

ANESTHESIA MACHINES

AUGUST - 2008



MEDICAL PRODUCTS

ANESTHESIA MACHINES

Quality System Standard applied: **ISO 9001, ISO 13485**

CE Certification 93/42/EEC.

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INTRODUCTION

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The Company is one of the best and biggest manufactures in research and development and production of anaesthetic machine, and ventilator in China. The company, adhering to the principle “honesty, cooperation, specialty, innovation” under the enterprise culture of “Solicitude, Gratitude, Elegance, Generosity, Tolerance”, pursues its ambition of becoming a “Professional of Anaesthesia and Respiration” with its wisdom and efforts.

Wide Scope of Products

At present, the products include the following:

- Anaesthesia machine models: Aeon 7500A, Aeon 7200A, Aeon 7400A etc.;
- Ventilator models: SH590, SH 510 and Shangrila 920;
- Surgical Lamp: Aladdin-720/720, Aladdin620/620, Aladdin 520 etc
- Surgical Table: Noah
- Vaporizer and medical air compressor

High-standard Quality Control

Since its establishment, the company has invested much in production management by adopting strict management system and lays out areas of various functions in accordance with the international standards. In July 2002, the company passed the ISO9001 certification examination and was accredited with Beijing High and New-technology Industry Certificate. Within these 3 years, every exporting type of machines of anaesthesia machine, ventilator has CE certificate.

A Very Strong R&D Team

The Company owns the most powerful team for research and development of anaesthetic machine and ventilator in China, and most of the staff members have rich experience in specialized research and development and have original and insightful opinion about the domestic and international market of anaesthetic machine and ventilator. The company bases itself on domestic market and orients toward international markets. All its work of research and development is carried out in accordance with the CE standards. The Company is making efforts to develop itself into the most important production base of anaesthetic machine and ventilator in the world.

In Pursuit of Satisfaction of Customers

The company has been dedicating itself toward becoming “Professional of anaesthesia machine and ventilator” in its industry, and it organizes a customer service network covering China. Meanwhile, the company is also building and perfecting a customer service system aimed at overseas clients. Its stock of spare parts and logistics centre can ensure supply of parts and fittings under any circumstances.

The Company warrants new equipment to be free from defects in workmanship and materials for a period of 12 months (3 months for accessories) from the date of shipment under normal use and service. The Company’s obligation under this warranty is limited to repairing, at Company’s option, any part which upon Company’s examination proves defective.

The **warranty** shall not extend to any instrument that

- 1) Has been subjected to misuse, negligence or accidents;
- 2) Caused by modification or repair by anyone except Company or Company designated person;
- 3) From which Company’s original serial number tag or product identification markings have been altered or removed
- 4) or any product of any other manufacturer.

AEON 7500A



—Aeon7500A—

- CE certificated, designed to comply with EU clinical security standard
- Advanced, professional 10.4" TFT color screen for clinical uses
- Multi-ventilation modes: Standby, VCV, Pressure mode, SIMV, Manual
- Sensitive synchronized flow trigger
- Advanced electromagnetic valve ensures accurate tidal volume and compensation
- Inspiration flow rate control adopts imported electromagnetic flow control valve
- Parameters monitored: P-T, F-T, V-T waveforms & P-V, F-V loops

-Technical data-

Ventilation mode: Standby, VCV, Pressure, SIMV (optional), Manual

Tidal volume: 0~1500mL

Breath rate: 4~100bpm

IE Ratio: 1:0.5-1:8

Pressure range: 5~70cmH₂O

Inspiratory plateau: 0-50%

Trigger sensitivity: 1~30L/min

High pressure: 21 ~80cmH₂O

Low pressure: 0-20cmH₂O

Alarm silence: ≤120s

Parameters monitored: V_t, MV, P_{aw}(Peak, Pplat), FiO₂, breath rate

Waveforms monitored: P-T, F-T, V-T waveforms, P-V, F-V loops

Alarm: High/low limit of breath rate, Paw high/low limit, MV high/ low limit, low O₂ concentration, airway malfunction, power failure.

Safety valve: ≤6KPa

Patient type: Adult & pediatric

Mode: close, semi-close or semi-open

Driven mode: Pneumatically driven and electronically controlled

Setting: Touch key & navigator wheel knob

Display: 10.4" TFT color screen

Flowmeter: O₂, N₂O, air; 5 tubes; 0-10L/min

O₂ flush: 35~75L/min

Two vaporizers (Selectatec compatible)

Power supply: 110V-240V; 50Hz~60Hz

Power consumption: ≤70W

Gas supply: O₂, N₂O, air; pressure: 0.3-0.5MPa

Dimensions (Lx W * H): 620 mm x 930 mm x 1354 mm

Weight: 140kg

AEON 7400A



-Aeon7400A-

- High quality LED display, with IPPV and Manual Ventilation mode
- Parameters Monitored include Vt, Paw and breath rate
- Accurate & stable vaporizer output, with flow, pressure and temperature compensation
- Precise flowmeter, with low-flow range (0 - 1 L / min), and high accuracy (0.05 L / min), meeting low-flow requirement.

.Technical data-

Ventilation mode: IPPV, Manual

Tidal volume: 0~1500ml

Breathing rate: 6~60bpm

IE Ratio: 1: 0.5, 1:1, 2:3,1:2, 1:3, 1:4

High airway pressure: 20~60cmH₂O

Low airway pressure: 0~20cmH₂O

Alarm silence: ≤120s

Parameters monitored: V_t, P_{aw}, breath rate

Alarm: P_{aw} high/low limit, power failure, low gas supply pressure

Safety valve: ≤6KPa

Patient type: Adult & pediatric

Mode: Close, semi-close and semi-open

Driven mode: Pneumatically driven and electronically controlled

Setting: Touch key and navigator wheel knob

Display: High quality LED

Flowmeter: O₂, N₂O; 4 tube; 0~10L/min

O₂ Flush: 35~75L/min

Single vaporizer

Power supply: 110V-240V; 50Hz~60Hz

Power consumption: ≤70W

Gas supply: O₂, N₂O; pressure: 0.3-0.5MPa

Dimension (L*W* H): 620 mm x 890 mm x 1335 mm

Weight: 95kg (without Vaporizer)

AEON 7200A



— Aeon 7200A —

- CE certificated, designed to comply with EU clinical security standard
- TFT screen display
- Easy setting: button & navigator wheel knob
- Advanced electromagnetic valve ensures accurate tidal volume and compensation
- Multi-ventilation modes: Standby, VCV, Pressure, SIMV, Manual
- Sensitive synchronized flow trigger
- Parameters monitored include V_t , MV, P_{aw} , FiO_2 , breath rate, and compliance
- Waveforms displayed include P-T, F-T and V-T
- Advanced pressure-difference flow sensor ensures instant response
- CE vaporizers
- Solid coating and anti-dust smooth surface

Technical data-

Ventilation mode: Standby, IPPV, Pressure, SIMV, Manual

Tidal volume: 0~2000ml

Breath rate: 4~100bpm

SIMV breath rate: 1~39bpm

IE Ratio: 1= 0.5-1= 8

Inspiratory time: 0.3s~9.9s

Inspiratory plateau: 0~50%

Trigger sensitivity: 2~30L/min

Pressure range: 0.5KPa~6KPa

Alarm silence: ≤ 120 s

Parameters monitored: Vt, MV, breath rate, Paw, FiO₂

Waveforms monitored: P-T, F-T, V-T.

Alarm: MV high/low limit, Paw high/low limit, Vt high limit, apnea, non-Vt, power failure, self-testing failure, low gas supply pressure.

Safety valve: ≤ 6 KPa

Patient type: Adult & pediatric

Mode: Close, semi-close or semi-open

Driven mode: Pneumatically driven and electronically controlled.

Setting: Touch key and navigator wheel knob

Display: 5.7" LCD color screen

Flowmeter: O₂, N₂O; 4 tubes; 0-10L/min

O₂ flush: 35~75L/min

Two vaporizers (Selectatec compatible)

Power supply: 110V-240V; 50Hz~60Hz

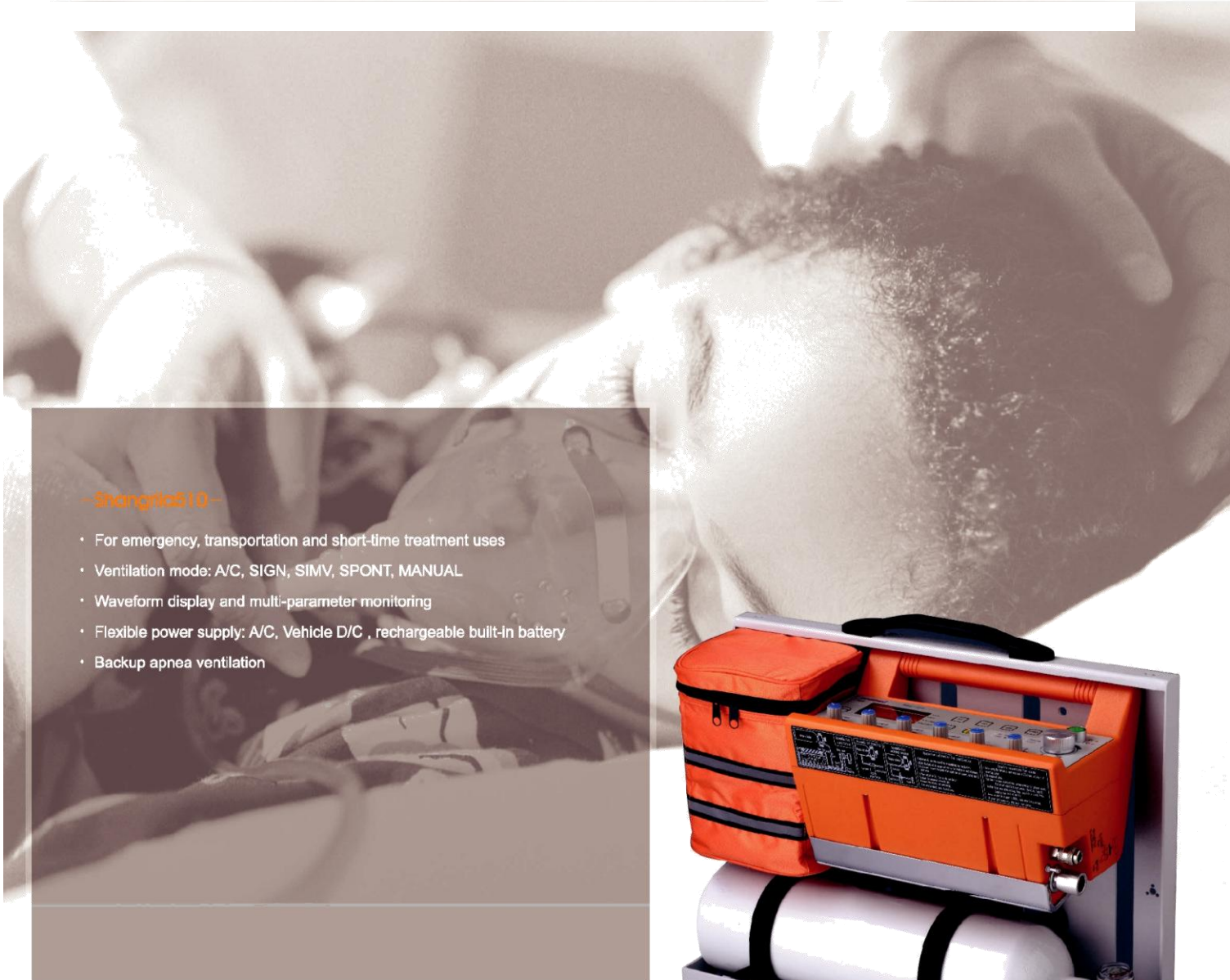
Power consumption: ≤ 50 W

Gas supply: O₂, N₂O; pressure: 0.28~0.6MPa

Dimensions (L *W *X *H): 824 mm x 680 mm x 1382 mm

Weight: 95kg (without vaporizers)

SHANGRILA 510



-Shangrila510-

- For emergency, transportation and short-time treatment uses
- Ventilation mode: A/C, SIGN, SIMV, SPONT, MANUAL
- Waveform display and multi-parameter monitoring
- Flexible power supply: A/C, Vehicle D/C , rechargeable built-in battery
- Backup apnea ventilation

-Technical data-

Ventilation mode: A/C, SIGH, SIMV, SPONT, Manual

Tidal volume: 0~1500ml

Breathe rate: 4-99bpm

IE ratio: 1:0.5,1:1,1:1.5,1:2,1:3,1:4

Trigger sensitivity: -20~0cmH₂O

High pressure: 0-80cmH₂O

Low pressure: 0~20cmH₂O

FiO₂: 48%~100%

Alarm silence: ≤ 120s

Parameters monitored: Vt, MV, Ppeak, Ftot, Psens, A/C power supply, D/C power supply, battery recharging, status of battery

Waveforms displayed: P-T

Alarm: Paw high/low limit, apnea, A/C power failure, low battery

Patient type: Adult & pediatric

Driven mode: Electronically controlled and pneumatically driven

Setting: Navigator wheel knob & touch key

Display: LCD

Noise: ≤65db

Power supply: -220V, 50Hz; -110V, 60Hz; 12V (D/C)

Battery working time: >4 hours

Cylinder: 3.2L, 12MPa; working time jY90min when MV is 8L/min and FiO₂ is 48%

Gas supply: O₂, 0.3-0.5MPa, >50L/min

Dimensions: 300mmX170mmX175mm

Weight of main unit: 4kg

Dimensions of machine rack: 500X190X400mm

SHANGRILA 590



- Shangrila 590 -

- 10.4" TFT color screen
- Advanced detachable screen prevents cross infection
- Ventilation type: VCV, PCV
- Easy setting by navigator wheel knob & touch key
- Three-level light and sound alarm
- Built-in electronic air-oxygen mixing device, ensuring accurate & stable FiO_2 output
- Durable and accurate built-in flow sensor
- Integrated expiration valve, easy to be sterilized
- Backup apnea ventilation



.Technical data-

Ventilation type: VCV, PCV

Ventilation mode: A/C, SIGH, SIMV (SIMV+PSV) , SPONT+PSV

Tidal volume: 0-1500ml

Breath rate: 4~100bpm

SIMV rate: 1-40bp m

Inspiration time: 0.1~12s

Pause time: 0~4s

Trigger sensitivity: -20 - 0cmH₂O

PSV: 0~60cmH₂O

Pressure range: 5~60cmH₂O

High pressure: 20~80cmH₂O

Low pressure: 0~20cmH₂O

Ventilation waveform: Square and decelerate waveform

PEEP: 0-40cmH₂O •FiO₂:21%~100%

Alarm silence: ≤ 120s

Parameters monitored: Vs, V_{te}, MV, FiO₂, Ppeak, Pplat, Pmean, PEEP, Ft,*, F_{spont}, MV_{spont}

Waveforms displayed: P-T, F-T

Alarm: O₂ failure, air failure, MV high/low limit, Vt high limit, F_{spont} high limit, Paw high/low limit, apnea, FiO₂ high/low limit, power failure

Max. Alarm record: 100

Safety valve: ≤ 8KPa

Patient type: Adult & pediatric

Driven mode: Pneumatically driven and electronically controlled

Setting: Navigator wheel knob & touch key

Display: 10.4" TFT color screen

Power supply: -220V, 50Hz; -110V, 60Hz

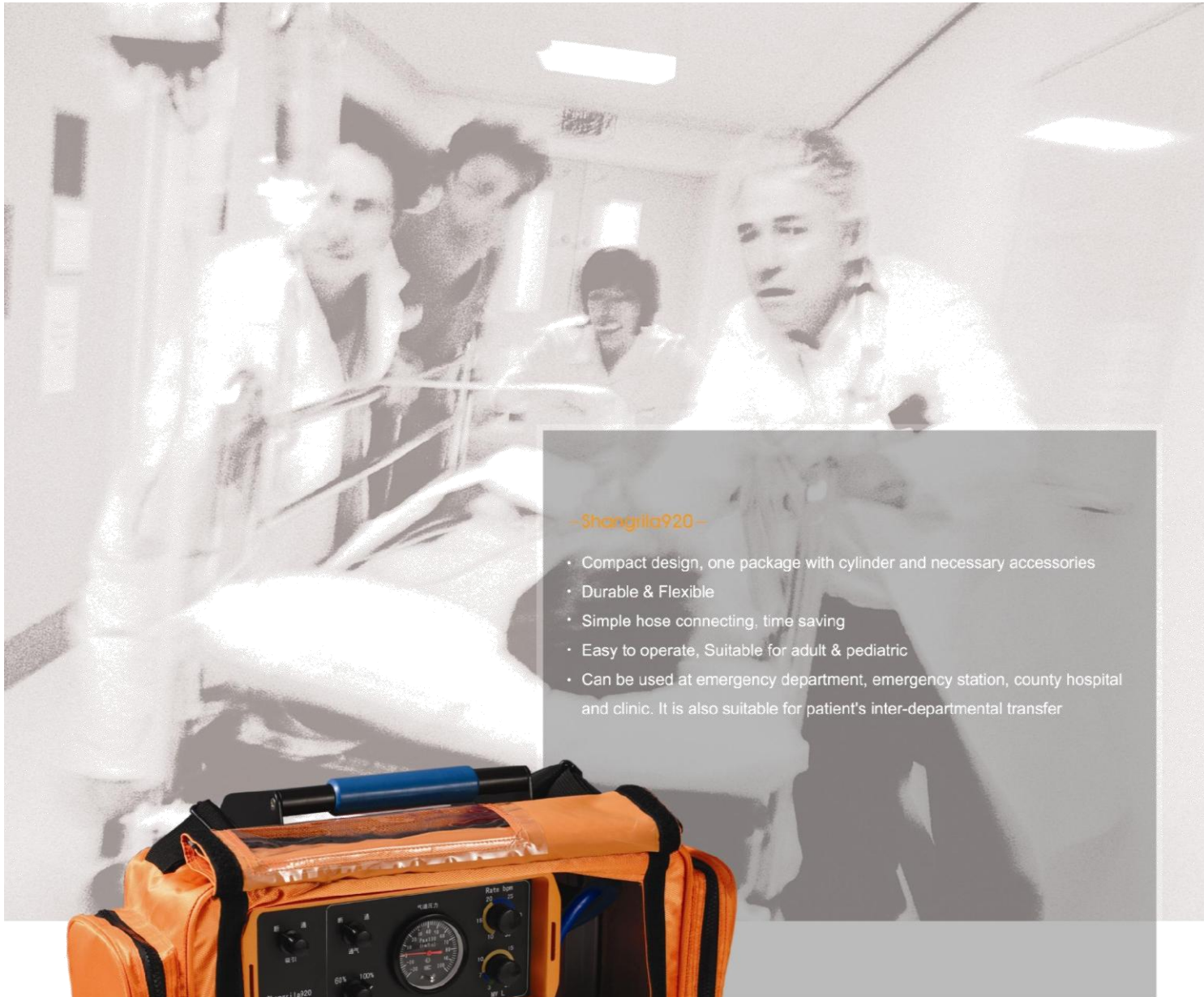
Power consumption: £80W

Gas supply: O₂, 0.3~0.5MPa, >50L/min

Dimensions: 350mmx400mmx300mm

Weight: 15kg

SHANGRILA 920



-Shangrila920-

- Compact design, one package with cylinder and necessary accessories
- Durable & Flexible
- Simple hose connecting, time saving
- Easy to operate, Suitable for adult & pediatric
- Can be used at emergency department, emergency station, county hospital and clinic. It is also suitable for patient's inter-departmental transfer



-Technical data-

Main Unit

Pneumatic driven pneumatic controlled

Patient type: Adult, Pediatric

Ventilation mode: IPPV Additional function: Suction

Size and weight

Main Unit: 256 x 142 x 110mm (W x H x D)

Weight: 2.65kg

Portable Box: 400 x 260 x 145mm (W x H x D)

Total Weight (2L cylinder with gas): 9kg

Technical data

Minute Volume: 3~20L/min, continuous adjustable

Breath Frequency: 10~35bpm, continuous adjustable I:E = 1:1.5

O₂ Concentration: 60% /100%

Suction Pressure: s -50Kpa

Safe Pressure Max: ≤ 6Kpa

Noise: ≤ 65dB

Cylinder Time: ≥ 90Min

Gas Pressure: 0.3 ~ 0.6Mpa (Flow~50L/min)

Standard accessories

Shangrila 920 Main Unit-1

Set 2L Cylinder-1 Pc

Framework & Dustproof Bag-1 Set

Hosing System-1 Set

1.2m Hose-1 Pc

Mask-1 Pc

Adult Fillet-1 Pc

Expiratory Valve-1 Set

Humid Bottle-1 Pc

Oxygen Tube-1 Pc

Suction Tube and Bottle-1 Set

Laryngoscope-1 Pc

Intubator-1 Pc

Teeth Screw Driver-1 Pc

Oxygen Bridge-1 Pc

Handle-1 Pc