PCB MEDICAL
FAST. EFFICIENT. TRUSTED.

MULTI-PARAMETER PATIENT MONITOR · VSM SERIES · CONTINUOUS MONITORING

PCB-VSM-10

ABOUT THE PCB-VSM-10

Built for continuous patient monitoring.

The PCB-VSM-10 is a Multi-Parameter Patient Monitor designed to **continuously and accurately monitor adult, pediatric, and neonatal patients** across a wide range of clinical environments.

Equipped with a **10.1'' color touchscreen (1024×600)** and 7 selectable display interfaces, the system delivers clear visualization of ECG, Heart Rate, NIBP, SpO_2, Pulse Rate, Respiration, and Temperature — the seven core vital signs every general ward and post-operative unit needs.

Built for continuity, the integrated **Li-ion battery** ensures over 3 hours of operation. CF-type defibrillation-proof applied parts and IPX1 protection make it safe for use in OR, ICU, ED and recovery.

Compact, fanless, and ready for daily clinical use — the PCB-VSM-10 is engineered to perform when continuous monitoring matters.

10.1″ TFT TOUCHSCREEN

High-visibility clinical interface.

DISPLAY & CAPABILITY

DISPLAY LAYOUTS

- Standard view
- Big Font (vital signs)
- OxyCRG · Trend
- Holistic Waveform · Multi-Bed

ALARM SYSTEM

- Three-tier priority (High / Med / Low)
- Tri-color visual light
- Volume 1–10 · Auto limit · Latch
- Nurse-call output supported

CONNECTIVITY

- Ethernet RJ45 · Wi-Fi (optional)
- HL7 (parameters + waveform)
- HDMI output · USB 2.0 × 2
- Multi-bed central station view

DATA STORAGE

- Trend 1,200 / 2,400 / 7,200 hrs
- Holistic waveform: 48 hrs
- NIBP records: up to 5,000
- Alarm events: up to 5,000

TECHNICAL DATA

Complete specifications.

ECG / HEART RATE

- **Leads:** 3 / 5 / 12-lead (AHA & IEC)
- **HR Adult:** 15–300 bpm
- **HR Ped/Neo:** 15–350 bpm
- **Accuracy:** ±1 bpm or ±1%
- **Freq. Diagnostic:** 0.10–150 Hz
- **Freq. Monitor:** 0.67–40 Hz
- **CMRR Diagnostic:** >100 dB
- **CMRR Monitor/Surgical:** >110 dB
- **Defib recovery:** <3 s
- **Pacemaker:** detection & suppression
- **iMAC:** ST & arrhythmia algorithm

NIBP & SPO_2

- **NIBP method:** Oscillometric
- **Systolic:** 30–260 mmHg
- **Diastolic:** 10–220 mmHg
- **MAP:** 20–235 mmHg
- **Static accuracy:** ±3 mmHg
- **Modes:** Manual / Auto / Cont. / Seq.
- **Over-pressure protection:** 290 mmHg
- **SpO_2 range:** 0–100% (res. 1%)
- **Accuracy 70–100%:** ≤ ±2%
- **PR from SpO_2:** 30–250 bpm
- **PI:** 0.03–20% · FASP algorithm

RESPIRATION & TEMPERATURE

- **RESP method:** Impedance pneumography
- **Adult RR:** 0–120 rpm
- **Ped/Neo RR:** 0–150 rpm
- **Accuracy 8–150 rpm:** ±2 rpm or ±2%
- **Apnea delay:** 10–40 s
- **TEMP method:** Thermistor, dual ch.
- **Sites:** Surf · Ax · Ear · Oral · Rect · T1/T2
- **Range:** 25–45 °C (±0.2 °C)
- **Extended:** 0–24.9 / 45.1–50 °C (±0.4 °C)
- **Resolution:** 0.1 °C
- **ΔT:** display and alarm

Physical & safety

Compact, fanless monitor designed for portable and bedside use across ICU, OR, ED and general wards.

- Dimensions: ≤260 × 157 × 212.5 mm · Weight ≤4.70 kg
- AC 100–240 V, 50/60 Hz · Li-ion battery 14.6 V / 2500 mAh
- Class I / Internal Power · CF-type defibrillation-proof · IPX1

QUALITY & COMPLIANCE

Manufactured under international quality standards.

We develop and commercialize medical equipment under our own standards, supported by partnerships within a global production network and a strategic sourcing approach, which allows us to offer our distributors reliable, competitive solutions ready for international markets.

From product definition and technical specifications to branding, packaging, and documentation, we control every critical aspect of the process.

We have a service department in Asia and the United States that provides multilingual and immediate technical support, ensuring operational continuity for our distributors and their end customers.

USED ACROSS CLINICAL ENVIRONMENTS

OR / Surgical · Post-Operative Recovery · ICU / CCU · Emergency Department · General Ward · Adult · Pediatric · Neonatal