mindray

WATO EX-65 Pro
Enhanced Precision with new Digital Platform

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mindray
healthcare within reach

Since 2006 Mindray has successfully installed over 20,000 units of anesthesia machine to customers all over the globe. We are glad and proud that every few seconds there would be a clinician somewhere on this planet switches on a Mindray anesthesia machine with satisfaction.

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

More Precise...

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

A digital gas mixer with low flow Optimizer makes gas delivery precise and safe low flow possible.

More Visible...

With a 15.1 inch high resolution display, intuitive touch user interface. The WATO EX-65 Pro makes anesthesia process more visible.

Visualizing the System Self-test procedure and smart alarm management with graphs and charts to simplify complicated operation steps.

More Cost Effective...

As a multifunctional anesthesia workstation, WATO EX-65 Pro is designed with cost in mind.
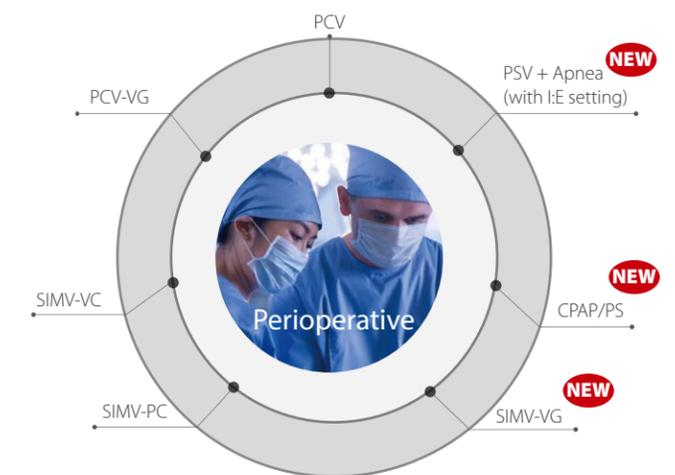
Lower flow becomes possible with Optimizer, which helps reducing the usage of anesthetic agent. The much longer life span flow sensors makes the maintenance much easier.

Enjoy maximum performance at all stages of anesthesia

A full range of ICU grade ventilation modes meet your demands through all the stages of anesthesia.

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

PCV

PSV + Apnea **NEW**
(with I:E setting)

PCV-VG

CPAP/PS **NEW**

SIMV-VC

Perioperative

SIMV-PC

SIMV-VG **NEW**

Modern anesthesia ventilators offer a wide variety of ventilation modes, enabling complex ventilation care for the critically ill patient.

The WATO EX-65 Pro's ventilator has unique Volume Guarantee modes to deliver desired total volume to the patient in PCV and SIMV modes. PCV-VG delivers the desired tidal volume to the patient, offers the benefits of PCV with lowest inspiratory pressure for all breaths, better oxygenation, along with the security of consistent tidal volume.

SIMV-VG delivers a set rate of pressure controlled breaths with a guaranteed volume to the patient. The patient can breathe spontaneously between mandatory breaths. Pressure support can be used to support the spontaneous breaths.
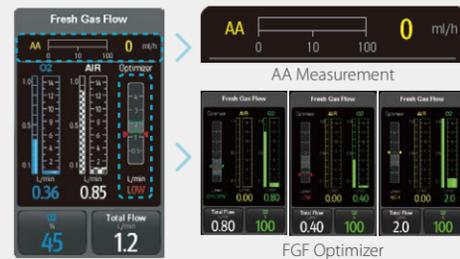
More Precise...

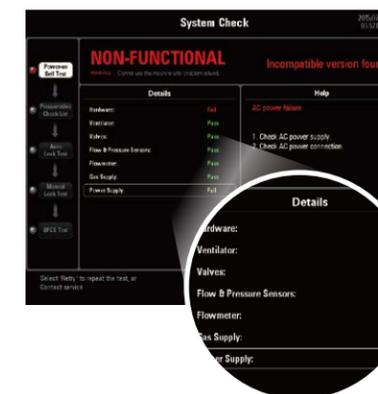## 15.1 inch Touch Screen with Intuitive UI

Configured with a high resolution, intuitive, 15.1 inch full color 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 required for ventilation mode setting.

Precise digital gas mixer with safe low flow by Optimizer

The digital gas mixer makes fresh gas flow setting 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 of the patient. It enables a safe low flow and minimize the waste of anesthetic agents and medical gases.

AA Measurement

FGF Optimizer

Visual Self-test

Visualizing the System Self-test procedure with graphs and charts to simplify complicated operation steps.

- Automatic self-test
- Manual leak test with graphic instruction step by step
- Recommended solution for failed step by words and by picture

Precise Monitoring

With improved single slot CO_2 module or double slot anesthetic agent capability the Mindray Plug-and-Play Multi-Gas modules provide comprehensive breath-by-breath analysis of FiO_2, EtO_2, CO_2, N_2O, auto-detection of five anesthetic agents, as well as BIS.
AA Measurement: The new anesthetic agent calculation software enables you to monitor the real time agent consumption and keeps cost in mind.
Sample Gas return: The monitoring sample gas returns to breathing circuit, it saves the cost for medical gas and anesthetic agent as well as reducing the waste gas.

Smart Alarm

The Smart Alarm providing the real-time graphic information enables urgently correction of the fatal error more quickly.

- Touchable alarm
- More alarm information: access to alarm log
- Alarm limit setting directly from the alarm message
- Picture indication for potential issues

More Cost Effective...

Optimizer saves your anesthetic agent

The low flow Optimizer provides real time guidance for cost effective optimization of fresh gas flow, and thus anesthetic agent. During general inhalation anesthesia, the Optimizer continuous informs users whether the fresh gas flow is too high, appropriate or too low.

The availability of Optimizer results in large reduction in anesthetic consumption, it helps cost savings and reduced environmental pollution.

LOW FLOW

Price

dependent on fresh gas flow

Pollution

operation room, environment

Patient

temperature, humidity

Optimizer

OR number			50
Inhalation anes per year per OR			750
Minute Volume (L/min)			6
Price of Sevo (per ml)			$0.6
FGF Flow (ml/min)			
5.0	3.0	1.0	0.5
Cost per operation			
$19.55	$11.63	$3.72	$1.74
Cost per OR per year			
$14,660.45	$8,723.50	$2,786.55	$1,302.32
Agent & Gas Cost for anesthesia dept.			
$733,022.38	$436,175.01	$139,327.63	$65,115.79

Why Low Flow?

Why Optimizer can do it Better?

How much Optimizer saves you?

Modular Design

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

Flow Sensors Which Customers Could Calibrate

The flow sensors are always a trouble maker for anesthesia machine user. For every couple of months, the flow sensors shall be changed. Besides that, the flow sensor could easily lose its accuracy, and results the inaccuracy of Tidal Volume, but it could only by be calibrated by service technician.

As well as the two flow sensors in the expiration and inspiration ports for dynamic Tidal Volume compensation, 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 exp & ins ports to make sure the accuracy and expand the life span of the flow sensors tremendously. And the calibration could be operated by customers!

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