

**AED Plus®**

**ZOLL®**



*The Best Support  
For Rescuers*

# CPR Required

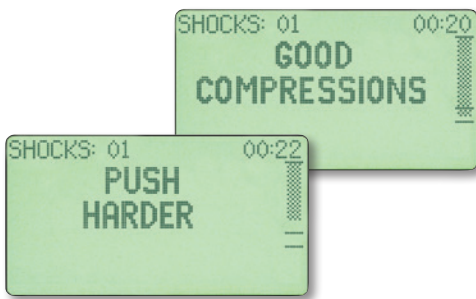
The latest American Heart Association (AHA) Guidelines, issued in 2010, are clear: successful defibrillation requires high-quality CPR performed at the proper depth and rate. When it's time for CPR, the AED Plus® with Real CPR Help® provides the best support to help save a life.



*The CPR hand-placement landmark contains a sensor that detects and measures chest compressions.*

Whether a shock is advised or not, the 2010 Guidelines say that rescuers should focus on delivering high-quality CPR.<sup>1</sup> If no shock is advised, only high-quality CPR can potentially save a victim. That's because only good CPR can restore the heart rhythm to one required for a shock to work.

Even when an AED says "Shock Advised," high-quality CPR should begin immediately after shock delivery. Once shocked, the heart struggles for blood as it tries to reorganize and restore its natural beat. By moving blood through the heart, and back into the heart muscles itself, CPR provides critical help to the struggling heart. Without this help, a shock alone may prove ineffective, and the victim may not be resuscitated.



*The audio prompts that the rescuer hears also appear on the screen, while the compression depth bar gauge on the right side helps the rescuer reach a depth of at least 2 inches.*

## Knowledge Is Power

The AHA's 2010 Guidelines recommend that rescuers push hard to a depth of at least 2 inches (or 5 centimeters) at a rate of at least 100 compressions per minute. But how do you know you're reaching that depth and rate? You shouldn't have to guess—you should know. **Only an AED that offers real-time CPR feedback provides the best support for saving a life.**

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*"Rescuers should focus on delivering high-quality CPR: providing chest compressions ... of at least 2 inches."*

– 2010 AHA Guidelines, p. S678

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## An AED that Helps You Perform High-Quality CPR

Only ZOLL's AED Plus is equipped with Real CPR Help® technology. A sensor in the pads that attach to the patient lets the AED see each chest compression and lets you know how you're doing. It guides you, with prompts and a real-time bar gauge, to the recommended depth and rate of compressions.

*"Whenever defibrillation is attempted, rescuers must coordinate high-quality CPR with defibrillation." – 2010 AHA Guidelines, p. S712*

### How It Works

- Our one-piece CPR-D-padz®, which contains a pair of electrodes, senses and reports the motion of the chest compressions to the AED Plus.
- Audio and text prompts relay compression quality.
- The compression depth bar gauge lets you see the depth of each compression in real time.
- The adaptive metronome detects compression rate and guides you to at least 100 per minute.

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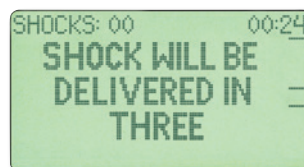
*"CPR can double or triple survival from witnessed cardiac arrest."*

*– 2010 AHA Guidelines, p. S706*

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### Fully Automatic Model

For those who want to keep things simple, the fully automatic model of the AED Plus takes charge and delivers the shock with no rescuer interaction needed. Stay clear, and let the Fully Automatic AED Plus deliver its life-saving shock.

A person in a white lab coat is holding a bright green ZOLL AED Plus device. The device has "AED" printed on it in large black letters. In the background, a person in a blue uniform is standing in a doorway.A close-up of the AED Plus screen showing a green background with black text. The text reads: "SHOCKS: 00" in the top left, "00:24" in the top right, and "SHOCK WILL BE DELIVERED IN THREE" in the center. There are two horizontal lines to the right of the text.

SHOCKS: 00 00:24  
SHOCK WILL BE  
DELIVERED IN  
THREE

*If a shock is needed, the Fully Automatic AED Plus will deliver it after a 3-second countdown, which is audible and also appears as text on the screen.*

A bright green ZOLL AED Plus device is lying on a grey carpeted floor. The device has "AED" printed on it in large black letters.

## What It Means to See

Because the AED Plus can “see” your compressions, you can see, hear, and read how well you are performing CPR.

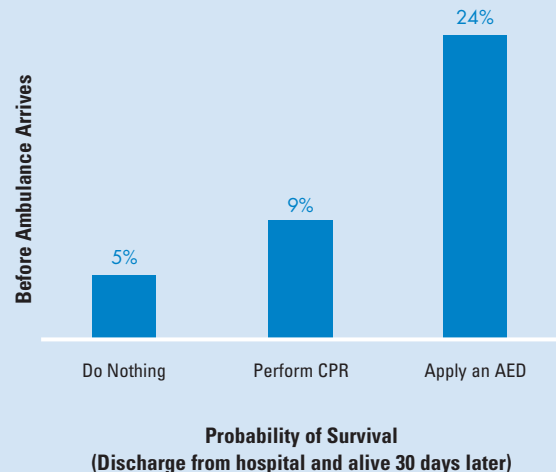
RESCUER ACTIONS	AED PLUS SUPPORT
Not yet started?	“START CPR”
Stopped?	“CONTINUE CPR”
Too slow?	Adaptive metronome speeds you up
Not deep enough?	“PUSH HARDER”
Performing good CPR?	“GOOD COMPRESSIONS”
Want to see how you’re doing?	Visible bar gauge indicates depth of compressions



# THE CASE FOR AEDs

## Survival Increases with Early Intervention

Research shows that the probability of survival goes up dramatically when CPR is performed, and when an AED is applied before an ambulance arrives.<sup>2</sup>



## Where Is the AED?

Too often, the answer is, “We don’t have one.” Sadly, the same research that demonstrated a nearly fivefold increase in survivability (from 5% to 24%) when an AED is used, also showed that an AED is available only 2% of the time.

## Saving More Lives

ZOLL's professional defibrillators are also equipped with Real CPR Help technology. Research conducted with EMS personnel in Arizona has shown that when professionals are trained to do high-quality CPR using ZOLL's professional defibrillators equipped with Real CPR Help—providing the same real-time feedback for depth and rate of chest compressions as the AED Plus—the chance of survival from cardiac arrest more than doubled!<sup>3</sup> Rescuers using the AED Plus have this same best support from Real CPR Help available to them.

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*"Several studies have demonstrated improvement in chest compression rate [and] depth ... when real-time feedback or prompt devices are used to guide CPR performance."*

*"... real-time CPR prompting and feedback technology such as visual and auditory prompting devices can improve the quality of CPR (Class IIa, LOE B)." – 2010 AHA Guidelines, p. S697*

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## The Benefits of Ownership

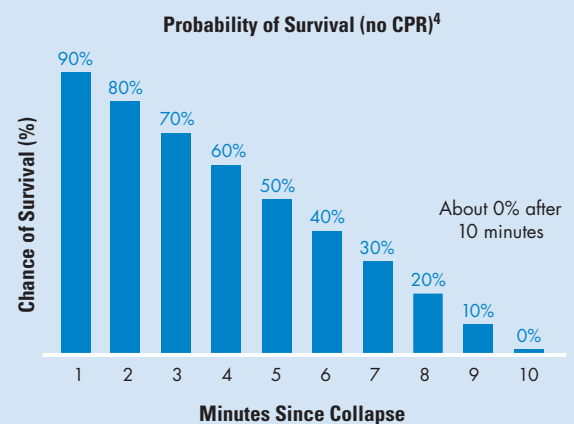
The AED Plus can help your organization's bottom line. Once installed, the AED Plus has the lowest total cost of ownership of all AEDs on the market, especially when considering the logistics of tracking and changing pads and batteries over the life of the AED. Thanks to the long shelf life of the consumables, when you compare the cost of maintenance over 10 years, this is the most cost-effective AED to own. The AED Plus is powered by lithium batteries (available from retail outlets) that last five years, and the CPR-D-padz Electrode lasts five years as well.



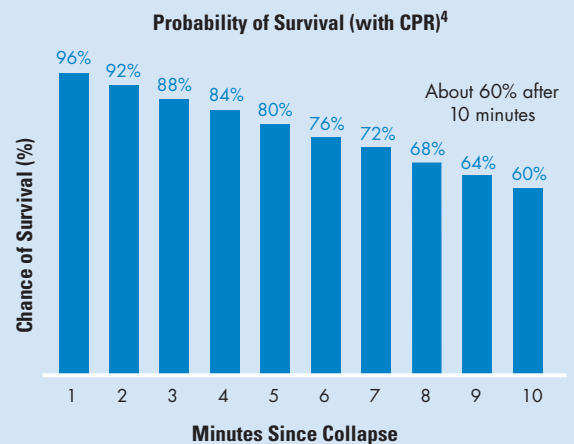
# THE CASE FOR CPR

## Quality Buys Time

The AHA's 2010 Guidelines note that if bystanders do nothing for a collapsed victim, the chance of survival drops about 10% every minute.



But if bystanders can immediately begin CPR and keep it up, the chance of survival only drops 3% to 4% per minute. At that rate, approximately 10 minutes after collapse, the chance of survival remains at at least 60%.



## The Best Support

No other AED supports a rescuer as thoroughly as the AED Plus because it includes the following:

- Our unique one-piece CPR-D-padz for quick, easy application. Pull tabs expose the conductive gel once it is in direct contact with the skin, limiting the chance of contamination.
- A rescue accessory package attached to every CPR-D-padz that contains items critical to a successful rescue.
- A lid that acts as a “passive airway support” to maintain the victim’s open airway.
- A back-lit display screen that provides simultaneous text with every audio prompt, and a circle of lighted graphical icons that show what to do.
- A display screen that presents the elapsed time and number of shocks delivered, critical information needed by EMS personnel when they arrive.
- Real CPR Help. No other AED can see the rescuers chest compressions and guide them to the required depth and rate. Other AEDs make you guess when your compressions are deep enough. Only the AED Plus lets you know.

*The rescue accessory pack comes with all the additional tools you may require during a rescue, from scissors to non-latex gloves.*



### References:

<sup>1</sup>2010 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science. *Circulation*. 2010;122:S676–S684.

<sup>2</sup>Weisfeldt ML, et al. *J Am Coll Cardiol*. 2010;55(16):1713–20.

<sup>3</sup>Bobrow BJ, et al. *Ann Emerg Med*. 2013 Jul;62(1):47–56.e1. Epub 2013 Mar 7.

<sup>4</sup>2010 AHA Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science. *Circulation*. 2010;122:S706.

ZOLL Medical Corporation, an Asahi Kasei Group company, develops and markets medical devices and software solutions that help advance emergency care and save lives, while increasing clinical and operational efficiencies. With products for defibrillation and monitoring, circulation and CPR feedback, data management, fluid resuscitation, and therapeutic temperature management, ZOLL provides a comprehensive set of technologies that help clinicians, EMS and fire professionals, and lay rescuers treat victims needing resuscitation and acute critical care. For more information, visit [www.zoll.com](http://www.zoll.com).

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