

Padus 8

Ventilator

Intelligent experience
that exceeds your imagination

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prunus

Reliable Healthcare Solution Provider of OR, ICU and Emergency

Padus 8

New Generation Bedside Therapeutic Ventilator



360° alarm light



17" enlarged touch screen



HD resolution (1920*1200)



We make ventilators for now and the future



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I want to design a modern ventilator that can make good interaction with users and patients. With the excellent ventilation performance, Padus 8 can provide ventilation and support to all patient types, from adult to neonate. It consists of the most advanced components to ensure safe and reliable running. The compact design makes it fit in patient bed-sides and busy ICU. I'm glad to say that we made it. We made the ventilator for now and the future!

Mathias Eklund

General Engineer



Developing the industrial design for Padus 8 was a great experience and it is also an excellent collaboration between engineering and industrial design. "Compact" and "flexibility" are the key words to interpret the industrial design of Padus 8. Even in small and inclosed environments like ICU, the outstanding functions of Padus would be able to help users complete adjustment promptly according to patient's needs, thereby improving efficiency and accuracy.

Olaf Schikorr

Industrial Designer



Patient orientation for breathing with ease

Padus 8 is flexible enough to be applied on different types of patients in different clinical conditions. Numerous advanced technologies were innovated to empower Padus 8 with comprehensive and stable ventilation ability just for free breath of patients.



Intelligent Ventilation Management

Integrated “sequential ventilation” therapeutic scheme covering HFNC, non-invasive and invasive ventilation easily cope with ventilation demands for sub-acute and acute patients.



Applicable to Neonates with Proximal Sensor & Minimal 2mL TV

The industry's top tidal volume control technology enables accurate control of the tidal volume as low as 2ml with $\pm (1\text{mL} + 5\% \text{ set value})$ accuracy to make ventilation safer and is applicable to neonates.



Patented Flow Support[®] Enhancing Patient-Ventilator Synchronization

Under volume-control modes with Flow Support switched on, when the patient encounters “flow hunger” during inspiration stage, Padus 8 will promptly respond with extra flow compensation for the improvement of patient-ventilator synchronization.



High Flow Nasal Cannula

HFNC provides patients with high flow oxygen (flow rate up to 60L/min), air and isothermic saturated stream through nasal cannula, which is much more comfortable than traditional NPPV and has become the preferred choice of non-invasive ventilation therapy by many clinicians.

Multiple decision aids for accurate assessment of ventilation status

Advanced Auxiliary Pressures Monitoring

Through the measurement and monitor of esophageal pressure to calculate transpulmonary pressure, transdiaphragmatic pressure and gastric pressure, which can guide clinicians to optimize the setting of PEEP, tidal volume and P_i , thereby reducing the possibility of ventilation complications and improving therapeutic efficacy.

Setting optimal PEEP

Quasi-static P-V loop combining with flow as low as 1L/min can provide more precise data. Automatic tracing of the upper and lower inflection points on the P-V curve through intelligent algorithm determines the best PEEP.

Comprehensive Weaning Tools

Measuring weaning indexes including $P_{0.1}$, NIF, RSB, PTP, WOB and so on to help clinicians quickly estimate spontaneous breathing ability of the patient and find the best weaning timing.

Stress Index Monitoring

In flow-constant ventilation modes, real-time monitoring of P-T waveform and quantifying into stress index can warn the risk of lung injury and guide the setting of PEEP.

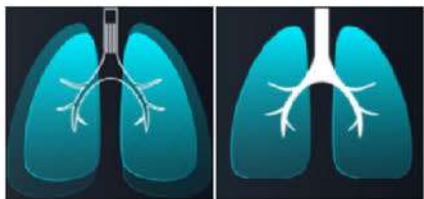
Intuitive designs for optimal user experience

The compact design of Padus 8 allows a close positioning to the patient bedside, while the fully-adjustable 17" HD screen enables clear monitoring by clinicians from any angle. The humanized UI designs provide not only comprehensive views but also intuitive user experience.



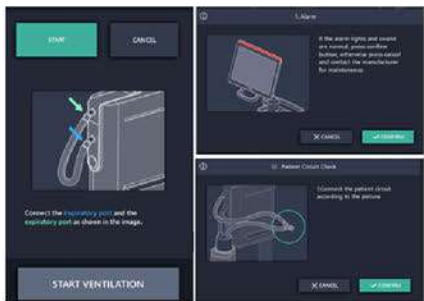
Humanized UI Design

Human brain processes graphic information 60,000 times faster than text information. Padus 8 shows ventilation situations in premonitory waveform with big numeric and dynamic lung view.



Dynamic Lung View

Dynamic lung view utilizes numerical and graphical displays to show real-time resistance and compliance status.



Visual Guide

The new easy-to-read graphical display enables users to learn quickly on how to use and maintain the machine, therefore reducing operational errors and improving efficiency.



Trend Review

A quick summary of the patient's progress within 72 hours can be extended to an in-depth examination of each breath and automatically saved and played back for comparison.



Flexible configuration schemes for freedom of choice

It is important for a critical-care ventilator to be capable of connecting to other medical devices and the hospital information system to form a concrete monitoring environment for the patients. Padus 8 is strongly expandable through connections to additional modules and technologies.

