

Lifeline **PRO** & Lifeline **ECG**

AEDs with Features Healthcare Professionals Demand

Defibtech offers value-oriented automated external defibrillators (AEDs) sophisticated enough to meet the needs of the most demanding professional rescuers and health care providers. Defibtech's Lifeline ECG or Lifeline PRO AEDs may be used for professional organizations who also incorporate a public access response element. When a professional responder arrives on the scene, the touch of a button can change the unit's operating mode from AED to ECG Monitor in real-time. Now 3-lead ECG monitoring is possible. The Lifeline PRO unit has a third operating mode: Manual Override for total control of shock energy and delivery.

Such flexibility makes these AEDs well suited for a wide variety of professional applications within Emergency Medical Services and Healthcare Facility environments. Depending on where they will be deployed, units can be configured into a chosen mode with Defibtech rechargeable or non-rechargeable batteries. When the AEDs are used for public access, the non-rechargeable battery, with its stand-by life of 4 years, is best. In locations where AED programs support dedicated personnel and maintenance protocols such as EMS, intra-hospital transport, and crash carts, it may be more appropriate to use the rechargeable battery pack.



In addition to being easy to use for public access in AED mode, Defibtech's Lifeline ECG and Lifeline PRO more reasonably and economically augment the number of defibrillators that need to be kept on hand for use by basic and advanced life support (BLS/ALS) personnel and code team members.

Defibtech Lifeline PRO and Lifeline ECG are multi-mode AEDs for professionals and share these powerful features:



- AED mode with full color interactive video display
- ECG monitor mode with optional ECG Monitoring Adapter provides 3-Lead ECG
- Full manual capabilities on the Lifeline PRO unit provide control over shock energy and shock delivery
- Real-Time Protocol Selection enables you to switch between rescue protocols on demand
- One-Touch Status Screen gives you up to the minute information regarding the device and its components
- <3 lbs., IP55, daily and automatic self-tests, field upgradable on-site when CPR guidelines change

Lifeline PRO & Lifeline ECG AEDs with ECG Mode and Manual Override

TECHNICAL SPECIFICATIONS†

OPERATING MODES

AED MODE: High resolution video display (animated instructions and CPR coaching)

ECG MONITOR MODE: Displays ECG data and event information (with 3-lead electrodes)

MANUAL MODE*: Displays ECG data and event information and defibrillation energy selection from 25-200 Joules with charge, shock and disarm control

* Lifeline PRO model only

DEFIBRILLATOR

TYPE

Semi-automatic external defibrillator

MODEL

DDU-2400 (Lifeline PRO)
DDU-2450 (Lifeline ECG)

WAVEFORM

Impedance Compensated Biphasic
Truncated Exponential

ENERGY*

AED Mode:

Adult: 150 Joules
Child / Infant: 50 Joules

Manual Mode:**

Adult: User selectable
from 25-200 Joules
Child/Infant: 50 Joules

CHARGE TIME

AED Mode:

4 seconds or less
(from shock advised)***

Manual Mode:**

9 seconds or less
(150 Joules)****
12 seconds or less
(200 Joules)****

CONTROLS

Lighted On/Off button
Lighted Shock button

DISPLAY

High-resolution color LCD

VIDEO PROMPTS

Full motion video
On-screen text prompts

CPR COACHING

Video and voice coaching
On-demand video help

VOICE PROMPTS

Extensive voice prompts guide
user through operation of the unit

RESCUE PROTOCOL

AHA/ERC (default);
supports protocol updates by the
user (password protected)

* Nominal into 50 ohm load

** Lifeline PRO model only

***Typical, with new battery, at 25°C

****Typical, with new battery depleted
by 6 shocks, at 25°C

PATIENT ANALYSIS SYSTEM

PATIENT ANALYSIS

Automatically evaluates patient
impedance for proper pad contact.
Monitors signal quality and analyzes
patient ECG for shockable/
non-shockable rhythms.

SENSITIVITY/SPECIFICITY

Meets or exceeds
IEC-60601-2-4 requirements;
meets AAMI DF80 requirements
and AHA recommendations

EVENT DOCUMENTATION

INTERNAL EVENT RECORD

Critical ECG segments and rescue
event parameters are recorded
(greater than 60 minutes) and can be
downloaded to a removable data card

PC-BASED EVENT REVIEW

ECG with event tag display, and audio
playback when available

REMOVABLE STORAGE

(optional) Up to 30 hours of ECG and
event data storage (no audio option)
or up to 3 hours of audio (audio
option). ECG and event storage on a
removable data card. Actual length of
storage is dependent on card capacity.

USB PORT

Event download and maintenance
operations

PHYSICAL

SIZE

7.3 x 9.5 x 2.3 inches
(18.5 x 24 x 5.8 cm)

WEIGHT (with battery)

Less than 3 lbs (1.4 kg)



SELF TESTS

AUTOMATIC

Automatic daily, weekly, monthly and
quarterly circuitry tests

BATTERY INSERTION

System integrity test on
battery insertion

PAD PRESENCE

Pads preconnected tested daily

USER-INITIATED

Unit and battery pack system test
initiated by the user

STATUS INDICATION

Visual & audible indication of unit status

STATUS SCREEN

Unit self-test results
Pads and battery information
(status and expiration)

DEFIBRILLATION / MONITORING PADS

MODEL

Adult: DDP-2001
Child / Infant: DDP-2002

SURFACE AREA*

Adult: 12 inches² (77 cm²)
Child / Infant: 7.75 inches² (50 cm²)

TYPE

Pre-connected, single-use,
non-polarized, disposable,
self-adhesive electrodes with
cable and connector

*Nominal, each pad

BATTERY PACKS

NON-RECHARGEABLE

MODEL

DBP-2003, DBP-2013 (aviation)

POWER

12V, 2800 mAh

TYPE

Lithium/Manganese Dioxide
Disposable, recyclable
Non-rechargeable

CAPACITY*

125 shocks or 8 hours
continuous operation

STANDBY LIFE*

4 years

LOW BATTERY INDICATORS

Visible & Audible

RECHARGEABLE

MODEL

DBP-2009

POWER

11.1 VDC, 2.0 Ah, 22.2 Wh

TYPE

Lithium Ion (Li-ON)
Recyclable, Rechargeable

CAPACITY*

12 hours of operation in ECG
monitoring mode or min. 250 shocks

STANDBY LIFE*

3 months

LOW BATTERY INDICATORS

Visible & Audible

CHARGING TIME*

Less than 3 hours

USEFUL LIFE

Replacement recommended every 3
years (~300 charge/discharge cycles)

*Typical, with new battery, at 25°C

ENVIRONMENTAL

TEMPERATURE

Operating: 0 to 50°C (32 to 122°F)

One Hour Operating Temperature Limit
(extreme cold): -20°C (-4°F)*

Standby: 0 to 50°C (32 to 122°F)

RELATIVE HUMIDITY

Operating / Standby: 5%-95%
(non-condensing)

ALTITUDE

-500 to 15,000 ft (-150 to 4500 m) per
MIL-STD-810F 500.4 Procedure II

VIBRATION

Ground (MIL-STD-810F 514.5
Category 20)

Helicopter (RTCA/DO-160D,
Section 8.8.2, Cat R, Zone 2,
Curve G)

Jet Aircraft (RTCA/DO-160D
Section 8, Cat H, Zone 2,
Curves B & R)

SHOCK / DROP ABUSE TOLERANCE

MIL-STD-810F 516.5 Procedure IV
48 inches (1.2 meters), any edge,
corner, or surface, in standby mode

SEALING / WATER RESISTANCE

IEC 60529 class IP55;
Dust Protected, Protected against
water jets (Battery pack installed)

ESD

IEC 60601-4-2: (Open air up to
15kV or direct contact up to 8kV)

EMC (Emission)

CISPR 11 Group 1 Level B and
FCC Part 15

EMC (Immunity)

IEC 61000-4-3 and IEC 61000-4-8

*From room temperature to temperature
extreme, one hour duration, updated
specification for DDU-2000 Series AEDs
running software revision 2.4 or above



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ELECTRONIC DISTRIBUTION

DAC-E2759EN-BC