



ESV-650CX

Anesthesia machine



OPERATING THEATRE



APPLICATION

The Anesthesia machine makes a good performance in Intensive Care Units (ICU), Operation room, Anesthesiology Department and other departments.

From high to low acuity, simple to complex cases, pediatric to geriatric patients, Our Anesthesia Systems offer you the choices you need in ventilation, monitoring and technique. what's more, our expertise in anesthesia delivery and ventilation is based on rich 15-years history of developing anesthesia solutions that meet your needs.

Good performance based on High Security, High Accuracy, High Stability and accurate monitoring.

TRUST POINT

- Simplicity: easy to use, easy to move with 4 wheels.
- Choice: adapt the equipment to your patients and procedures freely
- Patient Centered Ventilation: Precision in an anesthesia ventilator, from conventional ventilation to advanced modes, including 5 modes: IPPV; A/C; PCV; SIMV; SIGH.
- Flexible configurations to suit your needs.
- International standard and advanced technology suitable for wide range use.
- Compact interface and touch screen give you better operating experience.

FEATURES

- 15" TFT LCD touch screen displays the Ventilation parameters, Alarming information and Waveform.
- Electronic flow meter, instantly know the fresh gas flow to your patient.
- Integration breathing circuit design, ensure easy operating and keep tidy.
- Multiple working modes such as volume control and pressure limit, adapt to wide range patient.
- Vaporizer with temperature, flow compensation and self-lock function, keep safety anytime.
- Multiple parameters monitoring interface, make every parameter clear, let users know the patient conditions in all aspects;
- Real time pressure-time, flow-time loop graphics and high precision ETCO₂, O₂ concentration detection function included.
- Vital sign monitor and Anesthetic gas monitor are optional.

SAFETY

- Three level alarming system, visual and sound alarm information.
- Intelligent dual system controls ensure safe use in clinics.
- With lots of alarming, reminding and protection functions.
- Advanced power management control technology.
- With built-in backup power source, when outside power source goes off, back-up power source starts to work.



TECHNICAL SPECIFICATION

Ventilation mode

IPPV, A/C, SIMV, SIGH, PVC

Ventilator Parameter Range

Flow meter:	O ₂ (0.1 ~ 10 L/min) N ₂ O (0.1 ~ 10 L/min) AIR (0.1 ~ 10 L/min)
Rapid oxygen supply:	35 L/min ~ 75 L/min
Tidal volume (Vt):	0, 20 mL ~ 1500 mL
Frequency (Freq):	1 bpm ~ 100 bpm
I:E:	4: 1 ~ 1: 8
PEEP:	0 cmH ₂ O ~ 30 cmH ₂ O
Pressure triggering sensitivity (PTr):	-20 cmH ₂ O ~ 0 cmH ₂ O (Based on PEEP)
Flow trigger sensitivity (FTr):	0.5 L/min ~ 30 L/min
Pressure control (PC):	5 cmH ₂ O ~ 60 cmH ₂ O
SIGH:	0 (off) 1/100 ~ 5/100
Apnea Ventilation:	OFF, 5 s ~ 60 s
Pressure Limit:	20 cmH ₂ O ~ 100 cmH ₂ O

Monitoring parameter

Frequency (Freq):	0 /min ~ 100 /min
Tidal volume (Vt):	0 mL ~ 2000 mL
MV:	0 L/min ~ 100 L/min
Oxygen concentration:	15 % ~ 100 %

Oscillogram Graphic Display

P-T (pressure – time)
V-T (volume – time)
F-T (flow - time)
P-V loop (pressure - volume loop)

Alarm and protection

The AC power failure alarm:	Power failure or no connection
Internal battery backup low voltage alarm:	< 11.3 ± 0.3 V
No tidal volume:	≤ 5 mL within 6 s
High oxygen concentration alarm:	19% ~ 100%
Low oxygen concentration alarm:	18% ~ 99%
High Airway pressure alarm:	20 cmH ₂ O ~ 100 cmH ₂ O
Low Airway pressure alarm:	0 cmH ₂ O ~ 20 cmH ₂ O
High Minute Volume alarm:	Adult (5 L/min ~ 20 L/min), Ped (1 L/min ~ 15 L/min)
Low Minute Volume alarm:	0 ~ 10 L/min
Continuous Pressure alarm:	(PEEP+1.5 kPa) over 16s
Suffocation warning:	5 s ~ 60 s no spontaneous ventilation
The maximum limited pressure:	<12.5 kPa
Fan error:	Show on screen
Oxygen deficit:	Show on screen

Working condition

Gas source:	O ₂ , N ₂ O, Air
Pressure:	280 kPa ~ 600 kPa
Voltage:	100 ~ 240 V - 50/60 Hz
Input Power :	80VA

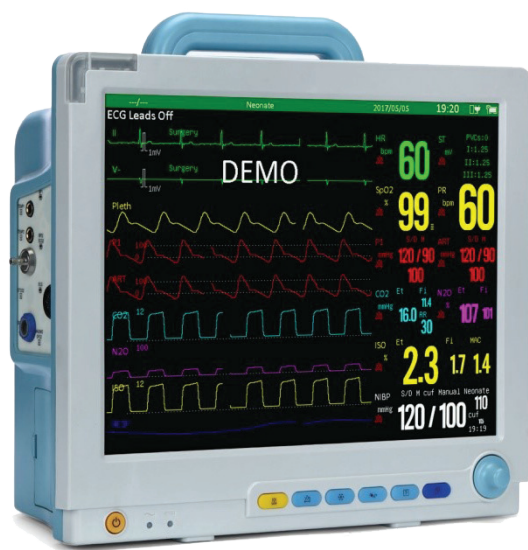


Packing size

Wooden case packing size:	L 870 * W 890 * H 1600 mm - G.W. 190 KG
Anesthesia Machine size:	L 930 * W 750 * H 1405 mm - G.W. 124 KG



ANESTHETIC MONITOR OPTIONAL



AG5S

Technical Specification:
 Sample Rate: 50mL/min, ±10mL/min
 Operation method: Non-dispersive infrared(NDIR), no moving parts
 Initialization Time: 20 sec, full specification within 60 sec
 Calibration: No routine user calibration required
 Compensation: Automatic for atmospheric pressure, temperature
 Rise Time: Co2<200ms, N2O, AA<350ms
 Respiratory Rate: Range 3~150BMP Accuracy±1BMP
 Breath Detect: Adaptive threshold, minimum 1% 2 value change
 Agent Threshold Agent: 0.15%
 Gases Accuracy:
 Co2: 0-10% ±(0.2 vol% +2% of reading)
 10-15% ±(0.3 vol% +2% of reading)
 N2O: 0-100% ±(2 vol% +2% of reading)
 ISO: 0-6% ±(0.2 vol% +2% of reading)
 ENF: 0-6% ±(0.2 vol% +2% of reading)
 SEV : 0-8% ±(0.2 vol% +2% of reading)
 Temperature & Humidity:
 Operating: 0°C to 40°C, 10 to 90%RH, no-condensing

VAPORIZER



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