

❖ Ergonomics Design Anesthesia Machine

- ◆ More convenient operating and display systems for clinical requirements; Suitable for a wide range of anesthesia application: adult and infant. Tidal volume 20 ~ 1500 mL(Optional 10-1600mL).
- ◆ Electronic PEEP, Imported proportional valve, High precision electronic flowmeter,all ensure the excellent performance, durable for long-term use.
- ◆ Highly integrated circuits, centralized heating technique avoids condensation in the circuit with bypass function, the canister can be replaced during ventilation without stopping anesthesia operation.
- ◆ Sufficient monitoring parameter: Ppeak, Pmean, Pmin, Pplat, PEEP Compliance, Resistance, O₂%, EtCO₂, FICO₂ .
- ◆ Clinician's health concerns: Independent AGSS systems avoids anesthesia gas commulation & removes health concerns for clinicians.
- ◆ Complete alarm function to make sure that operating is accurate & stable.

System Specifications

Description	Technical Parameters
Machine	
Size	1410×950×650mm (H×W×D)
Weight	Approximately110kg
Maximum bearing weight of the top cover	30kg
Display	
Type	Color TFT LCD (touch screen)
Size	12.1 inches
Resolution	800 × 600 pixels
Brightness	Not adjustable
LED indication	
Alarm Indication	8 (yellow, red, and when the senior and mid-level alarms occur simultaneously, only red flashes on priority)
AC power indicator	1 (green)
Battery indicator	2 (green and orange)
Audio instruction	
Speaker	Alarm sounds, tone, volume adjustable, alarm tone meet IEC60601_1_8 standards.
Control	
Knobs	1 Support clockwise/counter-clockwise rotation and pressing operation
Button	4 Alarm pause, alarm reset, standby, back to the main screen
Interface	
Power supply	An AC power connector Three auxiliary output power interface
Equipotential USB	An equipotential ground 1 standard USB interface
Moving means	
Roller	4 castors, diameter 125mm
Brake castors	Two lockable front casters
Toolbox	
Drawer	Drawer 1: 200 × 392 × 398mm (H × W × D) Drawer 2: 200 × 392 × 398mm(H × W × D)
Respiratory System	
Bellows capacity	1500mL
Absorber Canister Capacity	1500mL
Connection	Suction/ACGO ports: standard OD 22mm, ID 15mm, tapered connector; Exhalation ports: standard OD22mm, ID 15mm, tapered connector. Manually breathing bag port: diameter 22cm In any mode, the system is not greater than 100ml/min leakage
System leaks	

System compliance	The loss due to the system's internal compliance gas volume (manual mode) as follows: ≤ 4 mL / cmH ₂ O
Adult mode	≤ 4 mL / cmH ₂ O
pediatric mode	≤ 3 mL / cmH ₂ O
Resistance	Inspiratory < 0.6 kPa Expiratory < 0.6 kPa
Real-time clock	
Range	2000(00 : 00)~2100 (23 : 59)
Accuracy	±1 minute
Display Resolution	1minute / month (at 21 ± 3 °C under the conditions)
Use the power	Independent power (button battery) power supply.

Main technical parameters

Description	Parameter
Basic function	
Display:	Digital 12.1" TFT with touch screen
Tidal Volume:	20-1500ml(Optional 10-1600mL)
Fresh Gas Compensation Pre-use check,	
Tidal Volume leakage testing and compliance compensation	
Electronic PEEP Electronically controlled, Pneumatically driven	
Waveform	
LOOP: P-V, V-F, P-F	
Paw-T, Flow-T, V-T,	
Optional :CO2-T, Pleth, AG	
Trend	
24hours	
Gas supply Pressure Monitoring	
Gauge-Pipeline supply: O ₂ , N ₂ O,Air	
Optional :Gauge-Cylinder: O ₂ , N ₂ O (Configured with Yoke Option)	
Monitoring Parameter	
Tidal Volume, MV, Frequency, I:E,	
Airway Pressure,Compliance,Resistance	
(Optional:EtCO ₂ 、 FICO ₂ , PHASEIN gas module for anesthetic agent)	
Application	

Infant, Pediatric and Adult	
Vaporizer	2 positions
Gas supply	O ₂ , N ₂ O, Air
Alternate O ₂ (safety flow)	Range : 0 to 15 L/min Indicator: Flow tube Indicator accuracy : ±10%

Fresh gas Flowmeter & Mixer(Electronic automatic control)

Flow range :	
O ₂ :	0 ~ 15LPM,
N ₂ O:	0 ~ 12LPM,
Air:	0 ~ 15LPM;
Flow accuracy :	± 10% of settingor ±0.1L/min
O ₂ concentration range :	21% to 100%O ₂ concentration
Accuracy:	± 5%
Electronic Miting Conspeusation :	0.5s (10%-90% flow step)
Compensation :	Temperature and atmospheric pressure compensated to standard conditions of 20 °C and

Hypoxic guard :	1013 kpa
FiO ₂ %	Electronic
Auxiliary O ₂ supply	O ₂ sensor
	Optional: O ₂ Flow meter
	(O ₂ : 0 ~ 15LPM) (Optional)
ACGO	Yes(Optional)
Battery	NI-MH battery build in.>90mins
Yoke system	Optional: O ₂ , N ₂ O
Cycle Absorber	Intergrated, bypass Design, heating system.

Setting Parameters

Description	Parameter
Tidal Volume	20 ~ 1500 mL(Optional 10-1600mL)
Frequency	1 ~ 100 bpm
Tinsp	0.1 ~ 10.0 s
I:E	4:1 ~ 1:10
Pause	0 ~ 60%
PEEP	OFF, 3 ~ 30 cmH ₂ O
Psupp	0 ~ 70 cmH ₂ O
Pressure Control	5 ~ 70 cmH ₂ O
Flow Trigger	0.5 ~ 20 L/min
Pressure Trigger	0 ~ 20 cmH ₂ O
Ramp	0 ~ 2s
Expiratory Trigger	5~80%

Monitoring Parameters

Description	Parameter
Tidal Volume Inspiration	0 ~ 2500 mL
Tidal Volume Expiration	0 ~ 2500 mL
MV	0 ~ 60 L/min
MVspont	0 ~ 60 L/min
Frequency	0 ~ 100 bpm
Ratespont	0 ~ 100 bpm
I : E	9 : 1 ~ 1 : 99
Ppeak	0 ~ 100 cmH ₂ O
Pmean	0 ~ 100 cmH ₂ O
PEEP	0 ~ 100 cmH ₂ O
Pplat	0 ~ 100 cmH ₂ O
Pmin	-20~100 cmH ₂ O
O ₂ %	15 ~ 100%
Compliance	0 ~ 300 mL/cmH ₂ O
Resistance	0 ~ 600 cmH ₂ O/(L/s)
EtCO ₂ (Optional)	0 ~ 13.3 %
FICO ₂ (Optional)	0 ~ 13.3 %
Anesthetic agent	Masimo gas module for anesthetic agent
Flow Trigger	0.5 ~ 20 L/min
Pressure Trigger	0 ~ 20 cmH ₂ O
Ramp	0 ~ 2s
Expiratory Trigger	5~80%

Alarm Parameters

Description	Parameter
Tidal Volume	
Upper limit	30 ~ 2000 mL
Lower limit	OFF, 20 ~ 1500 mL
MV	
Upper limit	1 ~ 99 L
Lower limit	0 ~ 98 L

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O ₂ % (Optional)	
Upper limit	22 ~ 100%, OFF
Lower limit	20 ~ 99%
Airway Pressure	
Upper limit	10 ~ 99 cmH ₂ O
Lower limit	1 ~ 98 cmH ₂ O
Frequency	
Upper limit	1 ~ 100 bpm
Lower limit	0 ~ 99 bpm
EtCO ₂ (Optional)	
Upper limit	0.1 ~ 13.3 %;
Lower limit	0 ~ 13.2 %;

Environmental Specifications

Description	Parameter
Work Environment	
Temperature	10~40°C
Humidity	5~95%,non-condensing
Environmental pressures	50~106 kPa
Storage environment	
Temperature	-20~55°C
Humidity	10~95%,non-condensing
Environmental pressures	50~106 kPa

Power Specifications

Description	Parameter
External AC power	
Input Voltage	100-240V
Input Frequency	50/60Hz
Input Power	<150 VA
Internal Battery	
Number of batteries	A battery pack
Battery Type	NIMH batteries
Rated battery voltage	12VDC
Battery capacity	4200mAh
Shutdown Delay	Less than 10min
Shortest supply time	90min
Charging time	4h

Vaporizer:

Description	Parameter
Flow range:	0.2-15L/min
Connector type:	Selectatec compatible, Plug in, Cagemount Pour-fil, Easy-fil, Quik-fil (Sevoflurane)
Dosing methods:	

Working environment

Working temperature:	+15 °C ~ +35 °C
Relative humidity:	≤93%
Atmospheric pressure range:	70kPa ~ 106kPa
Storage temperature:	-40 °C ~ +65 °C

Anesthetic concentration

0 ~ 5.0%:	Isoflurane, Enflurane, Halothane
0 ~ 8.0%:	Sevoflurane

Alarm Setting Parameters

All setting for High pressure alarms & TV & airway pressure are adjustable



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Anaesthetic Workstation



X50

Anaesthetic workstation for operation room
12.1" Touch screen Color TFT

Top Shelf And Light

Loading weight 30Kg, Height: 1410mm, Width: 550mm, Depth: 350mm, LED light illuminates all work surfaces.

Friendly Interface

12.1" TFT touch screen, with a rotary knob. Resolution 800 X 600.

Anesthesia Ventilator

Tidal volume: 20-1500mL(Optional:10~1600mL). Easy to upgrade model of ventilation.

Dual DIN Rail Sys

Adapt patient monitor support arm, BIS SYS or syringe pump frame on both sides.



Anesthesia Gas Scavenging System

Independent active AGSS exhaust, avoids anesthesia air pollution in the OR & concerns over clinicians health.



Antistatic Casters

Four casters with two brakes, diameter is 125mm.

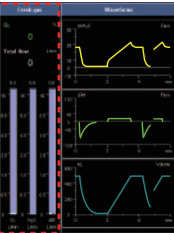
Monitoring Interface

Intuitive displays for overall parameters of setting, measurement and graphic trends data.



Electronic Flowmeter Module

Adjustable O₂, N₂O, Air and fresh gas simulated display.



Dual Vaporizer

Select bar support 2 vaporizers position for Isoflurane, Sevoflurane, Halothane VP10 vaporizer compensates for variances in pressure, temperature and flow and needs no annual recalibration.



Yoke

PISS standard, optional max 2 cylinders.



Drawer

Size: 200 x 392 x 398mm(H x W x D) x 2, Optional max 3.

Suction

Patient suction system with a regulator and reusable canister.



❖ Ergonomic Integrated Breathing Circuit

Technology innovation:

- ◆ A closed and semi-closed circuit; natural latex free to avoid allergic reaction. Fully 134 °C autoclavable to avoid cross infection, especially for respiratory disease operation.
- ◆ Embeded design, flow sensor with variable orifice, suitable for different applications from infant to adult. Tidal volume 20 ~ 1500 mL(Optional 10-1600mL).
- ◆ Efficient, integrated heating system, optimized airway and water trap design to ensure the air flow without effected by condensation. Also ensures the accuracy of operation for long term.
- ◆ Bypass design, fast and convenient replacement of absorber canister , priority alarm function reminds the user always for safe and reliable operation.

Humanized design:

- ◆ Circuit heating system controls the temperature at 35 °C (±2 °C) to avoid condensation effect on the flow sensor lifetime and accuracy; also make the patient feel more comfortable.
- ◆ Bypass design enable fast and convenient replacement of CO₂ canister without stopping operation. Special designed chamber assembly monitoring to avoid disoperation.

❖ CO₂ Absorber System

- ◆ 134°C autoclavable CO₂ absorber integrated bypass system, totally latex free.
- ◆ Variable orifice flow sensor design.
- ◆ 35 °C (±2 °C) integrated heating system.
- ◆ Bypass design with canister remove alarm.
- ◆ Easy installation, no special tools / training for cleaning, maintaining & disinfection is needed.



❖ Ventilation

- ◆ The large color LCD screen displays all ventilator's setting data, measurement information, loops and numeric / graphic trends. Standard Active Exhalation Valve, Electronic flowmeter, etc.
- ◆ Sufficient modes of Ventilation, Volume Control, Pressure Control, SIMV (Volume and Pressure), CPAP / PSV and manual. With Tidal volume 20ml which could apply adults and infant.
- ◆ Optional auxiliary oxygen flowmeter and with famous brand SPO₂, EtCO₂ provide more monitoring parameters for droctor's reference.

❖ Features

- Suitable for Neonatal, Pediatric and adults
- Tidal Volume setting 20~1500mL(Optional:10~1600mL)
- Friendly user interface
- 12.1" TFT color screen with touch screen
- With knob and key input
- Sufficient modes of Ventilation: VCV, PCV, SIMV-VC, SIMV-PC, PSV, Backup, Manual
- Gas supply: O₂, N₂O, Air Optional: PRVC, SIMV-PRVC, O₂, ETCO₂, AGSS, Suction

- Electronic Flowmeter more accurate and stable, Auxiliary flowmeter, Gas system,Hypoxic guard system, O₂ flush 25 to 75 L/min flow, using press sensitivity
- Vaporizer mount: selectatec bar support 2 vaporizers ACGO, 2 Yokes (O₂ & N₂O)

Good integration:

- ◆ Built-in active expiratory PEEP valve
- ◆ Built-in battery
- ◆ Lung mechanics parameters and loops (P-V, V-F)

- ◆ Integrated absorber system, with heated function, bypass design, easy assembly, less leaks, Autoclavable 134 °C

