

Meditec Vista

Intensive Care Ventilator



Meditec England

The Meditec Vista is an advanced, microprocessor controlled, pneumatically driven ventilator that combines simplicity with the advantages of a modern ventilator. Designed for both Adult and Pediatric Patients, the ventilator provides consistent performance with user friendly operation.

Features:

- Large Touch Screen of 15” with Navigation knob
- Big Font Display for easy viewing
- Suitable for Adult and Paediatric Patients \geq 5kg
- Multiple Ventilation Modes:
VCV, PCV, SIMV-V, SIMV-P, PSV, SPONT/CPAP, Sigh, PRVC, BIPAP, NPPV, Standby, Manual
- Tidal Volume Range from 20ml - 2000ml in Volume Control Mode
- Advanced proportional solenoid technology ensures accuracy and stability
- Possibility of viewing 3 waveforms and 2 loops simultaneously on the same screen
- Choice of Invasive or Non-Invasive Ventilation
- User Friendly Screen layout
- Noiseless water free medical air compressor (optional)

Safety Features:

- Preset Three level priority based alarm system
- Detachable & Autoclavable Expiratory Valve for effective infection control
- SpO₂ Monitoring to avoid oxygen deficiency (optional)
- CO₂ Monitoring to ensure correct intubation and patient stability (optional)

Optionals:

- Medical Air Compressor
- Humidifier
- Nebulizer
- SpO₂ Monitoring
- CO₂ Monitoring

Measured Values

| | | |
|---------------|------------|------------|
| V_{Ti} | P_{plat} | C_{dyn} |
| V_T | P_{mean} | RC_{exp} |
| M_v | Resistance | RR |
| MV_{spnt} | C | Auto PEEP |
| $Freq_{spnt}$ | FiO_2 | NIF |
| P_{peak} | I:E | |
| PEEP | P 0.1 | |

Set Parameters

| | | |
|------------|-------------|-------------|
| T_i | P_{supp} | PS_{low} |
| PEEP | V_T | T_{apnea} |
| FiO_2 | ETS | P_{limit} |
| Freq | T_P | P_{trig} |
| P_{ins} | P_{high} | |
| F_{trig} | P_{low} | |
| P_{rate} | PS_{high} | |



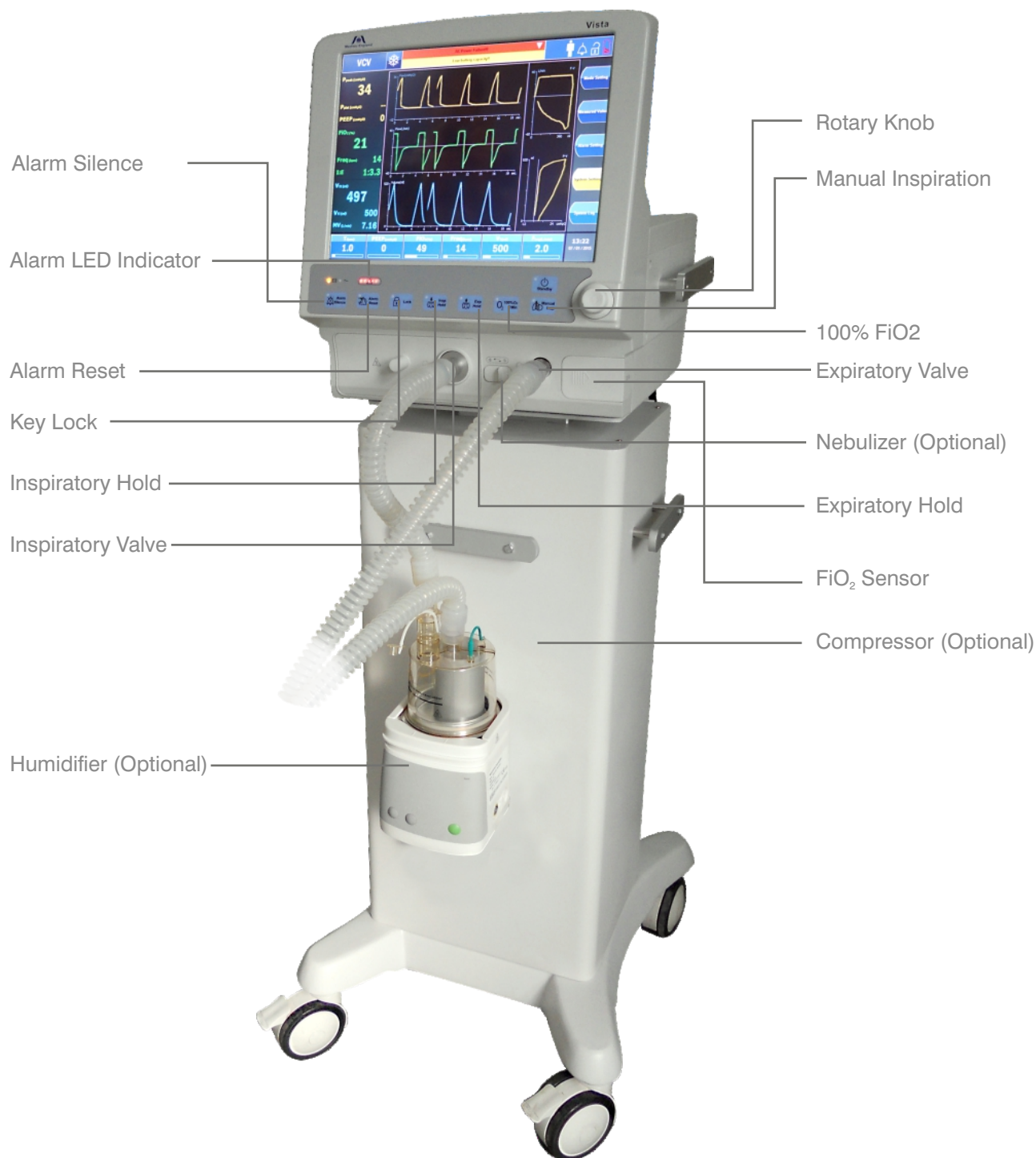
Big Font Display



Waveform and Loops Display



Multiple Screen Layout Options



Alarms:

- Audio and visual alarms with three levels
- Volume: V_{TE} high/low, MV high/low
- Pressure: Paw high/low
- O₂ / Air supply pressure high/low
- Apnea, Continuous high airway pressure
- Freq high/low, FiO₂ high/low
- SpO₂ low, EtCO₂ high/low
- AC power failure, Low battery power, Battery failure

Direct Access Buttons:

- 100% FiO₂ (2 minutes)
- Inspiration hold
- Expiration hold
- Manual
- Key Lock
- Standby
- Alarm Reset
- Alarm Silence

Technical Specifications

| | |
|------------------------------------|---|
| Patient type | Adult, Pediatric (>5kg) |
| Ventilation modes | VCV, PCV, SIMV(V) + PS, SIMV(P) + PS, SPONT/CPAP, Sigh PRVC, BIPAP, NPPV, Standby, Manual |
| Tidal Volume | 20~2000 mL |
| Drive mode | Pneumatically driven, electronically controlled |
| Ventilation frequency | 1~100 bpm |
| Inspiration time | 0.1~10S (increment:0.1S) |
| FiO ₂ | 21%~100% |
| Flow trigger | 0.5~20L/Min |
| Pressure trigger | -20~0 cmH ₂ O |
| Pressure control | 5~70 cmH ₂ O |
| Pressure support | 0~70 cmH ₂ O |
| Electronic PEEP | 0~50 cmH ₂ O (increment: 1 cmH ₂ O) |
| Nebulizer | 30 minutes |
| Direct access buttons | 100% O ₂ 2 min, Inspiration hold, Expiration hold, Manual, Key Lock |
| Onscreen Monitoring | Volume: V _{TI} , V _{TE} , MV, MV _{spont} , Pressure: Ppeak, Pmean, Pplat, Pmin, PEEP Freq, Fspont, I:E, FiO ₂ , Compliance, Resistance |
| CO ₂ module (optional) | EtCO ₂ |
| SpO ₂ module (optional) | SpO ₂ , PR |
| Waveform | Standard P-T, F-T, V-T, Optional: SpO ₂ -T, EtCO ₂ -T |
| Loop | Standard P-V, F-V, F-P, Optional: Volume-EtCO ₂ |
| Trend | Peak, FiO ₂ , PEEP, MV, V _{TE} , V _{TI} |
| System Log | 500 events (setting and alarm) |
| Alarm | Audio and visual alarms with three levels |
| | Volume: V _{TE} high/low, MV high/low; Pressure: Paw high/low |
| | O ₂ / Air supply pressure high/low, Air supply pressure high/low |
| | Apnea, Continuous high airway pressure |
| | Freq high/low, FiO ₂ high/low |
| | SpO ₂ low (optional), EtCO ₂ high/low (optional) |
| Communication Interface | VGA, RS232, RJ45 |
| Screen | 15 inch TFT touch screen |
| Internal Battery Backup | 60 Minutes |

Physical Specification

| | |
|------------|--------|
| Height | 1456mm |
| Width | 576mm |
| Depth | 543mm |
| Net weight | 25 kg |

Environmental Specifications

| | |
|---------------------------|--|
| Power | AC 100~240V, 50/60Hz DC 12V, 4.4Ah |
| Air/O ₂ Supply | Pressure 2.8~6kPa Flow >50L/min |
| Temperature | Operation 10°C~40°C Storage -20°C~55°C |
| Humidity | Operation <80%, non-condensing Storage <93%, non-condensing |



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