

mindray

TV50

Ventilator

Mini, Mighty, More



reddot winner 2023



www.mindray.com

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mindray
healthcare within reach

When Mini Meets Mighty

Introducing our revolutionary compact and powerful transport ventilator, the TV50 is designed with clinical focus to meet various medical needs. With its integrated turbine, the TV50 enables seamless and efficient ventilation even without compressed gas inlet. Say goodbye to cumbersome setups, as this portable all-in-one transport ventilator ensures a quick, smooth, and hassle-free patient transport experience.

Compact and Easy to use

With its lightweight design of just 4.5kg and a built-in high-performance turbine, the TV50 is incredibly portable for on-the-go use. It is equipped with battery and oxygen management functions, alleviating the concerns of medical staff regarding insufficient oxygen supply or battery life during transport.

Powerful and Versatile

Despite its mini size, the TV50 doesn't compromise on performance. Packed with clinical-oriented functions, it supports invasive, non-invasive, and O₂ therapy, along with mainstream CO₂ monitoring. It is robust and reliable in diverse transport scenarios, exceeding the strict standards for vehicles like helicopters or ambulances.



Extremely Light for Easy Move

Whether you're navigating through tight spaces or responding to remote locations, our remarkably lightweight ventilator will be your trusted companion. The TV50 Transport Ventilator features a compact body and a powerful turbine to ease the transport process. With its universal mount handle, it can flexibly meet various mounting requirements during the transport.

High performance turbine

- Built-in turbine driven, more independent and portable
- Peak flow $\geq 210\text{L}/\text{min}$, more effective NIV support
- Precise FiO₂ adjustment in the range of 21%~100%



Small and light

- Weighs only 4.5kg, easy to carry with one hand
- Small in size, saving transport space



Portable

- Universal mount handle to meet the various mounting requirements
- Preconfigured with optional fixed base, a mobile trolley or a gas cylinder carrier to meet the needs of intra-hospital and pre-hospital transport





Putting Care First: Intuitive, Easy to use, Confident

Thoughtful battery and oxygen management function of TV50 transport ventilator makes the daily usage and maintenance of the transport ventilator more convenient. Design with intuitive of use in mind, the TV50 keeps you informed with real-time battery display at all time with outdoor display mode to clearly see various in environments.

Intuitive and Easy to use

- 7- inch HD capacitive touch screen
- Similar UI and operation to bedside ventilator
- Auto-Brightness adjustment



Confident and Worry-free

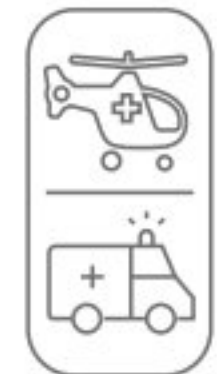
- Non-consuming O₂ sensor: Long lasting with zero maintenance
- Real-time O₂ consumption monitoring: efficiently mastering the available time of oxygen
- Long-lasting hot-swappable battery: operating time ≥10 hours with real-time battery display even when powered off
- Outdoor Mode: Improve viewing under sunlight or bright ambient light with one touch



Adapting to the Most Demanding Environment

TV50 provides a impressive 20G force resistance, providing unparalleled durability and reliability even harsh conditions such as severe cold, scorching heat, heavy rain, plateaus. TV50 can withstand significant shocks and vibration, ensuring it remains in top-notch condition to deliver consistence performance throughout its usage. Whether you're in a demanding industrial environment, over the rugged terrains, or on the air, rest assured that the TV50 will be a reliable assistant for medical professional ,ensuring peace of mind and continuity of seamless operation through transport and respiratory support.

It meets various standards for transport vehicles such as helicopters and ambulances, and supports various types of transport.



RTCA/DO-160G
EN 13718-1
EN 1789
ISO 80601-2-84 (EN 794-3)



Exceeding Rigorous Tests



-20~50°C
Working temperature



7600m
Automatic altitude compensation



IP34
Dustproof and waterproof grade



6 sides 75cm
Drop protection

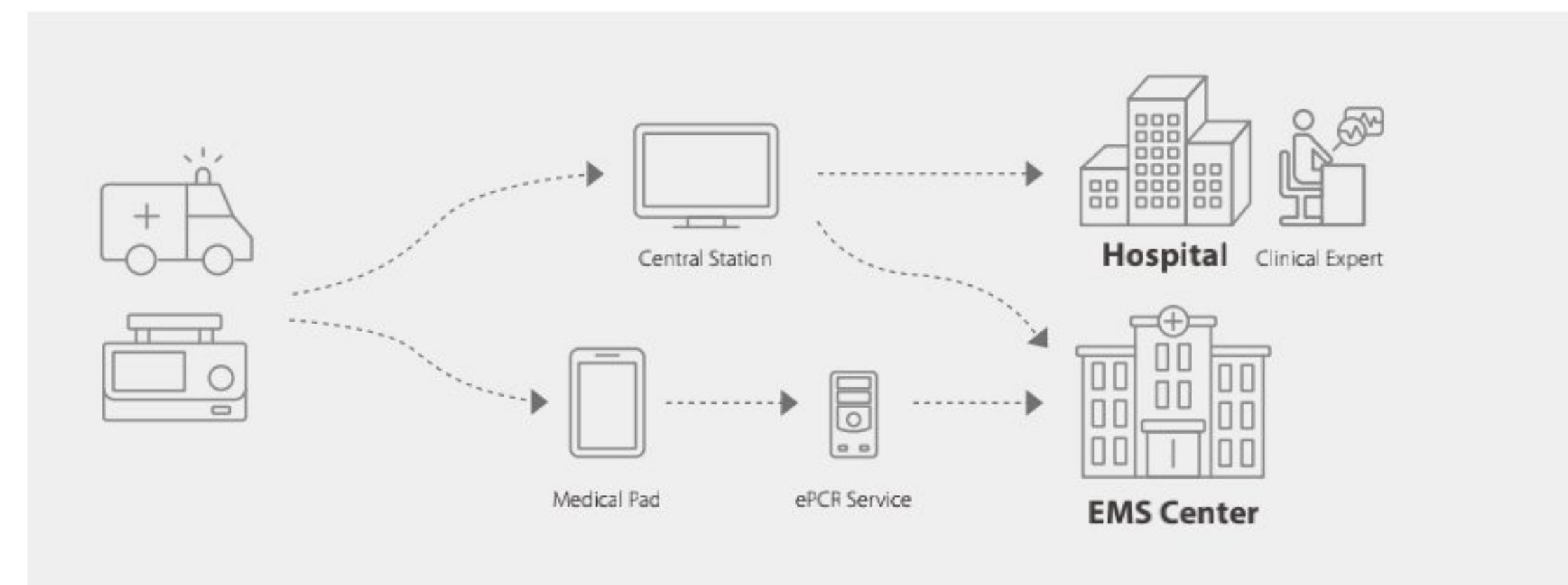


20G
Force resistance



Seamless Integration with Telemedicine Capabilities

In any first response situation, the time is of the essence. The TV50 transport ventilator is equipped with rich data communication interfaces, allowing for the seamless and real-time transmission of patient ventilation data to the hospital, shortening the response time as well as supporting timely care for patients.



Powerful and Comprehensive Support

The TV50 transport ventilator combines the portability and durability of the transport ventilator with the power of the intensive care ventilator, aiming to provide the ideal ventilation support for various physiological alteration throughout the patient transport process.

Comprehensive Ventilation Support

- Versatile: Supporting invasive, non-invasive and O₂ therapy ventilation for adult, pediatric, and infant
- Same ventilation mode as the bedside ventilator, realizing continuous ventilation therapy throughout patient transport
- AMV (Adaptive Minute Ventilation) ventilation mode that automatically adapts to patient status, to ease clinician's workload
- Emergency ventilation CPRV mode, one-button quickly accesses preconfigurable CPR ventilation settings to optimize safer resuscitation process



Mainstream CO₂ monitoring

The TV50 transport ventilator supports Mindray mainstream CO₂ monitoring and provides reusable and disposable adapters. This allows for widespread utilization of EtCO₂ monitoring in various clinical scenarios, such as confirming the position of artificial airway and assessing patient condition^[1].



Flexible Data Transfer

The TV50 transport ventilator supports 5G, WiFi and Bluetooth, which can transmit data such as ventilator setting parameters and monitoring parameters to the ePCR system or other medical hand-held system.

Pre-arrival Clinical Data

When the TV50 transport ventilator is connected to the CMS (Central Monitoring System) of the hospital, the ventilation data of the patient can be transmitted to the target hospital CMS viewer during transport, so the treatment plan can be formulated as soon as possible.



[1] Pediatr Emer Care 2018;34: 888-894.

Note: Some functions are optional, please consult your local sales representative for availability.