

# Lifeline Series

Automated External Defibrillators



**Be a Hero, Help Save a Life**

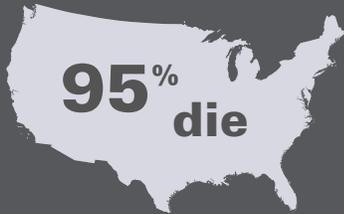
Life-Saving Technology Within Reach



# A National Crisis

Sudden Cardiac Arrest (SCA) is one of the Most Lethal Public Health Problems in the U.S.<sup>1</sup>

## The statistics are grim



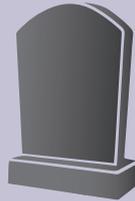
In the U.S. 95% of sudden cardiac arrest victims die<sup>2</sup>

## SCA vs. other causes



In a list of most common causes of death in the U.S. 1 of every 7.4 deaths were attributable to sudden cardiac arrest<sup>4</sup>

Oftentimes, sudden cardiac death is the **first sign** that there was an underlying problem concerning the heart.<sup>3</sup>



## AEDs on the Premises save Precious Treatment Time



Surviving an SCA largely depends on immediate bystander intervention with CPR and an AED.<sup>5</sup> Survival rates are highest when defibrillation is delivered within three minutes of the time of collapse.<sup>6</sup>

### Sudden Cardiac Arrest



Chances of survival decrease by about 10% for every minute that passes without treatment.<sup>7</sup>



Defibtech is committed to helping businesses and organizations protect their workers, customers, and visitors, by building AEDs that make it easy for virtually anyone—from first responders to untrained bystanders—to respond confidently and appropriately during an emergency.

# Choose the Defibtech AED That Is Right for You

Decision makers are turning to Defibtech for fully-featured and sophisticated AEDs, which offer industry-leading innovation and value-oriented solutions. Choose from a semi-automatic defibrillator, a fully-automated defibrillator that analyzes heart rhythms and automatically delivers a shock, if needed, an AED capable of an ECG waveform display at the touch of a button, and the first AED with a full-motion color video that shows step-by-step videos to help save a life.

With their distinctive yellow hourglass shapes, roomy handles, and rubberized surfaces, Defibtech AED's are technologically advanced enough to meet the needs of the most demanding first responders, and are also incredibly easy for the untrained to use. Virtually anyone can be a lifesaver with a Lifeline AED.

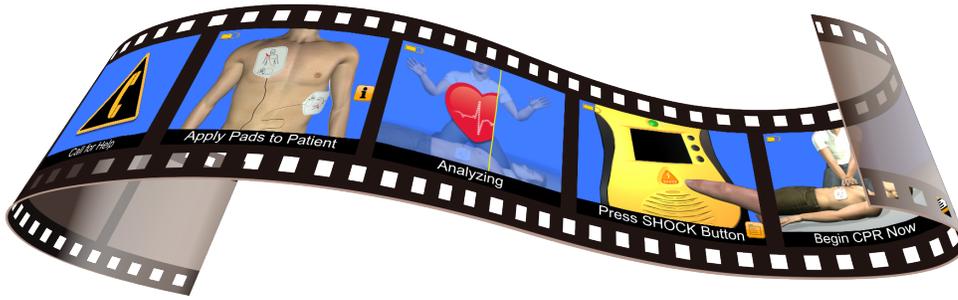


## AED Program Management

Enhance the Power of a Lifesaving Defibtech AED

Defibtech's Full Service AED Program Management, inclusive of Medical Direction, integrates all components of a successful AED program to help you be prepared in the event sudden cardiac arrest strikes someone on your premises.





# You Have Never Seen an AED like This

The Lifeline VIEW is the First AED with Full-motion Color Video

With your own eyes, see what you are supposed to do as step-by-step videos, with easily understandable voice instructions and text prompts, walk you through a rescue. The interactive display coaches the user through defibrillation, like applying the pads, and performing CPR. Chaos, noise, and confusion are part of any SCA situation. The Lifeline VIEW makes it easy for virtually anyone to respond confidently and appropriately during an emergency.

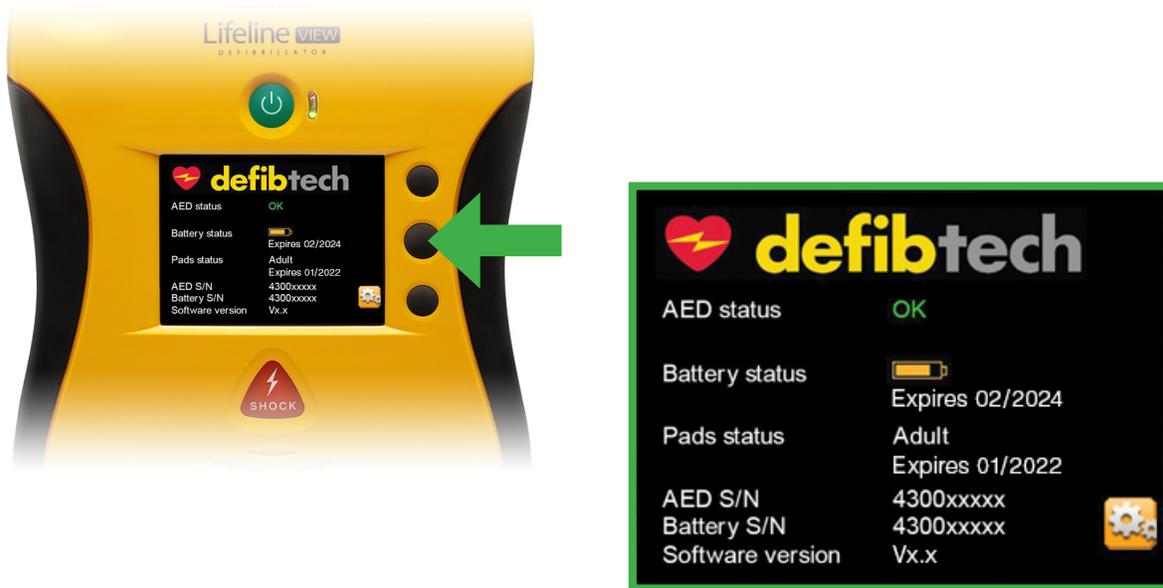
- Videos with corresponding text and voice instructions aid in comprehension
- Counts beats during the CPR period
- Frequent and automatic self-tests: Daily, weekly, monthly, and quarterly
- Non-escalating Biphasic Waveform: Adult: 150 Joules; Child / Infant: 50 Joules
- Durable: 1.2 meter drop tested
- Dust protected, spray and water resistant (rated IP55)
- Lightweight: Less than 3 lbs.



Built-in help topic videos, that can be accessed at any time, are also included. They cover subjects such as: Preparing the patient, performing CPR, and analyzing and shocking. Additional help topics provide clear guidance for maintaining the device such as replacing the battery pack or defibrillation pads. An AED Maintenance Screen has menu options designed to support upgrades and enhancements.

# At the Touch of a Button

Up-to-the-minute information regarding the device



## Status Screen

The One Touch Status Screen is a feature of the Lifeline VIEW and the Lifeline ECG, and one of the reasons you can be confident that the device will be easy to maintain and ready for rescue. It gives you up-to-the-minute information regarding the device and its components. At the touch of a button – and without turning on the device itself – the device instantly communicates the operational status of the AED and its accessories.

- AED unit status, e.g., “OK”
- Battery pack status (battery life icon)
- Battery pack expiration date
- Type of pads (adult or pediatric)
- Pads expiration date
- Serial numbers of the unit and the battery pack
- Software version



# The AED with Features Healthcare Professionals Demand

Defibtech's Lifeline ECG AED is sophisticated enough to meet the needs of the most demanding professional rescuers and health care providers. The AED mode with full color video shows step-by-step animated instructions providing ease of use for lay persons. The touch of a button can change the unit's display from AED to ECG waveform display with event information in real-time. Such flexibility makes this AED well suited for a wide variety of applications within Emergency Medical Services (EMS) and Healthcare Facility environments.

- Ideal for use by organizations that incorporate a public access response element
- Reasonably and economically augments the number of defibrillators that need to be kept on hand for use by lay users, basic and advanced life support (BLS/ALS) personnel, and code team members
- Optional rechargeable battery pack (DBP-2009) for supported AED programs with dedicated personnel and maintenance protocols



# Be a Hero on Land, in the Air, or at Sea

## Peace of Mind for All Aboard

In remote locations, such as an airplane or a commercial vessel, there is no ambulance on its way, and there is no hospital nearby. AEDs are the only treatment available for passengers or crew members that are victims of sudden cardiac arrest. In challenging air and sea environments, a Lifeline AED provides rescuers with the knowledge and confidence they need to help save a victim of sudden cardiac arrest.

As required by the Federal Aviation Administration (FAA), certain Lifeline VIEW and Lifeline ECG configurations come with a battery pack that has been certified for use in civil aviation. Additionally, decision makers have chosen Lifeline AEDs for use in many airports, aircraft ground operations, and aviation related corporate offices worldwide.

Should passengers or crew members suffer SCA away from port, a Lifeline AED can make the difference between life and death. Defibtech AEDs are deployed on inland waterway, coastal, and blue water commercial vessels.

With a Lifeline VIEW or Lifeline ECG AED on board, help is always within reach.

- Built to U.S. Military specifications for use in hostile environments
- Passed vigorous vibration tests for ground, helicopter, and jet aircraft
- A small footprint and weighing less than 3 pounds, these AEDs save both space and fuel costs
- Audio and video coaching for loud environments
- Battery pack DBP-2013 meets FAA's TSO C-142 certification for use in civil aviation
- Civil aviation long-life battery pack provides 12 hours of continuous operation in ECG monitoring mode to monitor and document a patient's ECG, or minimum 250 defibrillation shocks



DDU-2450

DDU-2300

# The AED that Started it All

Lifeline AED Semi-Automatic Defibrillator



DDU-100

## Award Winning

Winner of several design and innovation awards, the Lifeline AED is simple and intuitive with a fully integrated design which means there are no lids, no moving parts, or exterior cases that could confuse or delay a rescuer in an emergency. Lifeline AEDs are built to the demanding standards of professional emergency personnel, and meet U.S. Military “drop and shock” specifications. All mission critical features necessary to provide the most advanced treatment for sudden cardiac arrest are included.

With speed and ease, the Lifeline AED leads the user through the rescue:

- Two-button operation
- Built-in metronome produces a steady beat during CPR
- Dust protected, spray and water resistant (rated IP54)
- Frequent and automatic self-tests: Daily, weekly, monthly, and quarterly
- Visual and audible low battery warning

## Big Buttons

The “Power On” and “Shock” buttons are oversized and brightly lit making it visually easier for users to hit the mark.



# The One-Button Defibrillator

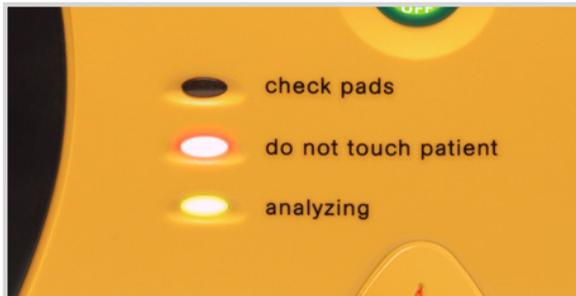
## Lifeline AUTO Fully-Automated Defibrillator

### Fully-Automated AED

The Lifeline AUTO defibrillator, with its one-button operation, features all the functionality of the Lifeline AED. It is a fully-automated defibrillator that automatically delivers a shock - without intervention - if advised. So simple and unintimidating is the Lifeline AUTO to use that virtually anyone can quickly and effectively help save a life.

### Text, Lights, and Voice Guides

A calm voice guides the responder step-by-step while clear visual text guidance display with brightly lit progress lights shows the progress.



DDU-120

### Data Card Support

Defibtech AEDs support Data Card technology for easy upgrades on site, data downloading for event review, and additional event storage capacity. Recorded event documentation for download includes ECG data and audio recordings (optional).



# Everything you Need

## Optional Storage Solutions



DAC-100

### Soft Carrying Case

Capacity to hold a Lifeline AED/AUTO, extra set of pads, extra battery, and other accessories as needed. Made of ballistic nylon.



DAC-2100

### Semi-rigid Carrying Case

Capacity to hold a Lifeline VIEW/ECG, extra set of pads, extra battery, and other accessories as needed. Made of ballistic nylon.



DAC-210

### AED Wall Mount Cabinet

Allows any Lifeline AED to be mounted on a wall to increase visibility and to protect the AED from theft or damage. Measures 18" x 18" x 4" (45.7 x 45.7 x 10.2 cm).

## Replacement Accessories



<i>Model Number</i>	<i>Description</i>
DDP-100	<b>Lifeline AED/AUTO Adult Pads</b> These pads are for adults and children 8 years or older, or over 55 pounds.
DDP-200P	<b>Lifeline AED/AUTO Pediatric Pads</b> These pads are for infants and children under eight years old.
DDP-2001	<b>Lifeline VIEW/ECG Adult Pads</b> These pads are for adults and children 8 years or older, or over 55 pounds.
DDP-2002	<b>Lifeline VIEW/ECG Pediatric Pads</b> These pads are for infants and children under eight years old.
DBP-1400	<b>5-Year Lifeline AED/AUTO Battery Pack</b> This replacement battery pack has a standby life of five years (installed in the unit). Each battery pack comes with a 9-volt lithium battery (DAC-410).
DBP-2800	<b>7-Year Lifeline AED/AUTO Battery Pack</b> This replacement battery pack has a standby life of seven years (installed in the unit). Each battery pack comes with a 9-volt lithium battery (DAC-410).
DBP-2003	<b>4-Year Lifeline VIEW/ECG Battery Pack</b> This replacement battery pack has a standby life of four years (installed in the unit).
DBP-2013	<b>4-Year Lifeline VIEW/ECG TSO-Authorized Aviation Battery Pack</b> This replacement battery pack has a standby life of four years (installed in the unit), and is certified for use in civil aviation.
DBP-2009	<b>Rechargeable Lifeline VIEW/ECG Battery Pack</b> This replacement battery pack has a useful life of three years.



## Brief Summary of Indications, Contraindications and Other Important Safety Information

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

### **DDU-100 Series**

Lifeline/ReviveR DDU-100 and Lifeline/ReviveR AUTO DDU-120 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 DDU-100 and Lifeline/ReviveR AUTO DDU-120 AEDs may be used with Defibtech adult defibrillation pads (model number DDP-100). For patients under 8 years old, or weighing less than 55 lbs (25 kg), use Defibtech child/infant defibrillation pads (model number DDP-200P), if available.

### **DDU-2000 Series**

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?*

### **DDU-100 Series**

Lifeline/ReviveR DDU-100 and Lifeline/ReviveR AUTO DDU-120 Automated External Defibrillators (AEDs) should not be used if the victim is responsive or conscious.

### **DDU-2000 Series**

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-100 Series and 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-100 Series and DDU-2000 Series AED is not to be used in the presence of flammable substance/air mixtures.
- Improper maintenance can cause the DDU-100 Series and DDU-2000 Series AED not to function. Maintain the DDU-100 Series and 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-100 Series and 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-100 Series and 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](http://www.defibtech.com/support).

<sup>1</sup> Meaney P, et al: Cardiopulmonary Resuscitation Quality: Improving Cardiac Resuscitation Outcomes Both Inside and Outside the Hospital; A Consensus Statement from the American Heart Association. *Circulation*. 2013;128:417-435

<sup>2</sup> Culley L, et al. "Public Access Defibrillation in Out-of-Hospital Cardiac Arrest: A Community-Based Study." *Circulation*. 2004;109:1859-1863

<sup>3</sup> Pollack R, et al. Impact of Bystander Automated External Defibrillator Use on Survival and Functional Outcomes in Shockable Observed Public Cardiac Arrests. *Circulation*. 2018;137:2104-2113

<sup>4</sup> Benjamin E, et al. Heart Disease and Stroke Statistics—2018 Update: A Report from the American Heart Association. *Circulation*. 2018;137:e67-e492

<sup>5</sup> Hazinski A, et al. Lay Rescuer Automated External Defibrillator ("Public Access Defibrillation") Programs; Lessons Learned From an International Multicenter Trial: Advisory Statement From the American Heart Association Emergency Cardiovascular Committee; the Council on Cardiopulmonary, Perioperative, and Critical Care; and the Council on Clinical Cardiology. *Circulation*. 2005;111:3336-3340

<sup>6</sup> Valenzuela T, Outcomes of Rapid Defibrillation by Security Officers after Cardiac Arrest in Casinos. *N Engl J Med* 2000; 343:1206-1209

<sup>7</sup> Larsen MP, Eisenberg MS, Cummins RO, Hallstrom AP. Predicting survival from out-of-hospital cardiac arrest: a graphic model. *Ann Emerg Med*. 1993;22:1652-1658

# Virtually Anyone can Be a Lifesaver with a Lifeline AED

Defibtech AED deployments include workplaces, government buildings, airports and aircraft, rail stations and trains, educational institutions, malls, factories, emergency vehicles, healthcare facilities, resorts, arenas, and marine vessels.

The Defibtech tradition of excellence continues to provide superior value, award winning design, and technical innovation in products with powerful features, functions, and ease of use. The results are truly useful products for helping to save lives.



**USA** Rx ONLY



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