

**ZOLL AED 3™** BLS

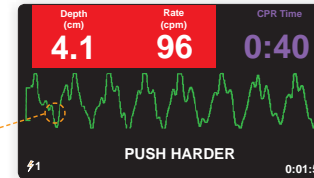
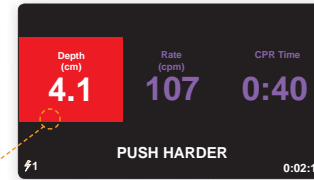
**ZOLL®**



DESIGNED FOR  
PROFESSIONAL RESCUERS

# SMART TECHNOLOGY. UNRIVALED SUPPORT.

Designed for professional rescuers, the ZOLL AED 3™ BLS defibrillator provides in-depth rescue support for both adult and child victims of sudden cardiac arrest (SCA). The AED 3 BLS not only guides rescuers in delivering high-quality CPR, but also is one of the fastest AEDs in the industry at delivering a shock after chest compressions stop – two critical components to increasing a victim’s chance of survival. ZOLL AEDs set the benchmark for reliability and dependability, empowering rescuers around the world to help save lives.



The AED 3 BLS can be easily configured to show the CPR Dashboard™ only, or both the CPR Dashboard and ECG. Depth and Rate indicators are highlighted in red if the compression rate is too slow and/or the depth is too shallow when in adult rescue mode.

## Enhanced Real CPR Help

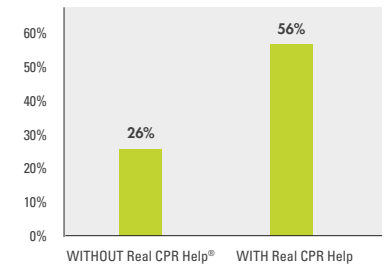
The ZOLL AED 3™ BLS provides enhanced Real CPR Help® technology, which measures the actual depth and rate of each compression and displays it numerically on the CPR Dashboard™.

The CPR Dashboard also shows elapsed time, CPR cycle countdown, shocks delivered and ECG. The Real CPR Help integrated, real-time CPR feedback visibly and audibly shows rescuers when they are administering high-quality CPR.

The CPR Dashboard function also provides support for pediatric rescues by displaying CPR rate and depth values in pediatric mode. This information helps enable the rescuer to better gauge CPR compressions based on the size of the victim.

*“ZOLL defibrillators equipped with Real CPR Help—providing real-time feedback for depth and rate of chest compressions – combined with training more than doubled the chance of survival from cardiac arrest.”*

### CARDIAC ARREST SURVIVAL RATE



*—Bobrow B, et al. Annals of Emergency Medicine<sup>1</sup>*

## RapidShock™ Analysis

The ZOLL RapidShock™ Analysis technology enables the industry's shortest pause for analysis and the fastest time to shock for continuous lifesaving CPR. Minimizing pauses improves CPR quality and can improve patient outcomes from sudden cardiac arrest. RapidShock analysis can analyze a patient's heart rhythm in three seconds, enabling delivery of the shock in **as little as five seconds**.

*Studies demonstrate an association between a shorter duration of compression interruption for the perishock period and a greater likelihood of shock success, ROSC and survival to hospital discharge.*

*—2015 AHA Guidelines<sup>2</sup>*



## Integrated Pediatric Rescue

Pediatric rescue is made easier with ZOLL's unique CPR Uni-pad™ electrodes and a child mode setting. Universal pad design provides rescuers with a single, confident solution to treat both adult and pediatric victims of SCA by using the same set of electrode pads and simply activating child mode. The CPR Dashboard™ displays numerical CPR depth, rate, and cycle time for additional guidance to the rescuer.

ZOLL's CPR Uni-pad eliminate the hassle and additional expense of carrying separate pads for pediatric rescues. CPR Uni-pad last five years, the longest lasting in the industry, ensuring you will be ready for the rescue.



The CPR hand-placement landmark senses your chest compressions and lets the AED 3 BLS see the depth of each compression.



Rugged carry bag helps protect the AED 3 BLS when it's on the move. Lift cover to use the AED while still in carry bag. Holds AED 3 BLS with back-up set of CPR Uni-padz. Bag sold separately.

## WiFi and USB Connectivity

Using ZOLL Online CaseReview™, detailed rescue performance data can be exported quickly and easily via USB or transferred directly over WiFi. Data on CPR rate, depth, release velocity, and compression fraction can be evaluated and used to improve future responder performance. AED connectivity also enables fast and easy distribution of event and ECG data to medical personnel.

As part of the ZOLL RescueNet software product suite, CaseReview enables integration of data collected by other ZOLL devices used throughout the treatment process of the patient. Data from the ZOLL AED 3 and X-Series devices used during the rescue as well as data from a ZOLL R-Series used at the hospital can be aggregated and reviewed to provide a more comprehensive history of the patient's care.



*CPR data collection, implementation of best practices, and continuous feedback on performance have been shown to be effective.*

*— 2015 AHA Guidelines<sup>3</sup>*

## Rugged Design – Built to handle extreme environments

The ZOLL AED 3 BLS is designed to withstand the extreme environments in which professional rescuers work. With an IP (ingress protection) rating of 55 and a 1-meter drop test rating, the AED 3 BLS is highly impervious to moisture, dust, and rough handling.



## Setting new benchmarks in rescuer support

- Real CPR Help shows chest compressions during CPR and will let rescuers know when they're performing high-quality CPR at a rate of 100 to 120 compressions per minute and 5 cm to 6 cm deep (adult rescue mode only).
- Includes CPR Dashboard with patient ECG, compression rate and depth, CPR cycle countdown timer, shock count, and total elapsed time.
- Shock delivery in as little as five seconds after stopping CPR allows rescuers to deliver more continuous CPR.
- Universal CPR Uni-padz and child mode selection enable readiness for adult or child rescue.
- ZOLL's CaseReview allows you to capture key clinical event data from your AED as well as aggregate patient data from other ZOLL ALS and Hospital devices.
- Rugged design with an IP 55 rating and 1-meter drop test.

<sup>1</sup>Babrow B., et al. Annals of Emergency Medicine. July 2013; 62(1):47-56.31

<sup>2</sup>AHA 2015 Guidelines: Pg: S420

<sup>3</sup>AHA 2015 Guidelines: Pg: S423

## ZOLL MEDICAL CORPORATION

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ZOLL AED 3 is not available for sale in the United States. The product has not received regulatory clearance/approval by the Food and Drug Administration.

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# ZOLL®



ZOLL's CPR Dashboard™ provides real-time numerical feedback on CPR depth, rate, and cycle time.



ZOLL's RapidShock™ Analysis provides heart rhythm analysis in as little as 3 seconds for more continuous CPR.



Activate Child Mode to invoke the paediatric heart analysis algorithm and reduce energy delivered.



Wi-Fi and USB Connectivity enable quick and easy access to event data.

## ZOLL AED 3 BLS Specifications

### Defibrillator

**Protocol:** Semiautomatic

**Waveform:** ZOLL Rectilinear Biphasic™

**Defibrillator Charge Hold Time:** 30 seconds

**Energy Selection:** Factory preprogrammed selection (Adult: 120 J, 150 J, 200 J; Child: 50 J, 70 J, 85 J). User configurable.

**Patient Safety:** All patient connections are electrically isolated

**Charge Time:** Less than 10 seconds with new battery

**Pre-shock Pause:** Less than 5 seconds with new battery

**Electrodes:** ZOLL CPR Uni-padz™

**Self-test:** User-configurable automatic self-test every day or every 7 days. Default: Every 7 days. Monthly full-energy test (200 J).

**Automatic Self-test Checks:** Battery capacity, status and expiry; electrode connection and expiry; ECG and charge/discharge circuits; microprocessor hardware and software; CPR circuitry and pads sensor; audio circuitry

**CPR Metronome Rate:** Constant 105 (+/- 2) CPM

**Depth Measurement:** 1.9 cm to 10.2 cm; 0.75 in to 4 in

**Defibrillation Advisory:** Evaluates electrode connection and patient ECG to determine if defibrillation is required

**Shockable Rhythms:** Ventricular fibrillation with average amplitude >100 microvolts and wide complex ventricular tachycardia with rates greater than 150 BPM for adults, 200 BPM for paediatrics. For ECG analysis algorithm sensitivity and specificity, refer to the ZOLL AED 3 Administrator's Guide.

**Patient Impedance Measurement Range:** 10 to 300 ohms

**Defibrillator:** Protected ECG circuitry

**Display Format:** High-resolution LCD with capacitive touch panel

**Display Screen Size:** 5.39 cm x 9.5 cm; 2.12 in x 3.74 in

**Display Sweep Speed:** 25 mm/sec

**Display Viewing Speed:** 3.84 seconds

**Data Recording and Storage:** User-configurable for 1 or 2 clinical events

for total of 120 minutes. Includes ECG, impedance measurements, device prompts, and CPR data. With voice recording enabled, same data with synchronous audio added for total of 60 minutes.

**Data Recovery:** Controlled by touchscreen, uploaded to USB memory stick, or RescueNet® CaseReview, over a Wi-Fi network

**Internal Clock Synchronisation:** Coordinated Universal Time (UTC) synchronisation occurs when communicating with the ZOLL Online server.

### Device

**Size:** (H x W x D) 12.7 cm x 23.6 cm x 24.7 cm; 5.0 in x 9.3 in x 9.7 in

**Weight:** 2.5 kg; 5.5 lbs

**Power:** Lithium manganese dioxide battery pack

**Wireless:** 802.11 a/b/g/n

**Security Protocols:** WPA1, WPA 2, WPA Personal, WPA Enterprise

**Port:** USB 2.0

**Audio Recording:** User-configurable on/off (default=off)

**Device Classification:** Class II and internally powered per EN 60601-1

**Design Standards:** Meets applicable requirements of EN 60601-1, EN 60601-1-11, IEC 60601-2-4

### Environmental

**Operating Temperature:** 0° to 50°C; 32° to 122°F

**Storage Temperature:** -30° to 70°C; -22° to 158°F

**Humidity:** 10% to 95% relative humidity, non-condensing

**Vibration:** IEC 60068-2-64, Random, Spectrum A.4, Table A.8, Cat. 3b; RTCA/DO-160G, Fixed Wing Aircraft, Section 8.6, Test Cat. H, Aircraft Zone 1 and 2; EN1789, Sweep per EN 60068-2-6 Test Fc

**Shock:** IEC 60068-2-27; 100G

**Altitude:** -381 m to 4573 m; 1,250 to 15,000 ft

**Particle and Water Ingress:** IP55

**Drop Test:** 1 meter; 3.28 ft

### Battery

**Battery Capacity:** Typical new battery running at an ambient temperature of +20° C to +25° C (68° F to 77° F) can provide: 140 defibrillator discharges at maximum energy (200 joules), or 6 hours of continuous monitoring (with 2-minute CPR periods) Note: CPR periods shorter than 2 minutes can decrease the operating time that can be obtained from a new battery.

**Type:** Disposable, sealed lithium manganese dioxide

**Battery Standby Life (once installed):** 5 years with weekly self-test. Battery end of life indicated by blank status window (typical remaining shocks: 9).

**Battery Shelf Life:** Store for up to 2 years at 23°C (77°F) prior to installing in ZOLL AED 3 BLS to maintain battery life detailed above.

**Temperature:** 0°C to 50°C (32°F to 122°F)

**Humidity:** 10% to 95% (non-condensing)

**Weight:** 317.5 grams; 0.7 lbs

**Size:** (H x W x D) 27.75 mm x 133 mm x 88 mm; 1.0 in x 5.16 in x 3.5 in

**Nominal Voltage:** 12 volts

### CPR Uni-padz

**Shelf Life:** 5 years

**Conductive Gel:** Polymer Hydrogel

**Conductive Element:** Tin

**Packaging:** Multilayer foil laminate pouch

**Impedance Class:** Low

**Cable Length:** 142 (+/-3.8) cm; 56 (+/- 1.5) in

**Design Standards:** Meets requirements of IEC 60601-2-4

### ZOLL AED 3 BLS Carry Bag

**Size:** (H x W x D) 29.2 cm x 27.4 cm x 17.8 cm; 11.5 in x 10.8 in x 7.0 in

**Weight:** 3.4 kg; 7.5 lbs (ZOLL AED 3 BLS with battery installed and CPR Uni-padz pre-connected in carry bag)

**Holds:** ZOLL AED 3 BLS with battery inserted and back-up set of CPR Uni-padz

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\*Battery standby life will be shorter in areas with low Wi-Fi signal strength and/or more complex Wi-Fi authentication protocols.

Specifications subject to change without notice.

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