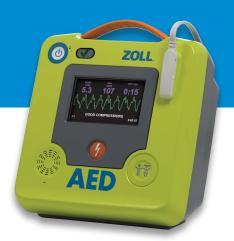# ZOLL AED 3™ BLS

Technical Specifications

CPR Dashboard™

CPR Dashboard is based on ZOLL's Real CPR Help® technology. For BLS-trained rescuers, the dashboard displays the actual depth and rate of each compression. If either falls outside of the Guidelines, the number will turn red. The Dashboard also shows the elapsed time since power on, remaining time countdown for the current CPR cycle, number of shocks delivered, and the patient's current ECG. A constant-click metronome guides the compression rate, and for adult patients, voice prompts tell rescuers when to "Push harder" and when they are providing "Good compressions."

Push-button Paediatric Rescue

The CPR Uni-padz used by the AED 3 BLS are truly universal. No need to keep an extra set of paediatric pads on hand that must be changed to rescue a child. No need to change pads to move from one rescue type to another. No key needed either. Just push the Child button for a paediatric rescue. (When paediatric rescue is selected, Real CPR Help omits voice prompts but otherwise provides the same information as in an adult rescue, including rate and depth of chest compressions.)

Wi-Fi Connection to RescueNet® CaseReview

Every AED 3 BLS is Wi-Fi equipped for seamless communication with your wireless network, making it easy to upload clinical event files to RescueNet CaseReview. With this next-generation tool, you can quickly deliver ECG data to the hospital and then summarise the full set of event files to analyse quality metrics.

ZOLL®

Display screen shows current rescue information and ECG in real time.

Real CPR Help® assists rescuers with real-time feedback for chest compression rate and depth.

Push the Child button to invoke paediatric heart analysis algorithm and reduce energy delivered.

The AED 3 BLS carry bag holds everything needed for fast defibrillation and high-quality CPR.

ADVANCING RESUSCITATION. TODAY.®

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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, 75 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: 8 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 expiration; electrode connection and expiration; 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 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 ZOLL 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: -1,250 to 15,000 ft; -381 m to 4573 m

Particle and Water Ingress: IP55

Drop Test: 1 metre; 3.28 ft

Battery

Type: Disposable, sealed lithium manganese dioxide

Battery Standby Life (once installed):): 5 years with weekly self-test, 3 years with daily self-test; 3 years* with weekly self-test when auto Wi-Fi self-test report is on (PlusTrac Cloud Connection); 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 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

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

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