

ZOLL X SERIES



ABOUT

The **Zoll X Series** is a compact defibrillator/monitor built for EMS and hospital transport use. It weighs under 12 pounds but still covers defibrillation, external pacing, and full patient monitoring, including ECG, NIBP, SpO2, EtCO2, temperature, and invasive pressure. During CPR, See-Thru CPR filters out compression artifact so rescuers can see the underlying rhythm without stopping, while the CPR Dashboard shows real-time depth and rate feedback. It charges in under 7 seconds and delivers a rectilinear biphasic shock at energies up to 200 joules. Built-in WiFi, Bluetooth, and a cellular modem let crews send case files to a hospital system right after a call.

FEATURES

Compact, Full-Featured Monitor: Weighs less than 12 pounds with battery and paper.

Fast Biphasic Defibrillation: Delivers a rectilinear biphasic shock in under 7 seconds, with energy settings up to 200 joules.

See-Thru CPR: Filters compression artifact so rescuers can see the underlying heart rhythm during chest compressions.

Full Patient Monitoring: An advanced monitor covering ECG, SpO2, NIBP, EtCO2, temperature, and up to three invasive pressure channels.

Built-In Wireless: Includes WiFi, Bluetooth, and a cellular modem for sending case files after a call.



DIMENSIONS

Height: 10.4 in (26.4 cm) (with Handle)

Width: 8.9 in (22.6 cm)

Depth: 7.9 in (20.1 cm)

Weight: 11.7 lb (5.3 kg) (with Battery and Paper)

SPECIFICATIONS



BATTERY

Type: Rechargeable Lithium-Ion, 11.1 Vdc, 6.6 Ah, 73 Wh

Capacity (*new, fully charged battery at room temperature*):

- At least 6 hours of continuous monitoring of ECG, SpO₂, CO₂, three Invasive Pressure channels, and 2 channels of Temperature, with NIBP measurements every 15 minutes and 10 200-joule shocks
- At least 300 shocks at 200 joules
- At least 3.5 hours of pacing, with ECG, SpO₂, CO₂, three Invasive Pressures, Temperature, NIBP every 15 minutes, and pacing at 180 ppm and 140 mA

Battery Indicators: 5 battery capacity LED indicators, fault indicator, recalibration indicator

Recharge Rate: 100% in 4 hours via battery charger, when initiated at Low Battery indication.

MONITOR / DISPLAY

Size: 6.5 in (16.56 cm) diagonal

Input: 3-lead, 5-lead, or 12-lead patient cable, paddles, or multifunction electrodes

Type: Color LCD, 640 x 480 pixels, 800 MCD

Sweep Speed (*user selectable*): 25 mm/sec or 50 mm/sec

Lead Selections: Paddles (*Pads*), I, II, III, AVR, AVL, AVF, V1-6

Frequency Response: (*user selectable*)

- 0.67 – 20 Hz Limited mode
- 0.67 – 40 Hz Monitor mode
- 0.25 – 40 Hz Filtered diagnostic mode
- 0.05 – 150 Hz Diagnostic mode

DEFIBRILLATOR / AED

Waveform: Rectilinear Biphasic

Energy Selections: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 30, 50, 70, 85, 100, 120, 150, 200 joules

Energy Display: Displays selected and delivered energy

Charge Time: Less than 7 seconds with a new, fully charged battery

Charge Controls: Front panel and on apex paddle

Pads/Paddles: Hands-free pads, with adult paddles that slide off to reveal pediatric electrodes underneath.

Synchronized Mode: Synchronizes defibrillator pulse to patient's R wave; "SYNC" message displayed on monitor with markers on both monitor and recorded ECG. Meets Clause 104 of AAMI DF80

PACER

Type: External transcutaneous pacing

Pulse Types: Rectilinear, constant current

Pulse Width: 40 ms $\pm$ 2 ms

Pacer Rate: 30 to 180 bpm $\pm$ 1.5%

Output Current: 0 to 140 mA $\pm$ 5% or 5 mA (*whichever is greater*)

Modes: Demand and Fixed

CPR FEEDBACK

See-Thru CPR: Filters out compression artifact so you can see the underlying rhythm during CPR

Real CPR Help: Real-time compression depth and rate feedback

CPR Dashboard: Numeric readout of depth and rate, release indicator, and perfusion performance indicator (PPI)

SPECIFICATIONS



ECG

Cable Detection: Automatic 3-, 5-, 12-lead ECG

Input: 3-lead cable, 5-lead cable, 12-lead cable, paddles, therapy cable

Leads: I, II, III, AVR, AVL, AVF, V1 – V6

Heart Rate: Range: 30 – 300 bpm; Accuracy: ± 3 bpm or 3%

ECG Sizes: 0.125, 0.25, 0.5, 1, 2, 4 cm/mV, and auto-ranging

PULSE OXIMETRY (MASIMO)

SpO2 Saturation Range: 1 – 100%

Pulse Rate Range: 25 – 240 bpm

SpCO: 0 – 99% range

SpMet: 0 – 99% range

SpHb: 0 – 25 g/dL measurement range

SpOC: 0 – 35 mL O2/dL of blood

Perfusion Index (PI): 0.02 – 20%

Pleth Variability Index (PVI): 0 – 100%

NON-INVASIVE BLOOD PRESSURE (NIBP)

Technology: Smartcuf and Sure BP

Measurement Intervals: Automatic 1, 2, 3, 5, 10, 15, 30, 60-minute, plus manual

Display: Systolic, diastolic, and mean

Pressure Measurement Range: Systolic 20 – 260 mmHg, Diastolic 10 – 220 mmHg, Mean 13 – 230 mmHg

Cuff Sizes: Neonate #1 – #5, Infant, Small Child, Small Adult, Adult Long, Large Adult, Thigh

ETCO2 (MICROSTREAM)

CO2 Range: 0 – 150 mmHg

Respiration Range: 0 – 149 breaths per minute

Typical Response Time: 2.9 seconds

RESPIRATION (IMPEDANCE PNEUMOGRAPHY)

Breath Rate Range: Adult/Pediatric 2 – 150 breaths/minute; Neonate 3 – 150 breaths/minute

Leads: Lead I (RA – LA), Lead II (RA – LL)

INVASIVE PRESSURE

Channels: Three

Pressure Range: -30 – 300 mmHg

Pulse Rate Measurement Range: 25 – 250 bpm

TEMPERATURE

Channels: Two, YSI 400/700 series-compatible

Range: 0 – 50°C (32 – 122°F)

Display: T1, T2, and Delta temp

TRENDS & MEMORY

Trend Intervals: 1, 5, 10, 15, 30, 60 minutes

Trend Duration: 24 hours at 1-minute intervals

Memory Capacity: 24 hours of trends at 1-minute intervals, 1,000 time-stamped events, and 32 snapshots (monitor, defibrillator, pacer, and treatment)

PRINTER

Type: High-resolution thermal array

Paper Width: 80 mm

Paper Speed: 25 mm/sec, 50 mm/sec

CONNECTIVITY

Integrated WiFi, Bluetooth, and USB cellular modem

Direct file transfer to RescueNet CaseReview software

Acquires, stores, and transmits 12-leads to RescueNet 12-Lead and RescueNet MedGate 12-Lead management systems