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, centrilized heating techinque avoids condensation in the circuit with bypass function, the canister can be replaced during ventilation without stoping 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		System compliance	The loss due to the system's
Description	Technical Parameters		internal compliance gas volume
Machine			(manual mode) as follows:
Size	1410× 950 × 650mm (H × W × D)	Adult mode	≤ 4 mL / cmH ₂ O
Weight	Approximately110kg	pediatric mode	$\leq 3 \text{ mL} / \text{cmH}_2\text{O}$
Maximum bearing weight		Resistance	Inspiratory < 0.6 kPa
of the top cover	30kg		Expiratory < 0.6 kPa
Display		Real-time clock	
Туре	Color TFT LCD (touch screen)	Range	2000(00:00)~2100 (23:59)
Size	12.1 inches	Accuracy	±1 minute
Resolution	800 × 600 pixels	Display Resolution	1minute / month
Brightness	Not adjustable		(at 21 \pm 3 $^{\circ}$ under the conditions)
LED indication	Trot dajastasie	Use the power	Independent power (button
Alarm Indication	8 (yellow, red, and when the senior and		battery) power supply.
, dam marcation	mid-level alarms occur simultaneously,	Main technical paramet	ters
	only red flashes on priorty)	Description	Parameter
AC power indicator	1 (green)	Basic function	. didilicte.
Battery indicator	2 (green and orange)	Display:	12.1" TFT with touch screen
Audio instruction	2 (green and orange)	Tidal Volume:	20-1500ml(Optional 10-1600mL)
Speaker	Alarm sounds, tone, volume	Fresh Gas Compensation Pre-use che	· •
Speaker	adjustable, alarm tone meet	leakage testing and compliance com	
	IEC60601_1_8 standards.	Electronic PEEP	pensation
Control	ilecooot_1_8 standards.	Waveform	
Knobs	1	LOOP: P-V, V-F, P-F	
KIIODS	Support	Paw-T, Flow-T, V-T,	
	clockwise/counter-clockwise	Optional :CO2-T, Pleth, AG	
		Trend	
Button	rotation and pressing operation 4	24hours	
Button	Alarm pause, alarm reset, standby,	Gas supply Pressure Monitoring	
	back to the main screen	Gauge-Pipeline supply: O ₂ , N ₂ O,Air	
Interface	back to the main screen	Optional :Gauge-Cylinder: O ₂ , N ₂ O (Co	onfigured with Yoke Option)
Power supply	An AC nower connector	Monitoring Parameter	oringured with Toke Option)
Power supply	An AC power connector Three auxiliary output power	Tidal Volume, MV, Frequency, I:E,	
	interface	Airway Pressure, Compliance, Resistar	0.50
Equipatantial		(Optional:EtCO ₂ 、FiCO ₂ , PHASEIN ga:	
Equipotential USB	An equipotential ground 1 standard USB interface	Application	s module for an estrictic agent)
Moving means	I Staridard OSB IIIterrace	Infant, Pediatric and Adult	
Roller	4 castors, diameter 125mm	Vaporizer	2 positions
	Two lockable front casters	Gas supply	O ₂ , N ₂ O, Air
Brake castors	TWO lockable from casters	Alternate O₂ (safety flow)	Range : 0 to 15 L/min
Toolbox		Arternate O ₂ (salety now)	Indicator: Flow tube
Drawer	Drawer 1:		Indicator: 10w tube
Diawei	200 \times 392 \times 398mm (H \times W \times D)	Fresh gas Flowmeter & Mixer(Ele	·
	Drawer 2:	Flow range:	ectronic automatic control)
	200 \times 392 \times 398mm(H \times W \times D)	O ₂ :	0∼15LPM,
Respiratory System	200 × 392 × 396HHII(H × W × D)	O ₂ . N₂O:	0 ~13LPM,
	1500ml	Air:	0~12LPM; 0~15LPM;
Bellows capacity Absorber Canister Capacity	1500mL 1500mL	Flow accuracy :	± 10% of settingor ±0.1L/min
' '		O ₂ concentration range :	21% to 100%O ₂ concentration
Connection	Suction/ACGO ports: standard OD 22mm,	•	$\pm 5\%$
	ID 15mm, tapered connector;	Accuracy:	± 5% 0.5s (10%-90% flow step)
	Exhalation ports: standard OD22mm,	Electronic Miting Conspensation:	
	ID 15mm, tapered connector.	Compensation :	Temperature and atmospheric
Contains Inches	Manually breathing bag port: diameter 22cm		pressure compensated
System leaks	In any mode, the system is not greater		to standard conditions of 20 C and

than 100ml/min leakage

System compliance	The loss due to the system's
	internal compliance gas volume
	(manual mode) as follows:
Adult mode	\leq 4 mL / cmH ₂ O
pediatric mode	\leq 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 \pm 3 $^{\circ}$ C under the conditions)
Use the power	Independent power (button
	battery) power supply.

Description	Parameter
Tidal Volume Inspiration	0∼2500 mL
Tidal Volume Expiration	0~2500 mL
MV	$0{\sim}60$ L/min
MVspont	0∼60 L/min
Frequency	0~100 bpm
Ratespont	0∼100 bpm
I:E	9:1~1:99
Ppeak	0 ~ 100 cmH₂O
Pmean	0~100 cmH₂O
PEEP	0~100 cmH₂O
Pplat	0 ~ 100 cmH₂O
Pmin	-20~100 cmH ₂ O
O ₂ %	15~100%
Compliance	0~300 mL/cmH₂O
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 fo
	anesthetic agent
Flow Trigger	0.5~20 L/min
Pressure Trigger	$0\!\sim\!20\text{cmH}_2\text{O}$
Ramp	0~2s
Expiratory Trigger	5~80%
	Tidal Volume Inspiration Tidal Volume Expiration MV MVspont Frequency Ratespont 1: E Ppeak Pmean PEEP Pplat Pmin O ₂ % Compliance Resistance EtCO ₂ (Optional) FiCO ₂ (Optional) Anesthetic agent Flow Trigger Pressure Trigger

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

1013 kpa

Electronic

O₂ sensor

Yes(Optional)

Optional: O₂, N₂O Intergrated, bypass Design,

heating system.

Parameter

1~100 bpm $0.1\!\sim\!10.0\,s$ 4:1 ~ 1:10 0~60%

OFF, 3~30 cmH₂O

 $0\sim70\,\text{cmH}_2\text{O}$ 5 ~ 70 cmH₂O

0.5~20 L/min

0~20 cmH₂O $0\!\sim\!2s$

5~80%

Optional: O₂ Flow meter (O₂: $0 \sim 15$ LPM) (Optional)

NI-MH battery build in.>90mins

20~1500 mL(Optional 10-1600mL)

Hypoxic guard:

Auxiliary O2 supply

FiO₂%

ACGO

Battery

Yoke system

Description

Tidal Volume

Frequency

PEEP

Psupp

Flow Trigger

Pressure Trigger

Expiratory Trigger

Monitoring Parameters

Cycle Absorber

Setting Parameters

O₂% (Optional)	
Jpper limit	22~100%, OFF
ower limit.	20~99%
Airway Pressure	
Jpper limit	10∼99 cmH2O
ower limit.	1∼98 cmH2O
requency	
Jpper limit	1~100 bpm
ower limit.	0∼99 bpm
EtCO ₂ (Optional)	
Jpper limit	0.1~13.3%;
ower limit.	0 ~ 13.2 %;

Environmental Specifications

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

Power Specifications

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
Dosing methods:	Pour-fil, Easy-fil, Quik-fil
	(Sevoflurane)
Working environment	
Working temperature:	+15℃ ~+35℃
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

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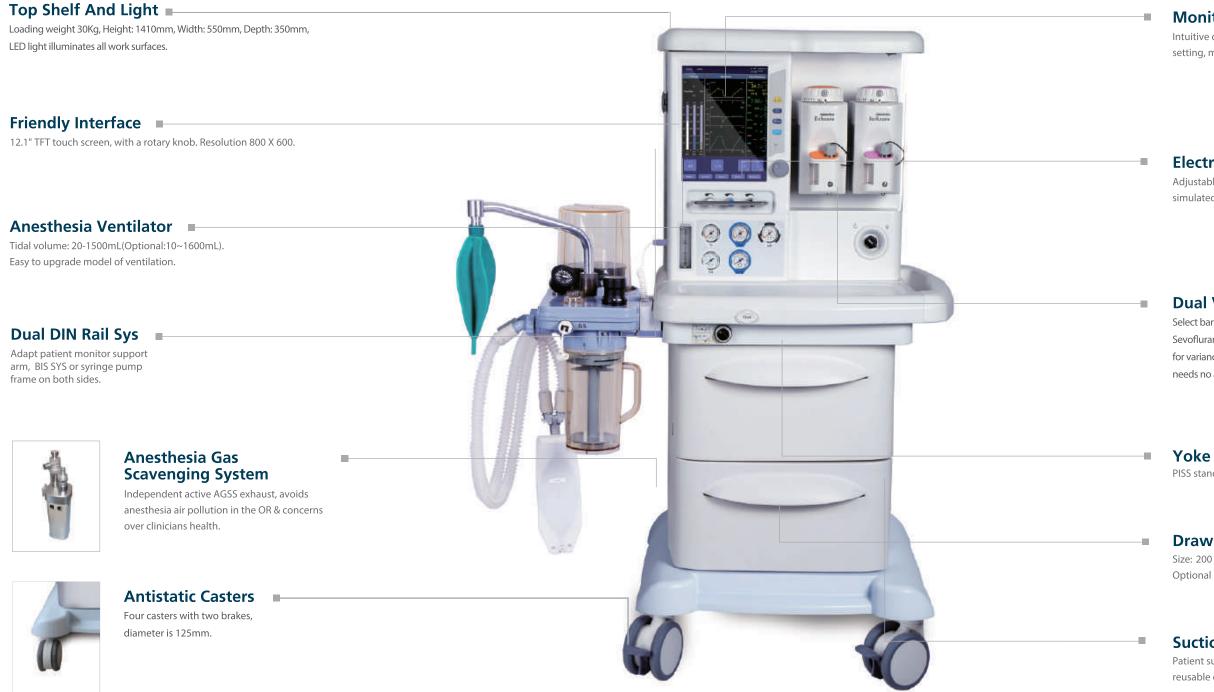
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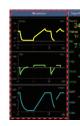






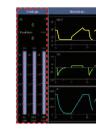
Monitoring Interface

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.



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.



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, priorty 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
- 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





