

AED 3

Technical Specifications



Measuring Chest Compressions with Real CPR Help®

The standard measure of chest compression efficacy during CPR is rate and depth. When Real CPR Help real-time CPR feedback detects chest compressions, the metronome encourages rescuers to compress at a rate of at least 100 compressions per minute. The CPR Uni-padz™ electrodes have a hand-placement locator with a built-in accelerometer and electronics that work with the ZOLL AED 3™ defibrillator to measure vertical displacement in space as each compression occurs. For adult patients, voice prompts tell rescuers when to “Push harder” and when they are doing “Good compressions.”

Program Management Onboard™

Every AED 3 is equipped with WiFi for seamless communication with your wireless network. Easily link your AED 3 to ZOLL’s PlusTrac™ AED program management system to monitor its status. At the conclusion of every automatic self-test (daily or weekly), your AED 3 reports results to PlusTrac. If the self-test fails, or if your AED 3 fails to report when scheduled, PlusTrac lets you know immediately.

Push Child Button for Pediatric Rescue

The CPR Uni-padz are truly universal. No need to keep an extra set of pediatric pads on hand in case the victim is a child. No need to change pads to move from one rescue type to another. No key needed either. If the victim is a child, just push the Child button. (When child rescue is selected, Real CPR Help omits the voice prompts and provides only the metronome when it detects compressions.)

CPR Uni-padz with Five-year Shelf Life

All AED electrodes transmit defibrillating electricity into the patient via metal in close contact with a salt-infused gel, which is positioned between the metal and the skin. Over time, however, the salt in the gel will corrode the metal and eventually compromise electrode functionality. ZOLL’s novel electrode design prevents significant corrosion for five years.



Real CPR Help® assists rescuers during adult rescues with real-time feedback on chest compression rate and depth.



Program Management Onboard™ connects via WiFi to the PlusTrac™ AED program management system for immediate email notifications.



Push the Child Button for pediatric rescue with CPR Uni-pad™.



The Rescue Accessory Pack contains barrier mask, razor, disposable gloves, paper towel, and towelette.

AED 3 Specifications

Defibrillator

Protocol: Semiautomatic, and fully automatic configuration

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, 75 J, 85 J)

Patient Safety: All patient connections are electrically isolated

Charge Time: Less than 10 seconds with new battery

Pre-shock Pause: 8 seconds with new battery

Electrodes: ZOLL CPR Uni-pad™

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 expiration; electrode connection, and expiration; ECG and charge/discharge circuits; microprocessor hardware and software; CPR circuitry and pads sensor; audio circuitry

Compression Depth: 1.9 cm to 8.9 cm; 0.75 in to 3.5 in (adult patients only)

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 pediatrics. For ECG analysis algorithm sensitivity and specificity, refer to AED 3 Administrator's Guide.

Patient Impedance Measurement Range: 0 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. 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 WiFi network

Device

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

Weight: 2.5 kg; 5.5 lbs

Power: Battery

Wireless: 802.11 a/b/g/n

Security Protocols: WPA 1, WPA 2, WPA Personal, WPA Enterprise

Port: USB 2.0

Rescue Accessory Pack Contents: Non-latex gloves, breathing 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, IEC60601-1-11, EN 60101 1-2-4

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

Shock: IEC 60608-2-27; 100G

Altitude: -91 m to 4573 m; -300 to 15,000 ft

Particle and Water Ingress: IP55

Drop Test: One meter

Battery

Type: Disposable, sealed lithium manganese dioxide

Battery Life: 5 years with weekly self-test, 3 years with daily self test. End of life indicated by blank status window (typical remaining shocks: 9).

Battery Capacity: Typical new battery (20°C); 170 defibrillator discharges at maximum energy (200 J) or 6 hours continuous monitoring. "Change Battery" warning appears after the equivalent of 115 maximum energy discharges.

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-pad

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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ZOLL AED 3 is not available for sale in the United States or Canada. The product has not received regulatory clearance/approval from the U.S. Food and Drug Administration or Health Canada.

Specifications subject to change without notice.

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