

# Lifeline AUTO



## Lifeline AUTO Fully Automatic Defibrillator

THE LATEST EVOLUTION IN THE AWARD-WINNING LIFELINE DEFIBRILLATOR SERIES

The Lifeline AUTO is a fully automatic defibrillator designed to analyze heart rhythms and automatically deliver a shock—without intervention—if needed.

The Lifeline AUTO includes all mission critical features necessary to provide the most advanced treatment for Sudden Cardiac Arrest. Yet it is so simple and unintimidating to use that even non-medical personnel can effectively save lives.

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

exceeds the American Heart Association performance recommendations—giving the user confidence the correct therapy is being delivered.

The Lifeline AUTO 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 AUTO is standard equipment. For schools, offices, malls, factories, and public places, it's becoming as vital as a fire extinguisher.

# Lifeline AUTO Fully Automatic Defibrillator

## TECHNICAL SPECIFICATIONS\*

### DEFIBRILLATOR

<b>TYPE</b> Fully Automatic external defibrillator	<b>VOICE PROMPTS</b> Extensive voice prompts guide user through operation of the unit
<b>MODEL</b> DDU-120 SERIES	<b>CONTROLS</b> Lighted On/Off button
<b>WAVEFORM</b> Biphasic Truncated Exponential (Impedance compensated)	<b>INDICATORS</b> "check pads" "do not touch patient" "analyzing" armed-for-shock AED status LED
<b>ENERGY</b> Adult: 150 Joules Pediatric: 50 Joules (Nominal into 50 Ohm load)	
<b>CHARGE TIME</b> *	
DBP-2800: Less than 6 seconds	
DBP-1400: Less than 9 seconds	

### PATIENT ANALYSIS SYSTEM

<b>PATIENT ANALYSIS</b> Automatically evaluates patient impedance for proper pad contact. Monitors signal quality and analyzes patient ECG for shockable/non-shockable rhythms	<b>SENSITIVITY/SPECIFICITY</b> Meets AAMI-DF-39 specifications and AHA recommendations
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### BATTERY PACK

MODEL DBP-2800**	MODEL DBP-1400**
<b>POWER</b> 15V, 2800 mAh	<b>POWER</b> 15V, 1400 mAh
<b>CAPACITY</b> 300 shocks or 16 hours continuous operation	<b>CAPACITY</b> 125 shocks or 8 hours continuous operation
<b>STANDBY LIFE</b> 7 years	<b>STANDBY LIFE</b> 5 years

<b>TYPE</b> Lithium/Manganese Dioxide Disposable, recyclable, non-rechargeable	<b>LOW BATTERY INDICATORS</b> Visible Audible
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### SELF TESTS

<b>AUTOMATIC</b> Automatic daily, weekly and monthly circuitry tests	<b>USER-INITIATED</b> Unit and battery pack system test may also be initiated by the user
<b>BATTERY INSERTION</b> System integrity test on battery insertion	<b>STATUS INDICATION</b> Visual and audible indication of unit status
<b>PAD PRESENCE</b> Pads preconnected tested daily	

### DEFIBRILLATION/MONITORING PADS

<b>MODEL</b> Adult – DDP-100 Child/Infant – DDP-200P	<b>SURFACE AREA</b> 103 cm <sup>2</sup> (nominal, each pad) 50 cm <sup>2</sup> (nominal, each pad)
<b>TYPE</b> Pre-connected, single-use, non-polarized, disposable, self-adhesive electrodes with cable and connector	<b>PAD PLACEMENT</b> Adult – Anterior/Anterior Child/Infant – Anterior/Posterior
	<b>CABLE LENGTH</b> (typical) 122 cm

### EVENT DOCUMENTATION

<b>INTERNAL EVENT RECORD</b> Critical ECG segments and rescue event parameters are recorded and can be downloaded to a removable data card	<b>REMOVABLE STORAGE</b> (optional) Up to 12 hours of ECG and event data storage (no audio option) or up to 2 hours of audio, ECG and event storage (audio option) on a removable data card. Actual length of storage is dependent on card capacity
<b>PC-BASED EVENT REVIEW</b> ECG with event tag display, and audio playback when available	

### ENVIRONMENTAL

<b>TEMPERATURE</b> Operating: 0 to 50°C Standby (with battery installed): 0 to 50°C	<b>SHOCK/DROP ABUSE TOLERANCE</b> MIL-STD-810F 516.5 Procedure IV (1 meter, any edge, corner, or surface, in standby mode)
<b>RELATIVE HUMIDITY</b> Operating / Standby: 5% – 95% (non-condensing)	<b>SEALING/WATER RESISTANCE</b> IEC60529 class IP54; Splash Proof, Dust Protected (Battery Pack installed)
<b>ALTITUDE</b> -500 to 15,000 ft (-150 to 4500 m) per MIL-STD-810F 500.4 Procedure II	<b>ESD</b> EN 61000-4-2:2001, (open air up to 8kV or direct contact up to 6kV)
<b>VIBRATION</b> 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)	<b>EMC (Emission)</b> EN 60601-1-2:1998 +A1:2002, limits EN 55011:1998 +A1:1999 +A2:2002 Group 1 Level B, method  <b>EMC (Immunity)</b> EN 60601-2-4:2003, limits EN 61000-4-3:2002 Level 3 (10V/m), method

### PHYSICAL

<b>SIZE</b> (22 x 30 x 7 cm)	<b>WEIGHT</b> With DBP-1400: 1.9 kg With DBP-2800: 2.0 kg
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