Defibtech Lifeline ECG Semi-Automatic Defibrillator with ECG Display

TECHNICAL SPECIFICATIONS†

OPERATING MODES

AED WITH VIDEO DISPLAY
High-resolution LCD displays full-motion animated instructions with CPR coaching.

AED WITH ECG DISPLAY
High-resolution LCD displays ECG data and event information.

DEFIBRILLATOR

TYPE
Semi-automatic external defibrillator

MODEL
DDU-2450

WAVEFORM
Impedance Compensated Biphasic Truncated Exponential

ENERGY*
Adult: 150 Joules
Child / Infant: 50 Joules
(Nominal into 50 ohm load)

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

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)

*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 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

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 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

SURFACE AREA**
Adult: 12 inches^2 (77 cm^2)
Child / Infant: 7.75 inches^2 (50 cm^2)

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

*Typical, with new battery, at 25°C

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)

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 61000-4-2: (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

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)

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CE 0197

USA Rx ONLY

†Specifications subject to change without notice

BRIEF SUMMARY OF INDICATIONS, CONTRAINDICATIONS AND OTHER IMPORTANT SAFETY INFORMATION

When should the Defibtech Automated External Defibrillator (AED) be used - what are its indications?

Lifeline/ReviveR VIEW DDU-2300 and Lifeline/ReviveR ECG DDU-2450 Automated External Defibrillators (AEDs) are indicated for use on victims of sudden cardiac arrest (SCA) who are:

- Unconscious and unresponsive
- Not breathing or not breathing normally

Lifeline/ReviveR VIEW DDU-2300 and Lifeline/ReviveR ECG DDU-2450 AEDs may be used with Defibtech adult defibrillation pads (model number DDP-2001). For patients under 8 years old, or weighing less than 55 lbs (25 kg), use Defibtech child/infant defibrillation pads (model number DDP-2002), if available.

When should the Defibtech AED not be used - what are its contraindications?

Lifeline/ReviveR VIEW DDU-2300 and Lifeline/ReviveR ECG DDU-2450 Automated External Defibrillators (AEDs) should not be used if the victim is responsive or conscious.

What other information is important about using the AED?

Do not delay therapy to determine exact age or weight. If pediatric pads are not available, apply adult pads in the position as shown for a child/infant and use the AED.

What are the potential adverse health effects of using an AED?

The potential adverse effects (e.g., complications) associated with use of an automated external defibrillator include, but are not limited to, the following:

- Failure to identify shockable arrhythmia.
- Failure to deliver a defibrillation shock in the presence of VF or pulseless VT, which may result in death or permanent injury.
- Inappropriate energy, which could cause failed defibrillation or post-shock dysfunction.
- Myocardial damage.
- Fire hazard in the presence of high oxygen concentration or flammable anesthetic agents.
- Incorrectly shocking a pulse sustaining rhythm and inducing VF or cardiac arrest.
- Bystander shock from patient contact during defibrillation shock.
- Interaction with pacemakers.
- Skin burns around the defibrillation pads placement area.
- Allergic dermatitis due to sensitivity to the materials used in the defibrillation pads construction.
- Minor skin rash.

What are some of the relevant warnings related to the AED?

- Hazardous electrical output. This equipment is for use only by qualified personnel.
- Possible fire or explosion. Do not use in the presence of flammable gases or anesthetics. Use care when operating this device close to oxygen sources (such as bag-valve-mask devices or ventilator tubing). Turn off gas source or move source away from patient during defibrillation, if necessary.
- The DDU-2000 Series AED has not been evaluated or approved for use in hazardous locations as defined in the National Electric Code standard. In compliance with IEC classification, the DDU-2000 Series AED is not to be used in the presence of flammable substance/air mixtures.
- Improper maintenance can cause the DDU-2000 Series AED not to function. Maintain the DDU-2000 Series AED only as described in the User Manual and Operating Guide. The AED contains no user-serviceable parts — do not take the unit apart.
- Do not open sealed pads package until pads are to be used. The packaging should be opened only immediately prior to use, otherwise the pads may dry out and become non-functional.
- Do not touch the patient during defibrillation. Defibrillation current can cause operator or bystander injury.
- The defibrillation pads are intended for one-time use only and must be discarded after use. Reuse can lead to potential cross infection, improper performance of the device, inadequate delivery of therapy, and/or injury to the patient or operator.
- CPR during analysis can cause incorrect or delayed diagnosis by the patient analysis system.
- User-initiated and automatic self-tests are designed to assess the DDU-2000 Series AED's readiness for use. However, no degree of testing can assure performance or detect abuse, damage, or a defect that occurred after the most recent test is completed.
- Even if defibrillation occurs, the sudden cardiac arrest event may not result in survival.

What are some of the relevant cautions related to the AED?

- Follow all battery pack labeling instructions. Do not install battery packs after the expiration date.
- Follow all defibrillation pad label instructions. Use defibrillation pads prior to their expiration date.
- Use and store the DDU-2000 Series AED only within the range of environmental conditions specified in the technical specifications.

Caution: Federal (U.S.A.) law restricts this device to sale by or on the order of a physician.

Please refer to the Operating Guide provided with your AED for user instructions, complete list of warnings and cautions, operator training requirements, summary of primary clinical studies, technical specifications, and other important information. The Operating Guide, for concise guidance on set-up, use, maintenance and technical specifications, and User Manual, for comprehensive training on set-up, use and maintenance; and source for complete technical specifications, are also available at www.defibtech.com/support.

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