# THE ART AND SCIENCE OF DEFIBRILLATION™

## Lifeline AUTO

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 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 professions like police, fore 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**

## THE LATEST EVOLUTION IN THE AWARD-WINNING LIFELINE **DEFIBRILLATOR SERIES**

### What is the Lifeline AUTO?

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.

## Why the Lifeline AUTO?

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 professions like police, fore 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**

Type

Fully Automatic external defibrillator

Model

DDU-120 Series

Waveform

Biphasic Truncated Exponential (Impedance compensated)

**Energy** 

Model

Adult - DDP-100

Child/Infant - DDP-200P

Pre-connected, single-use,

non-polarized, disposable,

self-adhesive electrodes

with cable and connector

Adult: 150 Joules Pediatric: 50 Joules (Nominal into 50 Ohm load)

Charge Time \*

DBP-2800: Less than 6 seconds DBP-1400 Less than 9 Seconds

#### **Voice Prompts**

Extensive voice prompts guide user through operation of the unit

**Controls** 

Lighted On/Off button

**Indicators** 

"check pads"
"do not touch patient"
"analyzing"
armed-for-shock
AED status LED

### **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

#### **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 2 hours of audio, ECG and event storage (audio option) on a removable data card. Actual lenght of storage is dependant on card capacity.

**BATTERY PACK** 

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

DEFIBRILLATION/MONITORING PADS

**Surface Area** 

**Pad Placement** 

48 In (122 cm)

103 cm² (nominal, each pad)

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

Child/Infant - Anterior/Posterior

Adult - Anterior/Anterior

Cable Length (typical)

#### Type

Lithium/Manganese Dioxide Disposable, recycable, non-rechargable

#### **Low Battery Indicators**

Visible, Audible

## 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

#### **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 (1.9kg) With DBP-2800: 4.4 lbs (2.0 kg)

## **ENVIRONMENTAL**

#### Relative/Humidity

Operating/Standby: 5%- 95% (non-considering)

#### Temperature

Operating: 0 to 50°C (32 to 122°F)

#### **Shock/Drop Abuse Tolerance**

MIL-STD-810F 516.5 Procedure IV (1 meter, any edge, corner or surface, in standby mode)

#### Altitude

-500 to 15,000 ft (-150 to 4500m) per MIL-STD-810F 500.4 Procedure II

#### ESD

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

#### Vibration

Ground (MIL-STD-810F 514.4 Category 20) Helicopter (RTCA/DO-160D, Section 8.8.2, Cat R, Zone, 2, Curve G)

#### Sealing/Water Resistance

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

#### EMC (Immunity)

EN 60601-2-4:2004, limits EN 61000-4-3:2002 Level 3 (10V/m), method

#### **EMC** (Emission)

EN 60601-1 -3:1998 +A1: 2002, limits EN 55011: 1998 +A1: 1999 +A2:2002 Group 1 Level B, method

