

Technical Specifications

bellavista 1000 intensiv care ventilator

bellavista®
the art of ventilation

The imtmedical bellavista intensive care respirator offers state of the art technology and an innovative user interface. It is universally applicable from neonatal to adult ventilation and supports you in your daily challenges in the ICU, intermediate care and institutional care environments, regardless if you need to ventilate invasive or non-invasive. The powerful turbine blower drive and the compact design of bellavista and the battery life of 6 hours expands your reach and allows you to use bellavista for intra hospital transportation. Our individually configurable software lets you decide how you want to use bellavista, giving you a practical and unique added value.

For further information please contact your local dealer or visit our website at www.imtmedical.com

Ventilation features

AVM	Adaptive Ventilation mode for faster weaning and adaptation to the patient.
Settings Assist	Graphical display of mode settings for better overview and forecast of dependencies of e.g. time, cycle and I:E ratio.
AnimatedLung	Display of compliance, resistance and spontaneous breathing as a graphical realtime display.
VentSummary	Display of configurable weaning parameters and for visualizing the ongoing ventilation status.
MaskFit and Ramp Function	Adapting patients to Non-Invasive Ventilation with help of visual and acoustic guidance.
auto.sync	Automatic expiratory trigger threshold for better adaption and synchronisation.
auto.rise	Adaptive risetime function for optimal risetime without any overshoot.
Circuits	Dual and single limb operation.
Burst Backup	nCPAP backup feature for more safety in neonatal nasal CPAP ventilation.



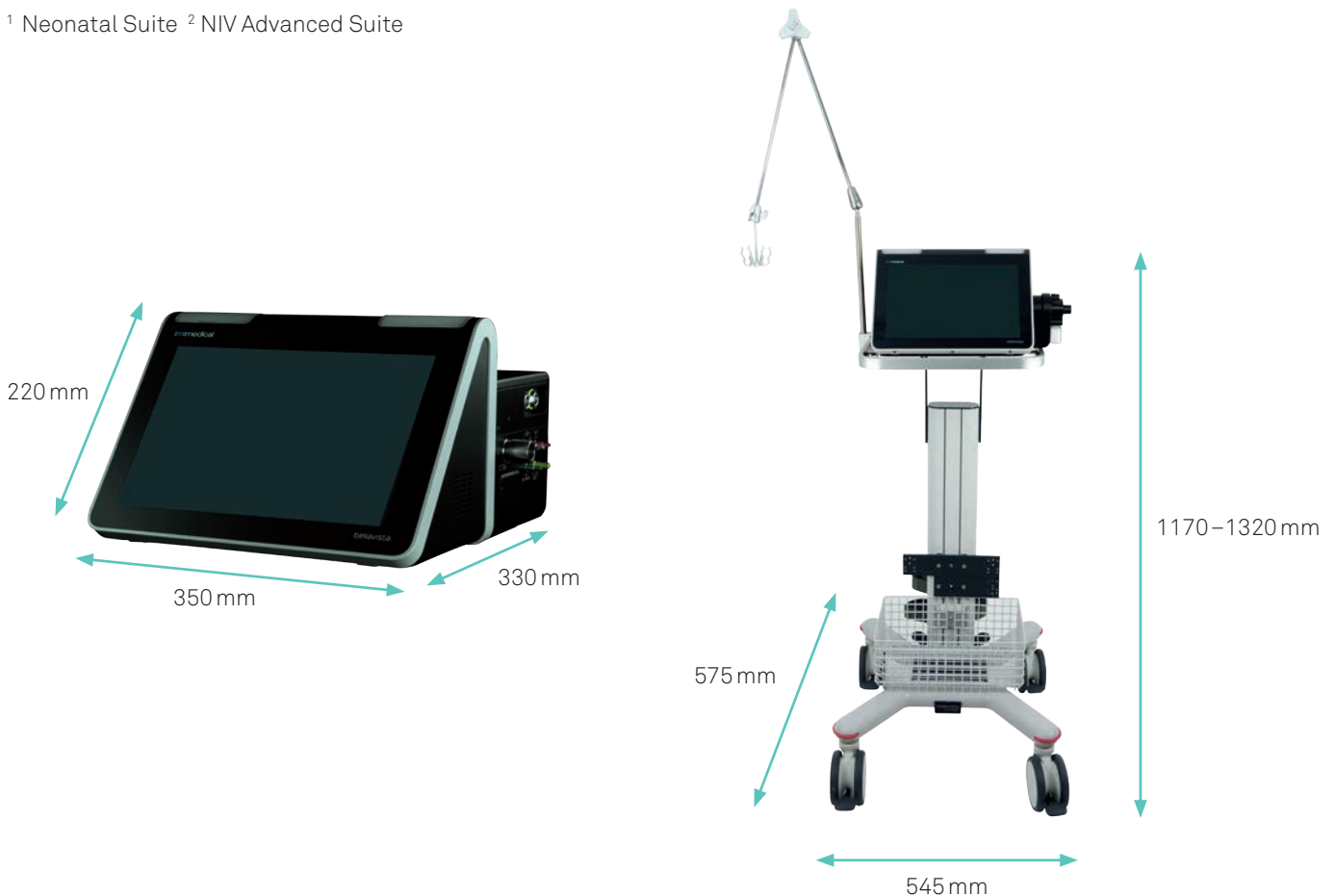
Technical Specifications

bellavista 1000 intensiv care ventilator

Parameter	Specification
Area of application	<ul style="list-style-type: none"> Life Supporting Respiratory Ventilator Intensive Care Unit (ICU) Intermediate Care (IMC) Emergency Room (ER) Intrahospital transfer Institutional care environment
Patient Types	Adult, Pediatric, Neonatal ¹
Technology	High performance turbine Intensive Care Ventilator
Ventilation Modes	
• Pressure controlled	CPAP, PCV, P-A/C, PC-SIMV, PSV, beLevel, APRV, S, S/T, T
• Volume controlled	VCV, V-A/C, VC-SIMV, PLV (Pressure Limited Ventilation), P-AC _{target} , PC-SIMV _{target} , PSV _{target}
• Flow Pattern	Square, Decelerating 50 %, Decelerating
• Adaptive Mode	AVM
• Non Invasive Modes	CPAP, PSV, P-A/C, PC-SIMV, beLevel, APRV, P-A/C _{target} , PC-SIMV _{target} , PSV _{target} , nCPAP, nIPPV
• bellavista Modes	DualVent, DayNight, MaskFit
• Apnea ventilation	P-AC, PC-SIMV, V-AC, VC-SIMV
• Backup Modes	PSV, Burst backup
Peak inspiratory flow	0-260 l/min
Inspiratory pressure, IPAP	0..100 mbar
Psupport	0..80 mbar
PEEP, EPAP	0..50 mbar
Tidal volume	40..2500 ml Adult/Pediatric, 2..250 ml Neonatal ¹
Inspiratory time	0.1..10 sec
Respiratory rate	0..100 bpm Adult/Pediatric, 0..150 bpm Neonatal
I:E ratio	1:599; 49:1 (biphasic) 1:59; 5:1 other modes
Inspiratory Trigger	Flow 0.1..20 l/min, Pressure 0.1..15 mbar, Trigger off
Expiratory Trigger	auto.sync, 5..90 % manual
Rise time	auto.rise, 0..2000 ms manual
Leakage compensation	auto.leak, automatic in-/expiratory leak compensation
Curves	Pressure, Flow, Volume, ATC, SpO ₂ , etCO ₂ ,
Loops	Pressure Volume, Pressure Flow, Flow Volume, Volumetric CO ₂
Monitoring	56 online parameters
Trending	14 days realtime trending, 1 year parameter trending
Maneuvers	Manual Breath, configurable sigh, Inspiratory Hold, Expiratory Hold, NIF (Negative Inspiratory Force), V _{trapped} , P0.1 (Occlusion Pressure), AutoPEEP
Suction tool	Increase of oxygen concentration for a limited period of time: Default: <ul style="list-style-type: none"> Adult/Pediatric: 100 % O₂ for 2 min Neonatal: Configurable in time and concentration
ATC	Automatic tube compensation for <ul style="list-style-type: none"> Endotracheal Tube / Tracheotomy Tube Configurable for in-/expiratory breaths
Weaning protocol	VentSummary

Parameter	Specification
Graphics	AnimatedLung, AVM TargetView, TargetVent View, MaskFit , VentSummary
Oxygen	21 %.. 100%
Options	<ul style="list-style-type: none"> • Neonatal Suite • Volumetric Mainstream Capnography • SpO₂ Plethysmography • Transpulmonary Pressure
Alarms	VTexp, MVexp, Apnoea, Ppeak, FiO ₂ , Rate, Pulse, SpO ₂ , inCO ₂ , etCO ₂ , VT ² , MV ²
Patient circuit type	Single Limb, Dual Limb, Adult, Pediatric, Neonatal
Nebulizer	Integrated pneumatic, inspiratory, expiratory, and continuous
Interfaces	2 × RS232, Ethernet, VGA, 2 × USB, Nurse Call, CO ₂ , SpO ₂ , bellavista Bus
Connection protocols	VueLink, Intellibridge, HL7
Dimensions (w x h x d)	350 × 220 × 330 mm
Screen	13.3" Color Touchscreen
Battery time	6 h (internal)
Oxygen supply	0..7 bar
Air Inlet	built-in turbine
Weight	12.7 kg
Protection class	IPX1
Power input	100-240 VAC ± 20% / 50–60 Hz Low voltage input 24 VDC / 3.5 A

¹ Neonatal Suite ² NIV Advanced Suite



Mode	Description	Invasive	Non-Invasive	Adult/ Pediatric	Neo
Adaptive Mode					
AVM	Adaptive Ventilation Mode	✓		✓	
Pressure controlled					
PCV	Pressure Controlled Ventilation	✓	✓	✓	✓
P-A/C	Pressure Assist Control Ventilation	✓	✓	✓	✓
PC-SIMV	Pressure Controlled-Synchronized Intermittent Mandatory Ventilation	✓	✓	✓	✓
beLevel	Biphasic Ventilation	✓	✓	✓	
APRV	Airway pressure release Ventilation	✓	✓	✓	
CPAP	Continuous Positive Airway Pressure	✓	✓	✓	✓
PSV	Pressure Support Ventilation	✓	✓	✓	✓
S	Spontaneous	✓	✓	✓	✓
S/T	Spontaneous/Timed	✓	✓	✓	✓
T	Timed Ventilation	✓	✓	✓	✓
Volume controlled					
VCV	Volume Controlled Ventilation	✓		✓	
V-A/C	Volume Assist Control Ventilation	✓		✓	
VC-SIMV	Volume Controlled-Synchronized Intermittent Mandatory Ventilation	✓		✓	
PSV _{targetvent}	Continuous Positive Pressure ventilation/Pressure Support Ventilation with TargetVolume	✓	✓	✓	✓
P-A/C _{targetvent}	Pressure Assist Control Ventilation with Target Volume	✓	✓	✓	✓
PC-SIMV _{targetvent}	Pressure Controlled-Synchronized Intermittent Mandatory Ventilationwith Target Volume	✓	✓	✓	✓
Non-invasive					
nCPAP	nasal Continuous Positive Airway Pressure		✓		✓
nIPPV	nasal Intermittent Positive Pressure Ventilation		✓		✓
beModes					
DualVent	Automatic switching between two Modes	✓	✓	✓	✓
DayNight	Automatic Day/Night switching of two Modes	✓	✓	✓	