

# LIFE LINE

Life-Saving Technology Within Reach



## **LIFELINE AED Semi-automatic Defibrillator**

Defibtech has designed a revolutionary new semi-automatic external defibrillator, from the ground up.

Technologically advanced enough to include all mission critical features necessary to provide the most advanced treatment for Sudden Cardiac Arrest. Yet so simple and unintimidating to use that even non-medical personnel can effectively save lives.

The Lifeline AED was developed by experienced multidisciplinary engineering teams and incorporates state-of-the-art digital signal processing techniques and advanced ECG analysis algorithms.

This enables the device to exceed the American Heart Association performance recommendations, giving the user confidence the correct therapy is being delivered.

The Lifeline AED defibrillator uses advanced biphasic technology — including the most studied biphasic shock waveform — and automatically adjusts the shock delivery to the person's individual needs.

For first response professionals like police, fire and EMS, the Lifeline AED is standard equipment. For schools, offices, stores, malls, factories, and public places, it's becoming as vital as the fire extinguisher.



**defibtech**

Defibtech, LLC • Guilford, CT 06437 1-203-453-4507  
1-866-DEFIB-4-U (1-866-333-4248) • [www.defibtech.com](http://www.defibtech.com)

# LIFELINE AED Semi-automatic Defibrillator

## Technical Specifications\*

### Defibrillator

#### TYPE

Semi-automatic external defibrillator

#### MODELS

DDU-100A, DDU-100E

#### WAVEFORM

Biphasic Truncated Exponential (Impedance compensated)

#### ENERGY

150-Joules (nominal into 50 ohm load)

#### CHARGE TIME (new, at 25° C)

Less than 6 seconds  
(DBP-2800 battery pack)  
Less than 9 seconds  
(DBP-1400 battery pack)

#### VOICE PROMPTS

Extensive voice prompts guide user through operation of the unit

#### CONTROLS

- Lighted On/Off button
- Lighted Shock button

#### INDICATORS

- “check pads”
- “do not touch patient”
- “analyzing”
- AED status LED

### Defibrillation/Monitoring Pads

#### MODEL

Adult – DDP-100  
Child/Infant – DDP-200P

#### TYPE

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

#### SURFACE AREA

103 cm<sup>2</sup> (nominal, each pad)  
50 cm<sup>2</sup> (nominal, each pad)

#### PAD PLACEMENT

Adult – Anterior/Anterior  
Child/Infant – Anterior/Posterior

**CABLE LENGTH** (typical)  
48 in (122 cm)

### Event Documentation

#### INTERNAL EVENT RECORD

Critical ECG segments and rescue event parameters are recorded 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 12 hours of ECG and event data storage (no audio option) or up to 1:40 of audio, ECG and event storage (audio option) on a removable data card. Actual length of storage is dependent on card capacity

### 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-39 specifications and AHA recommendations

### Battery Pack

#### MODEL DBP-2800

#### POWER

15V, 2800 mAh

#### CAPACITY (new, at 25° C)

– 300 shocks or 16 hours continuous operation

#### STANDBY-LIFE (typical)

– 7 years

#### MODEL DBP-1400

#### POWER

15V, 1400 mAh

#### CAPACITY (new, at 25° C)

– 125 shocks or 8 hours continuous operation

#### STANDBY-LIFE (typical)

– 5 years

#### TYPE

- Lithium/Manganese Dioxide
- Disposable, recyclable, non rechargeable

#### LOW BATTERY INDICATORS

- Visible
- Audible

### Self Tests

#### AUTOMATIC

Automatic daily, weekly and monthly circuitry tests

#### BATTERY INSERTION

System integrity test on battery insertion

#### PAD PRESENCE

Pads preconnected tested daily

#### USER-INITIATED

Unit and battery pack system test may also be initiated by the user

#### STATUS INDICATION

Visual and audible indication of unit status

### Environmental

#### TEMPERATURE

Operating:  
0 to 50°C (32 to 122°F)  
Standby (with battery installed):  
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 (1 meter, any edge, corner, or surface, in standby mode)

#### SEALING / WATER RESISTANCE

IEC60529 class IP54; Splash Proof, Dust Protected (Battery Pack installed)

#### ESD

EN 61000-4-2:2001, (open air up to 8kV or direct contact up to 6kV)

#### EMC (Emission)

EN 60601-1-2:1998 +A1:2002, limits  
EN 55011:1998 +A1:1999 +A2:2002  
Group 1 Level B, method

#### EMC (Immunity)

EN 60601-2-4:2003, limits  
EN 61000-4-3:2002  
Level 3 (10V/m), method

### Physical

#### SIZE

8.5 x 11.8 x 2.7 inches  
(22 x 30 x 7 cm)

#### WEIGHT (Approximate)

With DBP-1400: 4.2 lbs (1.9 kg)  
With DBP-2800: 4.4 lbs (2.0 kg)

\*Specifications subject to change without notice



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DAC-700-AB rev A



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Life-Saving Technology Within Reach



## **LIFELINE AED® Semi-automatic Defibrillator**

■ Technologically advanced enough to include all mission critical features necessary to provide the most advanced treatment for Sudden Cardiac Arrest. Yet so simple and unintimidating to use that even non-medical personnel can effectively save lives.

■ For first response professionals like police, fire and EMS, the Lifeline AED (Automated External Defibrillator) is standard equipment. For schools, offices, stores, malls, factories, and public places, it's becoming as vital as the fire extinguisher.

**LIFE  LINE**

**Defibtech's breakthrough design makes it possible for every budget to afford a life-saving AED**



### **Brilliant Design**

With its bright yellow and black coloring and attractive, sleek curves, the non-intimidating Lifeline AED invites prominent display anywhere.

### **Latest Technology**

The biphasic defibrillation we use is extremely effective at resuscitating patients in ventricular fibrillation - the most common form of Sudden Cardiac Arrest - on the first shock.

### **Easy to Use**

The Lifeline AED is designed for speed and simplicity. Built to the demanding standards of professional emergency personnel. Simple enough for non-medical users.

### **Lightweight, Durable**

At just 4.2 pounds a child could carry it. Plus, the Lifeline AED is tested to US Military "drop and shock" specifications.

### **Handle This**

Roomy, sure-grip rubberized handle makes it simple to pull off the wall and carry quickly to the patient.



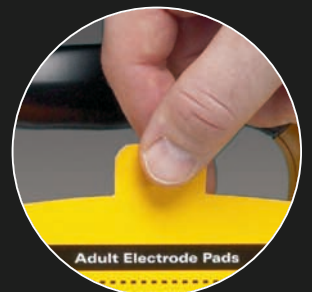
### **Text, Lights and Voice Guides**

A calm voice guides the responder step by step while a text display with lights shows the progress.



### **Pads at the Ready**

The electrode pads are tucked into a back pocket ready to apply.



### **Big Buttons**

The "Power On" and "Shock" buttons are oversized and brightly lit so even the most nervous fingers will hit their mark.

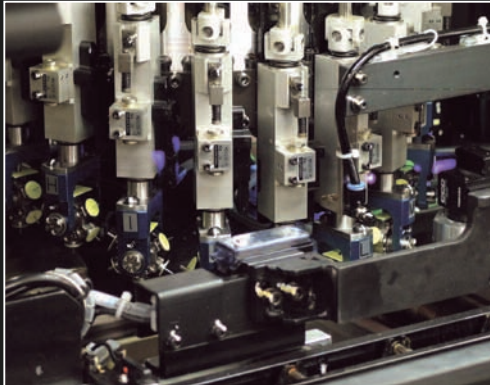
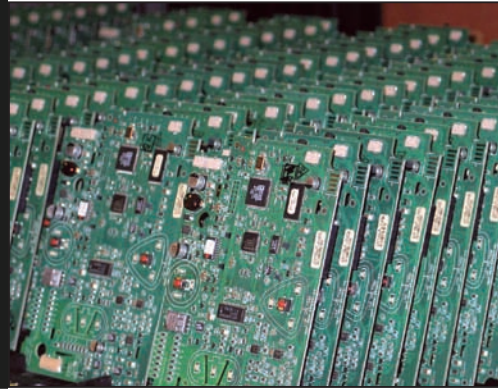




# World-class design, manufacturing and testing allows Defibtech to offer a revolutionary AED at a revolutionary price

## State-of-the-Art Product Design

Using state-of-the-art engineering techniques and computer automated design (CAD) tools, Defibtech engineers put best-in-class features on a unit that can be mass produced without compromising quality or reliability.



## Fully Automated Circuit Board Construction

The Defibtech Lifeline is manufactured using the most modern automated production and testing equipment available. This ensures that the devices are produced exactly the same way every time, reducing production time and unit cost, while simultaneously increasing quality and reliability.

## Comprehensive Quality Testing

Before the Lifeline even reaches final inspection, it has already been optically inspected by a computer vision system and tested by an automated ICT system that checks thousands of electrical parameters. Each and every Lifeline AED is individually tested and inspected by a trained Defibtech technician before shipment.



## Ready for Delivery - Ready for Rescue

Defibtech delivers the most cost-effective AED on the market at the highest levels of quality and reliability. Our customers receive a world-class product without having to wait for their life-saving AED to arrive due to production backlogs or manufacturing delays.

# Be a Hero, Save a Life...

## with the Defibtech Lifeline AED

### Sudden Cardiac Arrest is a Serial Killer...



■ In the United States alone, Sudden Cardiac Arrest (SCA) kills over 400,000 of our family members, co-workers, friends and neighbors each year.

■ Each year, more people are killed by Sudden Cardiac Arrest than by car wrecks, cancer, handguns, house fires, and AIDS combined.

### ...but it can be treated

■ Unlike other health problems of this magnitude, however, sudden cardiac arrest is treatable. The only cure for most cases of Sudden Cardiac Arrest is immediate shock therapy from an AED, a device that shocks a lifeless heart back to a normal rhythm.

**To learn more about the Defibtech  
Lifeline AED, contact us at:**

#### **Defibtech, LLC**

741 Boston Post Road

Guilford, CT 06437

Phone: 866-DEFIB-4-U (866-333-4248)

Outside North America: 203-453-4507

Fax: 203-453-6657

Email: [sales@defibtech.com](mailto:sales@defibtech.com)

[www.defibtech.com](http://www.defibtech.com)

### Anyone, Anytime, Anywhere...



**defibtech**

Life-Saving Technology Within Reach

# Lifeline VIEW



## Lifeline VIEW Semi-Automatic Defibrillator

FULL-COLOR VIDEO INSTRUCTION DELIVERS BREAKTHROUGH EASE-OF-USE

The Lifeline VIEW makes it easy for anyone — from first responders to untrained bystanders — to respond confidently and appropriately during an emergency. This revolutionary life-saving device combines a sleek, user-friendly design with military-grade specifications—including the most proven biphasic waveform. It's also the first and only AED with a full-color interactive display that shows step-by-step videos for performing CPR, rescue breathing and external defibrillation.

You can also be confident that the device will be easy to maintain and ready for rescue. The Lifeline VIEW provides clear guidance for using and maintaining the device. Additionally, it has been designed to support upgrades and enhancements.

Like the original award-winning Defibtech AED, the Lifeline VIEW includes all the mission-critical features necessary to provide the most advanced cardiac treatment and exceeds the American Heart Association performance recommendations.

# Lifeline VIEW Semi-Automatic Defibrillator

## TECHNICAL SPECIFICATIONS\*

### DEFIBRILLATOR

#### TYPE

Semi-Automatic external defibrillator

#### MODEL

DDU-2300 series

#### WAVEFORM

Biphasic Truncated Exponential  
(Impedance compensated)

#### ENERGY

Adult: 150 Joules  
Child / Infant: 50 Joules  
(Nominal into 50 Ohm load)

#### CONTROLS

Lighted On/Off button  
Lighted Shock button

#### CHARGE TIME\*\*

Less than 4 seconds  
(shock decision to shock)

#### 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 2010  
Supports protocol updates by  
the user (password protected)

\*\*Typical, with new battery 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 AAMI-DF-80 specifications  
and AHA recommendations

### BATTERY PACK

#### MODEL

DBP-2003

#### 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

### SELF TESTS

#### AUTOMATIC

Automatic daily, weekly and  
monthly 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 and 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

#### TYPE

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

#### SURFACE AREA

77 cm<sup>2</sup> (nominal, each pad)  
50 cm<sup>2</sup> (nominal, each pad)

### 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

### ENVIRONMENTAL

#### TEMPERATURE

Operating: 0 to 50°C (32 to 122°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

#### CRUSH TEST

1,000 pounds (450 kg)

#### SEALING / WATER RESISTANCE

IEC60529 class IP55; Protected  
against dust and waterjets  
(battery pack installed)

#### ESD

EN61000-4-2: (Open air up to  
8kV or direct contact up to 6kV)

#### EMC (Emission)

CISPR 11 Group 1 Level B and  
FCC Part 15

#### EMC (Immunity)

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

### PHYSICAL

#### SIZE

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

#### WEIGHT

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

\*Specifications subject to change without notice