

Next Steps:

Discover how MAXPRAN can revolutionize your critical care ventilation. Contact us today for a demonstration or to learn more about integrating this advanced technology into your healthcare facility.



Caliber's MAXPRAN

An AI powered ICU Smart Ventilator

The Next Generation Smart Ventilator

Introducing MAXPRAN, a revolutionary leap in critical care ventilation. This dual-type, clinically adept device supports both invasive and non-invasive modes, catering to adult and pediatric patients alike. With its modular and portable design, MAXPRAN seamlessly integrates into any critical care system, providing instant, high-quality and cost-effective ventilation across a spectrum of clinical scenarios.

Key Features

1. Versatile Patient Care:

- o Suitable for both pediatric and adult patients
- o Handles acute phases of respiratory distress and weaning phases for recovery

2. Advanced Monitoring:

- o Remote monitoring capabilities
- o AI-based smart predictive analysis
- o Automatic monitoring of vital parameters
- o Real-time pressure adjustments for optimal respiratory function

3. Comprehensive Ventilation Modes:

Invasive Modes:

- o Volume control ventilation (VCV)
- o Pressure control ventilation (PCV)
- o Volume control - Synchronized intermittent mandatory ventilation (VC-SIMV)
- o Pressure control - Synchronized intermittent mandatory ventilation (PC-SIMV)
- o Pressure regulated volume control (PRVC)

Non-Invasive Modes:

- o Continuous positive airway pressure (CPAP)
- o Bilevel positive airway pressure (BiPAP)

4. Intelligent Analysis:

- o Analyze respiratory process including SpO2 and CO2
- o Alerts healthcare personnel to breathing pattern deviations

5. User-Friendly Design:

- o Intuitive interface for easy operation
- o Modular construction for seamless integration

Technical Specifications

Respiration Rate (RR)	1-120 BPM	Maneuvers	Oxygen therapy Oxygen Boost Oxygen suction support Inspiratory & Expiratory hold Manual Breath
Tidal Volume (VT)	100-2000 mL	Main Input	100 - 240V AC, 50-60 Hz
O2 Concentration (FiO2)	21-100%	Screen	15.6" LCD Touch screen
PEEP	0- 30 cm H2O	Alarm Features	Color Coded alarms based on priority, Stores history of last 500 logs
Peak Inspiratory Pressure	0 - 80 cm H2O	Trends	Storage of trends for last 24 hours , Important parameters with 1 hour backtime
I:E Ratio	1:6 to 6:1	Advanced Capabilities	Apnea support ventilation Lung Mechanics visualization Adaptive Lung protective ventilation External Humidifier and Aerosol therapy device Automatic compliance & Leakage compensation circuit
Inspiratory Time (Ti)	0 - 6 sec		
Inspiratory Flow rate	200 L/min		
Pressure Support	0 - 40 cm H2O		
Apnea Time	0 - 40 sec		
SIGH	ON/OFF		
Weaning Parameters	RSBI (Rapid Shallow Breathing Index)		
Waveforms	Pressure Flow Volume		
Loops	Pressure - Volume Loop Volume - Flow Loop		

Why Choose MAXPRAN

Intuitive User Interface:

Simplified operation reduces training time and ensures efficient care delivery.

RHM (Remote Health Monitoring) with Real-Time Alarms:

Monitor multiple patients from a centralized location, with instant alarms for critical changes, enabling timely interventions and enhanced clinical oversight.

Data Integration and Analytics:

Seamless integration with hospital systems for real-time analysis and proactive decision-making.

Regulatory Compliance:

Meets international standards for medical devices, ensuring patient safety.

Research-Friendly:

Generates detailed reports to aid in clinical studies and quality improvement initiatives.

