

MULTI-PARAMETER PATIENT MONITOR · VSM SERIES · 12.1" FOR ICU & OR

PCB-VSM-12



ABOUT THE PCB-VSM-12

Bigger screen for ICU, CCU and operating theater.

The PCB-VSM-12 is a Multi-Parameter Patient Monitor built around a **larger 12.1" color touchscreen** — suited for ICU / CCU, operating theater and intensive care settings where clinicians need **more screen real-estate** for waveforms, trends and multi-bed views.

Equipped with 7 selectable display interfaces, the system delivers clear visualization of **ECG, Heart Rate, NIBP, SpO₂, Pulse Rate, Respiration and Temperature** — the seven core vital signs every critical-care and OR team needs.

Built for continuity, the integrated **Li-ion battery** ensures over 3 hours of operation. CF-type defibrillation-proof inputs and IPX1 protection make it safe for surgical and intensive-care environments.

Compact, fanless, and ready for daily clinical use — the PCB-VSM-12 is the natural choice when departments need a bigger, clearer display.

12.1" TFT TOUCHSCREEN

High-visibility clinical interface.



— DISPLAY, ALARM & CONNECTIVITY

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 $\pm 1\%$
- **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 & SPO₂

- **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
- **SpO₂ range:** 0–100% (res. 1%)
- **Accuracy 70–100%:** $\leq \pm 2\%$
- **PR from SpO₂:** 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 $\pm 2\%$
- **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 monitor with 12.1" touchscreen designed for ICU, OR, CCU and post-operative recovery.

- 12.1" color LED touchscreen · 7 display interfaces
- 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

ICU / CCU

OR / Operating Theater

Post-Operative Recovery

Emergency Department

General Ward

Adult · Pediatric · Neonatal