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Physio-Control

LIFEPAK 3™

Portable Battery Operated Defibrillator and

Non-fade

Cardioscope

Manney

ECG SIZE

FREEZE



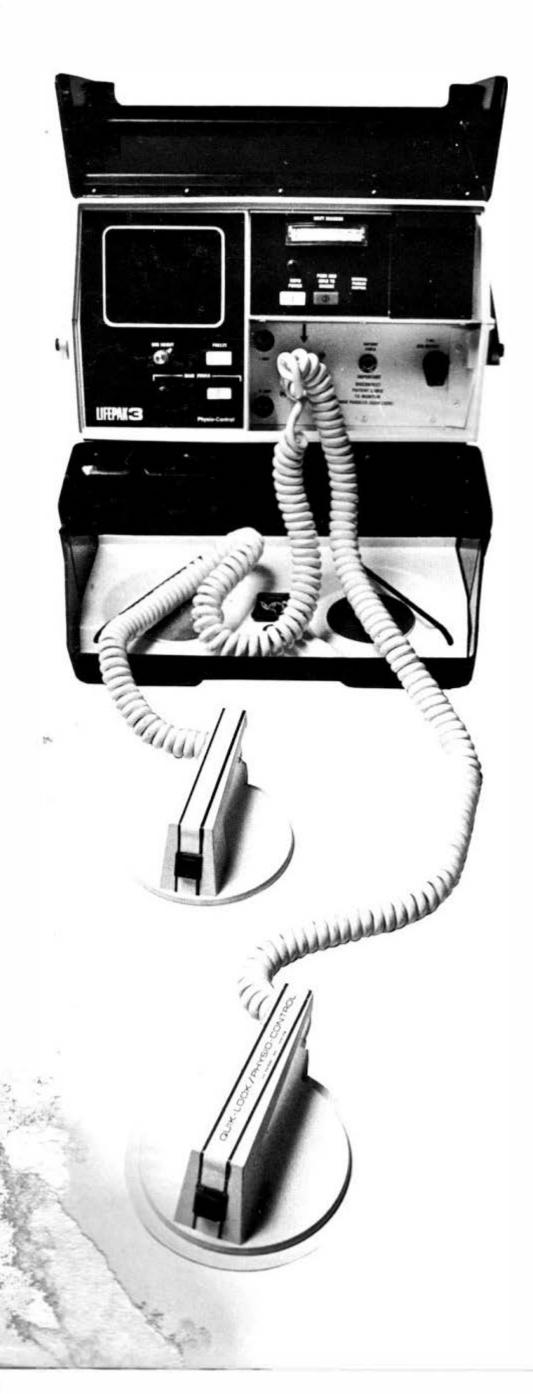
MAIN POWER







Physio-Control



A five inch, non-glare scope and four second solid state computer memory provide the most visible ECG waveform display available. In an emergency, speed and accuracy are essential. When you look at the cardioscope, what do you want to see? A fading image, or a bright, constant ECG display with several complexes visible at one time? You can actually see an ectopic beat and its relationship to the previous and following complexes as clearly as with a graphic writeout. Want a closer look? Hit the freeze button, the trace is held motionless for close evaluation. measure the P-R interval or QRS width, take a picture for permanent record. It's all possible with LIFEPAK 3!" The Quik-Look paddles permit monitoring the patient's ECG with the defibrillator paddles. This patented feature allows quick assessment of the patient's condition during an emergency, A standard 3 lead patient cable may be used for long term monitoring and patient transportation. A built-in synchronizer is included for synchronized cardioversions.

No-compromise, full capability, D. C. Defibrillator

Five millisecond monophasic waveform produces up to 320 watt-seconds delivered energy (equivalent to 400 w.s. stored). Up to one hundred 320 watt-second pulses may be obtained without recharging battery. Continuously adjustable energy output level is displayed on an easy to read watt-second meter. A built-in test circuit provides a quick method for checking the defibrillator output, Quik-Charge ** Paddles, incorporating the defibrillator charge control on one paddle, are optionally available. This feature permits charging the LIFEPAK 3" defibrillator without removing hands from the paddles.

Rugged Construction

Physio-Control has over four years' experience designing and building the LIFE-PAK/33* and more recently the LIFEPAK 2." This experience is built into the LIFEPAK 3." The high impact ABS case is injected molded for its inherent strength. This is further reinforced by a high quality aluminum chassis to provide an instrument that can take the rugged daily use in a mobile intensive care unit or hospital emergency room. Vibration and shock testings are just one way in which we insure that the LIFEPAK 3" meets our high standards

Reliable Power Source

Long-life rechargeable Nickel-Cadmium battery. field proven as a portable Defibrillator power source for more than four years in the LIFE-PAK/33.® Constant power at high or low use rates. Battery level indicator signals low battery. Standard Charge-Pak included. Optional Mobile Charge-Pak is available for recharging the LIFEPAK 3™ battery from vehicle power sources. Both chargers will provide emergency operating power for the LIFEPAK 3."

 Optional ECG Modulator System

Provides for transmission of ECG signals via telephone or radio. The top mounted phone coupler accepts telephone or radio handsets. When outside noise level is high, the radio may be directly connected to the signal output. RF shielding is provided to minimize radio interference when used with portable radio transceivers. The system is compatible with most ECG modulator/demodulator systems now in use.

*Outk-Look, LIFEPAK LIFE-PAK/33 and Physio-Control are registered trademarks of Physio-Control Corporation Outk-Look feature is patented under U.S. Pat. No. 3.547,108. Other patents applied for

Non-Fade Display

- PECG Signal Input:
 Quik-Look® paddles serve
 as both monitoring
 electrodes and defibrillator
 paddles. 3 lead patient
 cable.
- Stores 4 seconds of ECG, displays 3.5 seconds continuous ECG on the large scope.
- 'Freeze' control permits stopping ECG trace for close observation of the ECG complex.
- Sample rate: 250 samples/ second and 8 bit resolution assures accurate ECG presentation.
- Scope Size: 5" crt, 9 cm x
 7.4 cm viewing area.
- On/Off pushbutton power control, green lamp indicates "on."
- Front Cover functions as a scope shield when used in brightly lighted areas.

Amplifier

- Frequency Response: 1 Hz to 60 Hz with 60 Hz notch filter. Exceptionally stable baseline allows monitoring under adverse conditions.
- Differential ECG Amplifier provides interference free traces. Common mode rejection 100 Db or greater.
- ECG Size control.
- Sweep Speed: 25 mm/ second.
- Defibrillator protected ECG output: Nominal 1 millivolt level. (Same as patient input.)

D. C. Defibrillator

- Output continuously adjustable: 320 watt-seconds maximum delivered energy into a 50 ohm load (400 watt-seconds stored energy).
- 5 millisecond monophasic pulse waveform.
- Automatic internal discharge when main power or defibrillator power is turned off.
- Defibrillator output is isolated from ground for maximum safety.
- Single "Push to Charge" control for maximum simplicity and safety.
- Pushbutton discharge controls on both paddles in series to prevent accidental discharge.

- Charge time to 320 wattseconds delivered energy (400 w.s. stored) is less than 10 seconds (8.5 seconds typical). If battery becomes depleted, the LIFEPAK 3™ will operate from the Charge-Pak.
- Defibrillator On/Off pushbutton control, red light indicates "on".
- Test Load built into paddle storage compartment. Lamp will flash when 160 watt-seconds or more are delivered to the 50 ohm load.
- Paddle Storage Cover acts as instrument bail.

Power Source

- High quality rechargeable nickel-cadmium battery.
- Fully charged battery will provide: one hundred— 320 watt-second discharges (400 w.s. stored), OR 8 hours ECG monitoring, OR fifty—320 watt-second discharges and 4 hours ECG monitoring.
- Battery is not adversely affected by frequency of discharges.
- Battery Level Indicator, green "power on" lamp.
- Battery charging indicator, white lamp.

Built-in Synchronizer

- ECG Size control is also synchronizer sensitivity control.
- Synch mode control covered by access door which assures the LIFEPAK 3rd is in the "defibrillate" mode when closed.
- Marker blip occurs on ECG complex where defibrillator discharge occurs.

General

- Weight: 13.6 Kg (30 lb.) (Including paddles).
- Size: 20 cm high x 37 cm wide x 46 cm deep (8" x 14.5" x 18").
- Leakage Current, battery charger plugged into 117 VAC, normal mode: Less than 10 microamperes grounded. Less than 50 microamperes ungrounded. No current leakage when charger is unplugged.
- Temperature Characteristics: Operating: -18° C. to 50° C. (0° F. to 120° F.).
 Storage: -35° C. to 66° C. (-30° F. to 150° F.).
 Humidity: 0% to 100% R.H. noncondensing.

- Altitude Characteristics: Use to 15,000 feet. Store to 25,000 feet.
- Vibration and Shock: Designed to withstand portable use in emergency situations in mobile operations.
- If this equipment is used near flammable anesthestics, unit must be above the 5' level.

Charge-Pak 09-10220

- Recharges LIFEPAK 3™ battery in 16 hours.
- Power input: 115/230 VAC, 20 watts nominal, 175 watts during emergency charge.
- Will recharge battery and operate cardioscope.
- Size: 32 cm long x 13 cm wide x 8 cm high (12.5" x 5.2" x 3").
- Provides emergency operating power for the defibrillator if battery becomes depleted.

Optional Accessories Quik-Charge Paddles 09-10277

- Defibrillator charge control on one paddle.
- Permits charging the LIFEPAK 3TM defibrillator without removing hands from paddles or moving from patient's side.
- Also has our Quik-Look[®] feature for monitoring ECG.

Mobile Charge-Pak 09-10221

- Recharges LIFEPAK 3[™] battery in 16 hours.
- Power Input: 115/230 VAC, 20 watts nominal, 175 watts during emergency charge. 12 VDC, .5 amperes nominal. 15 amperes during emergency charge.
- Will recharge battery and operate cardioscope.
- Size: 32 cm long x 13 cm wide x 7.5 cm high (12.5" x 5.2" x 3").
- Weight: 3.2 Kg (7 lbs.).
- Provides emergency operating power for the defibrillator if battery becomes depleted.

ECG Modulator (factory installed) 09-10286

- Mounted on top cover of LIFEPAK 3."
- Provides FM modulated signal for telephone or radio transmission of ECG.
- Built-in telephone handset audio coupler will also directly couple to radio for ECG transmission.
- Center frequency: 1988 Hz.
- Compatible with Bell Telephone Data Set, may be adjusted for other systems.
- Optional external speaker with 15' extension cord 09-10222.
- Demodulator (receiver) available for receiving station 09-10223.

RFI Shielding (factory installed) 09-10279

 RFI shielding necessary if used near high power mobile radio antenna (typically less than 5 feet).

General Accessories

- 3 Lead Patient Cable (replacement) 09-10091.
- Quik-Look® external paddles (replacement) 09-10118.
- Internal paddle handles and connector 09-10119.
 Internal paddles (pair).
 3.8 cm 09-10047, 6.3 cm
 09-10048, 9.0 cm 09-10049.
- External pediatric paddles 3.8 cm 09-10153.
- Shoulder strap 09-10273.
- Derma Circ[®] disposable electrodes 09-10005.
- Derma Jel® electrode gel 09-10236.
- Operating and service manual 09-10280.

fuses.

LIFEPAK 3, 09-00153 supplied with the following:

Standard Charge-Pak,
external Quik-Look® paddles.
3 lead patient cable.
25 Derma Circ® electrodes,
1 tube Derma Jel,®
2 Instruction Manuals,
1 spare lamp and spare

