

Technical Data-sheet

Physical Specifications

Dimension	1395mmx530mmx674mm with trolley 651mmx401mmx298mm excluding trolley
Weight	Approximately 45 Kg (including trolley) Approximately 25 Kg (excluding trolley)
Screen	15.6" Color TFT Touch Screen
Resolution	1920x1020 Pixels
Brightness	Adjustable

Ventilation

Patient Type Adult/Paediatric/Neonatal

Ventilation Modes V-A/C (Volume assist/control), P-A/C (Pressure assist/control), V-SIMV (Volume-synchronised intermittent mandatory ventilation), P-SIMV (Pressure-synchronised intermittent mandatory ventilation), Duo-Level (Duo level ventilation), CPAP(continuous positive airway pressure), PSV (Pressure Support Ventilation), VS (Volume support), APRV (Airway pressure release ventilation), PRVC (Pressure regulated volume controlled ventilation), PRVC-SIMV, AMV(Adaptive minute ventilation), PSV-ST (Pressure support ventilation spontaneous-timed), nCPAP(nasal CPAP), NIV (Non invasive ventilation), Apnea Ventilation

Control Parameter

O2%	21-100 vol%
Tv (Tidal Volume)	Adult : 100 to 4000 mL Paediatric : 20 to 300 mL Neonatal : 2 to 100 mL
MV %	25% to 350%
f (Respiratory rate)	Adult / Paediatric : 1 to 100 /min Neonatal : 1 to 150 /min
f-SIMV	1 to 60 /min
I:E	1:10 to 4:1
Ti (Inspiratory Time)	0.10 to 10.00 s
Tslope (Pressure Rise Time)	0.00 to 2.00 s
Thigh	0.10 to 30.00 s
Tlow	0.20 to 30.00 s
Tpause	Off, 5% to 60%
Pinsp	1 to 100 cmH2O
Psupp	0 to 100 cmH2O

Phigh	0 to 100 cmH2O
Plow	0 to 50 cmH2O
PEEP	0 to 50 cmH2O
Flow Trigger	Off, Adult/Paediatric: 0.5 to 30 LPM Neonate: 0.1 to 5.0 LPM Off, -20.00 to -0.5 cmH2O
Pressure Trigger	
Exp%	Auto, 5% to 85%

Monitoring Parameter

Airway Pressure	Ppeak, Pplat, Pmean -20 to 120 cmH2O PEEP (0 to 120 cmH2O)
Tidal Volume	Tvi, Tve, Tve-spn (0 to 6000mL)
Frequency Range	ftotal, fmand, fspn (0 to 200/ min)
Minute Volume	MVi, MVe, MVleak, MVspn Adult/paediatric: 0 to 100 LPM Neonatal: 0 to 30 LPM
Resistance	Rinsp, Rexp(0 to 600 cmH2O/L/s)
Compliance	Cstat, Cdyn (0 to 300 mL/cmH2O)
Inspired O2 (FiO2)	15 to 100 vol.%
RSBI	0 to 9999 1/(min*L)
WOB	WOBtot, WOBvent, WOBimp, WOBpat (0 to 100 J/min)
P0.1	-20 to 0 cmH2O

NIF	-45 to 0 cmH2O
PEEPi	0 to 120 cmH2O
Vtrap	0 to 4000mL
RCexp	0 to 10s
TVe/IBW	0 to 50 mL/kg
I:E	150:1 to 1:150
Tinsp	0.00 to 60.00s
PIF (Peak Inspiratory Flow)	Adult/Paediatric: 0 to 300 LPM Neonate : 0 to 30 LPM
PEF (Peak Expiratory Flow)	Adult/Paediatric: 0 to 180 LPM Neonate : 0 to 30 LPM
EEF (End Expiratory Flow)	Adult/Paediatric: 0 to 180 LPM Neonate : 0 to 30 LPM
C20/C	0.00 to 5.00
Waveforms	Airway Pressure-Time, Flow-Time, Volume-Time, CO2-Time, Pleth-Time
Loops	Paw-Volume, Flow-Volume, Paw-Flow, Volume-CO2

Apnea Ventilation

Papnea	1 to 100 cmH2O
Tvapnea	Adult : 100 to 4000 mL Paediatric : 20 to 300 mL Neonatal : 2 to 100 mL
Apnea Tinsp f (Respiratory rate)	0.10 to 10.00 s Adult / Paediatric : 1 to 100 /min Neonatal : 1 to 150 /min

Sigh

Sigh Switch	ON,OFF
Interval	20s to 180min
Cycles Sigh	1 to 20
int. PEEP	OFF, 1 to 40 cmH2O

Automatic Tube Resistance Compliance

Tube Type	ET tube, Trach Tube, Disable ATRC
Tube I.D.	Adult : 5.0 to 12.0 mm Paediatric : 2.5 to 8.00 mm Neonatal : 2.5 to 5.00 mm
Compensate Expiration	1 to 100%
Compliance switch	ON, OFF

O2 Therapy

O2%	21-100 vol%
Flow	Adult : 2 to 60 LPM Paediatric : 2 to 25 LPM

Leakage Compensation

Maximum Leakage Compensation Flow	Adult : 65 LPM Paediatric : 45 LPM Neonatal : 15 LPM
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Data Storage

Trends	
Type	Tabular, Graphics
Length	120 hours
Content	Monitor Para., Settings Para. Setting ventilation mode and parameter
Log	
Type	Alarm, Operation
Max Number	5000

Screen Capture

Max Number	20 pictures
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Environment

Temperature	10 to 40°C
Relative Humidity	10 to 95%
Barometric Pressure	50 to 106 kPa

Air Supply

Maximum Output Flow	200 L/min (BTPS)*
Maximum Output Pressure	80 cmH2O

Power & Battery Backup

Power Input Voltage	10 to 40°C
Power Input Frequency	50/60 Hz
Power Input Current	2.8 to 1.2 A
Fuse	220V/5.0A
Number Of Batteries	One or Two
Battery Type	Build-in Lithium-ion battery, 11.3 VDC, 5600 mAh
Battery Run Time	90 min (Powered by one new fully-charged battery in standard working condition)* 180 min (Powered by two new fully-charged battery in standard working condition)

Special Functions

100% O2 Suction, Nebulization, Manual Breath, Inspiratory Hold, Expiratory Hold, PEEPi, P0.1, NIF, PV-Tool, Weaning Tool, Lung Recruitment Tool (SI), Alveolus Ventilation Calculation

Alarms

Audio And Visual Alarms

Volume: Tidal Volume (Low/High), Minute Volume (Low/High)

Pressure: Airway Pressure (Low/High), PEEP Too High, Pressure Limitation,

Others: Frequency (Low/High), Inspired Oxygen (FiO2) (Low/High), Apnea Alarm Time (Low, 5-60s), Airway Obstruction, Tube Disconnected, O2 Supply Pressure High/Low/Fail, Apnea, Apnea Backup, Freq High/Low, Expiatory Block, Gas Supply Pressure Low

Power: Low Battery Voltage, AC Power Fail



Optional Hardware	Prime	Advance	Neo	PRO
spO2 Port	-	✓	+	✓
EtCO2 Port	-	✓	+	✓
DC-Input	-	✓	+	✓
Cuff Monitoring	-	-	-	+
Wifi connectivity	-	✓	+	✓
Nurse call System	-	✓	+	✓
Neonatal Ventilation	-	+	✓	✓
Dual Battery System	-	✓	+	✓
Humidifier Integration	-	+	+	+
Paramagnetic O2 Sensor	-	+	-	+
Auxiliary Pressure monitoring	-	-	-	+
External Display connectivity	-	-	+	✓

Standard Configuration

Adult-Paediatric Ventilation with minimum Tidal volume of 20ml, 15" color touch screen display, Single battery, RS232 connectivity, HDMI output, Inbuilt Nebulizer, eUV filter, Sterilizable breathing cassette

Standard Modes

V-A/C (Volume assist/control)
 P-A/C (Pressure assist/control)
 V-SIMV (Volume-synchronised intermittent mandatory ventilation)
 P-SIMV (Pressure-synchronised intermittent mandatory ventilation)

Optional Software	Prime	Advance	Neo	PRO
Dark-Light Theme	✓	✓	✓	✓
Non-Invasive Ventilation	+	✓	+	✓
Neonatal Ventilation & NCPAP	-	+	✓	✓
High Flow O2 Therapy	+	✓	✓	✓
Smart Ventilation	+	✓	-	✓
Smart-Lung	+	✓	-	✓
PV Tool	+	+	-	✓
Onscreen Help	-	-	+	✓
DualPAP & APRV	+	✓	+	✓
PRVC & PRVC-SIMV	+	✓	+	✓
VS & PSV-ST	+	✓	-	✓
ATRC & Intellicycle	+	✓	-	✓
Weaning & NIF	+	+	+	✓
PEEPi & P0.1	+	+	+	✓
SI & Alv Vent Calculation	+	+	+	✓
Multi Presets	-	+	✓	✓
Loops & Trends	+	✓	+	✓
Remote & Central Monitoring	-	+	+	✓
Swipe & screen Customisation	+	✓	✓	✓

+ Standard
✓ Upgradable
- Not available