M50**Patient Monitor**

Portable monitoring solution for Ambulatory / Emergency care Intermediate care / Rehabilitation



Safety Standards

CE Marking in accordance to Council Directive 2007/47/EC concerning Medical Devices IEC 60601-1+A1+A2; IEC 60601-1-2+A1; IEC 60601-1-8

Physical Specification

Device dimension: 260 mm(L) x 140 mm(W) x 205 mm(H) Weight: Standard Configuration 3.6 kg

Color TFT LCD 8.4 Touchscreen Optional Resolution: 800 X 60 Traces Displayed: up to 8 800 X 600 dpi

Waveforms Displayed: up to 11 Various Working Interface Selectable: Standard Monitoring Display

Large Font Intensive Care Display Trend Graph/ Monitoring Co-Display Bed to Bed view Display (Optional) OxyCRG Dynamic View Display Drug Dose Calculation Interface

6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s

Environment Requirment

Ambient Temperature: -20 - 55°C (-4 -131°F)

Humidity: 15%-95% non-condensing

Power Supply

External Power Supply 100-240V AC, 50/60HZ

Pmax=80VA Internal Battery Power Supply

Rechargeable Li-ion 14.8 V DC Voltage: Capacitance: 2100 mAh (4200 mAh optional)

Battery working period: up to 6 hours

Recharging time < 150 minutes (2100mAh) < 360 minutes (4200mAh))

RESP

Method: Trans-thoracic impedance Operation mode: Auto/ Manual RR Measurement range:

Adult: 0~120 rPM Neonate/Pediatric: 0~150 rPM

Resolution:

Apnea alarm threshold: 10s,15s,20s (default),25s,30s,35s,40s

3 levels of audible and visual alarm, alarm events recallable

Band width: 0.2-2.5Hz (-3dB) 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s

5-lead and 3-lead selectable Lead tyne: 3 leadwire cable: RA; LA; LL or R; L; F

5 leadwire cable: RA; LA; RL; LL; V or R; L; N; F; C Lead selection: 3-lead: I; II; III; 5-lead: I; II; III; aVR; aVL; aVF; V Gain selection: x0.125:x0.25: x0.5: x1: x2: auto 6.25mm/s,12.5mm/s, 25mm/s, 50mm/s

Adult/Pediatric: 15-300bpm: Neonate: 15-350bpm

Resolution & accuracy: ± 1 bpm or ± 1 %, whichever is greater

Diagnostic mode: 0.05-150Hz Monitoring mode: 0.5-40 Hz Surgical mode: 1-20Hz

Protection: Withstand 5000VAC/50Hz voltage in isolation against Defibrillation and electrosurgical interference ST-Segment Detection:

Measurement range: -2.0 mV~2.0mV Alarm range: -2 0 mV~2 0mV

ST-Segment Arrhythmia analysis and catergorization : Yes ARR Alarm: 3 levels of audible and visual alarm, alarm events recallable Pace maker detection: Yes, and 5 types abnormal status detectable IEC 60601-2-25; AAMI EC 11/EC 13

Method: Automatic Oscillometric Operation modes: Manual/Automatic/Continuous Auto measurement time interval: Adjustable 1/2/3/4/5/10/15/30/60/90/120/240/480 Minutes Measurement unit: mmHg/kPa selectable Measurement types: Systolic, Diastolic, Mean

Pressure range for Adults: Systolic: 40 - 270 mmHg Diastolic: 10 - 215 mmHg

Mean: 20 - 235 mmHg Pressure range for Pediatrics: Systolic: 40 - 200 mmHr Diastolic: 10 - 150 mmHg

Mean: 20-165 mmHg Pressure range for Neonates: Systolic: 40 - 135 mmHg Diastolic: 10 - 100 mmHs

Mean: 20 - 110 mmHg Leak test and pressure auto calibration: Yes

Over-pressure protection: Dual Safety protection Resolution: 1mmHg

Max mean error ±5 mmHg Max standard deviation ±8 mmHg

Systolic, Diastolic, Mean PR from NIBP: Measurement 40~240 bpm Resolution 1 bpm

Accuracy ±3bpm or 3% whichever is greater Leak test and pressure auto calibration: Yes

IEC 60601-2-30

Measurement & Alarm Range: 0 - 100% Resolution: 1%; Accuracy: ±2% (70-100%, Adult/Pediatric); ±3% (70-100%, Neonate)

PR Measurement and Alarm Range: 30 - 300bpm Resoluton: 1 hnm·

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Refresh rate:

ISO 9919

SpO₂ (Optional, by nellcor OxiMax™)

Measurement & Alarm Range: 0 - 100% Resolution: ±2-3% (70-100%, Adult/Pediatric); ±3-3.5% (70-100%, Neonate) PR Measurement and Alarm Range: 20 - 300 bpm Resoluton: 3bpm (depends on probe) Accuracy:

Temperature (2 Channels, 1 probe by default)

Measurement /Alarm range: 0~50 (32-122 F) Probe type: Resolution: YSI (R Series) and CF-FI ±0.1°C (without probe) Accuracy: Dual-channel. Provide T1; T2; T IEC 12470-4

IBP (2 Channels, optional)

Measuremed Pressure:

ART, PA, CVP, RAP, LAP, ICP, P1,P2

 $\begin{tabular}{ll} \begin{tabular}{ll} \beg$ ± 2% or ± 1 mmHg, whichever is greater (without probe) 5 μV/V/mmHg;Impedance range:300-3000

CO₂ (Mainstream and Sidestream, optional) By Philips Respironics CAPNOSTAT® 5 & LoFlo™ Technology

mics CAPNUS 0~ 150mmHg 0~ 40mmHg, 41~70mmHg 71~100mmHg $\pm 10\%$ 101~150 mmHg

AwRR Accuracy: ±1 rpm
Convenient design for intubbated and non-intubated applications Possible to work at low sample flow rate: 50ml / minute
Detailed specification refer to the user manual of Respronics

Recorder (Optional)
Built-in, direct thermal pixel array recorder Up to 3 channels and 1,2,3channels selectable Print speed: 25mm/s, 50mm/s Paper width: 50 mm/Record width:48mm

I/O Interface

2-USB Ports SD Card Socket RJ-45 Ethernet Port. IEEE 802.3 VGA Output Analog & Nurse Call output Defibrillation Synchronization output WLAN Access Point 802.11g 54Mbps (optional)

EDAN

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ENG-PM-M50-V1.3-20110610 Features and specifications are subject to change without prior notice

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M50 Patient Monitor

The new generation of EDAN patient monitors M50 provides perfect transportation solution. The multifunctional all-in-one parameter module and new application platform greatly enhance the efficiency of full clinical parameter monitoring for patient transfer.

- 8.4" color TFT display with maximum 11 waveforms
- Pacemaker detection, electrosurgical interference proof
- Defibrillation protection and defibrillation synchronization
- Full touchscreen enables intuitive operation by clicking on the specific parameters or the waveform in real time, standard configuration includes the navigation knob
- OxyCRG available to judge the respiration and circulation function for neonates
- Large font display
- Arrhythmia and S-T segment analysis
- Built-in rechargeable Li-ion battery
- Nurse Call function and bi-directional communication with MFM-CMS central station
- SD card slot enables memory extension for large data storage
- USB and serial ports enables abundant future upgrades
- VGA output and analog output
- Complete and flexible mounting solution for different scenarios

Standard parameters: 3/5-lead ECG, EDAN SpO₂, RESP, NIBP, 2-Temp, PR, **Optional:** Touchscreen, Thermal Recorder, WLAN accessory, Nellcor-SpO₂, 2-IBP, Respironics CO₂ (for intubation and non-intubation application), 12V DC input







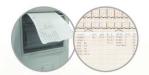


TouchScreen Operations



Easy to input and edit patient information Rich functions access by navigation panel at touch

Complete Documentation



Built-in thermal recorder provides fully annoted printouts that simultaneously document up to 3 waveforms and numeric figures for active vital signs.

Internal Review System



Graphical & Tabular Trend (up to 120hrs)



NIBP Review



Large Font



Barcode Scanner Support

Transport solution

