

## Life-saving design

At Defibtech, we've designed our line of AEDs to offer industry-leading innovation, simplicity and elegance. They're sophisticated enough to meet the needs of the most demanding first responders. Yet they're also incredibly easy to use — so even untrained individuals can quickly and effectively save lives. Our AEDs feature:

**Brilliant Design.** With bright yellow-and-black coloring and attractive, sleek curves, our AEDs invite prominent display and aren't intimidating to users.

**Latest Technology.** Our AEDs use biphasic defibrillation, which is extremely effective at resuscitating patients in ventricular fibrillation, the most common form of Sudden Cardiac Arrest, on the first shock. Our units also feature cutting-edge display monitors and step-by-step audio instructions—which make it easier than ever to use the device in an emergency.

**Light Weight and Durable.** Even a child could carry our AEDs, which weigh less than three pounds. Plus, our devices are tested to U.S. Military "drop and shock" specifications.

## The Defibtech philosophy

In designing and producing our unique line of AEDs, Defibtech relies on these distinct, yet complementary, capabilities:

**Superior Value.** Defibtech delivers AEDs with professional specifications at consumer prices.

**Technical Innovation.** Our team of engineers includes some of the most intelligent and experienced in the industry. As individuals and as a team, our engineers are committed to continually innovating — and raising the bar for the AED marketplace.

**Design for the Real World.** Defibtech designs and produces features and functions that are truly useful and usable.

**Customer Commitment.** The company is committed to enabling users to save lives through products that are powerful yet simple and easy to use.

## Learn more

Defibtech AEDs are sold exclusively through Ortus Technologies in the United Kingdom. To learn more, visit [www.theortusgroup.com](http://www.theortusgroup.com) or contact us at [hello@ortus.co.uk](mailto:hello@ortus.co.uk).

# Lifeline PRO Semi-Automatic Defibrillator with 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

### DEFIBRILLATOR

**TYPE**  
Semi-automatic external defibrillator

**MODEL**  
DDU-2400

**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 colour 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  
\*\* 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 analyses 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**  
18.5 x 24 x 5.8 cm  
(7.3 x 9.5 x 2.3 inches)

**WEIGHT (with battery)**  
Less than (1.4 kg) 3 lbs



†Specifications subject to change without notice



Ortus Technology Ltd | Ortus House, Dinnington, Sheffield, S25 3NQ, UK  
www.theortusgroup.com | +44 (0)845 4594705

ELECTRONIC DISTRIBUTION

MKT-GD108-113

THIS DOCUMENT IS FOR DISTRIBUTION IN THE UNITED KINGDOM ONLY

### 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: 77 cm<sup>2</sup> (12 inches<sup>2</sup>)  
Child / Infant: 50 cm<sup>2</sup> (7.75 inches<sup>2</sup>)

**TYPE**  
Pre-connected, single-use, non-polarised, 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

\*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

THE ART AND SCIENCE OF DEFIBRILLATION™

# Lifeline PRO



## Introducing Lifeline PRO


Advanced technology • Professional capabilities  
Award-winning design • Robust and durable • Fully featured  
Easy-to-use and maintain • Fully configurable

 **ORTUS**  
TECHNOLOGIES


# Introducing Lifeline PRO

Meet the AED that's taking easy-to-use to a whole new level. The Lifeline VIEW family of defibrillators are the first and only AEDs with video in full-motion colour. The Lifeline PRO offers professional responders full manual capabilities. With award-winning design, durability, and easy maintenance — backed by the Defibtech commitment to innovation and excellence — we can guarantee you've never seen an AED like this before.


## Video

 They say a picture is worth a thousand words; now multiply that with the power of video. The Lifeline PRO has a large, full-colour interactive display that gives you a fully manual mode that displays the ECG and allows full control of shock energy and delivery or an AED mode that gives step-by-step instructions for performing CPR, rescue breathing and external defibrillation.

## Showing How to Save Lives and Giving You the Confidence to Do It


 Saving lives, while rewarding, can be stressful. Even if you are trained, in an emergency situation, will you remember what to do and how to do it? The Lifeline PRO, in AED mode, has videos that show you how to perform a specific part of a rescue, or can display the ECG.

## A Personal Coach at Your Side

 While you are in the middle of the rescue, you may not remember how many compressions to provide and the timing between each one. The Lifeline PRO has a built-in metronome that counts out the beat so you know what to do and when to do it.




## Real Time Protocol Selection


 Not all rescuers are the same. Some people do compression-only CPR. Others may be trained to do both compression and rescue breathing. Real Time Protocol Selection allows you to switch over from one to both without skipping a beat, giving you the comfort and confidence to deliver emergency care your way.

# Is Your Device Ready for Rescue?


## The One Touch Status Screen Lets You Know

 When sudden cardiac arrest strikes, there is no time to lose. You need to be sure that your AED is ready for rescue. Most other AEDs only signal when there's a problem. The Lifeline PRO's one touch status screen gives you everything you need to know that the unit is up to date and in working order — without turning it on.


## Ruggedness and Durability

 The PRO's ruggedness is measured by a specific set of criteria. It is one tough little unit, coming out on top in some of the most demanding environmental tests.

## Manual Override for Professional Use


 The Lifeline PRO allows the professional responder full manual control over shock energy and shock delivery. The ECG is clearly displayed on a large, brightly lit, high-resolution colour display.

## Award-Winning Ergonomic Design


 Compact, portable and lightweight — under 1.4kg — the Lifeline PRO represents the newest generation in a family of defibrillators that have won a number of industry awards for design and innovation.




## Easy to Maintain

 One of the major problems with most AEDs is maintenance. Not with the Lifeline PRO. The status screen gives you up to the minute information on maintenance if it's required. In addition, built-in video help gives you easy, step-by-step guidance on maintenance that supplements the user manual. Proactive reporting monitors the status of the device and its components.


## Easy to Upgrade

 As protocols change over time, your unit can be upgraded in the field through a USB cable or a data card.


## Easy to Record and Transfer Data

 Data from the unit can be recorded or retrieved from the device using a card or USB cable.

## Safe and Effective Life-Saving Technology

 The Lifeline PRO uses biphasic technology, a clinically proven waveform and algorithm to deliver shocks and save lives. This is one of the most widely used impedance compensated waveforms which has extensive clinical experience and success in thousands of defibrillators around the world. Evaluation in hundreds of publications has demonstrated this technology to be the safest and most effective when it comes to saving lives.

## Corporate Focus and Commitment — The Defibtech Tradition of Excellence Continues

 With more than a quarter of a million units shipped worldwide, Defibtech has drawn accolades for its commitment to save lives by producing the best AEDs medical technology can offer. Defibtech is an industry leader with sound technology and sound finances that constantly drive research and innovation to the next level of excellence.