

# Zenix<sup>®</sup> Monitor/ Defibrillator

## EMS Technical Specifications



### General

**Weight:** 13.1 lb (5.94 kg) with battery

**Dimensions:** 9.5 in (24.1 cm) x 10.6 in (26.9 cm) x 8.7 in (22.1 cm)

**Enclosure Protection:**

Solid foreign object: EN 60529, IP5X  
Liquid: EN 60529, IPX5

**Operating Temperature:**

32 to 122°F (0 to 50°C)  
-4 to 140°F (-20 to 60°C) for 1 hour  
after resting at room temperature.

**Temperature:**

-22 to 41°F (-30 to 5°C)  
41 to 95°F (5 to 35°C) at  
non-condensing relative  
humidity up to 90%  
95 to 158°F (>35 to 70°C) at water  
vapour pressure up to 50 hPa

**Humidity:** 15 to 95%  
(non-condensing)

**Vibration:** 60601-1-12

EN 1789 for ambulance

RTCA DO-160G, Section 8,  
Category U

**Shock:** 60601-12, 100g, 6ms half sine

RTCA DO-160G Class A - 6G  
Crash Shock

**Drop:** EN 1789/EN 13718,  
(0.75 metre) functional drop,  
(2 metre) safety drop 60601

**Altitude:** -1,276 to 15,000 feet  
(-389 to 4,572 metres)

### Monitor/Display

**Type/Size:**

Colour LCD 800 x 600 touchscreen  
8.4 inch diagonally

**Display:** Up to 4 waveforms

### Defibrillator

**Waveform:**

Rectilinear Biphasic™ Waveform

**Patient Population:** Adult,  
paediatric, neonatal/infant

**Patient Impedance Range:**

15 to 300 ohms (hands-free  
electrodes or external paddles)

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

**Charge Time:** Less than 7 seconds  
with a new, fully charged battery at  
77°F (25°C) for 15 successive charges

**RapidShock<sup>®</sup>:** Shock/No Shock  
decision with pre-charge of the  
device in 4 to 5 seconds

**Advisory Defibrillation:**

Shock Advisory Function prompts  
rescuers through ECG analysis,  
shocks and CPR throughout a  
rescue event. The ECG is analysed  
with a shock/no shock decision  
provided to the rescuer

### Pacer

**Type:**

External transcutaneous pacing

**Pulse Types:**

Rectilinear, constant current

**Pulse Width:** 40 ms +/- 2 ms

**Pacer Rate:** 30 - 180 PPM  
(+/- 1.5% for Fixed Mode)

**Output Current:**  
10 - 140 mA +/- 5% or 5mA  
(whichever is greater)

**Minimum Pacer Output:** 10mA

**Modes:** Demand, Fixed

**Output Protection:** Fully defibrillator  
protected and isolated

### Cardioversion

Synchronised defibrillator pulse  
to patients' R wave

"SYNC" message displayed on  
monitor and markers shown on  
both monitor and recorded ECG

**ZOLL**<sup>®</sup>

## Real-Time Clinical Feedback

### See-Thru CPR®:

Removes compression-related artefact from the ECG via an adaptive filtering technique

**Real CPR Help®:** Real-time depth and rate feedback

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

**Real BVM Help®:** Provides ventilation feedback including rate and tidal volume in ml

**TBI Dashboard™:** Provides graphical trends for SpO<sub>2</sub>, Systolic BP, EtCO<sub>2</sub> and ventilation assistance

## ECG Monitoring

**Input:** 3-lead, 5-lead, 12-lead cables, paddles, therapy electrodes with MFC cable

**Lead Selection:** Paddles, pads, I, II, III, AVR, AVL, AVF, V1-V6

**Heart Rate Range:**  
0, 20 - 300 beats/minute

**Heart Rate Accuracy:**  
3 beats/minute or +/- 3%, whichever is greater

**ECG Size Range:**  
0.25, 0.5, 1, 2, 3, 4 cm/mV

**ECG Sweep Speed:** User selectable  
25 mm/sec or 50 mm/sec

## CO<sub>2</sub>

**Patient Population:**  
Adult, paediatric, neonatal/infant

**Accuracy for All Conditions:**  
+/- (0.3 kPa + 4% readings)

**Respiration Rate:**  
0 to 150 +/- 1 breaths/minute

**Warm-Up Time:** < 10 seconds  
(concentrations reported and full accuracy)

## Non-Invasive Blood Pressure

**Patient Population:**  
Adult, paediatric

**Method:** Oscillometry

**Control:** Automatic and manual measurement

**Auto Mode Intervals:**  
1, 2, 3, 5, 10, 15, 30, 60 mins

### Masimo RD SET SpO<sub>2</sub>

**SpO<sub>2</sub> Saturation Range:** 0 - 100%

**SpO<sub>2</sub> Saturation Accuracy:**  
No Motion:

Adult/paediatric/infant:

70 - 100%, +/- 2%

Neonate: 70 - 100%, +/- 3%

Motion: 70 - 100%, +/- 3% adults/paediatrics/infants/neonates

**SpO<sub>2</sub> Pulse Rate Range:**  
25 - 240 beats/minute

### Masimo RD Rainbow SET

**Masimo rainbow SET SpCO:**  
Range: 0 - 99%

**Accuracy:** 1 - 40%, ± 3%, Adults/paediatrics/infants

**Masimo rainbow SET SpMet:**  
Range: 0 - 99%

**Accuracy:** 1 - 15%, ± 1%, Adults/paediatrics/infants/neonates

**Masimo rainbow SET SpHb:**  
Range: 0 - 25 g/dL, 0-15.5 mmol/L, 0-250 g/L

**Accuracy:** 8-17 g/dL, 1 g/dL adults/paediatric

**Masimo rainbow SET SpOC:**  
Range: 0 to 35 ml/dL

**Masimo Perfusion Index (PI):**  
Range: 0.02% - 20%

**Masimo Pleth Variability Index (PVI):** Range: 0.02% - 100%

## Patient Log Files

**Full Disclosure Data storage:**  
Up to 150 patient cases with FIFO storage or to the maximum storage capability

### Printer / Recorder

**Type:** High resolution thermal array

**Annotation:** Snapshots, alarms, and treatment summaries

**Paper Width:** 80 mm

**Paper Speed:** 25 mm and 50 mm per seconds configurable

**Record Modes:** Manual or automatic configurable

### Battery

**Type:** Rechargeable lithium ion, 10.8 Vdc, 8.61 Ah, 93 Wh

**Capacity:** With a new, fully charged battery operating at room temperature: At least 4 hours of continuous monitoring with ECG, SpO<sub>2</sub>, CO<sub>2</sub>, three invasive pressure channels, two temperature channels, NIBP measurements every 15 minutes, wireless communication disabled, display brightness set to 10%, and volume set to medium

**Weight:** 1.5 lb (0.68 kg)

**Recharge Time:**  
5 hours to full charge, max. when charged by Zenix

**AC Power Adapter:** 100-240 VAC  
50-60 Hz, 160 VA

### External Data Transfer

**Data Transfer Port:** USB (Type A and C), WiFi, Bluetooth

**Monitor Port:** Video Out

**WiFi:** 802.11 a, b, g, n and ac

**Bluetooth:** 5.0

**Cellular:** External 4G Cat 4 cellular MiFi optional

## ZOLL Medical Corporation

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