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The **Lifepak 20E** is a Defibrillator and Monitor in one. By combining the functionality of manual and automatic defibrillation makes it quicker and easier to deliver the care that is need in an emergency setting. TheLifepak 20e comes with a CodeManagement module that allows the device to show waveform capnography and connect wirelessly to the hospital network. This makes it easy to run reports on critical cardio-respiratory events.

The Lifepak 20E is not much different from the Lifepak 20, the main difference is the lithium-ion battery. The Lifepak comes with an LCD color screen making it easier to see the Waveforms and CPR statistics. The compact and durable design of the Lifepak Defibrillator makes it easy to fit on a crash cart, a stretcher, or bedside.

Features

- Manual and automatic defibrillation functionality
- Built-in AC Power
- 3 and 5 ECG monitoring capability
- Rechangeable internal lithium -ion battery
- BLS/ACLS front door

SOMA TECH INTL • 166 HIGHLAND PARK DRIVE • BLOOMFIELD, CT 06002 • USA
PHONE: 1.800.GET.SOMA • WWW.SOMATECHNOLOGY.COM • EMAIL: SOMA@SOMATECHNOLOGY.COM

Revised 02/04/2020

Specifications

Dimensions	**Height:** 8.4" (21.3 cm)
	Width: 10.3" (26.2 cm)
	Depth: 10.3" (26.2 cm)
	Weight: 12.3 lbs (5.58 kg)

Display

Size (active viewing area): 115.18 mm (4.53 in) wide x 86.38 mm (3.4 in) high

Resolution: 320 x 240 dot color active LCD**.** Displays a minimum of 3.7 seconds of ECG and alpha numeric for values, device instructions or prompts Option to display one additional waveform.

Waveform display sweep speed: 25 mm/sec for ECG and SpO2

Power

The device is an AC line operated device with an internal battery as backup.

AC Powered: 100–120 VAC 50/60Hz, 220–240 VAC 50/60 Hz, total power draw less than 120 Volt-Amperes (VA).

Battery

Battery Charge Time: <4 hours when device is powered off and AC power is applied.

Run Time: A new fully-charged internal backup battery will provide between 110-210 minutes of run time depending on how it's being used.

Printer

Prints continuous strips of the displayed patient information.

Paper size: 50 mm (2.0 in)

Print speed: Continuous ECG 25 mm/sec +/- 5% (measured in accordance with AAMI EC-11, 4.2.5.2)

Delay: 8 seconds

Autoprint: Waveform events print automatically (user configurable)

Print Speed for CODE SUMMARY Reports: 25 mm/sec

Frequency Response

Diagnostic: 0.05 to 150 Hz or 0.05 to 40 Hz (user configurable)

Monitor: 0.67 to 40 Hz or 1 to 30 Hz (user configurable)

Paddles: 2.5 to 30 Hz

Analog ECG Output: 0.67 to 32 Hz (except 2.5 to 30 Hz for paddles ECG)

Alarms

Quick Set: Activates alarms for all parameters

VF/VT Alarm: Activates continuous CPSS monitoring in Manual Mode

Specifications

Defibrillator

Waveform: Biphasic Truncated Exponential. The following specifications apply from 25 to 200 ohms, unless otherwise specified.

Energy Accuracy: ±1 joule or 10% of setting, whichever is greater, into 50 ohms ±2 joule or 15% of setting, whichever is greater, into any impedance from 25–100 ohms.

Voltage Compensation: Active when disposable therapy electrodes are attached. Energy output within ± 5% or ± 1 joule, whichever is greater, of 50 ohm value, limited to the available energy which results in the delivery of 360 joules into 50 ohms.

ECG

ECG can be monitored through 3-wire or 5-wire ECG cables.

Standard paddles or therapy electrodes (QUIK-COMBO pacing/defibrillation ECG electrodes or FAST-PATCH disposable defibrillation/ECG electrodes) are used for paddles lead monitoring.

Compatible with LIFEPAK 12 ECG and therapy cables.

Lead Selection
Leads I, II and III, (3-wire ECG cable)
Leads I, II, III, AVR, AVL, and AVF, V (c) acquired simultaneously, (5-wire ECG cable)

ECG size: 4, 3, 2.5, 2, 1.5, 1, 0.5, 0.25 cm/mV

Heart Rate Display: 20–300 bpm digital display
Out of Range Indication: Display symbol "---" Heart symbol flash for each QRS detection

Continuous Patient Surveillance System (CPSS): In AED mode, while Shock Advisory System™ is not active, CPSS monitors the patient via QUIK-COMBO paddles or Lead II ECG for potentially shockable rhythms.

Voice Prompts: Used for selected warnings and alarms (Configurable On/Off)

Analog ECG Output: 1V/mV x 1.0 gain < 35 ms delay

Common Mode Rejection: 90 db at 50/60 Hz

SpO2

Masimo SET®

Additional configuration available for compatibility with select Nellcor sensors

Saturation Range: 1 to 100%

Saturation Accuracy: 70–100% (0–69% unspecified)

Adults/Pediatrics:
+/- 2 digits (during no motion conditions)
+/- 3 digits (during motion conditions)

Neonates:
+/- 3 digits (during no motion conditions)
+/- 3 digits (during motion conditions)

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Specifications

SpO2 Continued

Dynamic signal strength bar graph

Pulse tone at the onset of the pleth waveform

SpO2 Update Averaging Rate: User selectable 4, 8, 12 or 16 seconds

SpO2 Measurement: Functional Sp02 values are displayed and stored

Pulse Rate Range: 25 to 240 pulses per minute

Pulse Rate Accuracy: (Adults/Pediatrics/Neonates)
+/- 3 digits (during no motion conditions)
+/- 5 digits (during motion conditions)

SpO2 waveform with autogain control

Communications

The device is capable of transferring data records by IrDA.

Data Management

The device captures and stores patient data, events (including waveforms and annotations) and continuous ECG waveform records in internal memory.

The user can select and print reports and transfer the stored information.

Report Types
Two format types of CODE SUMMARY critical event record: (short and medium)
Initial ECG (except short format)
Auto vital sign measurements every 5 minutes
Continuous ECG waveform records (transfer only)

Memory Capacity
Two full capacity patient records that include:
Code Summary critical event record - up to 100 single waveform events
Continuous Waveform - 45 minute continuous ECG record

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