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Patient Monitoring Solutions

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PAVO **Vital Sign Monitor**

Features

- 8" color TFT LCD Screen (touch screen optional)
- Portable, lightweight and sturdy design
- Flexible parameters configuration for different clinical environments
- Rechargeable Li-ion Battery (up to 12 hours uninterruptable work)
- Big font and font color display setting
- Spot-check and continuous monitoring mode
- Selectable for Adult, Pediatric and Neonatal patients
- Wired/Wireless CMS, support HL7 protocol to HIS
- Barcode scanner support
- Thermal recorder support
- Graphical & tabular trend review
- 48 hours holographic wave review for each patient (stored in SD card)

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For Out-Patient Department, Spot-check, Transport, Ward and other Basic Monitoring.

Configuration	Optional
SpO2 + NIBP, Li-ion battery	Digital/Masimo SpO2, Quick Temp (Ear or Forehead), Barcode scanner
SpO2+NIBP+ECG+TEMP, Li-ion battery	Digital/Masimo SpO2, EtCO2, Quick Temp (Ear or Forehead), Barcode scanner, Thermal Recorder

Technical Specifications

Display

8" color TFT LCD Screen, resolution: 800 x 600

ECG

Lead type
- 3-lead: I, II, III
- 5-lead: I, II, III, aVR, aVL, aVF, V

Display sensitivity:
2.5 mm/mV (×0.25), 5 mm/mV (×0.5), 10 mm/mV (×1.0), 20 mm/mV (×2.0)
Wave sweep speed: 6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s
Bandwidth
- Diagnostic mode: 0.05Hz~100Hz
- Monitor mode: 0.5Hz~40Hz
- Surgery mode: 1Hz~20Hz
- Strong filter mode: 5Hz~20Hz CMRR >100dB

Notch: 50/60 Hz notch filter can be set to on or off
Differential input impedance >5 MΩ
Electrode polarization voltage range: ±400 mV
Baseline recovery time <3 s after defibrillation (in monitor and surgery mode)
Calibration signal: 1 mV (peak - peak), accuracy ±3%

RESP

Measurement method: Thoracic electrical bioimpedance
Rate: 0 – 150 bpm
Measuring lead: Lead I, II
Wave gain: ×0.25, ×0.5, ×1, ×2
Respiratory impedance range: 0.5-5 Ω
Baseline impedance: 500-4000 Ω
Gain: 10 grades
Scan speed: 6.25 mm/s, 12.5 mm/s, 25 mm/s

TEMP

Measurement method: Thermistor
Measuring range: 5~50 °C (41~122 °F)
Resolution: 0.1 °C
Measurement accuracy: ±0.1 °C

Recorder (optional)

Built-in, Thermal dot array
Horizontal resolution: 16 dots/mm (25 mm/s paper speed)
Vertical resolution: 8 dots/mm
Paper speed: 25 mm/s, 50 mm/s
Number of waveform channels: 3

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Technical Specifications

NIBP

Measurement method: Automatic oscillometric method
Operating mode: Manual, automatic, continuous
Measurement unit: mmHg/kPa selectable
Typical measurement time: 20~40 s
Measurement type: Systolic, Diastolic, Mean
Measurement range (mmHg)

Range of Systolic pressure:	Adult	40-270
	Pediatric	40-230
	Neonatal	40-135
Range of Diastolic pressure:	Adult	10-210
	Pediatric	10-150
	Neonatal	10-100
Range of Mean pressure:	Adult	20-230
	Pediatric	20-165
	Neonatal	20-110

Measurement accuracy
Maximum average error: ±5 mmHg
Maximum standard deviation: 8 mmHg
Resolution: 1 mmHg

Interval: 1, 2, 3, 4, 5, 10, 15, 30, 60, 90, 120, 180, 240, 480 minutes
Overpressure protection: Software and hardware, double safety protection
Cuff pressure range: 0-280 mmHg

Standard SpO2

Measurement range: 0-100%
Resolution: 1%
Accuracy: ±2% (70-100%, Adult/Pediatric);
±3% (70-100%, Neonate);
0-69%, unspecified
Refreshing Rate: 1s

Masimo SpO2 (optional)

Measurement range: 0-100%
Resolution: 1%
Accuracy: ±2% (70-100%, Adult/Pediatric), non-motion, low
±3% (70-100%, Neonate, non-motion);
±3% (70-100%, motion);
0-69%, unspecified
Refreshing Rate: 1s

Portable Design

Touch Screen
(Optional)


Quick Temp
(Infrared Ear Thermometer)

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Infrared Ear Thermometer (optional)

Displayed range: 34~42.2 °C (93.2~108 F°)
Operation ambient temperature range:
10~40 °C (50~104 °F)
Accuracy for displayed temperature range:

- ≥35 °C (95.9 °F) ~ ≤42.2 °C (107.6 °F) range
  ±0.2 °C (0.4 °F)
- <35 °C (95.9 °F) ~ ≥34 °C (93.2 °F) range
  ±0.3 °C (0.5 °F)

Phasein IRMA™ Sidestream CO2 (optional)

Warm-up time: Full accuracy within
10 seconds
Sampling flow rate: 50 ml/min (+/-10/min)
Accuracy: ± (0.2% +2% of the reading)
Measurement Range: 0 -15%
Rise time: 200 ms, typical at 50 ml/min
flow rate
Total response time: within 3 seconds
(with 2m Momoline sampling line)
AWRR Range: 0-150 bpm
AWRR Accuracy: ±1 breath

Phasein IRMA™ Mainstream CO2 (optional)

Measurement Range: 0-15%
Warm-up time: Full accuracy within 10 seconds
Accuracy: ± (0.2% +2% of the reading)
AWRR Range: 0-150 bpm
AWRR Accuracy: ±1 breath

Operation Environment

Power: AC 100-250 V, 50/60 Hz
Temperature: 0-40 °C
Humidity: 15-85%
Patient Range: Adult, Pediatric, Neonate
Battery backup: Standard 4-5 hrs (2.600 mAh), optional 8-10 hrs (5.200 mAh) or 12-15 hrs (7.800 mAh)

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