

LIFEPAK® 500

automated external defibrillator

PHYSIO
CONTROL

Cost effective

Simple operation

Low maintenance

Portable, lightweight

Rugged, durable

*Powerful, user-friendly
data management*

*Compatible with
Physio-Control
electrodes and data
systems*



The LIFEPAK 500 automated external defibrillator is designed to be used by first responders to cardiac emergencies. This affordable, rugged device is extremely portable at only seven pounds (3.2kg). Low maintenance requirements and intuitive operation make it the ideal product for infrequent AED users.

Features include pre-connected QUIK-COMBO™ electrodes that save valuable time on scene and are compatible with other LIFEPAK defibrillators; simple 3-button operation; clear, concise voice prompting for defibrillation and CPR; LCD for text messages, shock count, and real-time clock. Automatic self-testing saves time and improves testing consistency. Battery options include a rechargeable lead acid battery and a high capacity extended shelf-life lithium battery that requires no recharging and no maintenance.

The 500 utilizes the same field-proven Shock Advisory System™ used in thousands of Physio-Control AEDs over the past ten years. It employs the industry standard Edmark defibrillation waveform at energy levels recommended by the American Heart Association and European Resuscitation Council.

ECG data and on-scene audio (optional) are stored digitally within the device for maximum durability and simplicity. Incident data can be conveniently transmitted from the 500 to medical control via modem. CODE SUMMARY™ reports can be printed directly to a standard printer for rapid access to information. User-friendly PC-based software allows complete, efficient review of both ECG and audio data. 500 data can be stored in a CODE-STAT™ database with other Physio-Control defibrillator and 12-lead data for comprehensive system-wide review and reporting.

SPECIFICATIONS

LIFEPAK 500

automated external defibrillator

DEFIBRILLATOR

Input:	ECG via QUIK-COMBO disposable electrodes. Standard placement (anterior-lateral).
Electrode Cable Length:	1.1m (3.5 ft)
Electrical Protection:	Input protected against high voltage defibrillator pulses per IEC 601. Type BF Input Protection.
Safety Classification:	Internally powered equipment, IEC 601-1, 5.1.
Waveform:	Monophasic pulse (Edmark) per AAMI DF2-1989, 3.2.1.5.1.
Output Energy Sequence:	(200, 200, 360, 360, ...) or (200, 300, 360, 360,...) Joules
Charge Time:	With a new, nonrechargeable battery pak, or a new fully-charged rechargeable battery pak: 200 joules in less than 9 seconds and to 360 joules in less than 15 seconds.
Controls:	
ON/OFF	Turns device power on or off.
ANALYZE	Starts ECG analysis.
SHOCK	Delivers defibrillation energy. Active only when Shock Advisory System advises defibrillation.
Clock Set	Two switches provided to set the clock.
Display:	Two-line, 20-character dot-matrix liquid crystal display.
Low Battery Indicator:	Low Battery Icon: At least 11 discharges remaining with nonrechargeable battery pak. At least 6 discharges remaining with rechargeable battery pak.
Service Indicator:	Service Icon
Displayed Messages:	Messages prompt user through complete operating sequence.
Audible Tones:	Coded tones assist user through device operation and alert operator of display messages.
Voice Prompts:	Prompt user through complete operation sequence: Shock Advised; No Shock Advised; Motion Detected, Stop Motion;

Stand Clear, Push to Shock; Check For Pulse; If No Pulse, Start CPR; If No Pulse, Push Analyze; Push Analyze; Analyzing Now, Stand Clear; Connect Electrodes; Replace Battery.

Vibration: MIL-STD-810E, Method 514.4 Category 10
***Note:** See Operating Instructions for information on caring for batteries.

BATTERIES

Rechargeable Battery Pak Type:	Sealed Lead Acid, 8V, 2.5 amp-hours.
Capacity:	Typical: Fifty-nine (59) full discharges with a fully charged new battery. Minimum: Forty-three (43) full discharges with a fully charged new battery.
Battery Charge Time:	10+/-1 hours. Battery charging limited to 15 to 35°C (+59 to 95°F).
Recommended Replacement Interval:	2 years or 200 battery charge/discharge cycles, whichever comes first, using recommended battery maintenance procedures.
Weight:	0.9kg (1.9 lb)
Nonrechargeable Battery Pak Type:	Sealed lithium, 12V, 7.5 Amp-hours.
Capacity:	Typical: Three hundred twelve (312) full discharges with a new battery. Minimum: Two hundred thirty (230) full discharges with a new battery.
Shelf Life:	5 years
Weight:	0.5kg (1.2 lb)

EVENT DOCUMENTATION

Type:	Internal digital memory
Memory Capacity:	20 minutes audio recording - OPTIONAL. At least 20 minutes ECG and event log of operator/device actions.
Report Types:	CODE SUMMARY report, Event Log report, Test Log report.
Capacity:	300 Event Log events, 30 Test Log device tests (assuming no fault codes).
Playback Device:	IBM-compatible personal computer with sound card (for audio playback) and QUIK-VIEW™ 500 data review software.
Communications:	Serial Port support for: Personal Computer operating Microsoft® Windows™, Hayes AT-compatible modem (at least at 9600 baud), EPSON® ESC/P protocol for printers with 9-pin printheads.

ENVIRONMENTAL

Note:	All performance specifications defined assume that the unit has been stored (two hours minimum) at the operating temperature prior to operation.
Operating Temperature:	0 to +50°C (+32 to +122°F)
Storage Temperature:	-30 to +65°C (-22 to +149°F) without battery and electrodes. -30 to +65°C (-22 to +149°F) with battery and electrodes, maximum exposure time limited to one week.
Atmospheric Pressure:	760mmHg to 429mmHg, 0 to 15,000 ft above sea level.
Relative Humidity:	10 to 95% (non-condensing)
Water Resistance:	IEC 529 IPX4 "Splash proof" with electrodes or connector cover installed.
Shock:	MIL-STD-810E, Method 516.4, Procedure 1, (40g, 6-9ms pulse, 1/2 sine each axis)

GENERAL

Physical Characteristics	
Height:	10.2cm (4.0 in)
Width:	26.7cm (10.5 in)
Depth:	29.5cm (11.6 in) including handle.
Weight:	2.76kg (6.1 lb) without battery or electrodes.

All specifications at 20°C unless otherwise stated.



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