

# 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 nearly 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.

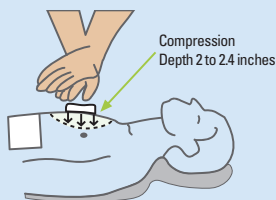
### Designed to be Durable

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 60825-2; 100G for shock and military (MIL Standard 883C).

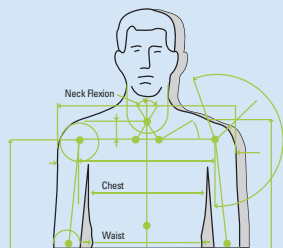
### Options to Meet Your Preferred Shock Protocol

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.



CPR-D-padz come complete with rescue essentials, including a barrier mask, a razor, scissors, disposable gloves, and a towelette.

ZOLL Medical Corporation  
Worldwide Headquarters  
269 Mill Road  
Chelmsford, MA 01824, USA  
978-421-9655  
800-804-4356

For subsidiary addresses and fax numbers, as well as other global locations, please go to [www.zoll.com/contacts](http://www.zoll.com/contacts).

## 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 140°F; -30° to 60°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

Specifications subject to change without notice.

©2019 ZOLL Medical Corporation. All rights reserved. AED Plus, CPR-D-padz, Pedi-padz, Real CPR Help, Stat-padz, ZOLL, and ZOLL Rectilinear Biphasic are trademarks or registered trademarks of ZOLL Medical Corporation in the United States and/or other countries. All other trademarks are the property of their respective owners.

MCN PP 1906 0375

**ZOLL**