



# INTENSIVE CARE VENTILATOR

## ALTIMA

### Features

- Ergonomic & Sleek design with enhanced aesthetic
- Encoder Knob for ease of manoeuvring
- Tidal Volume range from 2mL to 3000mL
- Adult, Paediatric and Neonatal applications
- Feature rich ventilator equipped with Advance modes of Ventilation such as PRVC, MMV, PLV included in the package
- Lung Mechanics package such as RSBI, WOBI, Intrinsic PEEP, etc. included as a standard feature



15" Touch Screen Display



Universal Patient Range



Advance Modes of Ventilation



Inbuilt Air Compressor



RADIOLOGY



MONITORING



ANAESTHESIA



VENTILATION



SURGERY



VETERINARY



MEDICAL GASES



MOBILE HEALTHCARE

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## ALTIMA - TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION	
<b>Equipment Classification</b>	Class II, Type B	
<b>Power Supply</b>	External Source	100-240 VAC; 50/60 Hz
	Internal Source	11.1 VDC, 4400 mAh Li-ion Battery X 2
<b>Gas Supply</b>	Medical Oxygen	280 to 600 kPa
	Compressed Air	280 to 600 kPa
<b>Display Screen</b>	15 inch touch screen color TFT display	
<b>Functional Keys (In Display)</b>	Standby, Alarm Silence, 100%, Manual Insp, Insp Hold, Exp Hold, Occlusion Pressure, Touch Screen Lock, Nebulizer and Tracheal Gas Insuation, Freeze Graph	
<b>Rotary Encoder Knob</b>	To adjust and confirm parameters like ventilation setting, alarm settings. Green color for external source (AC supply) and Blue color for internal source (Battery).	
<b>Application</b>		
<b>Real Time Graphics</b>	Waveform	Pressure vs. Time, Flow vs. Time, Volume vs. Time
	Loop	Pressure vs. Volume, Volume vs. Flow, Pressure vs Flow
	Bar	Airway Pressure
<b>Ventilation Modes</b>	<b>All modes can be :</b>	VCV (can be assisted), PCV (can be assisted), PRVC (can be assisted), PLV (can be assisted), V-SIMV + PS, P-SIMV + PS, CPAP + PS + Backup (VCV/PCV), DualPAP + PS + Backup (VCV/PCV), MMV + Backup(VCV/PCV), VS + Backup(PRVC)
	1. Invasive Modes	
	2. Non Invasive Modes	

Ventilation Setting Parameters	Range	Ventilation Monitoring Parameters	Range
Tidal Volume	02~3000 mL	High Pressure (DualPAP)	5~90 cmH2O
Respiratory Rate	1~180 bpm	Low Pressure (DualPAP)	0~45 cmH2O
Inspiratory Flow	0~180 L/min	High Time (DualPAP)	0.1~59.9 sec
Inspiratory Time	0.05~30 sec	Low Time (DualPAP)	0.2~59.9 sec
Inspiratory Pause	0~70 %	O <sub>2</sub>	21~100 %
Inspiration to Expiration Ratio	1:599~299:1	Flow Trigger	0~30 L/min
Pressure Control	5~120 cmH2O	Pressure Trigger	0~-20 cmH2O
Pressure Support	0~120 cmH2O	Pressure Rise	0~2 sec
Positive End Expiratory Pressure	0~50 cmH2O	Expiratory Sensitivity	5~80 %
Pressure Limit	0~120 cmH2O	Patient Height (BMI Mode)	10~250 cm
Nebulizer	5~8 L/min (manually operated)	Volume/Weight (BMI Mode)	4~10 mL/kg
Tracheal Gas Insuation	5~8 L/min (manually operated)	Inspiratory Flow Waveform	Square, Descending, Ascending, Sine
<b>Ventilation Monitoring Parameters</b>	Tidal Volume, Minute Volume, Respiratory Rate, Measured Flow, Positive End Expiratory Pressure, Oxygen Concentration, Occlusion Pressure, Ti / T total, Rapid Shallow Breathing Index, Inspiratory Time, Expiratory Time, Inspiration to Expiration Ratio, Peak Airway Pressure, Mean Airway Pressure, Inspiratory Plateau Pressure, Static Compliance, Dynamic Compliance, Imposed Work of Breathing.		
<b>Alarm Setting Parameters</b>	Tidal Volume, Minute Volume, Respiratory Rate, Peak Airway Pressure, Positive End Expiratory Pressure, Oxygen Concentration, Apnea Alarm Time, Alarm Auto Range, Alarm Silence Time		
<b>Audio-Visual Alarms</b>	High Priority	Apnea, Obstruction, Disconnection, Airway Pressure High, Airway Pressure Low, Tidal Volume High, Tidal Volume Low, O2 Supply Low, Air Supply Low, Battery Low, Check Battery, Communication Breakdown, Inoperative Equipment.	
	Medium Priority	No AC Power, Check Leakage, Check Flow Sensor, Minute Volume High, Minute Volume Low, Rate High, Rate Low, PEEP High, PEEP Low, FiO2 High, FiO2 Low, Limited Pressure.	
<b>Weight &amp; Dimensions (LXDXH)</b>	64 Kg (with medical air compressor) & 711 x 508 x 1270 in mm		
<b>Standard Accessories</b>	AC power cord, High pressure hose with DISS connector for oxygen and air, Pipeline water trap for oxygen and air, Reusable dual limb patient circuit for adult, NIV Mask for adult, Compliance test lung for adult, Distal ow sensor (hot wire type) with cable, Galvanic oxygen sensor (inbuilt), Circuit holder arm.		
<b>Optional Accessories</b>	Air compressor (inbuilt), Humidier, Reusable dual limb patient circuit for pediatric/neonate, Disposable dual limb patient circuit for adult/pediatric/neonate, NIV Mask for pediatric/neonate, Compliance test lung for pediatric/neonate, distal flow sensor.		
<b>Air Compressor (inbuilt) (optional)</b>	Compact size and integrated medical grade air compressor operated on AC power supply, capable to provide a continuous air ow of 70 L/min and peak ow of 180 L/min with inbuilt pressure indicator, Optional : Provision to automatically switch over to air pipeline source(if sucient pipeline pressure is available) and switch back to compressor (if air pipeline pressure is depleting).		

\*Specifications, design and / or accessories listed in the catalogue subject to change without prior notice

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