

The **HP Codemaster XL+** is a high performance Defibrillator monitor. The HP Codemaster XL+ offers multi-functional electrodes the allow you to do pacing and defibrillation with the same pads. At the same time, the system offers a hands-free operation that allows for remote defibrillation. The Defibrillation system has built-in paddles for pediatric and adult patients. With its easy 1-2-3 operation, the system is easy to use and offers a speed response in an emergency. The system can charge from 0 to 360 in 5 seconds and store up to 28 events in the memory. The HP Codemaster XL Plus has a bright 5-inch screen that can tell you the condition of the patient at a glance.

Features

- Defibrillator with ECG and recorder
- Provides 1-2-3 operation
- Built-in pediatric paddles under slide-off adult paddles
- Preset heart rate alarms
- High-capacity battery
- Built-in diagnostics



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Specifications

Dimensions Height: 7.9" (20 cm)

Width: 11.8" (30 cm)

Depth: 15.6" (39.7 cm)

Weight: 24 lbs (10.9 kg)

Defibrillator Waveform: Damped sinusoidal (Lown)

Output Energy: 2, 3, 5, 7, 10, 20, 30, 50, 70, 100, 150, 200, 300, and 360 joules

Charge Control: Push-button on apex paddle and on front panel

Charge Time: Less than 5 seconds to 360 joules with battery present. Less than 15

seconds to 360 joules on AC only.

Armed Indicators: Charge done tone, charge done lamp on apex paddle, and available

energy indicated on display.

Paddle Contact Indicator (optional): 3-color LED bar graph array on STERNUM paddle

indicates quality of defibrillator paddle contact before discharge.

Paddles: Standard paddles are anterior/anterior, adult and pediatric. Adult electrodes (83 cm²) slide off to expose pediatric electrodes (21 cm²). Paddle cord is 10 ft (3 m). Full

range of internal paddles available.

Monitor

Inputs: ECG may be viewed through paddles or patient cable. Lead I, II, III, or PADDLES selectable. Additional leads (aVR, aVF, aVL, V Leads) and PADS are

available. Monitor and recorder indicate selected ECG source

Lead Fault: LEADS OFF message and dashed baseline appear on monitor if a lead

becomes disconnected

Common Mode Rejection: Greater than 100 dB measured as per AAMI standards for

cardiac monitors (EC13)

Display Size and Type: 5 inch (12.7 cm) diagonal CRT for 4 seconds of ECG data on

screen; non-fade, fixed trace. Scrolling trace is selectable

Sweep Speed: 25 mm/sec nominal **Frequency Response:** 0.5 to 40 Hz

Heart Rate Display: Digital readout on monitor from 15 to 300 BPM.

Heart Rate Alarms: Three pre-set pairs of high and low heart rate alarm limits from 20 to

280 BPM. (Configurable pairs are optional.)

ECG Output: 1V/mV

Patient Cable Length: 10 ft (3 m)



Specifications Continued

Thermal Array Recorder

Event Summary (optional): Stores and prints 3 seconds pre- and 8 seconds postcritical event data for up to 28 events. Data retained after unit is turned off

Annotates: Time, date, HR, event marker, ECG mode, defibrillator mode, selected

energy, actual delivered energy, peak current, and patient impedance

Speed: 25 mm/sec.

Paper Size: 50 mm by 30 m (100 ft)

Recorder Mode: Automatically documents events and ECG during defibrillation episodes. The recorder can be configured to run in either real time or with a six second

delay

Frequency Response: 0.5 to 40 Hz or 0.05 to 150 Hz selectable

Battery

Type: Rechargeable sealed lead-acid battery. 4 Ah, 12 V nominal

Charge Time: 2 hours to 90% of full capacity. 18 hours to 100% capacity. Repeated

charging to less than 100% will reduce useful life of battery.

Capacity: 2 1/2 hours monitoring or fifty (50) full-energy discharges or 1 hour monitoring

and recording.

Battery Indicators: Illuminated LED indicates battery is charging. LOW BATTERY

message appears on monitor when limited battery capacity remains.

External Pacemaker (Optional)

Current Pulse Amplitude: 10 mA to 200 mA.

Pulse Width: 20 msec.
Rate: 40 ppm to 180 ppm.
Modes: Demand or fixed rate.

Refractory Period: 40 to 80 ppm 340 msec; 90 to 180 ppm 240 msec.

SpO₂ (Optional)

Measurement Range: 0 to 100%

Accuracy with HP M1190A Sensor: 1 standard deviation, 65-80%: ±2.5%, 80-100%:

±1.5%, resolution: 1% **Averaging:** 8 beats

SpO2 Alarm Limits — Range: 100/90, 100/85, 100/80

SpO2 Alarm Delay: Ten seconds after value drops below the low alarm setting.

INOP Alerts: Triggered by disconnected sensor, noisy signal, light interference oralow

signal.

Pulse Rate Measurement Range: 30 to 300 bpm ± 1%; resolution 1 bpm.

Pulse Amplitude Indicator: Indicates pulsatile activity.

