



# LIFEPAK 1000



## SIMPLE, FLEXIBLE AND POWERFUL

Rugged yet easy to use, this powerful AED combines basic guidance with advanced operational control, enabling first responders to deliver fast, appropriate treatment. The LIFEPAK 1000 provides powerful defibrillation, long battery life, and robust durability that can stand up to severe environments.

## READY FOR ALL RESPONDERS

The LIFEPAK 1000 combines the simplicity of one button defibrillation with clear guidance, with the flexibility of manual mode operation when indicated. Options allow

onscreen graphics for first time rescuers or ECG display and access to the manual override with greater control for the more advanced rescuers.

Compatibility with other LIFEPAK devices can speed the transition to the next level of care. And, post-event data can be easily viewed, analysed and managed with CODE-STAT data review software.



# POWERFUL ENOUGH FOR PROFESSIONAL RESPONDERS

## ECG capability

- Its 3-lead ECG function provides critical information to guide your protocol and deliver faster, more appropriate treatment.
- The 1000 also stores this vital data for use in post-event review.

## Advanced CPR features

- cprMAX™ minimizes CPR interruptions by allowing compressions to continue during AED charging
- Adjust settings to match your team's CPR and resuscitation protocols.
- CPR countdown timer provides direction for length of hands on time for each CPR period.

## 360 Joules

- Can escalate energy to an industry leading 360J for difficult to defibrillate patients.

## Easy to use

- Loud voice prompts and on-screen graphics provide guidance on applying electrodes and initiating a shock.
- Large, easy-to-read LCD screen provides more information at a glance.
- Digitally records and displays delivered shocks for added insight.

## Rugged and vehicle-friendly

- Rigorously drop-tested and includes protective case and bumpers for durability in the harshest environments.
- Designed to ride along in vehicle without damage from continuous vibrations and other movement.



# DESIGNED FOR PROFESSIONALS



## **Fully customisable**

Basic rescuer or ECG display and fully manual mode for advanced responders.



## **REDI-PAK electrodes**

Electrodes have an eighteen month shelf life.



## **Metronome and CPR coaching**

Sets an effective pace and audibly guides users in fully and semi automatic modes.



## **cprMAX technology**

Choose CPR settings that are best for your CPR protocol requirements.



## **ClearVoice™ technology**

Detects background noise and adjusts volume for clear instruction.



## **Highest available energy**

200J, 300J, 360J for more effective shocks as needed.



## **LIFEPAK TOUGH™**

IP55 rating for challenging environments.



## **Non-rechargeable battery option**

5 years standby life on a non rechargeable battery



## **Rechargeable battery option**

6 months of power to device before the battery must be charged.



## **5-year warranty**

Backed by an 5-year warranty.

# SPECIFICATIONS

| Physical |   |
|----------|---|
| Height:  | 8.7 cm (3.4 in)   |
| Width:   | 23.4 cm (9.2 in)  |
| Depth:   | 27.7 cm (10.9 in)   |
| Weight:  | 3.2 kg (7.1 lb) with one set of REDI-PAK electrodes and one nonrechargeable battery |

| Defibrillator  |  |
|--|--|
| All specifications are at 20°C (68°F) unless otherwise specified |  |
| Waveform:  | Biphasic truncated exponential with voltage and duration compensation for patient impedance*   |
| Energy sequence:   | User configurable, 150 joules–360 joules. Default energy output settings are 200, 300, 360 joules. 360 joules for every shock thereafter |
| Charge time:   | With new, nonrechargeable battery pack; 200 joules in less than 9 seconds (360 joules in less than 15 seconds)                           |
| 3-Wire (Lead II) monitoring capability:                          | (If ECG display option purchased). Requires purchase of 3-wire (Lead II) monitoring cable and LIFE-PATCH® electrodes                     |
| Device software:   | Field upgradeable  |
| Infant/Child reduced energy defibrillation electrodes:           | Reduces selected energy by a factor of 4. Intended for use only with children up to 8 years of age or 55 lbs (25 kg)                     |
| Safety classification:   | Internally powered equipment IEC 60601-1   |
| Electrical protection:   | Input protected against high voltage defibrillator pulses per IEC 60601-1  |

| Display  |  |
|--|--|
| Backlit LCD displays number of shocks delivered, elapsed time, text and graphics of heart rhythm and optional ECG. |  |
| Size:  | 120mm (4.7 in) x 89 mm (3.5 in)  |
| Frequency response:  | 0.55 Hz to 21 Hz (-3 dB), nominal  |
| ECG option:  | <ul style="list-style-type: none"> <li>Waveform sweep speed – 25 mm/sec for ECG, nominal</li> <li>Waveform viewing time – Minimum 4 seconds</li> <li>Waveform amplitude – 1 cm/mV, nominal</li> <li>Heart rate – 20 to 300 BPM digital display, Display “---” if heart rate is less than 20 bpm. Heart symbol flashes for each QRS detection</li> </ul> <p>ECG information is received from the adult and Infant/Child electrodes in anterior-lateral or anterior-posterior positions. A 3-wire cable can be used for ECG monitoring (Lead II)</p> |

\*Voltage compensation is limited to the voltage that would result in delivery of 360 joules into 50 ohms.

| Settings                    |  |
|-----------------------------|--|
| Modes:                      | <ul style="list-style-type: none"> <li>AED – Provides operating capability for basic users</li> <li>Manual – Provides operating capability for advanced users</li> <li>ECG – Provides ECG display capability with 3-wire ECG cable</li> <li>Setup – Allows user to configure the device</li> <li>Data transfer – Allows user to transfer patient data</li> <li>Auto test – Provides daily automatic tests of hardware and software</li> </ul>  |
| Controls:                   | On/Off, Shock, Menu, Two (2) configurable soft keys  |
| User defined options:       | <ul style="list-style-type: none"> <li>Device ID – Assigns unique identifier to particular device.</li> <li>Energy sequence – User configurable from 150 to 360 joules</li> <li>Flexible energy – Increases only after a lower energy was unsuccessful</li> <li>Auto analyze – User can configure device to auto analyze, auto analyze after first shock, or prompt user to push analyze key before each analysis period</li> <li>CPR time – (Post shock or after no shock advised) User configurable – 15, 30, 45, 60, 90, 120, 180 seconds</li> <li>Device date/time</li> <li>Voice prompt volume – Allows user to change speaker volume.</li> <li>ECG display – (If option purchased) – Turns display on/off for AED mode</li> <li>Motion detection – User defined On/Off (default On)</li> <li>Service alert – Audio alarm if the device needs servicing</li> <li>Configurable on/off</li> <li>Manual access – (If ECG display option purchased) – Devices configured with an ECG display may be set up to allow user to initiate a charge and shock without analysis</li> </ul> |
| cprMAX technology settings: | <ul style="list-style-type: none"> <li>Initial CPR – User defined time for CPR after first analysis regardless of analysis decision. Can be set to OFF, 15, 30, 45, 60, 90, 120 and 180 seconds</li> <li>Pre-shock CPR – Allows for CPR while device is charging. Can be set to OFF, 15, or 30 seconds</li> <li>Stacked shocks – (ON/OFF) When Off, allows for provision of CPR after each shock</li> <li>Pulse check – (Always, After Every NSA, After Second NSA, Never) Allows device to prompt for a pulse check either after each shock, after every NSA pulse check, or never prompt for a pulse check (default Never)</li> </ul>  |

# SPECIFICATIONS CONTINUED

| Environmental  |   |
|--|---|
| One hour operating temperature (from room temperature to temperature extreme, one hour duration): -4 to +140°F (-20 to 60°C) |   |
| Operating temperature:   | 0° to 50°C (32° to 122°F)   |
| Storage temperature:   | -30° to 60°C (-22° to 140°F) with battery and electrodes (maximum exposure limited to 7 days)   |
| Atmospheric pressure:  | 575 hPa to 1060 hPa (4572 to -382 meters; 15,000 to -1253 feet)   |
| Relative humidity:   | 5 to 95% (non-condensing)   |
| Dust/water resistance:   | IP55 with battery and REDI-PAK™ electrodes installed (IEC 60529/EN 60529)   |
| Bump:  | 15 g, 1000 bumps (IEC 600-68-2-29)  |
| Shock:   | 40 g peak, 15-23 ms, 45 Hz cross over frequency   |
| Drop:  | 1 meter drop on each corner, edge and surface (MIL-STD-810F, 516.5, Procedure IV)   |
| Vibration:   | Random vibration test – MIL-STD-810F, Method 514.5, Category 20; Ground vehicle 3.15 g rms 1 hour per axis  |
| EMI:   | <ul style="list-style-type: none"> <li>Radiated – IEC 60601-2-4, IEC60601-1-2, CISPR 11 Class B Group 1</li> <li>Immunity – IEC 60601-2-4, IEC 60601-1-2; IEC 61000-4-2 (Level 4), IEC 61000-4-3, IEC 61000-4-6, IEC 61000-4-8</li> </ul> |

| Event documentation and communication |  |
|---------------------------------------|--|
| Memory capacity:                      | Dual patient storage. Minimum 40 minutes ECG for current patient, summarized data for previous patient   |
| Report types:                         | Continuous ECG, summary (critical resuscitation events and associated waveforms), event log report (report of time stamped entries reflecting operator and device activity), test log report (self test activity report) |
| Capacity:                             | Minimum 100 time stamped event log entries   |
| Data review:                          | CODE-STAT™ 6.1 Medical Informatics System, DT Express™ 2.1 Information Management System or higher   |
| Communications:                       | Infrared wireless transfer to personal computer  |

| Battery and readiness display |   |
|-------------------------------|---|
| Note:                         | See operating instructions for information on battery care  |
| Nonrechargeable battery:      | <ul style="list-style-type: none"> <li>Type – Lithium manganese dioxide (Li/MnO<sub>2</sub>), 12.0 V, 4.5 Ah</li> <li>Capacity – Typically will provide 440 200-joule discharges or 1030 minutes of operating time with a new battery (370 200-joule shocks or 900 minutes of operating time at 0°C (32°F))</li> <li>Weight – 0.45 kg (1.0 lb)</li> <li>Shelf life – (prior to installation) After the battery is stored for 5 years at 68°F to 86°F (20° to 30°C), the device will provide 48 months of standby life</li> <li>Standby life – A new battery provides device power for 5 years</li> <li>Low battery indicator – At least 30 200-joule shocks or 75 minutes of operating time remain when low battery is first indicated</li> </ul> |
| Rechargeable battery:         | <ul style="list-style-type: none"> <li>Type – Lithium-ion, 11.1 V, 4.8 Ah, 53 Wh</li> <li>Capacity – Typically will provide 261 200-joule discharges or 608 minutes of operating time with a new fully-charged battery (247 200-joule shocks or 576 minutes of operating time at 0°C (32°F))</li> <li>Battery charging time – Within 4.5 hours</li> <li>Weight – 0.45 kg (1.0 lb), maximum</li> <li>Standby Life – A new fully-charged battery provides device power for 6 months</li> <li>Low battery indicator – At least 30 200-joule shocks or 75 minutes of operating time remain when low battery is first indicated</li> </ul>   |
| Battery charger:              | <ul style="list-style-type: none"> <li>Supported battery – Lithium-ion rechargeable battery, 11.1 V, 4.8 Ah, 53 Wh</li> <li>Electrical – External power supply: 100-240VAC, 50/60Hz</li> <li>Temperature – Operating: 0°C to 40°C (32°F to 104°F); Storage: -22°F to 158°F (-30°C to 70°C)</li> <li>Charge time – Within 4.5 hours</li> <li>Charge – Constant current/ constant voltage within temperature limits</li> <li>Length – 270 mm</li> <li>Width – 97 mm</li> <li>Height – 92 mm</li> <li>Weight – 0.5 kg</li> </ul>   |

# ACCESSORIES



**LIFEPAK 1000 Battery  
(Non Rechargeable)**



**LIFEPAK 1000 Battery  
(Rechargeable)**



**LIFEPAK 1000  
Battery Charger**



**EDGE System™ Electrodes  
With QUIK-COMBO  
Connector and REDI-PAK®  
Preconnect System**



**LIFE-PATCH®  
ECG Electrodes**



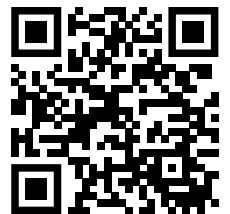
**Infant/Child Reduced Energy  
Defibrillation Electrode  
Starter Kit**



**LIFEPAK ECG Lead**



**LIFEPAK 1000 Carry Bag**



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