

AED Plus®

Technical Specifications



More than CPR. This Is Real CPR Help®.

Only half of sudden cardiac arrest victims will initially need a shock, but all require high-quality CPR. ZOLL® offers the only AEDs that support rescuers with integrated text, voice, and visual prompts — Real CPR Help. Its real-time feedback on compression rate and depth helps rescuers administer high-quality CPR.

Smart Investment with a Low Total Cost of Ownership

Longer-lasting batteries and pads require fewer replacement parts, adding up to considerable cost savings over time and rescue readiness in a cardiac arrest emergency.

Intuitive One-piece Electrode Pad Design

Speed is of the essence when treating a victim of sudden cardiac arrest. ZOLL's CPR-D-padz® electrodes feature a unique one-piece, pull-strip design to ensure fast and accurate placement and to minimize the potential of pads being dropped or stuck together.

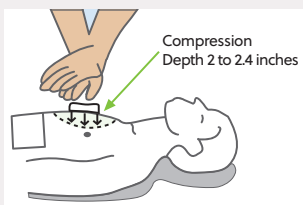
Designed to Be Durable

AEDs are often subjected to rough handling and extreme conditions during an emergency. The ZOLL AED Plus® is highly resistant to dust and moisture and has an ingress protection (IP) rating of 55, among the highest in the industry. It also meets IEC 68-2-27; 100G for shock and military (MIL Standard 810F).

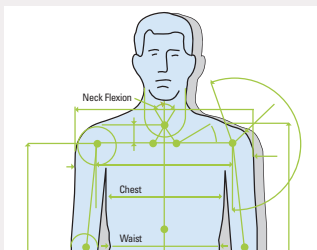
Options to Meet Your Preferred Shock Protocol

The ZOLL AED Plus is available in both semi-automatic (shock button manually pressed by rescuer if a shockable rhythm is detected) or fully automatic (AED automatically administers a shock if a shockable rhythm is detected).

ZOLL®



Real CPR Help provides unique assistance to rescuers with real-time feedback on CPR compression depth and rate.



ZOLL's one-piece CPR-D-padz electrodes are designed to fit 99% of the population's chest anatomy.



CPR-D-padz offer clear anatomical placement illustrations and a CPR hand positioning landmark.

AED Plus Specifications

Defibrillator

Protocol: Semi-automatic and Fully Automatic configuration

Waveform: ZOLL Rectilinear Biphasic™

Defibrillator Charge Hold Time: 30 seconds

Energy Selection: Automatic preprogrammed selection (120J, 150J, 200J)

Patient Safety: All patient connections are electrically isolated

Charge Time: Less than 10 seconds with new batteries

Electrodes: ZOLL CPR-D-padz, Pedi-padz® II or Stat-padz® II

Self-test: Configurable automatic self-test from 1 to 7 days. Default = every 7 days. Monthly full-energy test (200J).

Automatic Self-test Checks: Battery capacity, electrode connection, electrocardiogram and charge/discharge circuits, microprocessor hardware and software, CPR circuitry and CPR-D sensor, and audio circuitry

CPR: Metronome Rate: Variable 60 to 100 CPM

Depth: 3/4" to 3.5"; 1.9 to 8.9 cm

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 Plus Administrator's Guide.

Patient Impedance Measurement Range: 0 to 300 ohms

Defibrillator: Protected ECG circuitry

Display Format: Optional LCD with moving bar

Size: 2.6" x 1.3"; 6.6 cm x 3.3 cm

Optional ECG Viewing Window: 2.6 seconds

Optional ECG Display Sweep Speed: 25 mm/sec; 1"/sec

Battery Capacity: Typical new (20°C) = 5 years (225 shocks) or 13 hours continuous monitoring. End of life designated by Red X (typical remaining shocks = 9).

Data Recording and Storage: 7 hours of ECG and CPR data. If audio recording option is ordered and enabled, 20 minutes of audio recording, ECG, and CPR data.

PC Minimum Requirements for Configuration and Patient Data Recovery (not compatible with Mac OS): Windows XP, Windows 7, Windows 8, Windows 10, IBM-compatible PII with 16550 UART (or higher) computer. 64MB RAM. VGA monitor or better. CD-ROM drive. IrDA port. 2MB disk space.

Device

Size: (H x W x D) 5.25"x 9.50" x 11.50"; 13.3 cm x 24.1 cm x 29.2 cm

Weight: 6.7 lbs; 3.1 kg

Power: User-replaceable batteries. 10 Type 123A Photo Flash lithium manganese dioxide batteries

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

Design Standards: Meets applicable requirements of UL 2601, AAMI DF-39, IEC 601-2-4, EN60601-1, IEC60601-1-2

Environmental

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

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

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

Vibration: MIL Std. 810F, Min Helicopter Test

Shock: IEC 68-2-27; 100G

Altitude: -300 to 15,000 ft.; -91 m to 4,573 m

Particle and Water Ingress: IP-55

CPR-D-padz

Shelf Life: 5 years

Conductive Gel: Polymer Hydrogel

Conductive Element: Tin

Packaging: Multilayer foil laminate pouch

Impedance Class: Low

Cable Length: 48 in (1.2 m)

Sternum: Length: 6.1 in (15.5 cm); Width: 5.0 in (12.7 cm); Length, conductive gel: 3.5 in (8.9 cm); Width, conductive gel: 3.5 in (8.9 cm); Area, conductive gel: 12.3 sq in (79.0 sq cm)

Apex: Length: 6.1 in (15.5 cm); Width: 5.6 in (14.1 cm); Length, conductive gel: 3.5 in (8.9 cm); Width, conductive gel: 3.5 in (8.9 cm); Area, conductive gel: 12.3 sq in (79.0 sq cm)

Complete Assembly: Folded length: 7.6 in (19.4 cm); Folded width: 7.0 in (17.8 cm); Folded height: 1.5 in (3.8 cm)

Design Standards: Meets applicable requirements of ANSI/AAMI/ISO DF-39-1993

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