The ZOLL PD 1200, combining defibrillation, pacing, and monitoring, offers complete ACLS-response capabilities in a single, easy-to-use unit that is ideal for critical and speciality-care areas. It can be configured with the ZOLL "hands-off" Multi-Function Electrodes, with standard defibrillation paddles and pacing electrodes, and with internal defibrillation paddles and pacing electrodes.

The ZOLL PD 1200 operates on both AC line and battery power and is completely compatible with all models in the ZOLL cardiac resuscitation system.
ZOLL PD™ 1200

SPECIFICATIONS

**Pacemaker**
- Type: VV demand, asynchronous (fixed rate) when used without ECG leads.
- Pulse Type: Rectilinear, constant current.
- Pulse Duration: 40 milliseconds.
- Pulse Amplitude: Variable to 140 mA.
- Pacing Rate: Variable from 30 to 180 PPM.
- Output Protection: Fully defibrillator-protected and isolated.
- Pacer On: Message display on monitor.

**Pacing/Defibrillation Electrodes**
Specially designed pre-gelled ZOLL Multi-Function Electrodes, and Multi-Function stat padz electrodes packaged in pairs. Can be used in the anterior/anterior position. Pediatric sizes available.

**Defibrillator**
- Waveform: Damped sinusoid.
- Output Energy Delivered: Selectable at 2, 3, 5, 7, 10, 20, 30, 50, 100, 150, 200, 300, 360 joules.
- Charge Time: Less than 10 seconds.
- Delivered Energy Display: CRT monitor displays delivered energy.
- Synchronized Mode: Synchronizes defibrillator pulse to patient’s R-wave. “SYNC” marker displayed on monitor. Marker on monitor and on recorder paper identifies R-wave.
- Internal Paddles: Output limited to 50 joules when internal paddles are connected. Discharge from paddles.
- Charge Controls: Control on apex paddle and front panel.
- Paddles: Standard paddles are anterior/anterior adult and pediatric. Adult paddles slide off to expose pediatric paddles.
- Defibrillation Electrodes: Specifically designed ZOLL Multi-Function Electrodes used in anterior/anterior or anterior/posterior positions; packaged in pairs.
- Integral Defibrillator Tester: Integral circuitry allows complete test of defibrillator charge and discharge without removing paddles from storage wells. Identical circuitry allows complete test of unit configured with multi-function cable.
- Defib On: Message display on monitor.

**Monitor and Display**
- Patient Connection: Via 3-lead ECG cable, paddles, and electrodes. Selectable by front panel switch.
- Input Protection: Fully defibrillator-protected. Special circuit prevents distortion of ECG by pacer pulse.
- Bandwidth: 5 – 40 Hz (–3dB) standard.
- Display Format: Nonfade, moving trace with freeze capability.
- Monitor On: Message display on monitor.
- Screen Type: High-resolution CRT display.
- Screen Size: 5 inches diagonally (100 mm x 85 mm viewing area).

**Sweep Speed:** 25 mm/sec.
- **Viewing Time:** 4 seconds.
- **Heart Rate:** Digital display on monitor 0 – 300 BPM.
- **Pacer Output Current:** Digital display on monitor 0 – 140 mA.
- **ECG Lead Selection:** Display on monitor.
- **ECG Size:** Display on monitor. User selectable High (60 – 280 BPM) Low (20 – 100 BPM).
- **Alarm On/Off Status:** Message display on monitor.
- **ECG Lead Off:** Pacer Electrode Off: Message display on monitor.
- **Paddle Fault:** Message display on monitor.
- **Electrode Fault:** Message display on monitor.
- **Recording Paper Out:** Message display on monitor.
- **Low Battery Voltage:** Message display on monitor.

**Diagnostic Self-Test**
- **Battery Charger:** Extended diagnostics – self-test mode.
- **Defibrillator:** Extended diagnostics – self-test mode.
- **Charge Time:** Less than 10 seconds.
- **Peak Delivered Defib Current:** Extended diagnostics – self-test mode.
- **Rate and Output:** Extended diagnostics – self-test mode.

**Recorder**
- **Paper:** Standard 40 mm thermal (grid width), 50 mm (paper width).
- **Speed:** 25 mm/sec.
- **Delay:** 4 seconds.
- **Annotations:** Time, date, defibr energy, heart rate, pacer output, sync, event marker, ECG size, lead, alarm, defibr test OK/Fail.
- **Writing Method:** High-resolution, thermal array print head.
- **Printout Modes:** Manual, automatic.
- **Automatic Function:** 15 second recording initiated by alarm conditions and defibrillator discharge.

**Batteries**
- **Type:** Rechargeable, sealed lead-acid.
- **Recharge Time:** 24 hours to full capacity.
- **Charger:** Integral to instrument; no separate charger unit required.
- **Service:** Battery is easily removed as a unit.
- **Low Battery Indicator:** Message display on monitor. Approximately 20 minutes of monitoring remain when message is displayed. Instrument will operate on AC power when batteries are depleted. Defibrillator charge time may be extended when batteries are depleted.
- **Operating Time:** 50 defibrillator charges to maximum energy (360J), or 2 hours of continuous monitoring, or 1.5 hours of continuous monitoring (place at 60 mA, 80 beats/min).

**General**
- **Size:** 18 cm high x 32 cm wide x 42 cm deep (7 x 12.6 x 16.5 in).
- **Weight:** 12 kg (27 lbs).
- **Power Requirements:** 115 VAC 60 Hz input or 220 VAC, 50 Hz input.
- **Power Consumption:** 50 watts maximum.
- **Warranty:** In North America: 5 years, including use of a loaner. Outside North America con suit ZOLL authorized representative.
- **Design Standards:** Meets or exceeds all AAMI specifications for defibrillators. Meets or exceeds UL 544, IEC 601, CSA standards for medical equipment.
- **Patient Safety:** All patient connections are fully isolated.
- **Temperature:** Operating: –0°C to 55°C.
- **Storage:** –40°C to 70°C.
- **Humidity:** 5% to 95% relative.

**Product Information**
- ZOLL PD 1200 8002-0011 Pacemaker/Defibrillator standard configuration includes the following: 1 set standard anterior/anterior defibrillator paddles (adult, pediatric), 1 ECG cable, 1 pacer output cable, 1 set adult electrodes, 1 set pediatric electrodes, 1 roll recorder paper, 2 operator’s guides, 1 tube defib gel, 1 inserve videotape.
- ZOLL PD 1210 8002-0101 Electrophysiology PD 1200 version for use with external programmable stimulator in electrophysiology studies.