

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

## Hospital Technical Specifications



### General

**Weight:** 5.99 kg (13.2 lbs) with battery

**Dimensions:** 23.9 cm (9.4 in) x 26.2 cm (10.3 in) x 21.8 cm (8.6 in)

**Enclosure Protection:**

Solid foreign object: EN 60529, IP3X

Water: EN 60529, IPX3

**Operating Temperature:**

0 to 40°C (32 to 104°F)

**Transport and Storage Temperature:**

-20 to 5°C (-4 to 41°F)

**Humidity:** 15 to 95%

(non-condensing)

**Vibration:** IEC 60068-2-64

**Shock:** IEC 60068-2-27, 50g, 6ms half sine

**Drop:** IEC 60068-2-31, 0.5 meters (18 in) functional drop

2 meter (78 in) IEC 60601-1 safety drop

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

### Monitor/Display

**Size:** 21 cm (8.4 in) diagonal

**Type:** Colour LCD 800 x 600 touchscreen

**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) 7 to 300 ohms (internal 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 25°C (77°F) for 15 successive charges

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

**Shock Sync™ technology:** Enables defibrillation energy delivery during the relaxation phase of the compression cycle when Zenix is used with authorised ZOLL CPR electrodes and AutoPulse\*

**Advisory Defibrillation:** Shock Advisory Function prompts rescuers through ECG analysis, shocks and CPR throughout a rescue event. The ECG is analysed with shock/no shock decision provided to 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 5 mA (whichever is greater)

**Minimum Pacer Output:** 10 mA

**Modes:** Demand, Fixed

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

### Cardioversion

Synchronised defibrillator pulse to patient's R wave.

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

### Real-Time Clinical Feedback

**See-Thru CPR<sup>®</sup>:** Removes compression-related artifact from the ECG via an adaptive filtering technique

**CPR Dashboard™ Featuring Real CPR Help<sup>®</sup>:** Activated when Zenix is used with authorised ZOLL CPR electrodes Real CPR Help<sup>®</sup> provides real-time depth and rate feedback via the CPR Dashboard™, with numeric readout of paediatric and adult depth and rate. Release indicator and perfusion performance indicator (PPI) also displayed for adult patients.

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

### ECG Monitoring

**Pads/Paddles:**

0.67 to 20Hz Limited response

3/5/12 Lead Continuous Monitoring (user selectable):

0.67 to 20Hz Limited response

0.67 to 40Hz Monitor response

Acquired 12-lead snapshots (supervisor selectable):

0.525 to 40Hz Filtered Diagnostic response

0.525 to 150Hz Diagnostic response

\*Available only in certain regions. Shock Sync has not been approved by the U.S. Food and Drug Administration

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

**Lead Selections:** Paddles, Pads, I, II, III, AVR, AVL, AVF, V1-V6

**Heart Rate Range:** 20 - 300 bpm

**Heart Rate Accuracy:**  
3 BPM 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

#### External Patient Monitor Connections

**ECG Output:** 1.0V/cm of deflection on recorder; <25ms delay from patient

#### CO<sub>2</sub> Mainstream

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

**ET Tube Diameter:**  
Single Patient Use (SPU)  
SPU Adult/paediatric: >4.0mm  
SPU Paediatric/neonatal/infant: ≤4.0mm

**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:**  
Oxygen Saturation (% SpO<sub>2</sub>) - During no motion conditions Adult/paediatrics/infant: 70 - 100%, +/-2%, Neonate: 70 - 100%, +/- 3% - During motion conditions 70 - 100%, +/- 3% adults/paediatrics/infants/neonates

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

#### Impedance Pneumography

**Displayed Data:** Numeric breath rate, Impedance waveform

**Breath Rate Range:** 2 to 150 bpm

**Breath Rate Accuracy:** 2% or ± 2 bpm, whichever is greater

**Displayed Breath Rate:** Average of the breath to breath rate in last minute with a maximum of 10 breaths.

**Leads:** Lead I (RA - LA), lead II (RA - LL)

**Sweep Speed:** 3.13 mm/s, 6.25mm/s, 12.5 mm/s

**Alarm Settings:** User configurable alarm with high and low limits

#### Patient Log Files

**Full Disclosure Data Storage:**  
Contains continuous waveform data, treatment markers, CPR data, 12-lead snapshots, monitor snapshots, automatic snapshots, trend records and vital signs numeric updates

**Full Disclosure Storage Capacity:**  
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:** 25mm and 50mm per seconds configurable

**Delay:** 6 second

**Record Modes:** Manual or automatic configurable

#### Battery

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

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

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

**Recharge Time:** 5 hours to fully 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 HDMI

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

**Bluetooth:** 5.0

#### Invasive Pressures

**Number of Channels:** 3

**Pressure range:** -30 to 300 mmHg

**Pressure Accuracy:** ± 2 mmHg or 2% of reading, whichever is greater, plus transducer error.

**Pulse Rate Range:** 25 to 250 BPM

**Pulse Rate Accuracy:** ± 3 BPM, or ± 3% of value whichever is greater

**Pulse Rate Display:** Average of last 5 beat-to-beat intervals.

**Warm up Time:** <15 seconds

**Zero Adjust:** + / - 200 mmHg

**Sensitivity:** 5uV/V/mmHg

**Offset:** ± 125 mmHg including offset

**Excitation Impedance Range:** 150 to 10,000 ohms

**Excitation Voltage:** 4.75 ± 0.25 VDC

#### Temperature

**Number of Channels:** 2

**Measurement Range:** 32 to 122° F (0 to 50° C)

**Accuracy:** +/- 0.1° C of reading + transducer accuracy

**Units:** Fahrenheit or Celsius

**Probe:** YSI 400 and 700 series

**Display:** T1, T2, ΔT

**Minimum Measurement Time:**

15 seconds. The Zenix device does not add any clinically significant time to obtain accurate readings.

## ZOLL Medical Corporation

269 Mill Road | Chelmsford, MA 01824 | +1 978-421-9655 | zoll.com

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