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A7

Anesthesia system

Fusion for Safety





www.mindray.com

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healthcare within reach

As clinical technology advances, the use of anesthesia continues to expand. Various patients and surgeries require high-quality anesthesia. Moreover, the current shortage of medical resources demands greater operation efficiency. Mindray's new A7 anesthesia system addresses the trend towards diversified anesthesia, offering an integrated solution that provides precise anesthesia and lean management. This helps improve the safety and efficiency of anesthesia.

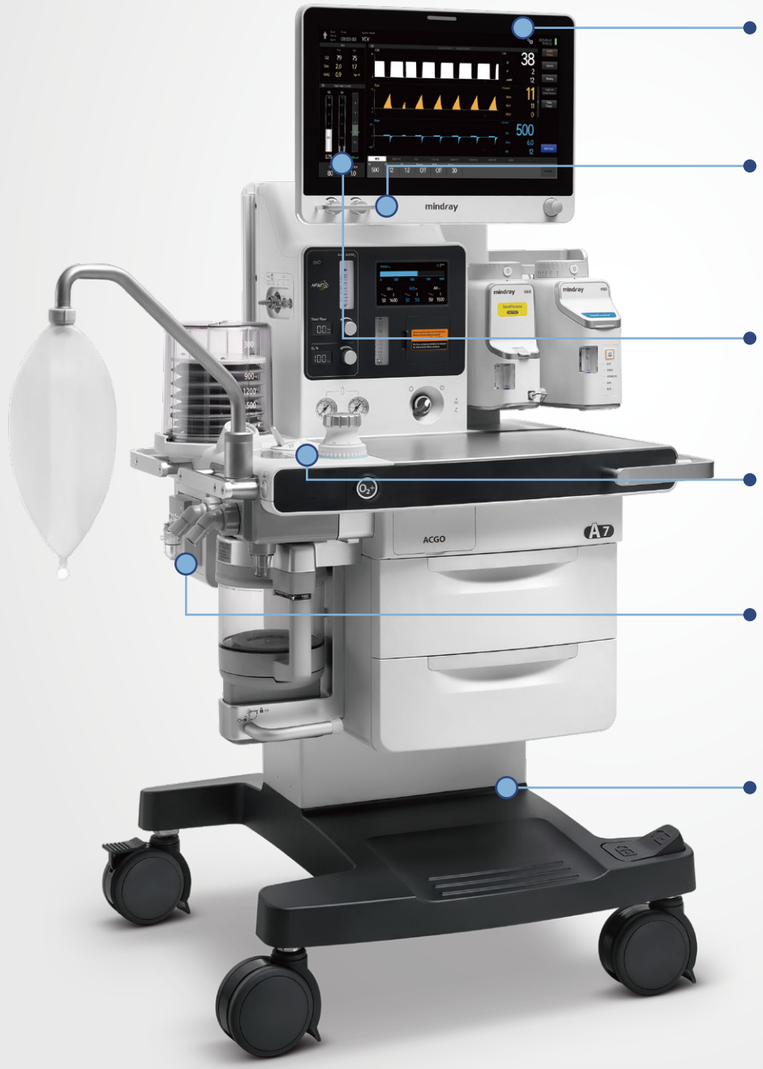
Integrated Anesthesia Solution, Together and Stronger

Diversified Ventilation, Professional Care

More Flexible, More Reliable

Stay Connected for Greater Efficiency

Compact yet powerful



- 18.5-inch capacitive touchscreen with 360-degree rotation
- Electronic flowmeter with traditional ease-to-use knobs, supporting multiple setting methods
- Optimizer for precise fresh gas flow settings
- Integrated breathing circuit with classic panel design
- Plug-and-play monitoring modules compatible with Mindray modular patient monitor
- Smaller footprint, bigger workspace

Integrated Solution, Together and Stronger



Combined intravenous-inhalational anesthesia (CIVIA) typically involves the use of multiple anesthetic drugs to achieve a balanced anesthesia state while reducing the dosage of any single drug and its potential adverse reactions. However, this method faces several challenges in anesthetic practice:

Multiple devices in scattered locations

Intravenous anesthetics are delivered via pumps, while inhalational anesthetics are delivered via anesthesia machines. Anesthesiologists must walk back and forth for observation and operation.

Vital signs on different interfaces

Due to patient variability, anesthesiologists need to closely monitor vital signs. However, this information is dispersed across different devices, making it hard to assess.

Lack of a combined drug effect indicator

Anesthesiologists need to understand the pharmacokinetics and pharmacodynamics of each anesthetic drug and consider the interaction between drugs, relying heavily on their experience.

AnaeSight™

AnaeSight™ is an integrated solution for combined intravenous-inhalational anesthesia that connects anesthesia machines, patient monitors, and pumps. This brings greater convenience to operation and more confidential decision-making, significantly improving the safety and efficiency of anesthesia.

Centralized control

Anesthesiologists can remotely control the pumps through the anesthesia machine, adjusting intravenous and inhalational anesthetics on the same interface.



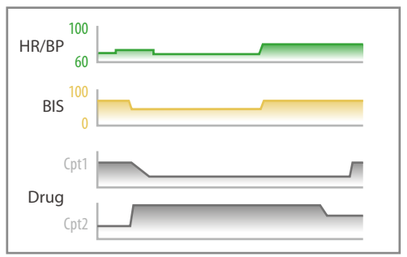
Administer intravenous anesthetics on anesthesia machine



Brand new V60 anesthetic vaporizers

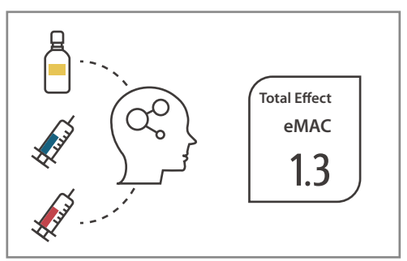
Integrated assessments

Vital sign parameters from the anesthesia machine and patient monitor, as well as historical medication from pumps, can be displayed on the same window, making it convenient to comprehensively assess the patient's status.



Combined drug effect

An innovative indicator of the combined drug effect of multiple anesthetics called eMAC™ is included in AnaeSight. This indicator is based on published pharmacokinetics and pharmacodynamics models, assisting with the administration of anesthetic drugs.

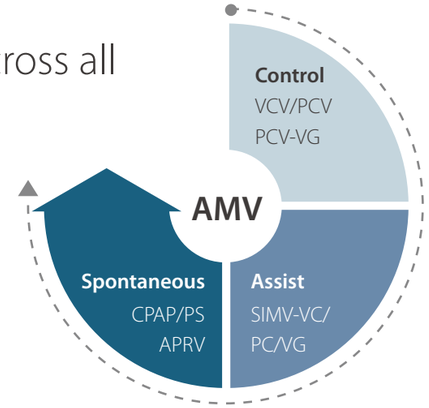


Diversified Ventilation, Professional Care

As the population ages and issues like obesity become more prevalent, optimizing ventilation management for patients during the perioperative period has become an important concern for anesthesiologists. A7 offers a range of ventilation methods, including both intubated and non-intubated anesthesia, to meet the needs of all patients.

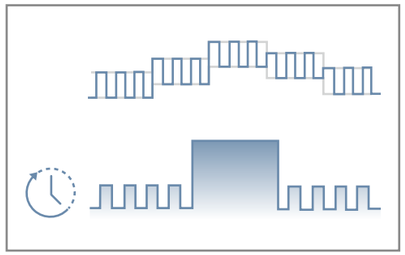
Experience optimal performance across all stages of anesthesia

A full range of ventilation modes is available to meet the needs of patients of all ages, from adults to neonates. This enables precise ventilation care throughout the entire anesthesia process.



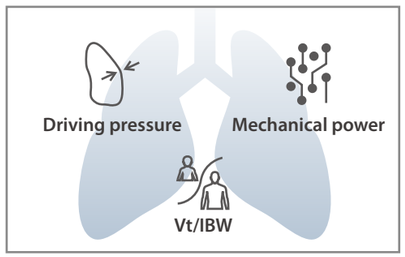
Powerful Lung Recruitment Tool

- Two optional maneuvers: stepwise PEEP or sustained inflation
- A scheduled recruitment maneunver can be performed automatically



Advanced monitoring parameters

- Vt/IBW: clear guidance on lower tidal volume settings to avoid barotrauma
- Driving pressure: individualized guidance on ventilation parameter settings
- Mechanical power: precise assessment of perioperative lung injury and outcomes



High Flow Nasal Cannula HFNC

High flow nasal cannula (HFNC) plays an important role in maintaining safe oxygen saturation of patients as it extends the safe apnoeic oxygenation especially for patients with poor oxygen saturation such as bariatric, pediatric, critical ill or difficult airway.

- Direct setting of total flow and O_2 concentration with maximum flow up to 100L/min
- Built-in design with no additional gas or power source required, saving space and minimizing clutter



Jet ventilation HFJV

Jet ventilation can be used in shared airway surgeries, difficult airway cases, and more. It can improve patient safety by maintaining oxygenation while creating a better surgical field.

- Improved safety: superimposed jet ventilation to maintain patient oxygenation while avoiding CO_2 retention
- Smoother operation: quickly switch between jet and conventional ventilation
- More environmentally friendly: compact design, space-saving without cluster



More Flexible, More Reliable

The operating room environment is complex due to the presence of numerous equipment. Anesthesiologists face heavy, fast-paced, and intense work every day. The new A7 anesthesia system is equipped with a flexible design, intuitive interaction, and reliable performance. It helps anesthesiologists deal with daily work easily in various anesthesia environments.

Flexible for daily work



18.5-inch capacitive touchscreen



1920x1080 HD



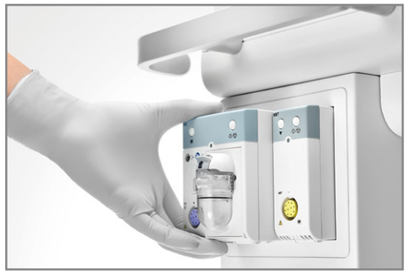
10 customized profiles



Graphical instruction



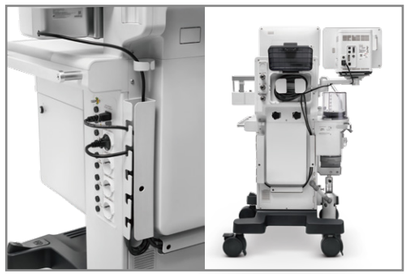
Rotatable screen with 360-degree angle of view



Plug-and-Play monitoring modules



Optional flip-up work table for more working space



Neat cable management, clean and tangle-free



Easy for maintenance

- Integrated breathing system with heating module to reduce condensation
- Compatible with both reusable and disposable soda lime canisters, ease to replace the absorbent
- All parts are autoclavable, preventing cross-infection
- FlowSecure™ ensures the flow sensors maintain accuracy while extending their life span



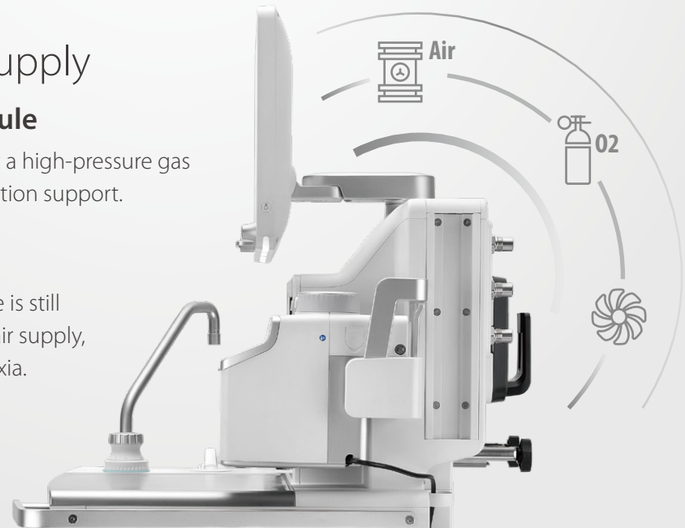
More options for gas supply

Optional built-in turbine module

The ventilator can work normally without a high-pressure gas supply, providing non-interrupted ventilation support.

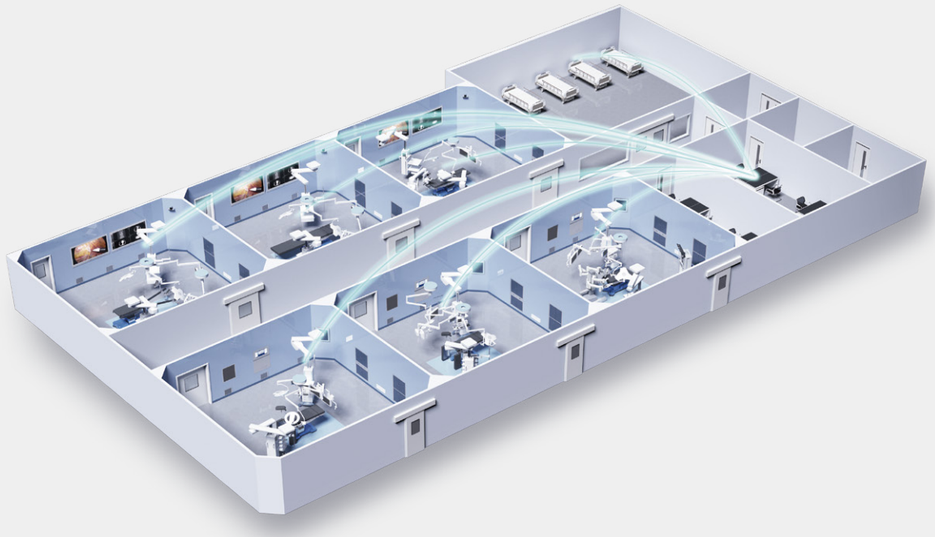
Optional internal air supply

Delivering fresh gas of air-oxygen mixture is still possible in the case of no high-pressure air supply, avoiding prolonged exposures to hyperoxia.



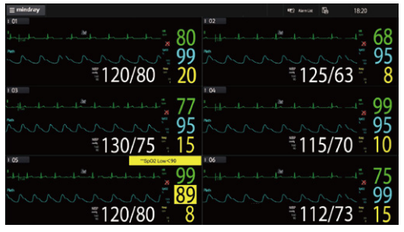
Stay Connected for Greater Efficiency

Comprehensively improve the operating efficiency of departments through information technology, make complicated work orderly, help clinical workers easily cope with various challenges, comprehensively improve the quality of medical services centered on patients, and realize lean management of all departments.



Overview of patient status in each operating room

- Monitor patient vital signs in real-time across all operating rooms
- Conveniently review the complete surgical process information of patients



Overview of the operational status of devices

- Overview of anesthesia machine distribution and utilization
- Summary of anesthesia machine self-test results
- Statistics of anesthetic gas consumption





Remote control solution in DSA room

A remote control solution in DSA room relies on the perioperative ecological system. This allows anesthesiologists to remotely control the anesthesia machine, patient monitor, and pumps in the operating room from the DSA control room, thus ensuring the safety of patients and anesthesiologists.

The remote observation and control feature allows for immediate intervention, ensuring patient safety and reducing the time for radiation exposure in the DSA operating room, thus reducing occupational injuries.

Not all features are for sale in all countries.