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
**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

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**DEFIBRILLATOR**

**TYPE**  
Semi-Automatic external defibrillator

**MODEL**  
DDU-2450 (LifeLine ECG)  
DDU-2450 (LifeLine PRO)

**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: User selectable from 25-100 Joules (50 Joules only when using DDP-2002 attenuating defibrillation pads)

**CHARGE TIME**  
AED Mode:  
4 seconds or less  
(From shock advised)***  
9 seconds or less  
(150 Joules)****  
12 seconds or less  
(200 Joules)****

**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 AAMI-DF-80 specifications and AHA recommendations

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**BATTERY PACKS**

**NOM-RECHARGEABLE**

**POWER**  
12V, 2800 mAh

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

**NON-RECHARGEABLE**

**POWER**  
11.1 VDC, 2.0 Ah, 22.2 Wh

**TYPE**  
Lithium Ion (Li-ON)  
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

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**DEFIBRILLATION / MONITORING PADS**

**MODEL**  
DDP-2001  

**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

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

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**ENVIRONMENTAL**

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

**RELAHTE 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)

**SHOCK / DROP ABUSE TOLERANCE**  
MIL-STD-810F 516.5 Procedure IV  
48 inches (1.2 meters), any edge, corner, or surface, in standby mode

**CRUSH TEST**  
1,000 pounds (450 kg)

**SEALING / WATER RESISTANCE**  
IEC60529 class IP65; 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

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**SPECIFICATIONS**

- High resolution video display (animated instructions and CPR coaching)
- Displays ECG data and event information (with 3-lead electrodes)
- Impedance Compensated Biphasic Truncated Exponential
- AED Mode: 150 Joules
- Child / Infant: 50 Joules
- Operating modes: 9 seconds or less (Manual Mode)
- Charge time: 4 seconds or less (Manual Mode)
- Event documentation: Critical ECG segments and rescue event parameters are recorded.
- Monitoring mode: Video and voice coaching
- Battery packs: Non-rechargeable (12V, 2800 mAh)
- Rechargeable (11.1 VDC, 2.0 Ah, 22.2 Wh)
- Temperature: Operating: 0 to 50°C (32 to 122°F)
- Humidity: Operating / Standby: 5%-95% (non-condensing)
- Shock / Drop Abuse Tolerance: MIL-STD-810F 516.5 Procedure IV
- Crush Test: 1,000 pounds (450 kg)
- Sealing / Water Resistance: IEC60529 class IP65
- 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