There’s no such thing as a typical day.
First on the scene in an emergency, users equipped with a LIFEPAK 1000 defibrillator can make the lifesaving difference for victims of cardiac arrest.
As an upgradeable platform, the LIFEPAK 1000 defibrillator is a powerful and compact device designed to treat cardiac arrest patients and provide continuous cardiac monitoring capabilities. Built-in flexibility allows the 1000 to be programmed for use by first responders or professionals. The 1000 has the features you expect from a LIFEPAK defibrillator, including:

**Flexibility**—With two display options, the 1000 is easy to adjust to your patient care protocols, or make changes as recommended by the American Heart Association.

**Power**—Escalating energy up to 360J provides the options you need for maximum defibrillation success. For patients who need more than one shock, increasing the dose of subsequent shocks has been shown to be a better strategy for terminating shockable heart rhythms.

**Durability**—with IP55—the most rugged rating—the 1000 is the most rugged AED ever built by Physio-Control. You can carry the 1000 with confidence into the harshest of environments. An IP55 rating defines the protection level against solids and liquids. The 1000 is rated as completely protected against dust and spraying non-corrosive liquids such as water and rain.

**Easy to use**—The simple, intuitive user interface and clear, vocal and visual prompts empower trained users to respond quickly with confidence.
Simple to use at a cardiac arrest scene, the LIFEPAK 1000 defibrillator features:

- Loud voice prompts and lighted buttons to guide you.
- Large LCD screen displaying graphics and text for quick reference can be seen from any angle and in bright sunlight.
- Pre-connected electrodes that help speed your response when every second counts. Pediatric therapy can be easily provided using the Infant/Child Reduced Energy Defibrillation Electrodes.
- Compatible with responding advanced life support LIFEPAK devices via the QUIK-COMBO® adult pacing/defibrillation/ECG electrodes.

Device management is easy with automated self-tests, viewable readiness display, and battery gauge on the device and on the battery itself.
Because there’s no such thing as a typical day on duty, we build the LIFEPAK 1000 defibrillator to adapt to your protocols and your patients.

Designed for and tested by emergency professionals, BLS users like the 1000 for its:

• Built-in flexibility to program the unit to your CPR and resuscitation protocols.
• High capacity battery to provide the power for up to 440 shocks or approximately 17 hours of monitoring time.
• Digitally recorded ECG rhythm and delivered shocks, which can be wirelessly transferred via IrDA port to a PC for post-event quality review.*

*Using DT EXPRESS data transfer software and CODE-STAT data review software.

The LIFEPAK 1000 defibrillator has been deployed on the International Space Station (ISS) as the first automated external defibrillator (AED) in space. NASA conducted extensive evaluations the AED, focusing on user interface, ease of use, durability and detailed technical specifications related to the unique conditions encountered in space.

Our cprMAX technology gives you a resuscitation platform that can increase CPR hands-on time and minimize delays between CPR and the defibrillation shock.
Packed with powerful features, the LIFEPAK 1000 defibrillator helps you deliver advanced care when every second counts.

The 1000 makes it easy for basic and advanced care teams to work in sync:

- From the field to the emergency room, the 1000 is compatible with the full suite of lifesaving tools from Physio-Control, including our line of manual defibrillator/monitors.
- With the touch of a button, the 1000 operates in manual override,** so you can decide when to analyze and shock.
- Lead II ECG patient monitoring** on large display via 3-wire cable or pads provides flexibility for ECG-trained users and enables advanced care teams to quickly assess patient rhythm.

**optional feature
Services and Options

Complemented by a rich range of services and options

**Technical Service**
Technical Service Physio-Control proudly takes the lead in offering customers best-in-class global technical support. We have the largest and best-trained network of field technical service representatives in the industry. On call 24 hours a day, 7 days a week, our goal is to return your phone call within two hours, to work with you to quickly assess the problem and find the best solution. Our Redmond, Washington-based technical support center is also available to troubleshoot problems by phone.

**Accessories**
We offer a full catalog of accessories and disposable products to suit your needs.

**Quality Assurance/Quality Improvement Support**
Our data management solutions make it easy to transfer patient information from the 1000 to your PC, consolidate patient data, and analyze outcomes across your system.
### DEFIBRILLATOR

**Modes:**
- AED – Provides operating capability for basic users
- Manual – Provides operating capability for advanced users
- ECG – Provides ECG display capability with 3-wire ECG cable
- Setup – Allows user to configure the device
- Data Transfer – Allows user to transfer patient data
- Auto Test – Provides daily automatic tests of hardware and software

**User Defined Options:**
- Device ID – Assigns unique identifier to particular device
- Energy Sequence – User configurable from 150 to 360 joules
- Flexible Energy – Increases only after a lower energy was unsuccessful
- 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
- CPR Time (post shock or after no shock advised) – User configurable 15, 30, 45, 60, 90, 120, 180 seconds
- Device Date/Time
- Voice Prompt Volume – Allows user to change speaker volume
- ECG Display (if option purchased) – Turns display on/off for AED mode
- Motion Detection – User defined On/Off (default Off)
- Service Alert – Audio alarm if the device needs servicing. Configurable on/off

### DISPLAY

Backlit LCD displays number of shocks delivered, elapsed time, text and graphics of heart rhythm and optional ECG

**Size:** 120 mm (4.7 in) x 89 mm (3.5 in)

**Frequency Response:** 0.55 Hz to 21 Hz (-3 dB), nominal

**Waveform Sweep Speed:** 25 mm/sec for ECG, nominal

**Waveform Viewing Time:** Minimum 4 seconds

**Waveform Amplitude:** 1 cm/mV, nominal

**Heart Rate:** 20 to 360 BPM digital display, Display “---” if heart rate is less than 20 bpm. Heart symbol flashes for each QRS detection.

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).

### ENVIRONMENTAL

**One Hour Operating Temperature:** (from room temperature to temperature extreme, one hour duration) -20 to 60°C (-4 to +140°F)

**Operating Temperature:** 0 to 50°C (32 to 122°F)

**Storage Temperature:** -30 to 60°C (-22 to +144°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 N)

**Vibration:** Random vibration test - MIL-STD-810F, Method 514.5, Category 20; ground vehicle 3.15 g rms 1 hour per axis

**EMI:**
- Radiated - IEC 60601-2-4, IEC60601-1-2, CISPR 11 Class B Group 1
- Immunity - IEC 60601-2-4, IEC 60601-1-2, IEC 61000-4-2 (Level 4), IEC 61000-4-3, IEC 61000-4-8, IEC 61000-4-8

### PHYSICAL CHARACTERISTICS

**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 lbs) with one set of REDI-PAK™ electrodes and one nonrechargeable battery
LIFEPAK® Defibrillators/Monitors

LIFEPAK 15 Monitor/Defibrillator

The LIFEPAK 15 monitor/defibrillator is the new standard in emergency care for ALS teams who want the most clinically innovative, operationally innovative and LIFEPAK TOUGH™ device available today. The 15 integrates Masimo Rainbow SET® technology that monitors SpO², Carbon Monoxide and Methemoglobin, includes a metronome to guide CPR compressions and ventilations and provides an option to escalate energy to 360J. An entirely new platform, the 15 is powered by Lithium-ion battery technology, incorporates the SunVue™ display screen for viewability in bright sunlight, and data connectivity to easily and securely collect and send patient information. Similar form factor and user interface with the LIFEPAK 12 defibrillator/monitor will ease transition and training costs.

LIFEPAK 12 Defibrillator/Monitor

Over 80,000 LIFEPAK 12 defibrillator/monitors are in use today—on rescue rigs and in hospitals worldwide. Feedback from this global community keeps us innovating—adding features to help you in your lifesaving work. The LIFEPAK 12 defibrillator/monitor packs multi-parameter therapeutic and diagnostic functions into a rugged, portable device. Use a tool that can tackle today’s patient care needs and adapt to tomorrow’s challenges.

As your trusted partner in saving lives, we offer a full suite of solutions from field to hospital, whether your need is emergency response or quality control analysis.
LIFEPAK 20e Defibrillator/Monitor
Building on the design of its predecessor, the LIFEPAK 20e defibrillator/monitor is compact, lightweight and easy to rush to the scene or use during transport. The 20e is highly intuitive to use, putting early, effective defibrillation into the hands of first responders. The 20e skillfully combines AED function with manual capability so that ACLS-trained clinicians can quickly and easily deliver advanced diagnostic and therapeutic care. Clinically advanced and packed with power, the 20e uses Lithium-ion battery technology that provides extended operating time for transporting patients from one area of the hospital to another and includes ADAPTIV™ biphasic technology up to 360 joules.

LIFEPAK CR® Plus Automated External Defibrillator
Designed for minimally trained rescuers in commercial and public settings, the CR Plus guides the rescuer step by step with calm, clear voice prompts. Simple to use, it is built with the same advanced defibrillation technology used by EMS and hospital personnel.

CPR Assistance

LUCAS® Chest Compression System
The LUCAS Chest Compression System gives you the opportunity to improve a cardiac arrest victim’s chance for a successful outcome and improve your system’s operations. LUCAS is an automated device designed to deliver uninterrupted chest compressions to facilitate delivery of vital oxygen to the brain and prime the heart for a successful shock. Easy to carry and handle, LUCAS sets up quickly to minimize interruptions to CPR, and works tirelessly to deliver efficient compressions in accordance with AHA guidelines, freeing up responders for critical tasks. Available in both an air-powered and the all-new battery-powered version.

LIFENET® System

LIFENET System
The LIFENET System provides EMS and hospital care teams with reliable, quick access to clinical information helping to improve patient care flow and operational efficiency. The LIFENET System provides customers with a reliable and secure web-based platform linking care teams with critical information for emergent patient data and post-event review. From providing an advanced alert of an incoming patient, to reviewing post event data, to tracking assets, the LIFENET System is the most comprehensive system on the market today.

LUCAS is manufactured by Jolife AB in Sweden and distributed worldwide by Physio-Control, Inc.
For more than 50 years, Physio-Control, maker of the renowned LIFEPAK defibrillators, has been developing technologies and designing devices that are legendary among first response professionals, clinical care providers and the community.

REFERENCES


For further information please contact your local Physio-Control representative or visit www.physio-control.com