

# iVent - 3500

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## Ventilator



270° rotatable



15" HD touch screen



Shortcut hard keys

## ►► Intuitive designs for the ease of use

### ● Multiple Display Formats

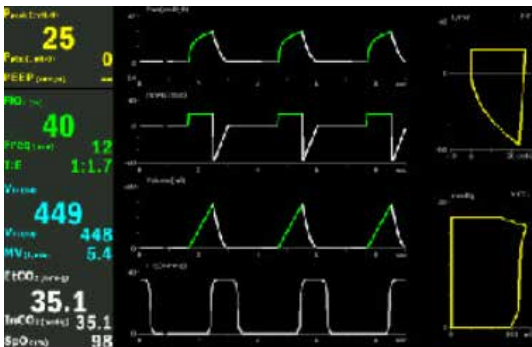
Multiple display formats are available to meet different clinical needs. Up to 4 waveforms and 2 loops can be shown simultaneously. Views of Trend and Big Front are also available for choice.

### ● Easy Maintenance

The expiration valve can be easily detached by bare hands and it is auto—clavable for The prevention of cross contamination. Cell of oxygen sensor can be replaced Through The side door without disabling the ventilator.

### ● Intelligent Suction Protocol

Press The shortcut hard key to start Suction function. The supply of 100% O<sub>2</sub> will stop and the suction function starts automatically if disconnection of patient tubing is detected; supply of 100% O<sub>2</sub> resumes after re-connection.



## ►► Purshing the greatest patient comfort

### Base Flow Control Technology

A SLhmn base flow remains m the respwatory orcuit in order to detect pareils' nspwalory allons at the every first munent improng rrspraliun tniggu.

### Smart Apnea Support

Under supportive venttcn modes, it no bream' .5 Inggvred a4tec the set Apoes Time, Apnea Alarm wd be activate and bacicts, ventlatoi will start

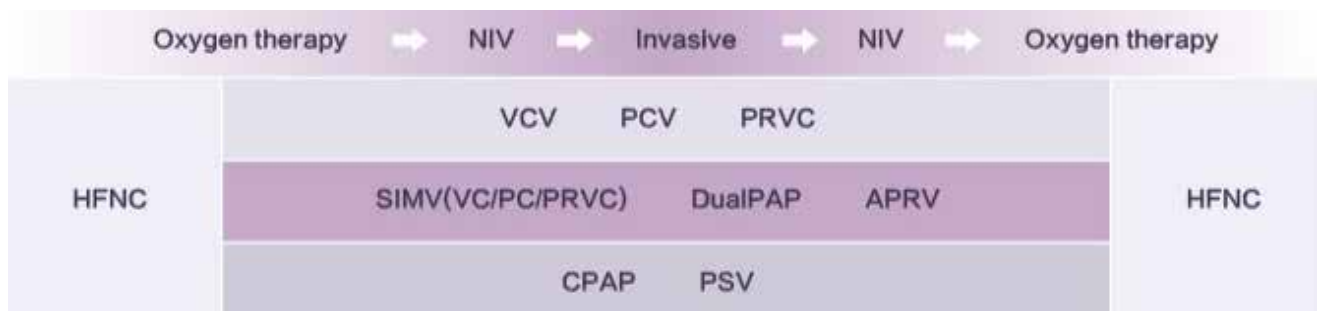
### Flow Support

With Flow Support switched on, if the patient encounters “flow hunger” during inspiration stage, extra flow compensation will be supplied promptly for the improvement of patient-ventilator synchronization.

## High Flow Oxygen Therapy

HFNC, providing patients with high-flow O<sub>2</sub> (up to 100L/min) through nasal cannula, is much more comfortable than traditional NPPV and has become the preferred choice of non—invasive ventilation therapy by many clinicians.

## ►► Total Ventilation solution for critical care



### • Easy Maintenance

Weaning Indicator : P0.1 (Occlusion pressure)  
 RSB (Rapid shallow breath index)  
 NIF (Negative inspiration force)

### Lung Protection Strategy

intrinsic PEEP  
 TVe/1BW indicator  
 Low—flow P/V Tool

### • Additional Modules



## ►► Technical Specification :

Physical Specification		
Dimensions and weight		
Dimensions (HxWxD)	Main Unit: 489×443×541 mm	
Weight	23.2 kg	
Display		
Screen	15" TFT display	
Display Resolution	1280*768	
Trolley		
Dimensions (HxWxL)	707×512×956 mm	
Weight	18.7 kg	
Communication interface		
Communication interface	RS232	
Ventilation Specifications		
Patient Type	Adult, pediatric	
Ventilation Mode	Invasive modes	VCV PCV PRVC SIMV+VCV SIMV+PCV SIMV+PRVC CPAP PSV DualPAP APRV
	Non-invasive modes	PCV SIMV-PCV NPPV APRV CPAP PSV HFNC
Controlled Parameters		
O <sub>2</sub> %	21 ~ 100%	
TV (Tidal Volume)	20 ~ 3000 mL	
f (Ventilation frequency)	4 ~ 100 bpm	
fsimv (Ventilation		

frequency in SIMV mode)	1 ~ 40 bpm
TI (Inspiratory time)	0.1 ~ 10.0 s(Equivalent to I:E : 4:1 ~ 1:10)
Prate(Rate of pressure rising)	1 ~ 5 gears
Tpause	0 ~ 4.0s
Pinsp	1 ~ 100 cmH <sub>2</sub> O
Psupp	0 ~ 100 cmH <sub>2</sub> O
Phigh	0 ~ 100 cmH <sub>2</sub> O
Plow	0 ~ 50 cmH <sub>2</sub> O
PEEP	0 ~ 50 cmH <sub>2</sub> O
Flow trigger	0.5 ~ 20 L/min
Pressure trigger	-20 ~ -1 cmH <sub>2</sub> O
ETS	10% ~ 85%
<b>Apnea Ventilation</b>	
Tapnea	10-60
Pinsp	1-100cmH <sub>2</sub> O
Freq backup	4 - 100 bpm
TI backup	0.1~10.0 sec
<b>Sigh</b>	
Sigh Switch	Disable, enable
<b>Automatic Tube Resistance Compliance</b>	
Tube I.D.	OFF, 5.0~12.0
Compensate percentage	0~100%
<b>HFNC</b>	
O <sub>2</sub> %	21% ~ 100%
Flow	2 ~ 100L/min
<b>Monitoring parameters</b>	
Ppeak	-20 ~ 120 cmH <sub>2</sub> O
Pplat	-20 ~ 120 cmH <sub>2</sub> O
Pmean	-20 ~ 120 cmH <sub>2</sub> O
PEEP	0 ~ 120 cmH <sub>2</sub> O
VTi	0 ~ 4000 mL
VT <sub>e</sub>	0 ~ 4000 mL
VT <sub>espn</sub>	0 ~ 4000 mL
MV	0 ~ 100 L
MV <sub>leak</sub>	0 ~ 100 L
MV <sub>spn</sub>	0 ~ 100 L
RR <sub>total</sub>	0 ~ 100 bpm

RRmand	0 ~ 200 bpm	
RR spn	0 ~ 200 bpm	
Resistance	0 ~ 600 cmH <sub>2</sub> O/(L/s)	
Compliance	0 ~ 300 mL/cmH <sub>2</sub> O	
Inspired Oxygen (FiO <sub>2</sub> )	15 ~100%	
RSBI	0.0 ~ 1000.0 bpm/L	
WOB	0 ~ 100 J/min	
P0.1	0 ~ 30 cmH <sub>2</sub> O	
NIF	-40 ~ 0 cmH <sub>2</sub> O	
RCexp	0 ~ 10s	
TVe/IBW	0 ~ 50 ml/kg	
I:E	100:1 ~ 1:150	
Tinsp	0 ~ 60s	
Waveforms	Pressure-time, flow-time, volume-time	
Loops	Pressure-volume, flow-volume, flow-pressure	
Alarm settings		
Tidal Volume	High	100 ~ 2000 mL, OFF
	Low	OFF, 20 ~ 2000 mL
Minute Volume	High	0 ~ 40 L
	Low	OFF, 0 ~ 39 L
Airway pressure	High	6 ~ 100 cmH <sub>2</sub> O
	Low	0 ~ 99 cmH <sub>2</sub> O
Frequency	High	1 ~ 100 bpm
	Low	0 ~ 99 bpm
Inspired Oxygen (FiO <sub>2</sub> )	High	21 ~ 100%
	Low	OFF, 21 ~ 99%
Apnea alarm time	10 ~ 60 s	
Other Alarms	O <sub>2</sub> supply pressure Air supply pressure High Continues Pressure AC failure Low battery capacity Battery exhausted EtCO <sub>2</sub> (optional) SPO <sub>2</sub> (optional)	
Log		
Type	Alarm and setting	
Max number	500	
Ventilator compone nts		
O <sub>2</sub> sensor		
Type	Calvanic fuel cell	

Response time	< 15sec	
MainStream CO <sub>2</sub> Module		
Displayed numerics	0 ~ 114 mmHg	
Resolution	0.1mmHg	
System response time	<1 s	
EtCO <sub>2</sub> High alarm limits	1 ~ 99 mmHg	
EtCO <sub>2</sub> Low alarm limits	OFF, 0 ~ 98 mmHg	
SpO <sub>2</sub> module		
Displayed numeric	SPO2、PR	
SpO <sub>2</sub> measurement range	70%-100%	
PR measurement range	20-250	
SpO <sub>2</sub> Low alarm limits	80%-100%	
Operation Data		
Environmental specifications		
Temperature	Operation	+10°C ~ 50°C
	Storage and transport	-20°C ~ 55°C
Relative humidity (non-condensing)	Operation	Operation
	≤95%	≤95%
Barometric Pressure (storage)	Operation	Operation
	50 ~ 106 kPa	50 ~ 106 kPa
Gas supply		
Gas type	Air, O <sub>2</sub>	
Pipe Connector	NIST	
Gas supply pressure	280 ~ 600 kPa	
Peak flow in case of single supply gas	180L/min	
Power and Battery Backup		
Power input voltage	100 ~ 240 V	
Power input frequency	50/60 Hz	
Power input current	1.5 A (Max.)	
Fuse	T2AL/250 V	
Number of batteries	1	
Rated battery voltage	11.1 VDC	
Battery type	Lithium battery	
Battery capacity	7800 mAh	
Battery run time	120 min	

Battery charging time	New battery: more than 10 h for the first time In the future: 5 h
<b>Air Compressor</b>	
Power input	AC 220~240 V, 50/60 Hz, 3A
Rated output pressure	400±20 kPa
Noise	≤52 dB (A) in normal operating condition
Output flow	≥40 L/min (350 kPa)
Life time of Thomas pump	10,000 hours
<b>Special Functions and procedures</b>	
Inspiratory hold	
Expiratory hold	
100% O <sub>2</sub> 2 min	
Manual inspiration	
Freeze	
Suction	
P-V tool	



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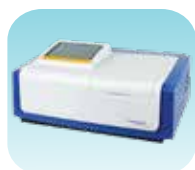
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