1-PAD CU-SP1

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





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

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

Waterjet proof IPX5 per IEC60529(IP55)

Dust protected IP5X per IEC60529

- Vibration : Meets MILSTD 810G

Enviorment - Sealing :

- - IrDA port : Wireless transmission of event data to PC. SD card
- Temperature : Operation/Standby (0 ~ 43°C)
- 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)



- Device

- User's Guide

• Data Recording and Transmission

- Internal Memory : ECG. Event
- Storage Capacity : Multi Recording 5 events / Max 3 hours
- Data Review PC Program : CU-EX1

- Opition - Multifunction Defib. Pads - SD card - Disposable LiMnO₂ Battery Pack
 - Carrying case - Software for data management with key file
 - Wall bracket Wall cabinet



CU-SP1 Trainer

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DAD

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- 8 Standard rescue scenarios

Weight : 2.4kg

Parts & Accessories Standard Package







- - Powered by AAA disposable, rechargable battery
 - Simulates all the functions of CU-SP1





- Safety cover prevents accidental switching





(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.)

Data Recoding and Transmission

- IrDA : Wireless transmission, SD card

- Storage Capacity : Multi Recording 3 events (up to 17 hours for each event)

- Internal Memory : ECG, Event

- Bluetooth : Printer or CU-EM1

- Data Review : CU-EX1

- Sensing : Pads expiring date, Pads connection status, Pads usage detecting
- ECG monitoring
- CPR monitoring
- Automatic Volume adjusting

Enviorment

- Sealing : Waterjet proof IPX5 per IEC60529(IP55) Dust protected IP5X per IEC60529 - Temperature : Operation/Standby(0 ~ 50 °C)
- Vibration : Meets MILSTD 810G
- Patient Analysis System
- Patient Analysis : Shockable rhythms (Ventricular Fibrillation, Ventricular Tachycardia) - Sensitivity/Specificity : Meets AAMI DF80 Guideline

Batterv

- 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



DATA REVIEW EXIT

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.

 Size : 260×256×69.5[W×L×H.mm] • Weight : 2.4kg

• Parts & Accessories

Standard Package

- Device
- Multifunction Defib. Pads

- User's Guide

- Rechargeable Battery Pack - Battery Charger

- Carrying case - SD card

Opition

- Printer - CU-EM1 (ECG Transmission Device)



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

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1-PAD NF1200 (Semi-Automated) 1-PAD NF1201 (Fully-Automated)

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

Kev 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/İmmunity) : 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

TRAINER

- Device

i-PAD NF1200 T1

- Multifunction Defib. Pads



Parts & Accessories

Standard Package

 Powered by an external disposable Function Switch of the NE-1200







Opition

- Carrving case
- IrDA connector for data communication

· Weight : 2.2kg

- Software for data management with key file

- Wall bracket - Wall cabinet

Size : 220×281×82 [W×L×H, mm]

i-PAD NF1200 T2





∕∧ IrDA



- Disposable LiMnO₂ Battery Pack