

CONTEC

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LIGHT THE RHYTHM OF LIFE WITH TECHNOLOGY



Patient Monitor

CMS8500

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Patient Monitor

CMS8500

The monitor has abundant functions that can be used for clinical monitoring with adult, pediatric and neonate. Users may select different parameter configuration according to different requirements. The monitor, power supplied by 100V-240V ~ 50Hz/60Hz, adopts 14" color TFT LCD displaying real-time date and waveform. It can synchronously display ten-channel waveform and full monitoring parameters equipped with an optional 48mm thermal recorder. The monitor can be connected to the central monitoring system via wire or wireless network to form a network monitoring system.

This device can monitor such parameters as ECG, RESP, NIBP, SpO₂, and dual-channel TEMP, etc. It integrates parameter measurement module, display and recorder in one device to form a compact and portable equipment. Its replaceable internal battery brings lot of convenient for patient moving.

Function

- 14" high-definition touch screen design, easy and convenient to operate, elegant and concise in appearance.
- Independent physiological and technical alarm function, convenient for medical staff to quickly know patient's condition.
- Adopt high-performance processor, stable, reliable and fast to process information.
- Patient information can be rapidly entered, patient type (adult / neonate / pediatric) can be quickly switched, meets the requirements of different departments.
- Abundant analysis functions: 23 arrhythmia, full-lead ST-segment and pacing analysis; multiple calculation functions (such as calculation of drug concentration, titration table, hemodynamics, ventilation, oxygenation, renal function, etc.).
- With the functions of waveform freezing, holographic waveform storage and review.
- Automatic data storage in case of power failure.
- Built-in large-capacity detachable lithium battery, ensures uninterrupted monitoring.
- Fanless design, ensures no noise and low power consumption during working.
- Connect to Central Monitoring System developed by our company by WiFi / Wired, convenient to transmit patient's real-time data.
- Standby mode, be applied to clinical monitoring, avoids affecting patient's rest, one-button switching, reduces the workload of medical staff.

Performance

ECG

- Lead type:
 - 3-lead: I, II, III
 - 5-lead: I, II, III, aVR, aVL, aVF, V
 - 12-lead: I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6
- Gain: 2.5 mm/mV, 5.0 mm/mV, 10 mm/mV, 20 mm/mV, 40 mm/mV
- Scan speed: 6.25mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s
- HR
 - Measurement and alarm range:
 - Adult: 15 ~ 300 bpm
 - Pediatric/neonate: 15 ~ 350 bpm
 - Resolution: 1 bpm
 - Accuracy: $\pm 1\%$ or ± 1 bpm, whichever is greater
- ST-segment detection
 - Measurement and alarm range: -2.0 mV ~ +2.0 mV
 - Accuracy: -0.8 mV ~ +0.8 mV: ± 0.04 mV or $\pm 10\%$, whichever is greater
 - Other range: unspecified
- Arrhythmia analysis: 23 kinds
- Pacemaker: yes

RESP

- Measurement mode: impedance
- Respiration rate:
 - Measurement range: 0 rpm ~ 150 rpm
 - Resolution: 1 rpm
 - Accuracy: 7 ~ 150 rpm, ± 2 rpm or $\pm 2\%$, whichever is greater; 0 ~ 6 rpm, unspecified
- Apnea alarm: 10 ~ 60 s
- Scan speed: 6.25 mm/s, 12.5 mm/s, 25 mm/s, 50mm/s

NIBP

- Measurement mode: Oscillometry
- Working mode: Manual/AUTO/Continuous/Order
- Measurement interval in AUTO mode: 1 min, 2 min, 2.5 min, 3 min, 5 min, 10 min, 15 min, 20 min, 30 min, 1 h, 1.5 h, 2 h, 3 h, 4 h, 8 h
- Measurement period in Continuous mode: 5 minutes
- Static pressure Measurement range: 0mmHg ~ 300 mmHg (0.0kPa ~ 40kPa)
- Resolution: 1 mmHg
- Cuff pressure accuracy: ± 3 mmHg
- Measurement accuracy:
 - Maximal mean deviation: ± 5 mmHg
 - Maximal standard deviation: 8 mmHg
- Over-pressure protection:
 - Adult mode: 297 ± 3 mmHg
 - Pediatric mode: 260 ± 3 mmHg
 - Neonatal mode: 147 ± 3 mmHg

SpO₂

- Measurement range: 0 % ~ 100 %
- Resolution: 1 %
- Accuracy: 70 % ~ 100 %, $\pm 2\%$; 0 % ~ 69 %, unspecified
- PR
 - Measurement and alarm range: 25 ~ 250 bpm
 - Accuracy: ± 2 bpm or $\pm 2\%$, whichever is greater

TEMP

- Channel: dual-channel
- Measurement range: 0 ~ 50 °C
- Resolution: 0.1 °C
- Accuracy: ± 0.1 °C

CO₂

- Measurement mode: mainstream or sidestream
- CO₂ measurement range: 0 ~ 150 mmHg
- Accuracy:
 - 0 ~ 40 mmHg: ± 2 mmHg 41 ~ 70 mmHg: $\pm 5\%$
 - 71 ~ 100 mmHg: $\pm 8\%$ 101 ~ 150 mmHg: $\pm 10\%$
- AwRR measurement range:
 - Sidestream: 2 ~ 120 rpm Mainstream: 2 ~ 150 rpm
- AwRR accuracy: ± 1 rpm
- Apnea alarm: yes

IBP

- Channel: 2-channel (Expandable 4-channel)
- Label: ART, PA, CVP, RAP, LAP, ICP, P1, P2
- Measurement and alarm range: -50 ~ 300 mmHg
- Resolution: 1 mmHg
- Accuracy: $\pm 2\%$ or 1 mmHg, whichever is greater

Power supply: 100V - 240 V ~ 50Hz/60 Hz

Safety class: class I, defibrillation-proof type CF applied part

Waterproof degree: IPX2