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A first step of  
saving life

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CU Medical Systems, Inc.





# LIFEGAIN CU-HD1

(Multifunction Defibrillator / Monitor)

Someone goes down in cardiac arrest, resuscitation is just a hand away...



## ❖ Specifications

### • Display

- LCD Dimensions : 7 inch Diagonal (152mm \* 91mm)
- Type : TFT Color
- Resolution : 800 \* 480 pixels

### • Defibrillation

#### Defib Common

- Waveform : Truncated Exponential Biphasic (e~cube)
- Charge Time : Adapter : Less than 5 seconds to 200 Joules  
Battery : Less than 5 seconds to 200 Joules

#### AED Mode

- Output Energy : 200J
- Shock Delivery : Via multifunction defib electrode pads
- AED Develop Guideline : Shock advisory sensitivity and Specificity meet AAMI DF-80 guidelines
- Voice & Text Prompts : Guide the user through the protocol via multifunction defib electrode pads

#### Manual Mode

- Output Energy : 1~10J, 15J, 20J, 30J, 50J, 70J, 100J, 120J, (Selected) 150J, 170J, 200J
- Shock Delivery : External paddle (with Pediatric) / Internal paddle
- Synchronous Cardioversion

### • Printer

- Continuous ECG Strip : Real-Time (8 seconds delay)
- Auto Printing : Recorder can be configured to print marked event, charge, shock and alarms
- Printing Speed : 25mm/s
- Paper : 50mm Width / 40mm Diameters

### • Automatic Self-Test

- Power On Self-Test
- Run Time Self-Test
- Manual Self-Test
- Periodic Self-Test (Daily / Weekly / Monthly)

### • Data Storage

- External memory card
- SD Card (ECG data, Event, Voice)

### • ECG Monitoring

- Input : 3-Lead Cable : I, II, III  
5-Lead Cable : I, II, III, aVR, aVL, aVF or V  
10-Lead Cable : I, II, III, aVR, aVL, aVF or V1, V2, V3, V4, V5, V6  
(Display View : All 12-Lead ECG waves display simultaneously)
- Lead Fault : "Lead Fault" message and dashed line display, if an electrode or lead wire becomes disconnected
- Heart Rate Display : 30 to 300 bpm ( $\pm 3$ bpm)
- ECG Size : 5, 10, 20mm/mV and Auto-gain
- Heart Rate/Arrhythmia Alarm : HR, Asystole, VF, VT

### • Power Source

- External Battery Pack : Lithium Polymer
- Type : 14.8V 3.1Ah (Rechargeable)
- Capacity : When new, minimum of 100 shock deliveries (200J)

#### AC Power Pack

- Output : 18V, 6A

### • Noninvasive Pacing

- Waveform : Monophasic Truncated Exponential
- Mode : Demand and Fixed Mode
- Amplitude Accuracy : 0 ~ 200mA ( $\pm 5$ mA)
- Pulse Width : 20ms ( $\pm 1.5$ %)
- Pulse Rate : 30 ~ 180ppm ( $\pm 1.5$ %)
- Refractory Period : 340 msec (30 to 80 ppm)  
240 msec (90 to 180 ppm)

### • SpO<sub>2</sub> Pulse Oximetry

- Saturation : 70 ~ 100% ( $\pm 3$ digits)
- Pulse Rate : 20 ~ 250 bpm ( $\pm 3$ bpm)
- Perfusion : 0.2%
- Module Manufacturer : Nellcor
- SpO<sub>2</sub> Alarm : Less than Minimum setting rate  
Over than Maximum setting rate

### • NIBP

- Patient Population : Adult, Pediatric, Neonate
- Method : Oscillometric
- Control : Automatic and manual measurements
- Auto Intervals : 1, 3, 5, 10, 15, 30, 60, 120 min
- Displayed Pressures : Systolic, Diastolic, MeanmmHg
- Displayer Units : Adult : 40 to 260 mmHg  
Pediatric : 40 to 160 mmHg  
Neonate : 40 to 130 mmHg
- Systolic Range : Adult : 20 to 200 mmHg  
Pediatric : 20 to 120 mmHg  
Neonate : 20 to 100 mmHg
- Diastolic Range :  $\pm 3$ mmHg
- Pressure Transducer : Adult : 300 mmHg  
Accuracy Pediatric : 300 mmHg  
Neonate : 150 mmHg
- Redundant Circuit Overpressure Limit

### • EtCO<sub>2</sub>

- Range : 0 ~ 99 mmHg
- Accuracy :  $\pm 1.5$  mmHg + 2 % of gas level
- Respiration Range : 0 ~ 150 bpm
- Respiration Rate Accuracy :  $\pm 1$  bpm
- Sampling Flow Rate : 50  $\pm$  10 ml/min
- Typical Response Time : (1 sec(IRMATM), < 3sec(ISATM))



- Size : 318×208×355 (W×L×H, mm)
- Weight : 6kg (with external paddle)

## Key Features

- Efficient e~cube Biphasic technology (BTE Type)
- Manual and AED operation
- Defibrillation using paddles, pads or internal paddles
- ECG Monitoring (3-Lead ECG / 5-Lead ECG / 10-Lead ECG)
- SpO<sub>2</sub> pulse oximetry with alarms (Nellcor)
- Noninvasive pacing mode
- NIBP (Non-Invasive Blood Pressure)
- EtCO<sub>2</sub> (End-Tidal CO<sub>2</sub>)



## • Parts & Accessories

### Standard Package

- Device
- External Paddle (Adult, Pediatric)
- 3 Lead ECG cable
- ECG electrodes
- Defi pads & Adaptor
- Built in printer
- Power cord & SMPS
- Internal Battery
- Gel
- User's Guide

### Option

- Carrying case
- SD card
- SD card reader
- Pediatric pads
- 5 Lead ECG cable
- Car cigar lighter jack
- SpO<sub>2</sub> Module Set
- Pacer
- 10 Lead ECG cable
- NIBP (Non- Invasive Blood Pressure)
- EtCO<sub>2</sub> (Mainstream / Sidestream)
- Software for data management (CU-EX2)