Printer

The i-PAD CU-SP2 supports connection to an external Bluetooth printer

i-PAD NF1200 (Semi-Automated)

i-PAD NF1201 (Fully-Automated)

(Intelligent Public Access Defibrillator)
Defibrillation capability for the general public



• Size : 220×281×82 (W×L×H, mm)
• Weight : 2.2kg

Key Features

- Patented *e-cube* Biphasic Truncated Exponential Shock Waveform
- Automatic Self-testing
- CPR coaching
- Multi event recording
- Pads status detection
- Simple operation
- LED status indicator

Technical Specifications

DEFIBRILLATOR

- Model : NF1200 - Operation : Semi-Automated (NF1200), Fully-Automated (NF1201)
- Waveform : Biphasic Truncated Exponential - Energy : 200J (Fixed)
- Shock-to-Shock Cycle Time : Typically less than 20 seconds
- Protocol : Voice prompts and indicators guide user through protocol.
Follow preconfigured settings. Can be modified with software
- Voice Instructions : Detailed voice messages guide responder through use of the defibrillator
- Controls : Shock Button (NF1200 only), i-Button, On/off Button
- Indicators : 4 LEDs (different colors), i-Button

ENVIRONMENTAL / PHYSICAL REQUIREMENTS

- Temperature : Operating : 32° - 110° F (0° - 43°C)
Standby : 32° - 110° F (0° - 43°C)
- Humidity : Operating - 0% to 60% relative, non-condensing
Standby - 0% to 95% relative, non-condensing
- Vibration : Meets EN1789 random and swept sine, road ambulance specification
in operating and standby states
- EMI (Radiated/Immunity) : Meets EN55011 Group 1 Level B Class B and EN61000-4-3

Sealing

- Meets IEC60529 class IP54 with battery installed

BATTERY

- Type : 12 Volt DC, 4.2 Ah, lithium manganese dioxide, disposable long-life primary cell
- Capacity : Minimum 200 shocks or 4 hours of operating time (25°C)

AUTOMATED AND USER-ACTIVATED SELF-TESTS

- Daily Self-Tests : Tests internal circuitry, waveform delivery system, battery capacity and software
- Battery Insertion Test : Upon battery insertion, extensive automatic self-tests and user-interactive test check device readiness

Data stored

- Maximum 7 events can be saved.
- 1 event can be recorded for 75 minutes
- If 7 events are recorded, maximum recording duration for each event is 5 minutes



Pads Connector Guide & LEDs

- Indicates the position of the pads connector
- Guide the user during rescue operation



Shock Button (NF1200 only)

- Delivers the shock



Information Button

- When pressed, guides the user during CPR and system trouble shooting



State LED

- Indicates operational state of the device



Battery Pack

- Disposable LiMnO₂ Battery Pack



IrDA Port

- Used for data communication

Parts & Accessories

Standard Package

- Device
- Multifunction Defib. Pads
- Disposable LiMnO₂ Battery Pack
- User's Guide
- Quick Reference Card

Option

- Carrying case
- IrDA connector for data communication
- Software for data management with key file
- Wall bracket - Wall cabinet

TRAINER



i-PAD NF1200 T1

- 8 standard Rescue Scenarios
- Infrared remote control operation
- Powered by an external disposable battery pack or rechargeable battery pack
- Simulates all the functions of the NF-1200

i-PAD NF1200 T2

- 8 standard Rescue Scenarios
- Powered by AA Battery
- Function Switch
- Simulates all the functions of the NF-1200

