

ZOLL AED 3®



Technical Specifications

Enhanced Real CPR Help®

The ZOLL AED 3® automated external defibrillator (AED) provides detailed CPR guidance with proprietary Real CPR Help® technology. More powerful full-color images and a CPR cycle timer, combined with voice and text prompts, help guide responders through the rescue. The Real CPR Help integrated, real-time CPR feedback tells and shows rescuers when they need to “Push Harder” or whether they are doing “Good Compressions,” so they know when they are administering high-quality CPR.

RapidShock™ Analysis

The ZOLL AED 3® with RapidShock® analysis enables the shortest rhythm analysis for more continuous care and more life-saving CPR. RapidShock analysis allows the ZOLL AED 3 to deliver a shock, if needed, in as little as 5 seconds. Minimising the pre-shock pause and providing more CPR can improve patient outcomes.*

Research shows that minimising time to shock after the CPR cycle ends may improve survival.¹ The AHA 2015 guidelines state: Shorter interruptions for shock delivery are associated with greater likelihood of shock success, greater likelihood of return of spontaneous circulation, and greater survival to hospital discharge.

Integrated Pediatric Rescue

Pediatric rescue is made easier with ZOLL's unique CPR Uni-padz® electrodes and a child-mode setting. Universal pad design provides rescuers a single solution to treat both adult and pediatric victims of SCA by using the same set of electrode pads and simply activating child mode.

Low Total Cost of Ownership

Longer-lasting 5-year battery and electrode pads reduce AED device maintenance requirements. Less maintenance can improve device readiness and has the added benefit of reducing the total cost of ownership over the life of your ZOLL AED 3 device.

Optional WiFi Connectivity

Easily manage your suite of devices via the cloud. ZOLL AED 3 devices are equipped with optional Wi-Fi connectivity allow seamless communication with AED program management systems through your wireless network. Once enabled, the ZOLL AED 3 will automatically report its readiness status, report a failed self-test, and will send email alerts so you can take the appropriate corrective action and make sure your AEDs are ready in an emergency.

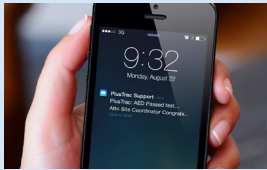
* On the ZOLL AED 3 Automatic, the pre-shock pause time is 5 seconds longer due to warning to stand clear of patient and shock countdown before delivery.



Real CPR Help® assists rescuers in delivering high-quality CPR by providing real-time feedback on chest compression rate and depth.



Activate child mode for paediatric rescue with CPR Uni-padz®.



Optional WiFi connectivity makes it easy to manage all your devices and receive immediate email updates on AED readiness status.



Universal CPR Uni-padz can be used for both adult and child rescues. They are the only pads that last 5 years and also include an integrated rescue kit.

ZOLL AED 3 Specifications

Defibrillator

Protocol: Semiautomatic and Fully Automatic configuration

Waveform: ZOLL Rectilinear Biphasic™

Defibrillator Charge Hold

Time: 30 seconds; ZOLL AED 3 Automatic model: 3 seconds prior to automatic shock delivery

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

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 RapidShock Analysis (semi-automatic) and less than 8 seconds (automatic) with new battery

Electrodes: ZOLL CPR Uni-padz®

Self-test: 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

Compression Depth: 1.9 cm to 10.2 cm; 0.75 in to 4 in

Defibrillation Advisory: Evaluates defibrillation pad 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 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

Data Recording and Storage: User-configurable for 1 or 2 clinical events for total of 120 minutes for each event. Includes ECG, impedance measurements, device prompts and CPR data.

Data Recovery: Controlled by touchscreen, uploaded to USB memory stick, or ZOLL Case Review™ over a Wi-Fi network

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 (with battery)

Power: Battery

WiFi-enabled devices: Wireless 802.11 a/b/g/n; Security Protocols, WPA1, WPA 2, WPA Personal, WPA Enterprise; Internal Clock Synchronization: Coordinated Universal Time (UTC) synchronization occurs when communicating with the ZOLL Online server.

Rescue Accessory Pack Contents: Non-latex gloves, a CPR barrier mask, razor, paper towel, and towelette.

Device Classification: Class II and internally powered per EN60601-1

Design Standards: Meets applicable requirements of EN 60601-1, IEC 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, EN 1789, Sweep per EN 60068-2-6 Test Fc.

Shock: IEC 60068-2-27; 100G

Altitude: -381 m to 4573 m; -1250 to 15,000 ft

Particle and Water Ingress: IP55

Drop Test: 1 meter; 3.28 feet

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*. 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 to maintain above battery life.

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, 2010

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*Snyder DE, et al. *Crit Care Med.* 2004;32(9) Supplement:S421-S424.

²AHA Guidelines for resuscitation 2015. Resuscitation:2015;Sec 8.5

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

Specifications subject to change without notice.

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