

ICU VENTILATOR · ICV SERIES · INTENSIVE CARE

PCB-ICV1000

ABOUT THE PCB-ICV1000

Engineered for critical care.

The PCB-ICV1000 is a full-featured ICU ventilator engineered for demanding critical care environments. Designed to support both **invasive and non-invasive ventilation**, it delivers advanced respiratory management with precision and reliability.

Equipped with a **12.1" touchscreen interface**, the system provides intuitive control and real-time monitoring through six waveform displays, enabling faster and more informed clinical decisions. With **9 ventilation modes**, it adapts seamlessly to a wide range of patient needs across intensive care settings.

Built for continuity, the integrated **Li-ion battery** ensures over 3 hours of operation, maintaining performance during power interruptions or patient transport.

Reliable, versatile, and ready for critical care — the PCB-ICV1000 is designed to perform when it matters most.



9 ventilation modes

VCV, PCV, SIMV-VCV, SIMV-PCV, CAPA/PSV, APRV, BIPAP, PRVC, NIV, plus apnea backup ventilation for full coverage of invasive and non-invasive scenarios.



Li-ion battery

Built-in battery for 3+ hours of continuous operation during transport or power outages. Continuity of care is guaranteed even when mains power fails.



Wide patient range

Tidal volume 50–1,500 mL (optional 20 mL). Suitable for both adult and pediatric ventilation across the full ICU spectrum.

12.1" TFT DISPLAY

High-visibility clinical interface.



TOUCH SCREEN CAPABILITIES

REAL-TIME WAVEFORMS

- P-T (Pressure-Time)
- F-T (Flow-Time)
- V-T (Volume-Time)

LOOP DISPLAYS

- P-V Loop (Pressure-Volume)
- P-F Loop (Pressure-Flow)
- F-V Loop (Flow-Volume)

ALARMS & ALERTS

- On-screen parameter alarms
- Audible alerts with priority levels
- Gas supply / battery / circuit alarms

INTERACTION

- Easy mode switching via touch
- Intuitive control of all parameters
- High-contrast layout for fast decisions

TECHNICAL DATA

Complete specifications.

VENTILATION PARAMETERS

- Tidal Volume: 50–1500 mL (opt. 20–1500 mL)
- Inspiration Pressure: 5–80 cmH₂O
- Pressure Support: 0–80 cmH₂O
- Respiratory Rate: 1–120 bpm
- Inspiratory Time: 0.1–12.0 s
- Respiratory Ratio: 4:1 to 1:10
- PEEP: OFF, 3–50 cmH₂O
- FiO₂: 21–100 %
- Flow Trigger: 0.5–20 L/min
- Pressure Trigger: 0–20 cmH₂O

MONITORING & DISPLAY

- Flow & Volume: TVi, TVe, MV, MVspont
- Breath Rate: Total & Spontaneous
- Pressure: Ppeak, Pmean, Pplat, PEEP, Pmin
- I:E Ratio
- Respiratory Mechanics: P–V, F–V, P–F Loop
- FiO₂: 21–100 %
- Waveforms: P–T, F–T, V–T
- SpO₂*: SpO₂, Pulse, PI
- CO₂*: EtCO₂, FiCO₂, CO₂–T, Pleth

* Optional

ALARM PARAMETERS

- Respiratory Rate (high/low)
- Minute Volume (high/low)
- Pressure (high/low)
- Tidal Volume (high/low)
- SpO₂ (high/low)
- Apnea Time (0–60 s)
- FiO₂ (high/low)
- Gas Source Failure
- Battery Discharged / Low
- Circuit Occlusion
- O₂ Supply Down · Air Supply Down
- Mains Failure



Hospital-grade I/O and gas connections

Back panel provides standard O₂ and air inlets, exhaust port, and integrated power filtering. Built to operate continuously in ICU environments.

- Drive gas: O₂ + air, 280–600 kPa
- Universal AC power: 100–240 V, 50/60 Hz
- Standard ventilator circuit fittings



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 CRITICAL CARE ENVIRONMENTS

ICU

Critical Care

Adult ventilation

Pediatric ventilation

Transport ventilation

Emergency response

Post-surgical care