HPA®

mindray

WATO EX-65 Pro
Anesthesia system

Since 2006 Mindray has successfully installed over 50,000 anesthesia machines for customers all over the globe. We are glad and proud that every few seconds a clinician somewhere on this planet happily switches on a Mindray anesthesia machine.

For the last decade, Mindray has continued to work closely with clinicians across the globe, to recognize and understand the clinical challenges encountered every day and overcome them with new innovative and intuitive solutions. With this in mind, Mindray is now proud to bring you the flagship of the WATO series, the WATO EX-65 Pro.

More Precise

With new integrated innovative functions, the WATO EX-65 Pro enables you to precisely control the system for different types of patient easily.

More Visible

With a 15-inch high-resolution display and intuitive touch user interface, the WATO EX-65 Pro makes the anesthesia process more visible.

More Cost Effective

As a multifunctional anesthesia system, the WATO EX-65 Pro is designed with cost in mind.

More Precise

Enjoy Optimal Performance at Every Stage of Anesthesia

A full range of ICU grade ventilation modes meet your requirements through all the stages of anesthesia, enabling precise ventilation care for the critically ill patient.

- VCV
- PCV
- PCV-VG
- SIMV-VC
- SIMV-PC
- SIMV-VG
- PSV + Apnea
- CPAP/PS
- APRV

VCV
PCV
PCV-VG
SIMV-VC
SIMV-PC
PSV + Apnea (with I:E setting)
SIMV-VG
APRV
CPAP/PS

Perioperative

NEW
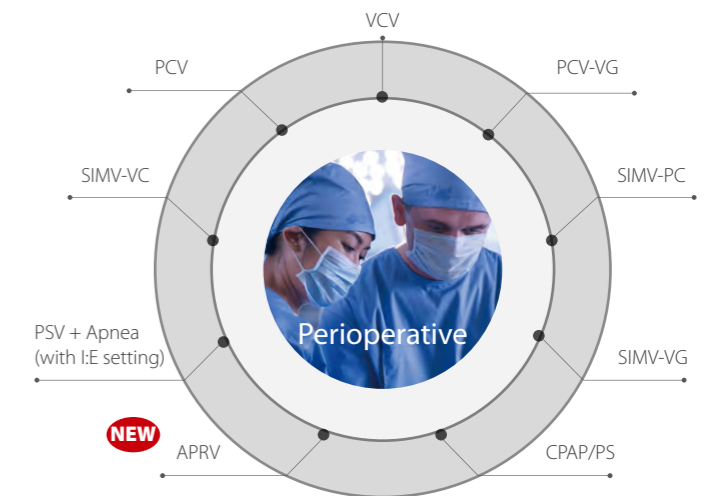
Integrated HFNC for Better Perioperative Management

High flow nasal cannula (HFNC) plays an important role in maintaining safe oxygen saturation in patients as it extends the safe apnoeic oxygenation time during induction. HFNC can help clinicians intubate more easily, especially for patients with poor oxygen saturation such as bariatric, pediatric, or critically ill patients, or those with a difficult airway.

More Visible

Precise Digital Gas Mixer with Safe Low Flow by Optimizer

The digital gas mixer makes fresh gas flow settings easier and more precise.

The fresh gas flow Optimizer indicates the recommended fresh gas flow setting against your current setting value and the minimum O_2 needed by the patient. It ensures a safe low flow and minimizes the waste of anesthetic agents and medical gases.
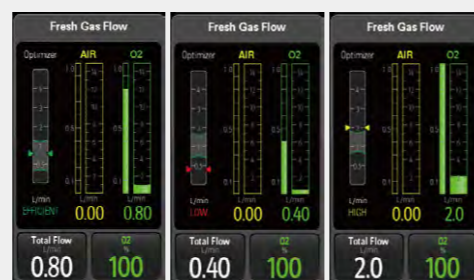
Precise Monitoring

Mindray Plug-and-Play Multi-Gas modules provide comprehensive breath-by-breath analysis of O_2, CO_2, N_2O, and auto-detection of five anesthetic agents, as well as BIS.

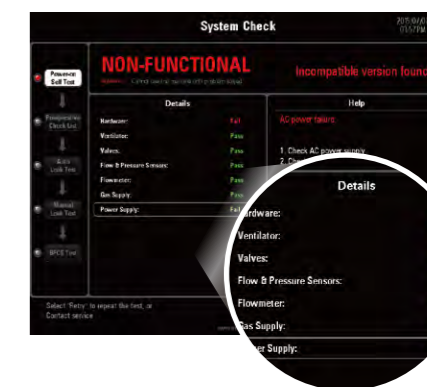### 15-inch Touchscreen with Intuitive UI

With a high-resolution, 15-inch capacitive touch-screen users are able to view and configure parameters as required. The intuitive layout and simple flat-menu structure ensure all parameters are clearly displayed and only two steps are required to set the ventilation mode.

Visual System Check

The System Check can be visualized with graphs and charts to simplify complicated operation steps.
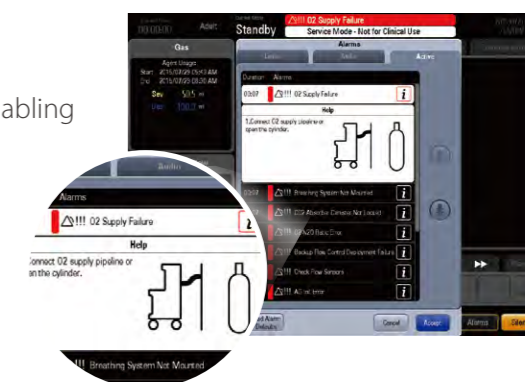
- Automatic self-test
- Manual leak test with step by step graphic instructions
- Recommended solution for failed steps using written instructions and graphics

Smart Alarm

The Smart Alarm provides the real-time graphic information, enabling quicker correction of potentially fatal errors.
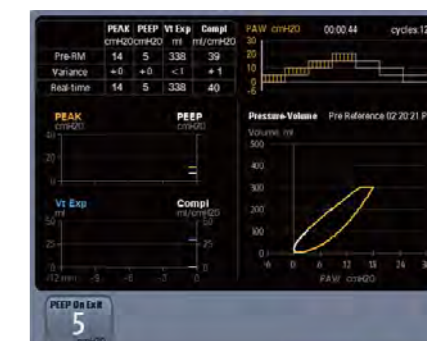
- More alarm information: access to alarm log
- Alarm limit setting directly from the alarm message
- Picture indication of potential issues

Lung Recruitment

The new Lung Recruitment function induces improvements in gas exchange and respiratory mechanics, and can reduce the incidence of postoperative pulmonary complications.

- Two optional maneuvers: stepwise PEEP or sustained inflation
- Multiple criteria to evaluate recruitment effectiveness

▣ More Cost Effective

Saves Anesthetic Agents

The low flow Optimizer provides real time guidance for cost-effective optimization of the fresh gas flow, and thus the anesthetic agent. During general inhalation anesthesia, the Optimizer continuously informs users whether the fresh gas flow is too high, appropriate, or too low.
Using the Optimizer results in a large reduction in anesthetic consumption, saving money and reducing environmental pollution.

AA Measurement: The new anesthetic agent calculation software enables you to monitor real-time anesthetic agent consumption and keep costs in mind.

With AA prediction, it is possible to display both previous and current values of FiAA, EtAA as well as MAC, and even forecast their future trends.

LOW FLOW

Price
Dependent on fresh gas flow

Pollution
Operation room, environment

Patient
Temperature, humidity

Fresh Gas Flow

AA 0 ml/h

O2 AIR Optimizer

0.36 0.85 LOW

O2 % 45 Total Flow L/min 1.2

Waveforms Prediction

Why low flow?

Optimizer
AA Measurement

AA prediction

Modular Design

The Plug-and-Play monitoring modules are compatible with the Mindray modular patient monitor. The modular design not only saves money, but also makes maintenance of your devices easier.

Flow Sensors Which Users Could Calibrate

Flow sensors are always a challenge for users of anesthesia machines. They need changing every couple of months, and sometimes will become inaccurate and affect the precision of Tidal Volume. And normally they have to be calibrated by a service technician.

The WATO EX-65 Pro is different. As well as the two flow sensors in the expiration and inspiration ports for dynamic tidal volume compensation, the WATO EX-65 Pro comes with a built-in 3rd flow sensor as a benchmark. The benchmark flow sensor is used to calibrate the flow sensors in the expiration and inspiration ports to ensure the flow sensors maintain accuracy while extending their life span. Users can even calibrate the sensors themselves.

- 3rd benchmark flow sensor
- User calibration
- Extended life span