Elektro GENESIS

Cherish your life, Cherish your health!

ANESTHESIA MACHINE

ELK-S6600
Anesthesia System

Application

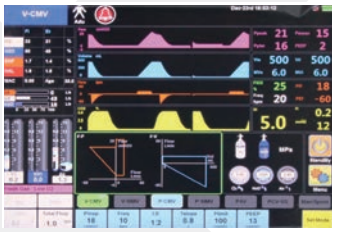
The anesthesia machine makes a good performance in Intensive Care Units (ICU), Operation room, Anesthesiology department and other departments. Professional design for adult, children and neonatal inhalation anesthesia and respiratory management, with advanced ventilation modes. Outstanding ergonomic design, it ranks high level in safty, stability and convenience as well as user experiences. ELK-S6600 latest model with the highest technology, more comfortable for doctors and more safety for patients.

Mechanical flowmeter

Emergency situation and spare-use for doctor.

Built-in electronic flowmeter

High precision flowmeter, instantly know the fresh gas flow to your patient.
O_2 and N_2O linkage device ensure O_2 concentration no less than 25%.



15” TFT LCD touch screen

- Extra-large screen, high sensitivity touch give you better operating experience.
- Displays the ventilation parameters, alarm information and oscillogram.

TRUST POINT

- Patient centered ventilation: Precision in an anesthesia ventilator, from conventional ventilation to advanced modes and adapt to wide range patient.
- Safty design: Vaporizer with temperature, pressure, flow compensation and self-lock function. Real time pressure-time, flow-time loop oscillogram and high precision ETCO2, O2 concentration detection function included.
- Alarm: 12 alarms to make sure the safety. 3 level alarm system, visual and sound alarm information.
- Built-in battery ensure 2-3 hours using when power failure.
- Visible self-checking system: Make sure the safety of all parts.
- Before setting parameters, choose freely type of patients: adult, children and neonatal. Also preset the age of patient.
- Separate design of electric circuit and gas circuit ensure long using life.
- Language: 8 languages for exchange including Chinese, English, Spanish, French, Russian, Turkish, German, Portuguese.

Auxiliary O_2 supply

Provide fresh oxygen to the patient for independent use

Vaporizer

Accurately delivers a calibrated flow, Halothane, Enflurane, Isoflurane, Sevoflurane for choice. Suitable for low flow anesthesia, save cost.

O_2 and air supply

Provide fresh oxygen or air to the patient for independent use.

Breathing circuit and bellow

Integration breathing circuit and bellow design, ensure easy operating and keep tidy. With bypass and heating function.

APL valve

Decompression automatic to ensure safety

Oxygen concentration detector

Real-time monitoring of oxygen concentration for safety

ACGO and fast oxygen supply

Emergency situation and revival after operation.

CO_2 absorber 1.2L

With bypass function and heating function, can be directly disassembledand replaced the Soda Lime during operation. Make sure the comfort level of patients and also avoid backflow of condensate water.

TECHNICAL SPECIFICATION

Ventilation Mode

V-CMV, V-SIMV, P-CMV, P-SIMV, PSV, PCV-VG, MANUAL

Ventilator Parameter Range

Tidal volume(Vt)	0, 10 mL ~ 1500 mL
Frequence(Freq)	4 /min ~ 100 /min
I:E	4:1 ~ 1:10
PEEP	0 cmH_2O ~ 30 cmH_2O
Rapid oxygen supply	35 L/min ~ 75 L/min
Pressure trigger	0 kPa ~ 30 cmH_2O
Flow trigger	0.3 L/min ~ 15 L/min
Pressure support	3 cmH_2O ~ 50 cmH_2O
Pressure limit	10 cmH_2O ~ 100 cmH_2O
Inspiration apnea	OFF, 5 % ~ 60 %
Inspiration time	0.2 s ~ 5 s
Trigger	5 % ~ 95 %
SIMV frequency	4 /min ~ 60 /min
Rise time	0 s ~ 2 s
Flowmeter	O_2 (0 ~ 15 L/min)
	N_2O (0 ~ 15 L/min)
	AIR (0 ~ 15 L/min)

Oscillogram

P-T (pressure-time)

F-T (flow-time)

V-T (volume-time)

ETCO2 -T (ETCO2 -time)

P-V loop (pressure-volume loop)

F-V loop (flow-volume loop)

F-P loop (flow-pressure loop)

Wooden Case Packing Size

Wooden case packing size：L 1005 * W 960 * H 1700 mm

G.W. ： 253 KG N.W. ：132 KG CBM ：1.650 m^3

Monitoring Parameter

Frequence (Freq)	0 /min ~ 100 /min
Tidal volume (Vt)	0 mL ~ 2500 mL
Minute volume	0.1 L/min ~ 99.9 L/min
Oxygen concentration	15 % ~ 100 %
Airway pressure	-20 cmH_2O ~ 100 cmH_2O
Inspiration platform pressure	0 cmH_2O ~ 100 cmH_2O
PEEP	0 cmH_2O ~ 70 cmH_2O
I:E	4:1 ~ 1:10

Alarm and Protection

High MV alarm	Power supply undervoltage alarm
Low MV alarm	Low tidal volume alarm
High airway pressure alarm	Continuous pressure alarm
Low airway pressure alarm	High frequency alarm
No tidal volume alarm	Suffocation alarm
High tidal volume alarm	Backup power alarm
Abosorber disconnection alarm	Battery exhausted alarm
High oxygen concentration alarm	Fan error
Low oxygen concentration alarm	Low oxygen supply alarm
High $ETCO_2$ concentration alarm	Low frequency alarm
Low $ETCO_2$ concentration alarm	

Testing

Automatic leakage compensation testing

Patient circuit leakage compensation and automatic compliance compensation

Patient monitor and AG monitor can be equipped

Manual ventilation, mechanical ventilation and standby

Oscillogram: P-T, F-T, V-T, Lung function loop, ETCO2

Self-testing visible

Alarm visible

ACGO function

System testing

ELK-S6200
Anesthesia System

Application

The Anesthesia machine makes a good performance in Intensive Care Units (ICU), Operation room, Anesthesiology Depart- ment and other departments. Professional design for adult, child and infant inhalation anesthesia and respiratory management, with advanced ventilation modes. Outstanding ergonomic design, it ranks high level in safty, stability and convenience as well as user experiences.

ELK-S6200 high-end model combine proven ventilation technology with the latest refinements in ergonomics and systems integration with an advanced, easy to use anesthesia table designed together with experienced experts to streamline your anesthesia workflow.

TRUST POINT

- Patient Centered Ventilation: Precision in an anesthesia ventilator, from conventional ventilation to advanced modes and adapt to wide range patient.
- Safty design: Vaporizer with temperature, pressure, flow compensation and self-lock function. Real time pressure-time, flow-time loop oscillogram and high precision $ETCO_2$, O_2 concentration detection function included.
- Alarm: 3 level alarm system, visual and sound alarm information.
- Power: Built-in battery ensure 2-3 hours using when power failure.
- Separate design of electric circuit and gas circuit ensure long using life.
- Flexible configurations able to customize your requirements.
- Designed and manufactured by Superstar Medical with over 25 years experience in this area.
- Altitude compensation: Suitable for high/low altitude areas.

Electronic Flowmeter

N_2O and Air are mixed with O_2 as a balance gas; when adjusting the flow rate, choose the balance gas N_2O or Air, and then control the compensation gas by adjusting the total flow rate and O_2 concentration, and at the same time, the O_2 concentration can be achieved not less than 25%.

Vaporizer

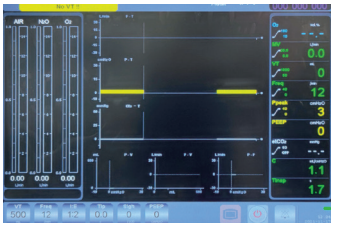
Accurately delivers a calibrated flow, Halothane, Enflurane, Isoflurane, Sevoflurane for choice. Suitable for low flow anesthesia, save cost.

Breathing Circuit

Integrated breathing circuit design. Breathing tube resistants high temperature sterilization. Ensure easy operating and keep tidy.

15” TFT LCD touch screen

- Displays the Ventilation parameters, Alarm information and Oscillogram. High sensitivity touch screen ensures accurate and easy operation.
- Alternate button for dual control.



Bellow

Integrated bellow 0mL-1500mL.
Suitable for all range patients.

APL valve

Automatic decompression to ensure safety

$ETCO_2$

End-tidal carbon dioxide concentration monitoring, real-time understanding of the patient state.

LED top light

Convenient for endoscopy operation.

Pressure gauge

Real time pressure for Air, O_2, N_2O from central gassupply and gas cylinders.

ACGO and fast oxygen supply

Emergency situation and revival after operation.

Handle

Easy and safety transport.

Drawer

3 drawers with large capacity for storing accessories.

Pedal

User-friendly design convenient for doctors to relax foot.

Caster

Diameter : 125mm,
2 individual brakes of 4 casters.

Optional part 1

Anesthetic gas monitor, vital signs monitor：real-time monitoring of anesthetic gas and patient's physiological condition.

Optional part 2

AGSS: To enhance the safety of the environment in which members of staff in close proximity with waste anesthetic gases and vapors (agents) work.

TECHNICAL SPECIFICATION

Ventilation Mode

IPPV, V-A/C, P-A/C, V-SIMV, P-SIMV,

PCV-PC, PCV-VG, PSV, SIGH, MANUAL

Ventilator Parameter Range

Flowmeter	O_2(0.2 - 15L/min)
	N_2O(0.2 - 12L/min)
	Air(0.2 - 15L/min)
Rapid oxygen supply	25 L/min - 75 L/min
Tidal volume	0, 10 mL - 1500 mL
Frequence (Freq)	1 /min - 100 /min
I:E	4:1 - 1:8
PEEP	0 cmH_2O - 30 cmH_2O
Pressure triggering sensitivity (PTr)	-20 cmH_2O - 0 cmH_2O (Based on PEEP)
Flow trigger sensitivity (FTr)	OFF, 0.5 L/min - 30 L/min
Pressure control (PC)	5 cmH_2O - 70 cmH_2O
SIGH	0 (off) 1/100 - 5/100
Apnea ventilation	OFF, 5% - 60%
Pressure limit	10 cmH_2O - 100 cmH_2O

Working condition

Gas source	O_2, N_2O, AIR
Pressure	280 kPa - 600 kPa
Voltage	100 - 240 V
Power frequency	50/60 Hz

Wooden Case Packing Size

Wooden case packing size : L 1005 * W 960 * H 1700 mm

G.W. :	253 KG	N.W. : 126 KG	CBM : 1.65 m3

Monitoring Parameter

Frequence (Freq)	0 /min - 120 /min
Tidal volume (Vt)	0 mL - 3000 mL
MV	0 L/min - 100 L/min
Oxygen concentration	15 % - 100 %

Alarm and Protection

High MV alarm	Power supply undervoltage alarm
Low MV alarm	Low tidal volume alarm
High airway pressure alarm	Continuous pressure alarm
Low airway pressure alarm	High frequency alarm
No tidal volume alarm	Suffocation alarm
High tidal volume alarm	Backup power alarm
Abosorber disconnection alarm	Battery exhausted alarm
High oxygen concentration alarm	Fan error
Low oxygen concentration alarm	Low oxygen supply alarm
High ETCO2 concentration alarm	Low frequency alarm
Low ETCO2 concentration alarm	

Oscillogram

P-T (pressure - time)

F-T (flow - time)

$ETCO_2$ - T (ETCO2 - time)

V-T (volume - time)

P-V loop (pressure - volume loop)

P-F loop (pressure - flow loop)

F-V loop (flow - volume loop)

ELK-S6200A
Anesthesia System

Application

The Anesthesia machine makes a good performance in Intensive Care Units (ICU), Operation room, Anesthesiology Department and other departments. Professional design for adult, child and infant inhalation anesthesia and respiratory management, with advanced ventilation modes. Outstanding ergonomic design, it ranks high level in safety, stability and convenience as well as user experiences.

ELK-S6200A high-end model combine proven ventilation technology with the latest refinements in ergonomics and systems integration with an advanced, easy to use anesthesia table designed together with experienced experts to streamline your anesthesia workflow

TRUST POINT

- Patient Centered Ventilation: Precision in an anesthesia ventilator, from conventional ventilation to advanced modes and adapt to a wide range of patients.
- Safety design: Vaporizer with temperature, pressure, flow compensation and self-lock function. Real time pressure-time, flow-time loop oscillogram and high precision $ETCO_2$, O_2 concentration detection function included.
- Alarm: Three level alarm system, visual and sound alarm information.
- Power: Built-in battery ensure 2-3 hours using when power failure.
- Separate design of electric circuit and gas circuit ensure long using life.
- Flexible configurations able to customize your require ments.
- Designed and manufactured by Superstar Medical with over 14 years experience in this area.
- Altitude compensation: Suitable for high/low altitude areas.

Electronic Flowmeter

High precision flowmeter, instantly know the fresh gas flow to patient.
O_2 and N_2O linkage device ensure O_2 concentration no less than 25%.

Vaporizer

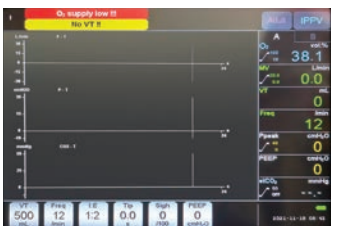
Accurately delivers a calibrated flow, Halothane, Enflurane, Isoflurane, Sevoflurane for choice. Suitable for low flow anesthesia, save cost.

Breathing Circuit

Integrated breathing circuit design. Breathing tube resistants high temperature sterilization.
Ensure easy operating and keep tidy.

12.1" TFT LCD touch screen

- Displays the Ventilation parameters, Alarm information and Oscillogram. High sensitivity touch screen ensures accurate and easy operation.
- Alternate button for dual control.



Bellow

Integrated bellow 0mL-1500mL.
Suitable for all range patients.

APL valve

Automatic decompression to ensure safety

$ETCO_2$

End-tidal carbon dioxide concentration monitoring, real-time understanding of the patient's state.

LED top light

Convenient for endoscopy operation.

Pressure gauge

Real time pressure for Air, O_2, N_2O from central gas supply and gas cylinders.

ACGO and fast oxygen supply

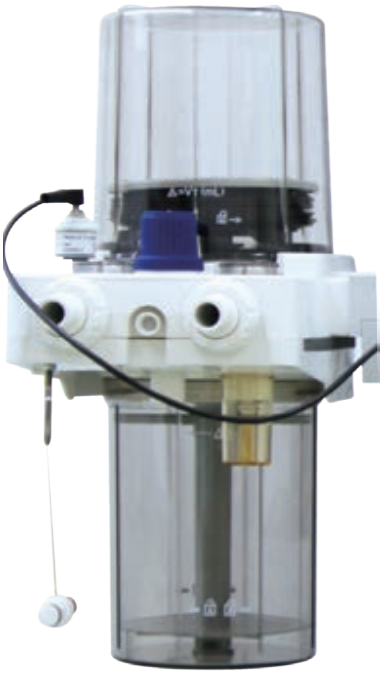
Emergency situation and revival after operation.

Handle

Easy and safety transport.

Drawer

3 drawers with large capacity for storing accessories.



Pedal

User-friendly design convenient for doctors to relax foot. Central brake is optional.

Caster

Diameter : 125mm,
2 individual brakes of 4 casters.

Optional part 1

Anesthetic gas monitor, vital signs monitor: real-time monitoring of anesthetic gas and patient's condition.

Optional part 2

AGSS: To enhance the safety of the environment in which members of staff in close proximity with waste anesthetic gases and vapors (agents) work.

TECHNICAL SPECIFICATION

Ventilation Mode

IPPV, A/C, PCV, PSV, SIMV, SIGH, MANUAL

Ventilator Parameter Range

Flowmeter	O_2 (0.1 ~ 10 L/min) N_2O (0.1 ~ 10 L/min) AIR (0.1 ~ 10 L/min)
Rapid oxygen supply	25 L/min ~ 75 L/min
Tidal volume(Vt)	0, 20 mL ~ 1500 mL
Frequence (Freq)	1 /min ~ 100 /min
I:E	VTH 4:1 ~ 1:8 VTL 2:1 ~ 1:8
PEEP	0 cmH_2O ~ 30 cmH_2O
Pressure triggering sensitivity (PTr)	-20 cmH_2O ~ 0 cmH_2O (Based on PEEP)
Flow trigger sensitivity (FTr)	0.5 L/min ~ 30 L/min
Pressure control (PC)	5 cmH_2O ~ 60 cmH_2O
SIGH	0 (off) 1/100 ~ 5/100
Apnea ventilation	OFF, 5 s ~ 60 s
Pressure limit	20 cmH_2O ~ 100 cmH_2O

Working condition

Gas source	O_2, N_2O, AIR
Pressure	280 kPa - 600 kPa
Voltage	100 - 240 V
Power frequency	50/60 Hz

Wooden Case Packing Size

Wooden case packing size : L 1005 * W 960 * H 1700 mm

G.W. : 227 KG N.W. : 116.5 KG CBM : 1.64 m3

Monitoring Parameter

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

Alarm and Protection

The AC power failure alarm	Power failure or no connection
Internal battery backup low voltage alarm	< 10.2 ± 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 cmH2O ~ 100 cmH2O
Low airway pressure alarm	0 cmH2O ~ 20 cmH2O
High minute volume alarm	Adult (5 L/min ~ 20 L/min)
Low minute volume alarm	Paed (1 L/min ~ 15 L/min, 0 ~ 10 L/min)
Continuous pressure alarm	(PEEP+1.5 kPa) over 16 s
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

Oscillogram

P-T (pressure-time)

F-T (flow-time)

V-T (volume-time)

$ETCO_2$-T ($ETCO_2$ -time)

P-V loop (pressure-volume loop)

P-F loop (pressure-flow loop)

F-V loop (flow-volume loop)

ELK-S6100
Anesthesia System

Application

The Anesthesia machine makes a good performance in Intensive Care Units (ICU), Operation room, Anesthesiology Department and other departments.
Professional design for adult, child and infant inhalation anesthesia and respiratory management, with advanced ventilation modes. Outstanding ergonomic design, it ranks high level in safety, stability and convenience as well as user experiences.
ELK-S6100 comfortable classic model, easy to use and be designed together with experienced experts to streamline your anesthesia workflow.

High precision flowmeter

Instantly know the fresh gas flow to your patient.

Pressure gauge

Real time pressure.

Bellow, APL valve

Integrated bellow 0mL-1500mL.
Suitable for all range patients.
Automatic decompression to ensure safety.

Breathing circuit

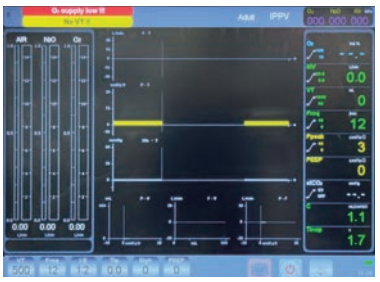
Integrated breathing circuit design, ensure easy operating and keep tidy.

TRUST POINT

- Simplicity: 4 static casters with self-locking function.
- Precision in an anesthesia ventilator with multiple ventilation modes: IPPV, V-A/C, P-A/C, V-SIMV, P-SIMV, PCV-PC, PCV-VG, PSV, SIGH, MANUAL.
- Flexible configurations able to customize your requirements.
- International standard and advanced technology suitable for wide range use.
- Compact interface and big screen give you better operating experience.
- Over 5,000 units are installed in more than 200 countries.
- Designed and manufactured by Superstar Medical with over 14 years of experience in ICU field.

Safety

- 3 level alarm system, visual and sound alarm information.
- With multiple types of alarm, reminder and protection functions.
- Advanced power management control technology.
- Built-in backup battery provides the emergency power supply to the unit.
- Low O_2 pressure alarm and N_2O cut-off protection.



10.4" TFT LCD screen

Displays the Ventilation parameters, Alarm information and Oscillogram.

Vaporizer

Accurately delivers a calibrated flow, Halothane, Enflurane, Isoflurane, Sevoflurane for choice. Suitable for low flow anesthesia, save cost.

Optional part 1

Vital sign monitor and anesthetic gas monitor.

Optional part 2

ETCO2 module and Anesthesia Gas Scavenging System (AGSS).

TECHNICAL SPECIFICATION

Ventilation Mode

IPPV, V-A/C, P-A/C, V-SIMV, P-SIMV, PCV-PC, PCV-VG, PSV, SIGH, MANUAL

Ventilator Parameter Range

Flowmeter	O2 (0.1 ~ 10 L/min) N_2O (0.1 ~ 10 L/min) AIR (0.1 ~ 10 L/min)
Rapid oxygen supply	25 L/min ~ 75 L/min
Tidal volume(Vt)	0, 20 mL ~ 1500 mL
Frequence (Freq)	1 /min ~ 100 /min
I:E	4:1 ~ 1:8
PEEP	0 cmH_2O ~ 30 cmH_2O
Pressure triggering sensitivity (PTr)	-20 cmH_2O ~ 0 cmH_2O (Based on PEEP)
Flow trigger sensitivity (FTr)	0.5 L/min ~ 30 L/min
Pressure control (PC)	5 cmH_2O ~ 70 cmH_2O
SIGH	0 (off) 1/100 ~ 5/100
Apnea ventilation	OFF, 5 s ~ 60 s
Pressure limit	10 cmH_2O ~ 100 cmH_2O

Working condition

Gas source	O_2, N_2O, AIR
Pressure	280 kPa ~ 600 kPa
Voltage	100 ~ 240 V
Power frequency	50/60 Hz
Input power	80 VA

Wooden Case Packing Size

Wooden case packing size : L 920* W 970* H 1380 mm

G.W. :	155 KG	N.W. : 87.5 KG	CBM : 1.23 m3

Monitoring Parameter

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

Alarm and Protection

The AC power failure alarm	Power failure or no connection
Internal battery backup low voltage alarm	< 10.2 ± 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 cmH2O ~ 100 cmH2O
Low airway pressure alarm	0 cmH2O ~ 20 cmH2O
High minute volume alarm	Adult (5 L/min ~ 20 L/min)
Low minute volume alarm	Paed (1 L/min ~ 15 L/min, 0 ~ 10 L/min)
Continuous pressure alarm	(PEEP+1.5 kPa) over 16 s
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

Oscillogram

P-T (pressure-time)

F-T (flflow-time)

V-T (volume-time)

$ETCO_2$-T ($ETCO_2$-time)

P-V loop (pressure-volume loop)

P-F loop (pressure-flflow loop)

F-V loop (flflow-volume loop)

ELK-S6100A (High) Anesthesia System

Application

The Anesthesia machine makes a good performance in Intensive Care Units (ICU), Operation room, Anesthesiology Department and other departments. ELK-S6100A(high) is designed for ease of use, incorporating basic function and the maximum patient safety in daily anesthesia practice. Professional design for adult, child and infant inhalation anesthesia and respiratory management,with advanced ventilation mode. Combine proven ventilation technology with the latest refinements in ergonomics and systems integration with an advanced, easy to use anesthesia table designed together with experienced experts to streamline your anesthesia workflow.

Flowmeter

Pressure gauge

Bellow APL valve

Breathing circuit

Vaporizer

Feature

- Simplicity: 4 static casters with self-locking function.
- Precision in an anesthesia ventilator with multiple ventilation modes: IPPV, A/C, SIMV, SIGH and MANUAL.
- 10.4" TFT LCD screen displays the Ventilation parameters, Alarm information and Oscillogram.
- Vaporizer with temperature, pressure, flow compensation and self-lock function, keep safety anytime.
- Pressure-time, low-time and high precision $ETCO_2$, O_2 concentration show in real time.
- $ETCO_2$ and Anesthesia Gas Scavenging System (AGSS) are optional.
- Built-in backup battery provide the emergency power supply to the unit. Low O_2 pressure alarm and N_2O cut-off protection.
- Over 5,000 units are installed in more than 200 countries.
- Designed and manufactured by Superstar Medical with over 25 years of experience in ICU field.

TECHNICAL SPECIFICATION

Ventilation Mode

IPPV, A/C, SIMV, SIGH, MANUAL

Ventilator Parameter Range

Flowmeter	O_2 (0.1~10 L/min) N_2O (0.1~10 L/min) AIR (0.1 ~10 L/min)
Rapid oxygen supply	25 L/min ~ 75 L/min
Tidal volume(Vt)	0, 20 mL ~ 1500 mL
Maximum MV	≥18 L/min
Frequence (Freq)	1 /min ~ 100 /min
I:E	2:1 ~ 1:6
PEEP	0 cmH_2O ~ 30 cmH_2O
Pressure triggering sensitivity (PTr)	-20 cmH_2O ~ 20 cmH_2O (Based on PEEP)
Flow trigger sensitivity (FTr)	0.5 L/min ~ 30 L/min
SIGH	0 (off) 1/100 ~ 5/100
Apnea ventilation	OFF, 5 s ~ 60 s
Pressure limit	20 cmH_2O ~ 100 cmH_2O

Working condition

Gas source	O_2, N_2O, AIR
Pressure	280 kPa ~ 600 kPa
Voltage	100 ~ 240 V
Power frequency	50/60 Hz
Input power	80 VA

Wooden Case Packing Size

Wooden case packing size : L 920* W 970* H 1390 mm

G.W. : 155 KG N.W. : 87.5 KG CBM : 1.24 m3

Monitoring Parameter

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

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_2O ~ 100 cmH_2O
Low airway pressure alarm	0 cmH_2O ~ 20 cmH_2O
High minute volume alarm	Adult (5 L/min ~ 20 L/min) Paed (1 L/min ~ 15 L/min)
Low minute volume alarm	0 ~ 10 L/min
Continuous pressure alarm	(PEEP +1.5 kPa) over 16 s
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

Oscillogram

P-T (pressure-time)

F-T (flow-time)

P-V loop (pressure-volume loop)

ELK-S6500A
Anesthesia System

Application

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

Professional design for adult, child and infant inhalation anesthesia and respiratory manage-ment, with advanced ventilation modes. Outstanding ergonomic design, it ranks high level in safty, stability and convenience as well as user experiences.

ELK-S6500A comfortable classic model, easy to use and be designed together with experienced experts to streamline your anesthesia workflow.

TRUST POINT

- Simplicity: 4 static casters with self-locking function.
- Precision in an anesthesia ventilator with multiple ventilation modes: IPPV, A/C, PCV, SIMV, SIGH and MANUAL.
- Flexible configurations able to customize your requirements.
- International standard and advanced technology suitable for wide range use.
- Compact interface and big screen give you better operating experience.
- Over 5,000 units are installed in more than 200 countries.
- Designed and manufactured by professional team with over 25 years of experience in ICU field.

Safety

- 3 level alarm system, visual and sound alarm information.
- With multiple type of alarm, reminder and protection functions.
- Advanced power management control technology.
- Built-in backup battery provide the emergency power supply to the unit.
- Low O_2 pressure alarm and N_2O cut-off protection.

10.4" screen

Flowmeter

Breathing circuit

Pressure gauge

Bellow, APL valve

Vaporizer

Feature

- 10.4" TFT LCD screen displays the Ventilation parameters, Alarm information and Oscillogram.
- High precision flowmeter, instantly know the fresh gas flow to your patient.
- Integrated 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, pressure, 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.
- Pressure-time, Fow-time loop oscillogram and high precision $ETCO_2$, O_2 concentration show in real time.
- Vital sign monitor and anesthetic gas monitor are optional.
- $ETCO_2$ module and Anesthesia Gas Scavenging System (AGSS) are optional.

TECHNICAL SPECIFICATION

Ventilation Mode

IPPV, A/C, PCV, SIMV, SIGH, MANUAL

Ventilator Parameter Range

Flowmeter	O_2 (0 ~ 10 L/min) N_2O (0 ~ 10 L/min) or AIR (0 ~ 10 L/min)
Rapid oxygen supply	25 L/min ~ 75 L/min
Tidal volume(Vt)	0, 20 mL ~ 1500 mL
Frequence (Freq)	1 /min ~ 100 /min
I:E	4:1 ~ 1:8
PEEP	0 cmH_2O ~ 30 cmH_2O
Pressure triggering	-20 cmH_2O ~ 0 cmH_2O
sensitivity (PTr)	(Based on PEEP)
Flow trigger sensitivity (FTr)	0.5 L/min ~ 30 L/min
Pressure control (PC)	5 cmH_2O ~ 60 cmH_2O
SIGH	0 (off) 1/100 ~ 5/100
Apnea ventilation	OFF, 5 s ~ 60 s
Pressure limit	20 cmH_2O ~ 100 cmH_2O

Working condition

Gas source	O_2, N_2O, AIR
Pressure	280 kPa ~ 600 kPa
Voltage	100 ~ 240 V
Power frequency	50/60 Hz

Wooden Case Packing Size

Wooden case packing size：L 740* W 795* H 1540 mm

G.W. :	119 KG	N.W. : 52.5 KG	CBM : 0.91 m3

Monitoring Parameter

Frequence (Freq)	0 /min ~ 100 /min
Tidal volume (Vt)	0 mL ~ 2000 mL
MV	0 L/min ~ 100 L/min
Oxygen concentration	15 % ~ 100 %
Ppeak	0 cmH_2O ～ 100 cmH_2O
Cydn	1 mL/cmH_2O ～ 1000 mL/cmH_2O

Alarm and Protection

The AC power failure alarm	Power failure or no connection
Low voltage alarm for back up battery	< 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_2O ~ 100 cmH_2O
Low airway pressure alarm	0 cmH_2O ~ 20 cmH_2O
High minute volume alarm	Adult (5 L/min ~ 20 L/min)
Low minute volume alarm	Paed (1 L/min ~ 15 L/min, 0 ~ 10 L/min)
Continuous pressure alarm	(PEEP+1.5 kPa) over 16s
Suffocation warning	5s-60s no spontaneous ventilation
The maximum limited pressure	< 12.5 kPa
Fan error	Show on screen
Oxygen deficit	Show on screen

Oscillogram

P-T (pressure - time)

F-T (flow - time)

V-T (volume - time)

$ETCO_2$-T ($ETCO_2$ - time)

P-V loop (pressure - volume loop)

F-V loop (flow - volume loop)

F-P loop (flow - pressure loop)

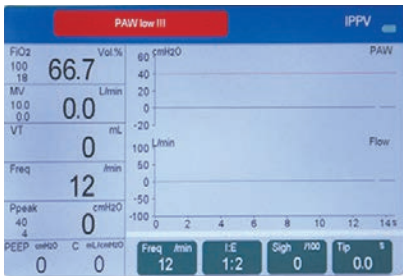
ELK-S6500
Anesthesia System

Application

The Anesthesia machine makes a good performance in Intensive Care Units (ICU), Operation room, Anesthesiology Department and other departments. ELK-S6500 is designed for ease of use, incorporating basic function and the maximum patient safety in daily anesthesia practice. Professional design for adult, child and infant inhalation anesthesia and respiratory management, with advanced ventilation modes. Combine proven ventilation technology with the latest refinements in ergonomics and systems integration with an advanced, easy to use anesthesia table designed together with experienced experts to streamline your anesthesia workflow.

TRUST POINT

- Providing customers with high quality and cost-effective anesthesia machine.
- The Superstar Medical team is a group of experienced and dedicated professionals with a passion for more than 20 years.
- We listen to our customers and integrate their insights in our machine development. Flexible configurations to suit customers' needs.
- Countless feedback from customers give good reviews.
- Advanced one button switch of manual provides convenient electronic controlling interchanges.
- High precision flowmeter, instantly know the fresh gas flow to your patient.
- Integrated 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, pressure, flow compensation and self-lock function, keep safety anytime.
- Real time pressure-time, flow-time loop oscillogram and high precision O_2 concentration detection function included.



7" screen

7" screen displays information area, alarm
area, monitoring area and setting area.

2-3 hours built-in backup battery.

Intelligent three level alarming system with 14 alarm, visual and sound alarm information.

2 oscillograms: P-T, F-T.

Flowmeter

5 Mechanical flowmeters: O_2, Air, N_2O.

Fine control: 0.1-1 L/min

Coarse control: 1-10 L/min

Oxygen sensor

Oxygen sensor makes sure accurate parameters.

Bellow

1500mL can applied to different patients.

Volume of absorber: 1.5 L

Integrated design makes installation easily.

Vaporizer

One or dual-position

Choice: Halothane, Enflurane,

Isoflurane, Sevoflurane

2 Cylinder Yokes

N_2O Cylinder Yoke and O_2 Cylinder yoke are standard.

Pressure gauge

Pressure gauge shows pressure of centre gas system or gas cylinder.

ACGO and fast oxygen supply

Emergency situation and revival after operation.

Brake

4 casters with 2 individual brakes

Optional

AGSS.

Gas gauge for gas cylinders.

Vital sign monitor, anaesthetic gas monitor.

Hand held $ETCO_2$ monitor or Vital sign monitor with $ETCO_2$.

TECHNICAL SPECIFICATION

Ventilation Mode

IPPV, A/C, SIMV, SIGH, MANUAL

Ventilator Parameter Range

Flowmeter	O_2 (0.1 ~ 10 L/min) N_2O (0.1 ~ 10 L/min) AIR (0.1 ~ 10 L/min)
Rapid oxygen supply	25 L/min ~ 75 L/min
Tidal volume(Vt)	0, 20 mL ~ 1500 mL
Frequence (Freq)	1 /min ~ 100 /min
I:E	2:1 ~ 1:6
PEEP	0 cmH_2O ~ 30 cmH_2O
Pressure triggering sensitivity (PTr)	-20 cmH_2O ~ 0 cmH_2O (Based on PEEP)
Flow trigger sensitivity (FTr)	0.5 L/min ~ 30 L/min
SIGH	0 (off) 1/100 ~ 5/100
Apnea ventilation	OFF, 5 s ~ 60 s
Pressure limit	20 cmH_2O ~ 100 cmH_2O

Working condition

Gas source	O_2, N_2O, AIR
Pressure	280 kPa ~ 600 kPa
Voltage	100 ~ 240 V
Power frequency	50/60 Hz

Wooden Case Packing Size

Wooden case packing size : L 760 * W 970 * H 1550 mm

G.W. :	143 KG	N.W. : 82.5 KG	CBM : 1.33 m3

Monitoring Parameter

Frequence (Freq)	0 /min ~ 100 /min
Tidal volume (Vt)	0 mL ~ 2000 mL
MV	0 L/min ~ 100 L/min
Oxygen concentration	15 % ~ 100 %
Ppeak	0 cmH_2O ~ 100 cmH_2O
Cydn	1 mL/cmH_2O ~ 1000 mL/cmH_2O

Alarm and Protection

The AC power failure alarm	Power failure or no connection
Low voltage alarm for back up battery	< 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_2O ~ 100 cmH_2O
Low airway pressure alarm	0 cmH_2O ~ 20 cmH_2O
High minute volume alarm	Adult (5 L/min ~ 20 L/min)
Low minute volume alarm	Paed (1 L/min ~ 15 L/min, 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

Oscillogram

P-T (pressure - time)

F-T (flow - time)

P-V loop (pressure - volume loop)

ELK-S6100A
Anesthesia System

Application

The Anesthesia machine makes a good performance in Intensive Care Units (ICU), Operation room, Anesthesiology Department and other departments. ELK-S6100A(basic) is designed for ease of use, incorporating basic function and the maximum patient safety in daily anesthesia practice. Professional design for adult, child and infant inhalation anesthesia and respiratory management, with advanced ventilation mode. Combine proven ventilation technology with the latest refinements in ergonomics and systems integration with an advanced, easy to use anesthesia table designed together with experienced experts to streamline your anesthesia workflow.

TRUST POINT

- Providing customers with high quality and cost-effective anesthesia machine.
- The Superstar Medical team is a group of experienced and dedicated professionals with a passion for more than 20 years.
- We listen to our customers and integrate their insights in our machine development. Flexible configurations to suit customers' needs.
- Countless feedback from customers give good reviews.
- Real time pressure-time, flow-time loop Oscillogram and high precision O2 concentration detection function included.

Safety

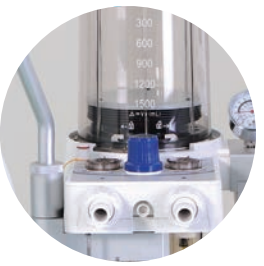
- Three level alarm system, visual and sound alarm information.
- With multiple type of alarm, reminder and protection functions.
- Advanced power management control technology.
- Low O_2 pressure alarm and N_2O cut-off protection.

Feature

- 7" TFT LCD screen displays the Ventilation parameters, Alarm information and Oscillogram.
- High precision flowmeter, instantly know the fresh gas flow to your patient.
- Integrated 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, pressure, 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.
- Pressure-time, flow-time oscillogram show in real time.
- Vital sign monitor and Anesthetic gas monitor are optional.
- ACGO and fast oxygen supply - Emergency use and revival after opertation.

Flowmeter

Pressure gauge



Bellow APL valve

Breathing circuit

Vaporizer

TECHNICAL SPECIFICATION

Ventilation Mode

IPPV, A/C, SIMV, SIGH, MANUAL

Ventilator Parameter Range

Flowmeter	O_2 (0 ~ 10 L/min)
	N_2O (0 ~ 10 L/min)
Rapid oxygen supply	25 L/min ~ 75 L/min
Tidal volume(Vt)	0, 20 mL ~ 1500 mL
MV	≥18 L/min
Frequence (Freq)	1 /min ~ 100 /min
I:E	2:1 (1:0.5) ~ 1:6
PEEP	0 cmH_2O ~ 30 cmH_2O
Pressure triggering	-20 cmH2O ~ 20 cmH_2O
sensitivity (PTr)	(Based on
	PEEP :-20 cmH_2O ~ 0 cmH_2O)
Flow trigger sensitivity (FTr)	0.5 L/min ~ 30 L/min
SIGH	0 (off) 1/100 ~ 5/100
Apnea ventilation	OFF, 5 s ~ 60 s
Pressure limit	20 cmH_2O ~ 100 cmH_2O

Working condition

Gas source	O_2, N_2O
Pressure	280 kPa ~ 600 kPa
Voltage	100 ~ 240 V
Power frequency	50/60 Hz

Wooden Case Packing Size

Wooden case packing size : L 790 * W 740 * H 1460 mm
G.W. : 103 KG N.W. : 76 KG

Monitoring Parameter

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

Alarm and Protection

The AC power failure alarm	Power failure or no connection
Internal battery backup	< 11.3 ± 0.3 V
low voltage alarm	
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_2O ~ 100 cmH_2O
Low airway pressure alarm	0 cmH_2O ~ 20 cmH_2O
High minute volume alarm	Adult (5 L/min ~ 20 L/min)
	Paed (1 L/min ~ 15 L/min)
Low minute volume alarm	0 ~ 10 L/min
Continuous pressure alarm	(PEEP + 1.5 kPa) over 16 s
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

Oscillogram

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

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