

LIGHT THE RHYTHM OF LIFE WITH TECHNOLOGY



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TS13 Patient Monitor



TS13 Patient Monitor



HD display



Wide viewing angle



Flat UI



Easy to clean



Fanless design



Auto brightness

The monitor is applicable for clinical monitoring in operating room, postoperative observation room, ICU/CCU ward, emergency room, etc. of adult, pediatric and neonate. The patient's vital parameters (ECG (including ST-segment measurement and arrhythmia analysis), RESP, SpO₂, PR, NIBP, TEMP, IBP and CO₂, etc.) can be monitored. Monitored information can be displayed, reviewed and printed and stored..

Function

- ◆ 13.3" 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.
- ◆ Luminous "ON / OFF" button design, convenient to operate at night.
- ◆ Modular design: the modules can be configured and combined flexibly and conveniently, expanded and upgraded at any time, meets the monitoring requirements of different departments on different parameters.
- ◆ Support dynamic hot-plugging parameter module: no need to restart the device, plug-and-play, change the monitoring parameters at any time as clinical requirements.
- ◆ 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; optional built-in memory card, achieves large-capacity data storage.
- ◆ With HDMI expansion interface, the display screen can be connected according to clinical requirements.
- ◆ Built-in large-capacity detachable lithium battery, ensures uninterrupted monitoring.
- ◆ Fanless design, ensures no noise and low power consumption during working.
- ◆ 3-channel built-in recorder used to print real-time waveform is optional.
- ◆ 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 ICU, avoids affecting patient's rest, one-button switching, reduces the workload of medical staff.
- ◆ upgradeable facility to EtCO₂ (Mainstream), Invasive Blood pressure (up to 4 simultaneously), Invasive Cardiac output, Continuous Cardiac Output (Non- invasive/ minimal invasive), EEG 4 channel or more, BIS and Multi gas (AGM).

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
 - ◆ Scan speed: 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: R-F (RA-LL) impedance
 - ◆ Respiration rate:
 - Measurement range:
 - Adult: 0 rpm ~ 120 rpm
 - Pediatric/neonate: 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 ~ 120 s, not alarm
 - ◆ Scan speed: 6.25 mm/s, 12.5 mm/s, 25 mm/s, 50mm/s

NIBP

- ◆ Measurement mode: Oscillometry
- ◆ Working mode: Manual/AUTO/Continuous
- ◆ 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
- ◆ Measurement and alarm range: 10 ~ 270 mmHg
- ◆ 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: 240 ± 3 mmHg
 - Neonatal mode: 147 ± 3 mmHg

CONTEC 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

Nellcor SpO₂

- ◆ Measurement range: 1 % ~ 100 %
- ◆ Measurement accuracy: 70 % ~ 100 %: $\pm 2\%$ (adult / pediatric); 70 % ~ 100 %: $\pm 3\%$ (neonate); 0 % ~ 69 %: unspecified
- ◆ Nellcor PR
 - Measurement range: 20 ~ 300 bpm;
 - Measurement accuracy: 20 ~ 250 bpm, ± 3 bpm; 251 ~ 300 bpm: unspecified;
 - Upper limit of alarm: upper limit - 2 ~ 300 bpm;
 - Lower limit of alarm: 20 bpm ~ lower limit + 2 bpm

Masimo SpO₂

- ◆ Measurement range: 1 % ~ 100 %
- ◆ Measurement accuracy:
 - 70 % ~ 100 %: $\pm 2\%$ (adult / pediatric, under conditions of no motion), $\pm 3\%$ (under conditions of motion)
 - 70 % ~ 100 %: $\pm 3\%$ (neonate, under conditions of no motion)
 - 1 % ~ 69 %: unspecified
- ◆ Masimo PR
 - Measurement range: 25 ~ 240 bpm
 - Measurement accuracy: ± 3 bpm (under conditions of no motion), ± 5 bpm (under conditions of motion)
 - Upper limit of alarm: upper limit - 2 ~ 240 bpm
 - Lower limit of alarm: 25bpm ~ lower limit + 2 bpm

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
- ◆ CO₂ resolution: 0.1 mmHg: 0 ~ 69 mmHg; 0.25 mmHg: 70 ~ 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: 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: 100 - 240 V ~ 50/60 Hz

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

Waterproof degree: IPX2