

Zenix[®] 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[®]: 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[®]: Removes compression-related artifact from the ECG via an adaptive filtering technique

CPR Dashboard[™] Featuring Real CPR Help[®]: Activated when Zenix is used with authorised ZOLL CPR electrodes Real CPR Help[®] 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[®]: 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

CO₂ 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 SpO₂

SpO₂ Saturation Range: 0 - 100%

SpO₂ Saturation Accuracy:
Oxygen Saturation (% SpO₂) - During no motion conditions Adult/paediatrics/infant: 70 - 100%, +/-2%, Neonate: 70 - 100%, +/- 3% - During motion conditions 70 - 100%, +/- 3% adults/paediatrics/infants/neonates

SpO₂ 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, SpO₂, CO₂, 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.

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Specifications subject to change without notice.

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