bellavista 1000e
Optimal patient comfort
Sometimes bigger is simply better ...

The display on the bellavista 1000e leads the way towards a unique user experience. That’s because the bellavista 1000e features an easy-to-read, easy-to-use, high-resolution 17.3-inch glass touchscreen, making it simple to view parameters and waveforms even in complex and challenging situations. Clinicians will find the capacitive touchscreen interface is intuitive and natural right from the start, delivering an excellent user experience. Performing both invasive and noninvasive ventilation, the bellavista 1000e is powerful, flexible and reliable in the intensive care unit (ICU) and intensive monitoring care, for patients ranging from neonates to adults.

With customizable software solutions, the decision how to effectively use the bellavista 1000e is completely in the clinician’s hands, a practical and unique advantage of the bellavista family.

**FEATURES:**
- ICU ventilator with 17.3-inch glass touchscreen, full high-definition screen resolution
- Care solutions for premature neonates to adults
- Adaptive Ventilation Mode
- High Flow Oxygen Therapy
- Expanded noninvasive functions
- Lung Recruitment Tool
- Esophageal Pressure Monitoring
- Battery time three-hours minimum

**Ventilation features**

**AVM**
Adaptive Ventilation Mode (AVM) is a smart ventilation mode that considerably reduces the number of ventilation settings required. By constantly measuring lung mechanics, AVM adapts breath by breath to the patient’s needs, whether the patient is being ventilated or breathing spontaneously. AVM always calculates the optimal ventilation pattern at the lowest possible ventilation pressure and supports patients safely from intubation to extubation.

**HFOT**
High Flow Oxygen Therapy (HFOT) is a type of therapy that is able, in combination with an actively humidified tubing system, to effectively improve the oxygenation of patients while enhancing patient comfort. This is achieved by high flow rates that build up a positive pressure in the nasopharyngeal space. In contrast to conventional, noninvasive types of ventilation, patients can drink, eat and speak while undergoing HFOT.

**LRT**
The Lung Recruitment Tool (LRT) is an automated maneuver that provides the clinician with all the necessary information for lung recruitment in a reliable, reproducible and simple way. In a first step, measurements are taken in order to find out whether a patient’s lung is recruitable. If that is the case, collapsed alveoli or lung areas can be reopened in a second step.
The bellavista 1000e offers additional options depending on the field of application. The Neonatal advanced option, for example, is specifically geared to the requirements of the smallest and most sensitive patients and integrates all the extended, particularly gentle, ventilation modes.

Accessories
bellavista ventilators offer a wide range of accessories, such as a vertically adjustable cart or custom diagnostic packages, to enhance the efficiency and effectiveness of care.

"An outstanding user experience due to a brilliant, high-resolution display."

Optimizing workflow and patient interaction

AnimatedLung
AnimatedLung is a dynamic tool that visualises the mechanical state of a patient's lung. An easily comprehensible graphic display helps to detect at a glance any changes in lung compliance or resistance, as well as the patient's spontaneous activity.

Advanced Synchrony
Automated tools save a clinician time and ensure optimal ventilation. We offer three automated tools to help the clinician—and patients. auto.sync relieves the patient of a fixed manual expiratory setting and optimises the synchronisation of a patient during spontaneous breathing. auto.rise adapts and optimises the pressure rise time (ramp) by performing continuous breath analysis while simultaneously avoiding pressure peaks. In addition, our fully automatic adaptive leak compensation system, auto.leak, reliably compensates for inspiratory and expiratory leaks up to 120 L/min.

Customizable software
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Technical specifications

Parameter | Specification
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Patient types | Adult, Pediatric, Neonatal
Areas of application | Intensive care unit (ICU), Neonatal Intensive Care Unit (NICU), Intensive monitoring care (IMC), Emergency room (ER), Intra-hospital transfer
Ventilation modes | Pressure-controlled CPAP, P-A/C, PC-SIMV, PSV, AutoPr, APRV, S, S/T, T
  - Volume-controlled V-A/C, VC-SIMV, PAV (Pressure Limited Ventilation), P-A, AutoPr, PC-SIMV
  - Flow pattern Square, SSI, desaturating, decelerating
- Adapting mode | AV
- Non-invasive modes | CPAP, PSV, P-A/C, PC-SIMV, PSV, AutoPr, APRV, P-A/C, PC-SIMV, PSV, AutoPr, PC-SIMV
- bellows modes | DualVent, DayNight
- Aproach ventilation | P-A/C, PC-SIMV, V-A/C, VC-SIMV
- Graphs modes | P-A/C, PC-SIMV, V-A/C, VC-SIMV
- Oxygen therapy | HFOT 2-50 L/min Adult/Pediatric, 1-50 L/min Neonatal
Peak inspiratory flow | 260 L/min
Inspiratory pressure, IPAP | 2–95 mbar
PSupport | 0-95 mbar
PEEP, EPAP | 0–50 mbar
Tidal volume | 40-2500 mL Adult/Pediatric; 2-250 mL Neonatal
Inspiratory time | 0.1-10 s
Respiratory rate | 1-100 breaths per minute Adult/Pediatric; 1-150 breaths per minute Neonatal
I:E ratio | 1:99 – 100:1
Inspiratory trigger | Flow 0.1-20 L/min, pressure 0.1-15 mbar, Off
Expiratory trigger | Desaturation, SSI, pressure
Oxygen delivery | 0-100 %
ICU oxygen | 21–100 %
Nebulizer | Iron pneumatic
Interfaces | 2 × RS 232, Ethernet, 2 × USB, nurse call, CO2, SpO2, bellavista bus, Display port
Monitoring >60 online parameters
Trending 14-day real-time trending, 1-year parameter trending
Breathing maneuvers | Lung Recruitment Tool, Baseline breath, configurable Spike function, Hold Inspiration, Hold Expiration, NIF (Negative Inspiration force), P0.1 (occlusion pressure), Auto-PEEP
Weaning protocol | VentSummary
Power supply | 100-240 VAC ± 20 % / 50–60 Hz, low-voltage input 24 VDC / 3.5 A
Dimensions (w x h x d) | 440 × 250 × 360 mm/17.32 × 9.84 × 14.18 inch
Screen | 17.3” Color Full HD Touchscreen, TFT
Battery time | minimum 180 min. (internal)
Battery time | 100-240 VAC ± 20 % / 50–60 Hz, low-voltage input 24 VDC / 3.5 A
Power supply | 100-240 VAC ± 20 % / 50–60 Hz, low-voltage input 24 VDC / 3.5 A