

The art of breathing

bellavista

bellavista®



Design and performance

Good things can be improved. With this in mind, we have developed a revolutionary new generation of ventilators. bellavista ensures a step into the future for all of our clients. Not only the attractive, elegant outward appearance and outstanding technology, but also the new, groundbreaking operating system set the bellavista product range apart from the competition. bellavista refreshingly redefines ventilation technology with an attractive yet conspicuously discreet design, which stands out from the typical clinical instrumentation and integrates functionality, Swiss quality and high performance with user-friendliness and innovative design.

vista 1000
vista 1000

bellavista

Intelligent aesthetics





bellavista 900

A model especially developed for home use. The minimalist design enables easy-handling for patients. The device is small, compact and with its built-in rechargeable battery, ideal for transport.



bellavista 1000

This device was designed for home as well as hospital use. Key features include an easy to handle touch screen display and an operating surface which adapts to all users' needs.

From hospital to home



bellavista 2000

This model is primarily used in pneumology departments and sleep laboratories as a support for the diagnosis of respiratory diseases. Specialists have a unique device at their disposal, which optimally supports their daily work.



bellavista 3000

This advanced system is used for the treatment of serious respiratory diseases, post-operative treatment and for long-term patients in subacute and intensive care units.



Groundbreaking ventilation technology

bellavista is the first ventilator which eases the specialists' workload while simultaneously increasing patient comfort.

Revolutionary operation

- The multi-user concept simplifies operating the device for patients, nurses and doctors
- Multi-media videos decrease training expenditures
- The unique **ChameleonLook™** adapts the user interface to the needs of each user

Adaptable applications

- For every respiratory application, bellavista offers the appropriate device

World premier in diagnostics and monitoring

- New integrated and attachable sensors revolutionize patient diagnostics
- Comprehensive monitoring of all relevant respiratory parameters

Top ventilation performance

- Non-invasive and invasive respiratory modes for children and adults
- Optimal synchronisation provided by high-tech proportional valves and blower technology

Concepts for the future

- Numerous interfaces enable hassle-free communication with associated systems and prepare the ventilator for future requirements

Quality and support

- Optimal customer care based on comprehensive know-how and years of experience in the medical field
- Competent, professional service derived from years of tested and proven processes and innovative software tools

bellavista offers a new type of operating experience by allowing individual adaptation of the applications to suit the needs and habits of the user. Whether a patient, nurse, or specialist, the relevant information is immediately visible and available.



Smart touch operation

bellavista's new touch screen simplifies the set-up process and adjustment of ventilator and monitoring values and curves.

By using the direct menu, the user can see the operations available in the selected field, thereby guaranteeing quick and faultless operation of the device.

Revolutionary operation



Personalised user interface

The screen displays only relevant information for the selected user. A status indicator simplifies the screen by hiding complicated graphs and figures that could otherwise confuse the patient.

The user interface can be individually customised directly on the screen according to the user's wishes and requirements by positioning each operating component where expected.

ChameleonLook™

The multitude of ventilators with varying user-interfaces presents significant challenges for medical specialists. The consequences encountered by this variety are increased costs for device familiarisation and training.

bellavista's **ChameleonLook™** offers revolutionary support for anyone working with a broad range of ventilators. At the click of a button, the **ChameleonLook™** adapts bellavista's operating surface to an interface that the operator is more familiar with.

Building user confidence

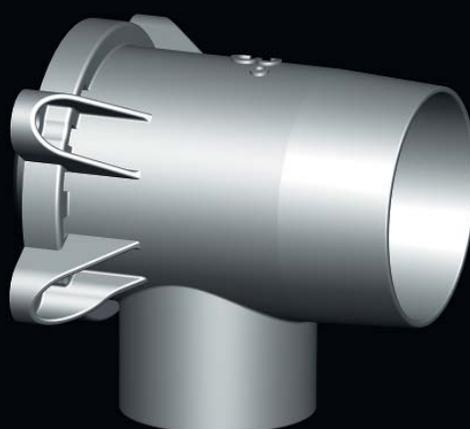
Wizards and instructional videos displayed directly on the device support the bellavista set-up and operating process. These instruments assist in reducing user anxiety while operating the device. Every day use of the ventilator is also accompanied by multi-media support.

Health conditions and treatments relevant to the patient can be displayed directly on the device. These informational spots can be viewed by the patient on the ventilator.

If required, the patient and doctor can receive additional mask adjustment support with a combined visual and sound output.

Ventilators providing high-performance for every type of therapy are rare. For years the devices used at home were dramatically different from those used in hospitals. bellavista combines the advantages of the proven, classic proportional valve technology of ICU ventilators, with the high-performance blower technology primarily used in non-invasive ventilation. Thus, bellavista offers a ventilation platform for all applications; for non-invasive and invasive ventilation, for children and adults, at home and in the hospital.

Top ventilation performance



Ventilation and synchronisation

The proportional valve technology patented for bellavista enables optimal synchronisation between the ventilator and patient and regulates an exact air dosage for each breathing phase.

bellavista's superior exhalation performance also increases patient comfort.

Various types of therapy

Pressure and volume controlled ventilation modes give the user the greatest flexibility in selecting the appropriate therapy. For anxiety-free and assisted mask adjustment, bellavista offers the **MaskFit™** mode which provides multimedia assistance to doctors and patients.

The **DayNight™** mode enables patients to switch independently between two different types of prescribed therapies. This accommodates the physiological differences of the lung functions and optimizes the patient's comfort. The **DayNight™** mode also takes into account differing therapies at the relevant time of day and adjusts the ventilation appropriately.

Oxygen

Depending on the clinical diagnosis and therapy, the air provided can be mixed with a precise dose of oxygen. bellavista supports all O₂ supply systems available in the market.

Medication therapy support

An integrated medication nebuliser permits exact dosages of medication in accordance with the chosen therapy. The intelligent control system can adapt the dosage patterns. Customised modes such as pressure and volume controlled sighs or targeted administration of manual breath can further promote patient weaning off the ventilator.



An adequate pneumological examination requires a substantial diagnosis. During this process, parameters from various machines must be correlatively analysed. bellavista is the world's first ventilator where all the sensors necessary for a reliable pneumological diagnosis are either integrated in the device or attachable.

All relevant parameters are displayed polygraphically and simultaneously. This allows the specialist to make a reliable diagnosis quickly and simply.

All patient parameters are permanently recorded. This data can later be analysed in detail in order to determine a substantial diagnosis. The **ArtefactFinder™** assists specialists in analysing and evaluating trends.



World premier in diagnostics and monitoring



Standard parameters

The flow, volume and pressure parameters give insight into respiratory tract obstructions, compliance dysfunctions and leakages.

Capnography

The integrated capnograph enables simple monitoring of the tubus and indicates potential pulmonary embolism.

Blood gas monitoring

Pulse oximetry and transcutaneous pCO₂ measurements are crucial to the recognition of hypo and hyperventilation. The blood gas monitoring avoids invasive arterial blood gas analysis.

Respiratory induction plethysmography

Measuring the thorax and abdomen extensions assists in verifying the patient's interaction with the ventilator. Respiratory tract obstructions and triggering problems can thereby be quickly recognised and appropriately diagnosed.

ECG

ECG sensors precisely monitor the heartbeat and facilitate early recognition of stress and complications.

The future in sight

Many ventilators are closed systems and difficult to extend or combine with other systems.

bellavista easily connects to other systems using its numerous interfaces and is equipped to incorporate future innovations.



bellavista modules

Additional modules for various applications, for example the respiratory humidifier, can be connected using the bvBus.

Respiratory humidification

A suitable respiratory humidifier can be docked directly onto bellavista and can be operated, configured and adjusted via the device. Numerous humidification operations relating to intensity and duration are also adjustable.

Central monitoring

bellavista can centrally display ventilator status and patient data. Monitoring multiple ventilators is thereby made significantly easier in the hospital or at home.

Remote monitoring and maintenance

Ventilator data can be remotely accessed via the internet. A simple browser and the appropriate network infrastructure are required in order to review monitoring data and settings as well as observe the device remotely.

Integration into existing systems

Various hardware interfaces as well as software protocols are available to integrate bellavista into existing PDM and other monitoring systems.

Quality and support



imtmedical, located in Buchs, Switzerland, is the company behind bellavista. All bellavista ventilators are designed, developed and manufactured in Switzerland.

imtmedical has a long history of developing innovative, high-performance solutions for the respiratory field. The company operates internationally and is proud of an excellent reputation as a competent, reliable manufacturer.

Years of experience in the respiratory field, motivated and highly qualified employees with Swiss quality standards and a spirit of innovation make the company the insider's favourite for respiratory technologies.

Comprehensive service

imtmedical has assessed the general needs and demands of the ventilator and medical fields. This background knowledge ensures competent and professional customer care. Our processes are developed for customers with high demands.

imtmedical provides a comprehensive training package for dealers, doctors and specialists with medical and technical backgrounds.

Uninterrupted operation of bellavista ventilators is supported by a worldwide pick-up and delivery service for calibration and repairs and is part of the unrivalled imtmedical service.

	900	1000	2000	3000
Area of Deployment				
Home Ventilation	•	•		
Pneumology		•	•	
Intermediate Care / Subacute		•	•	•
Sleep Clinic / Lung Clinic			•	
Intensive Care				•
Type of Respiration				
Non-invasive	•	•	•	•
Invasive	•	•	•	•
Children / Adults	•	•	•	•
Single Limb	•	•	•	•
Dual Limb (ext. Valve)	•	•	•	•
Dual Limb (int. Valve)			•	•
Ventilation Modes				
Pressure Controlled Modes	CPAP, PCV, P-A/C, PC-SIMV, PSV			
Volume Controlled Modes	VCV, V-A/C, VC-SIMV, APV			
Special Modes				
Vt Target Mode	•	•	•	•
Back-up Ventilation	•	•	•	•
Sighs		•	•	•
Hold insp. / exp.		•	•	•
Manual Breath		•	•	•
Medication Nebuliser		•	•	•
Oxygen				
Low Pressure	•	•	•	•
High Pressure		•	•	•
100% O ₂ Flush		•	•	•
bellavista Modes				
MaskFit™ Mode		•	•	•
WeanAssist™ Mode		•	•	•
DayNight™ Mode	•	•	•	•

Overview

	900	1000	2000	3000
Monitoring				
Respiratory Parameters	•	•	•	•
Respiratory Parameters - Proximal		•	•	•
Real-time Curves	•	•	•	•
Loops		•	•	•
13.3" Touchscreen Display		•	•	•
ChameleonLook™		•	•	•
UserView™ (Patient, Nurse, Doctor)		•	•	•
ActiveHelp™		•	•	•
ConnectionAssist™		•	•	•
Diagnostics				
Trending	•	•	•	•
ArtefactFinder™		•	•	•
Breathing Gas Analysis	•	•	•	•
FIO ₂	•	•	•	•
CO ₂	•	•	•	•
Blood Gas Analysis	•	•	•	•
SpO ₂	•	•	•	•
pCO ₂			•	•
Induction Plethysmography			•	•
3-channel ECG			•	•
Patient Record Sheet		•	•	•
Interfaces				
Ethernet		•	•	•
USB	•	•	•	•
bvBus	•	•	•	•
Nurse Call	•	•	•	•
USB Stick	•	•	•	•

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