

Aeon8800A

Anesthesia Workstation

€ 0123



Aeon8800A Anesthesia Workstation

The Aeon8800A Anesthesia Workstation is a high-level device from AEONMED, engineered based on clinical input and feedback.

The workstation has a user-friendly design, incorporates innovative technology, and provides the clinician with safe and effective treatment options for patients.

Modern Breathing Circuit

Safe, stable and efficient anesthesia management.

The characteristic breathing circuit is made of alloy, resistant to corrosion and can withstand repeated high temperature and high pressure sterilization.

Adjustable angle, easy to install, many user-friendly designs make maintenance easier.

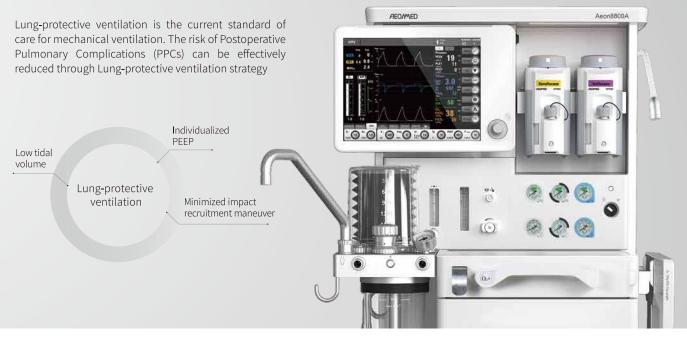
The integrated heating system with a better thermal conductivity of alloy help prevent condensation and make patients feel more comfortable.

APL with fast release pressure, the upper pressure limit is accurately adjustable, avoiding repeated operations and improving anesthesia efficiency.

The Breathing Ciucuit has CO₂ bypass function.



Lung-Protective Ventilation



Low tidal volume

The 8800A has a minimum tidal volume of 10ml in volume control mode, in addition to possessing the PCV-VG and BIVENT ventilation mode, helping to achieve the precise low tidal volume required during lung protective ventilation.

Individualized PEEP titration tool

Stress index (SI) monitoring helps with Individualized PEEP titration. Through the guidance of the Static PV loop tool, the appropriate setting of PEEP value and tidal volume are realized.



Minimized impact recruitment maneuver

Two types recruitment maneuvers: stepwise PEEP or sustained inflation. Automate repetitive tasks used during lung ventilation procedures.



Enhanced monitoring and clinical tools

In addition to traditional monitoring parameters, special monitoring parameters, such as Driving

Pressure(DP), are provided to guide clinicians in adjusting ventilation parameters.

Spirometry loops can be stored for future reference, allowing clinicians the ability to better understand changes in the patient's response to therapy.

Provide multiple of cardiopulmonary bypass modes (CBP) to assist in the implementation of cardiopulmonary bypass surgery.

Continuous trend information together with time discrete events are stored and shown in the table or chart.

Provides medical gas consumption calculations: including $O_2,\,N_2O$ and Agent. And provide calculations of CO_2 production.

International standard data protocol support to connect to internet center of hospitals.

Ventilator-level ventilation modes

Aeon8800A is always your professional guard for lives, offering comprehensive and accurate respiratory care for all the patient types from infant to adult, helping clinicians to have more solutions for different clinical situations.

PPV | PCV | PCV-VG SIMV-VC | SIMV-PC | SIMV-VG PS / CPAP | BIVENT | APRV

PCV-VG

Combines the advantages of VCV and PCV, providing better oxygenation with lower peak inspiratory pressure.

SIMV-VG

Guarantees patients can breathe spontaneously between mandatory breaths with pressure support as a backup. It offers flexible respiratory solutions when anesthesia steps into different phases.

BIVENT / APRV

Pressure controlled breaths are provided by switching between a high and low airway pressure in an adjustable time sequence. Spontaneous breaths can be pressure supported at the high and low pressure levels.





Intelligent operations bring cost-efficient management

Digital Flowmeter with ECO-Optimizer

• Digital Flowmeter makes fresh gas flow setting easier and more precise.

• The ECO-Optimizer indicates the recommended fresh gas flow setting according to the setting value and the minimum O_2 needed of the patient. It enables a safe Low Flow, and reduces the waste of anesthetic agents and medical gases.

Necessity of Low Flow



Driven Gas Auto-Switch

• By first using compressed air as the drive gas, Driven Gas Auto-Switch to reduce oxygen consumption, also ensure the patient is ventilated uninterruptedly.

- When the compressed air supply is disrupted, the Aeon8800A will automatically switch to ${\rm O}_2$ driving gas.

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Dimensions (H x W x D)	1/00//770//700
Trolley version (with breathing circuit)	1420×770×760 mm
Neight and load Frolley (without vaporizer and backup cylinder)	135 kg
Fop shelf load	25 kg
Caster locking	ZJ Kg
Braking Types	Central brake system
Power and battery backup	Central brake system
Power input	AC 100~240 V, 50/60 Hz
Power outlets	4 sockets on back, 1.5A individual
Batteries and Operation time with fully charged	DC 24V, 4.0AH, Minimum 120 minutes
Environmental requirements	
Operation temperature	10~40 °C (50~104 °F)
Operation humidity	≤95% (non-condensing)
Storage temperature	-20~60 °C (-4~131 °F)
Storage humidity	≤95% (non-condensing)
ANESTHESIA GAS SUPPLY MODULE	
Gas supply	O ₂ , N ₂ O, AIR; 280~600kPa
Cylinder yokes	Optional: O2, N2O, AIR
Fresh gas flow indicator	Electronically controlled mixer
Range of fresh gas flow indicators D2 flush	0~18L/min or set each gas independently: O ₂ , N ₂ O: 0~10L/min; AIR: 0~12L/min
J2 flush Auxiliary common gas outlet (ACGO)	25~75 L/min Optional
Auxiliary common gas outlet (ACGO) Anesthetic Gas Scavenging System (AGSS)	Optional
/aporizer	optional
Agent	Sevoflurane, Halothane, Enflurane, Isoflurane
nstallation mode	Selectatec [®] with interlock, optional standby vaporizer parking holder
Filling type	Pour-Fill, Key-Fill, Quik-Fil®
Breathing system	
/olume of CO ₂ absorber	1.5 L for single canister
APL Range	Spontaneous breathing (SP) -70 cmH2O
Material	Autoclavable (except O ² cell and airway pressure gauge)
Heating system	32-40 °C
CO ₂ bypass	Optional
/ENTILATOR OPERATING SPECIFICATIONS	
/entilator	Pneumatically driven, Electronically controlled
/entilation modes – standard	Manual/Spontaneous
	Volume control (IPPV)
/entilation modes - options	Pressure control (PCV) Pressure Controlled Ventilation Volume Guaranteed (PCV-VG)
ventuation modes - options	Synchronized Intermittent Mandatory Ventilation in Volume (SIMV-VC)
	Synchronized Intermittent Mandatory Ventilation in Pressure (SIMV-VC)
	Synchronized Intermittent Mandatory Ventilation in PCV-VG (SIMV-VG)
	Pressure Support (PS) / Continuos Positive Airway Pressure (CPAP)
	Bilevel Positive Airway Pressure Ventilation (BIVENT)
	Airway Pressure Release Ventilation (APRV)
Control input ranges	
Breathing frequency (Freq)	2~100 bpm
Positive end expiratory pressure (PEEP)	OFF, 3~50 cmH2O
nspiration/expiration ratio (I:E)	4:1~1:8
Tidal volume (Vt)	10~1500 ml
nspiration pause	OFF, 5%~60%
nspiratory time	0.2~5.0 s
nspiratory pressure (P _{TARGET})	5~70 cmH20
Pressure support level (ΔP) Pressure limit (Pmax)	<u>3~60 cmH2O</u> 10~100 cmH2O
	0.5~15 L/min / -20~-1cmH2O
Trigger nspiratory Slope Time (T _{SLOPE})	0~2s
Compensation	Compliance and Leak compensation, fresh gas compensation, altitude compensation
/entilator monitoring & alarm	compliance and Leak compensation, near gas compensation, altitude compensation
Monitoring	Continuous monitoring of inspiratory O ² concentration, breathing frequency, tidal
	volume, minute volume, peak airway pressure, PEEP, mean or plateau pressure, I:E ratio,
	resistance, compliance. Option: driving preasure, stress index,CO ₂ concentration,
	paramagnetic oxygen analyzer, anesthetic gas concentration with MAC
Frend storage	Maximum 720 hours of trend data table, 72 hours of trend chart
Trend storage Medical gas calculations	Maximum 720 hours of trend data table, 72 hours of trend chart Consumption of O2, N2O and Agent. Calculations of CO2 production. require relevant gas monitorin
Medical gas calculations Control screen	Maximum 720 hours of trend data table, 72 hours of trend chart Consumption of O ² , N ² O and Agent. Calculations of CO ² production. require relevant gas monitorin 15" TFT color touch screen
Medical gas calculations Control screen Graph Display	Maximum 720 hours of trend data table, 72 hours of trend chart Consumption of O ₂ , N ₂ O and Agent. Calculations of CO ₂ production. require relevant gas monitorin 15" TFT color touch screen Waveforms of P-t, F-t, V-t, CO ₂ -t (option), P-V Loop, V-F Loop, P-F Loop
Medical gas calculations Control screen	Maximum 720 hours of trend data table, 72 hours of trend chart Consumption of O ₂ , N ₂ O and Agent. Calculations of CO ₂ production. require relevant gas monitorin 15" TFT color touch screen Waveforms of P-t, F-t, V-t, CO ₂ -t (option), P-V Loop, V-F Loop, P-F Loop MV high/low limit, F _i O ₂ high/low limit, Paw high/low limit, Pow er failure
Medical gas calculations Control screen Graph Display	Maximum 720 hours of trend data table, 72 hours of trend chart Consumption of O ₂ , N ₂ O and Agent. Calculations of CO ₂ production. require relevant gas monitorin 15" TFT color touch screen Waveforms of P-t, F-t, V-t, CO ₂ -t (option), P-V Loop, V-F Loop, P-F Loop

Remark: Above configurations include standard and option. Please check price with your Aeonmed sales representative.



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Aeon8600A

Anesthesia Machine

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- PCV and SIMV+PS modes ensure flexibility in ventilation, suitable for both pediatric and adult operations
- Flowmeter with backlight, suitable for endoscopy surgery etc.
- Breathing system heater to avoid condensation build-up during low-flow anesthesia
- Enhances usability with auxiliary oxygen, suction, auxiliary power source, monitor arm (optional) etc.
- Optional CO2 and anesthetic gas analyzer

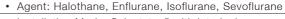
Ventilator Specifications

• With CE certificate, meets EU clinical requirements

Technical Specification

Physical & Envir	onment Sp	pecifications	
Dimensions (W	'×H×D): 70	04 mm × 1403 mm × 750 mm	
Weight: 115kg	(including	trolley base and 2 vaporizers,	
withou	t cylinder)		
Operation Tem	perature:	10 ~ 40 ° C	
Operation Hum	nidity:	≤80% (non-condensing)	
Storage Tempe	erature:	-20 ~ 55 ° C	
 Storage Humic 	lity:	\leq 93% (non-condensing)	
Electrical Specif	ications		
• Mains: 100 ~	240 V AC,	50/60 Hz	
Battery: 24V D	C, minimu	m 120 min	
Outlets: 4 on b	ack, 1.5A	individual	
Pneumatic Spec	ifications		
 Gas Supply: 	Air, O2,	N₂O; 280 kPa ~ 600 kPa	
Flowmeters:	O₂ Rang	ge: 0~1 L/min; 1 ~ 10 L/min	
	N2O Ra	nge: 0~1 L/min; 1 ~ 10 L/min	
	Air Ran	ge: 0~1 L/min; 1 ~ 12 L/min	
	Auxiliar	y O₂ Range: 0 ~ 15 L/min	
Gas System:	Flowme	ter backlight	
	Oxygen	supply failure alarm	
	N₂O cut	-off system	
	O₂ flush	1: 25 ~ 75 L/min	
ACGO:	Optiona	I auxiliary common gas outlet	
AGSS:	AGSS: Optional anesthetic gas scavenging system		
Breathing System Specifications			
• Operational Modes: Closed, Semi-closed, Semi-open			
• CO ₂ Canister:	2 L	oose fill (3 L) or 2 prepacks,	
	opt	ional single canister (1.5 L)	
• APL Range: S	pontaneou	ıs breathing (SP) -70 cmH₂O	
• Material: Autoclavable (except O ₂ cell and airway			
pres	sure gaug	e)	
• CO ₂ bypass: C	Optional		

ventilator opeenication	0			
Driven Mode: Pneumatic	cally driven and electronically			
controlled				
• Patient Types: Adult, Pe	diatric			
• Ventilation Modes: IPPV,	PCV, SIMV+PS, PS and Manual			
• Setting Modes: Touch	key & navigator wheel knob			
Tidal Volume:	20 ~ 1500 ml			
Ventilation Frequency:	4 ~ 100 bpm			
I:E Ratio:	4:1 ~ 1:8			
Pressure (inspired) Rang	je: 5 ~ 70 cmH₂O			
Pressure (support) Rang	e: 3 ~ 50 cmH ₂ O			
• PEEP:	Off, 3 ~ 30 cmH ₂ O			
Tslope:	0 ~ 2 s			
Inspiratory Plateau:	Off, 5% ~ 60% Ti			
 Trigger Sensitivity: 	1 ~ 15 L/min			
Compensation: Complia	nce and leakage compensation,			
fresh gas compensa	tion and altitude compensation			
Ventilator Monitoring				
	TFT color screen			
	P _{plat} , P _{mean} , PEEP			
Volumes: MV, Vt				
	optional CO ₂ , Agent and MAC			
Graph Display: P-t, F-t, P-V, F-V loops (can be saved),				
	al CO ₂ -t			
	sure/Low Airway Pressure			
Continuous airwa				
	me/Low Minute Volume			
High FiO ₂ /Low FiO ₂				
High Breath Rate				
O ₂ Supply failure				
Power failure				
	Apnea Alarm			
Alarm Silence: 11	0 s			
Vaporizer				
Supports two vaporizers				
 Agent: Halothane, Enflur 	rane. Isoflurane. Sevoflurane			



- Installation Mode: Selectatec® with interlock,
 - optional standby vaporizer parking holder

• Filling Type: Pour Fill, Key Fill, Quik-Fil®

Remark: Above configurations include standard and option. Please check price with your Aeonmed





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Physical Specifications

Dimensions

Height Width Depth (without YOKE) Weight (basic unit)

1420mm 770mm 760mm 135kg

25kg 650mm

380mm

Top Shelf

Weight limit	
Width	
Depth	

Work surface

Height 850mm Width 440mm 300mm Depth Matrial stainless steel

Flip-up side tray

Height 850mm Weight limit 12kg Width 265mm Depth 330mm

Drawers (internal dimensions)

Quantity Height Width Depth

3 120mm

355mm

340mm

Casters Diameter

Brakes

125mm Central control brake

Cylinder YOKE(optional)

Interface Туре

Number

Pin Index Safety System (PISS) Е **Optional 2 cylinders** Maximum 4 cylinders

Ventilator Operating Specifications

Modes of ventilation - standard Manual: IPPV PCV STANDBY; Demo

Modes of ventilation – Options

SIMV-VC, SIMV-PC PCV-VG, SIMV-VG PS/CPAP **BIVENT, APRV**

Tidal volume range

Ventilator parameter ranges

20 to 1500 mL Optional 10 to 1500 mL (Volume Control and SIMV modes) 5 to 1500 mL (Pressure Control Vent Mode)

Tidal volume increments of 5mL(Set Incremental settings Vt below 100mL) or 10mL(when between

100 and 1000mL) or 50mL(when set Vt bigger than 1000mL)

set

Vt

Pressure (P_{MAX}) range

(increments of 1 cmH₂O) (IPPV, SIMV-VC and PCV-VG vent modes)

10 to 100 cmH₂O

Pressure (Psupport) range

3 to 60 cmH₂O (increments of 1 $cmH_2O)$ (SIMV-VC/PC/VG,



	PS/CPAP, BIVENT		
	and APRV vent	Pressure trigger (P _{SENS})	-20 to -1 cmH ₂ O
	modes)		(increments of 1 cmH₂O)
Pressure (P _{TARGET})	5 to 70 cmH ₂ O		(SIMV-VC/PC/VG,
range	(increments of 1		PS/CPAP, BIVENT and
	cmH₂O)		APRV vent modes)
	(PCV and SIMV-PC		
	vent modes)	Esens	5 to 70%
			(increments of 5%)
Freq.	2 to 100 breaths per		(SIMV-VC/PC/VG,
	minute(SIMV-VC,		PS/CPAP, BIVENT and
	SIMV-PC and SIMV-		APRV vent modes)
	VG vent modes)		
	2 to 60 breaths per	ISENS	5 to 70%
	minute for Freq _{MIN} in		(increments of 5%)
	PS/CPAP vent modes.		(APRV vent modes)
	4 to 100 breaths per		
	minute(Other mode)	Рнідн	5 to 70 cmH ₂ O
	(increments		(increments of 1
	of 1 breath per minute)		cmH₂O)
			(BIVENT and APRV
Inspiratory/expiratory	4:1 to 1:8		vent modes)
ratio	(increments of 0.5)		
	(IPPV, PCV and PCV-	PLOW	3 to 50 cmH ₂ O
	VG vent modes)		(increments of 1
			cmH₂O)
Inspiratory time	0.2 to 5 seconds		(BIVENT and APRV
	(increments of 0.1		vent modes)
	seconds)		
	(SIMV-VC/PC/VG	T _{HIGH}	0.2s to 30s
	vent modes)		(increments of 0.1s)
			(BIVENT and APRV
Inspiratory Pause	OFF, 5% to 60%		vent modes)
Time	(increments of 5%)		
	(IPPV and SIMV-VC	TLOW	0.2s to 30s
	vent modes)		(increments of 0.1s)
			(BIVENT and APRV
Flow trigger(V _{SENS})	0.5 L/min to 15L/min		vent modes)
	(increments of 1L/min)		
	(SIMV-VC/PC/VG,	T _{SLOPE} (Inspiratory	0.2s to 2.0 seconds
	PS/CPAP, BIVENT and	Slope Time)	(increments of 0.1
	APRV vent modes)		seconds)

AEOMED Aeon8800A Anaesthesia Machine

Technical Specifications

Aeon8800A Anaes	thesia Machine		
	(PCV,PCV-VG,		minute
	SIMV-VC/PC/VG,		
	PS/CPAP, BIVENT	PAW	-20cmH ₂ O to
	and APRV vent		110cmH₂O
	modes)		
		FiCO ₂	0 to 10 vol%
Positive End E (PEEP)	xpiratory Pressure	EtCO ₂	0 to 10 vol%
Туре	Integrated electronically controlled	DP (Driving airway pressure)	0 to 120 cmH2O
Range	OFF, 3 to 50 cm H_2O	SI (Stress index)	0.1 to 5
	(increments of 1 cm H ₂ O)	VTI	0 to 3000mL
Ventilator performa		VTE	0 to 3000mL
Pressure range at inlet	280 kPa to 600kPa	I:E	4:1 to 1:8
Peak gas flow	≥90 L/min + fresh gas	Rsys	0 to 300cmH2O/(L/S)
	flow	Csys	0 to 300mL/(L/S)
Ventilator monitorin Minute volume range	0 to 30L	VO2	Real time calculation
Tidal volume range	0 to 3000mL	CO2-T	Real time calculation
FiO ₂	18% to 100%	Trend table Continuous trend inform	nation together with time
Peak pressure(P _{peak}) -20cmH ₂ O to 99cmH ₂ O		discrete events are stored and shown in the table, including P _{peak} , P _{plat} , P _{mean} , PEEP, Freq, V _T , MV, FiO ₂ , etCO ₂ , FiCO ₂ , Agent1, Agent2,	
Mean pressure(P _{mean})	-20cmH ₂ O to 99cmH ₂ O		-Air and FG-N₂O.The left 10 parameters and the right page.
Plat pressure(P _{plat})	-20cmH ₂ O to 99cmH ₂ O		ember maximum 30 days erval shall be 5 minutes,
PEEP	-20cmH ₂ O to	the interval Is adjustabl	e
	99cmH ₂ O		
Frequency	0 to 110 breaths per	£ 44	

AEOMED Aeon8800A Anaesthesia Machine

Technical Specifications

AEUNOOUUA ANAES			
		Inspired oxygen	Low: 18 to 99%
Trend chart		(FiO ₂)	High: 21 to 100%
Continuous trend infor	rmation are stored and		
shown in the chart, inc	cluding Pressure,CO2,	exhalant	Low: OFF, 0.1 to
Agent, MV,VT,O2, T	The machine shall rememb	CO ₂ (etCO ₂)	9.8% or OFF,1 to 74
the 72 hours trend cha	art		mmHg
			High: 0.1 to 9.9% or 1
_			to 75mmHg
Stories alarms			
	s can be viewed from the	Inspired CO_2 (FiCO ₂)	High: 0.1 to 1.4% or
log menu. Click on the	alarm message bar the		1 to 10 mmHg
detail information of th	he corresponding alarm		
appears on the screen.		Insp. HAL	Low: OFF, 0.1 to 8.3%
The machine shall rer	member the lastest 500		High: 0.1 to 8.4%
alarm messages,			
		Insp. ISO	Low: OFF, 0.1 to 8.3%
Delivery/monitoring	accuracy		High: 0.1 to 8.4%
Volume delivery	< 100 mL = better than		
	10 mL	Insp. ENF	Low: OFF, 0.1 to 9.8%
	> 100 mL = better than		High: 0.1 to 9.9%
	15%		
		Insp. DES	Low: OFF, 0.1 to
Pressure delivery	\pm 10% or \pm 3 cm H ₂ O		21.8%
			High: 0.1 to 21.9%
PEEP delivery	± 2 cmH ₂ O or $\pm 15\%$		
		Insp. SEV	Low: OFF, 0.1 to 9.8%
Volume monitoring	< 100 mL = better than		High: 0.1 to 9.9%
	10 mL		
	> 100 mL = better	Apnea alarm	Mechanical ventilation
	than15%		ON:
			Vt< 10 mL breath or
Pressure monitoring	\pm 5%		P _{mean} <1 cm H2O or
			P _{mean} =1 cm H2O and
Alarm settings			PEEP≤0cmH2O
Minute volume	Low: 0 to 20 L/min		measured in 30
(Mvexp)	High:1 to 25 L/min		seconds when
			Frequency≥6
Low airway pressure	0 to 70 cmH₂O		Vt < 10 mL breath or
			P _{mean} <1 cm H2O or
High pressure	10 to 110cmH ₂ O		P _{mean} =1 cm H2O and
			PEEP≤0cmH2O
High Breath Rate	8 to 60 bpm		measured in 35
			seconds when



Rsys,Csys

VO2,CO2-T

	Frequency<6		
	Manual mode:		
	Vt< 10 mL measured	Ventilator Screen	
	in 60 seconds	Display type	Color active matrix TFT
Sustained airway	Mechanical ventilation		Touch screen
pressure	ON:		
	Paw>PEEP add 10 cm	Display size	15 inches diagonal
	H ₂ O measured over		
	15 seconds	Pixel format	4004
	Continuously		1024×768
	Mechanical ventilation		
	OFF:	Color	LVDS 24 bit,
	Paw>10 cm H ₂ O		16777216 colors
	measured over 15		
	seconds Continuously	Display parameters	All setting and alarm
			parameters(incluing
Subatmospheric	$Paw < -2 \text{ cm } H_2O$		Vt, Freq., I:E, T _{INSP} ,
pressure			PEEP, Freq _{MIN} , T _P ,
			Trigger, P_{TARGET} , ΔP ,
Alarm silence	120 to 0 seconds		T _{SLOPE} , PEAK,
countdown timer:			MEAN, PLAT, FiO ₂ ,
			DP,SI,VTI,VTE,I:E,

Ventilator components

Flow transducer Type	Mass type Measure mass flow in bypass application	Display graphics	Wave of P-T, F-T, V- T, CO2-T(option), Paw-V Loop, V-Flow Loop, Paw -Flow Loop
Location	Installed in breathing		
	system	Communication ports	RS-232C compatible
			serial interface(DB 9
Oxygen Sensor			connector);
Type1	Galvanic fuel cell		RJ45 connector 100-
			Base-TX support HL7
Life Cycle	proximately 12 months		communication
	(Dependent on usage)		license;
			USB 2.0 interface
Type2	Paramagnetic oxygen		
Life Cycle	8 years		

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Technical Specifications

Integrated safety functions

In case of electricity and battery failure, manual ventilation, gas delivery and agent delivery are possible. Positive pressure relief valve opens at 110 ± 1 cmH₂O.

Anesthetic agent delivery

Agent setting range

Sevoflurance: :
OFF , 0.2% , 0.5% ,
1% , 2% , 3% , 4% ,
5% , 6% , 7% , 8% ;
Halothane,Enflurane,
Isoflurane:OFF ,
0.2% , 0.5% , 1% ,
2% , 3% , 4% , 5% ;

Delivery Vaporizer	VP300		2% , 3% , 4% , 5% ;
Туре	Halothane, Enflurane, Isoflurane,	Gas mornit	or(optional)
	Sevoflurane,	Туре	main stream/side stream
Number of positions	2		
		Moudle	IRMA CO2; IRMA AX+
Mounting	Selectatec ^R manifold		ISA CO2; ISA AX+
	interlocks		
		Operating	IRMA AX+: 10 to
Dimensions		temperature	40 °C (50 to 104 °F)
Height	23 cm		IRMA CO2: 0 to
Width	12 cm		40 °C (32 to 104 °F)
Depth	21 cm		ISA CO2: 0 to 50 °C
Weight	6.2 kg		(32 to 122 °F)
Agent capacity	250ml		ISA AX+: 5 to 50 °C
			(41 to 122 °F)
Accuracy			(
Flow range	0.2-15L/min	Storage temperature	IRMA AX+: -20 to
		eterage temperature	75 °C (-4 to 167 °F)
Operation	15-35℃		IRMA CO2: -40 to
temperature	10-00 C		75 °C (-40 to 167 °F)
			ISA CO2: -40 to 70 °C
Accuracy	$\pm 20\%$ of setting or \pm		(-40 to 158 °F)
	5% of the maximum scale		ISA AX+: -40 to 70 °C (-40 to 158 °F)

Operating humidity

scale



Aeon8800A Anaes	Aeon8800A Anaesthesia Machine			
	condensing) (95 %RH	Infant.		
	at 30 °C)			
		ISA Nomoline	Sampling line with	
Operating	525 - 1200 hPa		proprietary water	
atmospheric pressure	(<4572 m)		removal tubing.	
			2 m±0.1m versions	
Warm-up time	IRMA AX+/ISA AX+: <			
·	20 sec	Carbon Dioxide (CC	D ₂) Moudle	
	IRMA CO ₂ /ISA CO ₂ : <	(IRMA/ISA CO ₂)	,	
	10 sec	Monitor Gas	CO ₂	
			-	
Rise Time	IRMA CO ₂ / AX+:	Measurement range	0-15 vol%	
	CO₂≤90ms	5		
	N₂O≤300ms	Accuracy	0-15 vol%	
	HAL, ISO, ENF, SEV,	,, j		
	DES≤300ms		± (0.2 vol% + 2 % of	
	ISA CO ₂ :		reading)	
	CO ₂ ≤200ms			
	ISA AX+ :	Anaesthesia Gas	Moudle(IRMA/ISA	
	CO₂ ≤300ms	AX+)		
	N ₂ O, O ₂ , ENF, ISO,	Monitor Gases	CO2;N2O;HAL;ISO;EN	
	SEV, DES ≤400ms		F;SEV;DES	
	HAL ≤500ms		.,	
		Measurement range	CO2: 0-15 vol%	
ISA sampling flow rate	50 ± 10 ml/min	<u>j</u>	N ₂ O: 0-100 vol%	
1 3 4			HAL, ISO, ENF: 0-8	
Breath detect	Adaptive threshold,		vol%	
	minimum 1 % CO_2		SEV: 0-10 vol%	
	change.		DES: 0-22 vol%	
Respiratory rate:		Accuracy		
	0 - 150 bpm ± 1 bpm	CO ₂	0-15 vol%	
		-		
Compensation:	Automatic for		± (0.2 vol% + 2 % of	
	atmospheric pressure,		reading)	
	temperature and		3,	
	spectral interference	N ₂ O		
			±(2 vol% + 2 % of	
Airway adapters			reading)	
IRMA Airway Adapter	6 ml dead space		5,	
Adult/Paediatric	·	HAL, ISO, ENF		
			±(0.15 vol% + 5 % of	
IRMA Airway Adapter	1 ml dead space		reading)	
	Daga 7 of	11	<i></i>	

AEOMED Aeon8800A Anaesthesia Machine

Technical Specifications

Aeon8800A Anaes	thesia Machine		
		Battery type	Internal rechargeable
SEV	±(0.15 vol% + 5 % of		sealed lead acid
			24VDC,5.0AH
	reading)		
		Backup power	Demonstrated battery
DES	±(0.15 vol% + 5 % of		backup time under
			typical operating conditions is 120
	reading)		minutes when fully
Paramagnetic oxyg	en module		charged
Range	0-100%		charged
rungo		Charge time	< 8 hours (in running
Accuracy	${<}\pm$ 0.2% O ₂	charge time	status or standby
			mode)
Response Time (T10	8 to 20 seconds)
–T90)	dependent on	Power code	5m/16.4ft
	application and filter		
	selection (biological	Outlets	4 outlets on back
	filter on request)		
		Maximum output valve	1.5A(single plug);
Operation	5 °C to 50 °C (41°F	of auxiliary AC power	6A(in total)
Temperature	to 122°F)	plug	
Storage Temperature	-30°C to 70°C (-22°F		
Storage Temperature	to 158°F)	Pneumatic	
Storage Pressure	10kPa-	specificatio	ns
Ū.	200kPa(1.5psi-30psi)		
		Auxiliary common g	gas outlet(optional)
Ambient Humidity	0 to 95% non-	Connector:	ISO 22 mm OD and 15
	condensing		mm ID
RoHS	ROHS Directive	Security	Anti-misconnection
	2002/95/EC		switch and prominent
			prompts on the screen
Electrical sp	ecifications	Gas supply	
	_	Gas supply Gas type	O ₂ ,N ₂ O,Air
Power and battery b	hackup	Gas type	02,IN20,AII
Power input	100-240V,50/60Hz,	Pipeline input range	280 kPa to 600 kPa/41
i owor input	100 270 ,00/00112,	i ipolitio iliput tutige	

Max. ≤8A

Pipeline connections

psi to 87 psi



Cylinder input	Pin-index yokes	Flow indicator	Flow tube
Primary regulator nominal output	250 kPa/36psig	Auxiliary gas output Gas	Oxygen
O ₂ controls Method	Proportionate	Pressure	280-600kPa
	decrease of N_2O with reduction in O_2	Flow rate	Max.90L/min
	pressure	Breathing c	ircuit
Supply failure alarm	Range: 185 to 215 kPa	specificatio	ns
O ₂ flush	Range: 25 to 75 L/min	Carbon dioxide abs Absorbent capacity	orbent canister 1500ml
Electronic control F	lowmeter (Electronic		
Mixer)		CO ₂ bypass	Optional
O ₂ ranges	0 to 10 L/min		
N ₂ O ranges	0 to 10 L/min	Ports and connecto	rs
Air ranges	0 to 12 L/min	Exhalation	22 mm OD ISO 15
			mm ID taper
Total Flow Control	Total flow range: 0.2		
Mode	to 18 L/min	Inhalation	22 mm OD ISO 15
	O concentration		mm ID taper
	range: 21% to 100%		
		Bag port	22 mm OD
Integrated safety fu	nctions		
Guarantees a minimum	O ₂ concentration of 25%	Pressure gauge	
in an O ₂ /N ₂ O mixture.		Scale range	-20 to 100 cm H ₂ 0
N ₂ O cut-off if O ₂ pressu	re is less than 200kPa		2010/100/011/120
Driven gas auto-sw	itch(optional)	Bag-to-Ventilator switch	
Use compressed air as		Type	Key switch
When the compressed		.)	,
the machine will automa		Control	Controls ventilator and
driving gas.			direction of
0.0			breathing gas within
Auxiliary oxygen inh	nalation		the circuit
Range	1-15L/min		
č		Integrated Adjustab	le Pressure Limiting
Pressure	400kPa	(APL) valve	

Page 9 of 11



Aeon8800A Anae	sthesia Machine		
Range	0 to 70 cm H ₂ O	Expiratory resistance	0.57 kPa
		under automatic	
Tactile knob	30 cm H_2O and above		
indication at		Inpiratory resistance	0.22 kPa
		under automatic	
Adjustment range of	0 to 30 cm H ₂ O (0 to		
rotation	180°)	Ŭ	0 80601-2-13, test under
	,	peak flow 60L/min, fr	esh gas 10L/min.
	30 to 70 cm H ₂ O (180		
	to 288°)		
A		Heating system(op	tional)
Accuracy	< 30 cm H ₂ O:±3 cm	Temperature	32 - 40 °C
	H ₂ O;		
	120,	Materials	
	\geq 30 cm H ₂ O:±15% of	All materials in contac	t with exhaled patient
	set value;	gases are autoclavabl	•
	,	pressure meter and O	•
		•	

Breathing circuit parameters

Compliance (Bag mode)	4.5ml/ cm H ₂ O
Compliance (Mechanical Mode)	Automatically compensates for compression losses within the absorber and bellows assembly
Circuit volume	3.9 L Vent Mode (including absorber; bellow) 2.4 L Bag Mode
Expiratory resistance under manual condition	0.51 kPa
Inpiratory resistance under manual condition	0.39 kPa

Anesthetic gas scavenging System(AGSS)

free of natural rubber latex.

All materials in contact with patient gas are

Size	445×142×95 (height x
	width x depth)
Weight	2.25Kg
Type of disposal	Low-flow disposal
system	system
system	System
extract Flow	35L/Min \sim 50L/Min
Pressure relief device	Pressure
	compensation opening
	to the atmosphere
Filter	Stainless screen with
	hole diameter of



requirements

of EN 60601-1-2

150µm

Spillage	<100mL/min	System storage Temperature	- 20 to 55 ℃
Maximum constant	50L/Min		
flow		Humidity	Less than 95% relative
Maximum intermittent	35L/Min		humidity, non-
flow			condensing.
Environmer	ntal	Barometric	70-106kPa
constitutions		Electromagnetic compatibility	
specificatio	115	Immunity	Complies with all

System operation

Temperature	10 to 40 ℃		
		Emissions	CISPR 11 group 1
Humidity	Less than 95% relative humidity, non- condensing.		class A

Atmospheric pressure

70-106kPa

(E 0123

to product with CE mark.

CE mark in this manual apply only

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Edition 1.0 May.2021

Physical Specifications

Dimensions

Height Width Depth (without YOKE) Weight (basic unit)

1410mm 740mm 730mm 110kg

25kg 650mm

380mm

Top Shelf

Weight limit	
Width	
Depth	

Work surface

Height850mmWidth440mmDepth300mmMatrialstainless steel

Flip-up side tray

Height850mmWeight limit12kgWidth265mmDepth330mm

Drawers (internal dimensions)

Quantity Height Width Depth 3 120mm

355mm

340mm

Casters Diameter

Brakes

125mm Central control brake

Cylinder YOKE(optional)

Interface Type

Number

Pin Index Safety System (PISS) E Optional 2 cylinders Maximum 4 cylinders

range

Ventilator Operating Specifications

Modes of ventilation – standard Manual; IPPV PCV STANDBY; Demo

Modes of ventilation - Options

SIMV-VC, SIMV-PC PCV-VG, SIMV-VG PS/CPAP BIVENT, APRV

Tidal volume range

Tidal volume

Incremental settings

Pressure (P_{MAX}) range

Pressure (Psupport)

Ventilator parameter ranges

20 to 1500 mL Optional 10 to 1500 mL (Volume Control and SIMV modes) 5 to 1500 mL (Pressure Control Vent Mode)

increments of 5mL(Set Vt below 100mL) or 10mL(when set Vt between 100 and 1000mL) or 50mL(when set Vt bigger than 1000mL)

10 to 100 cmH₂O (increments of 1 cmH₂O) (IPPV, SIMV-VC and PCV-VG vent modes)

3 to 60 cmH₂O (increments of 1 cmH₂O) (SIMV-VC/PC/VG,



	PS/CPAP, BIVENT		
	and APRV vent	Pressure trigger (P _{SENS})	-20 to -1 cmH ₂ O
	modes)		(increments of 1 cmH₂O)
Pressure (P _{TARGET})	5 to 70 cmH ₂ O		(SIMV-VC/PC/VG,
range	(increments of 1		PS/CPAP, BIVENT and
	cmH₂O)		APRV vent modes)
	(PCV and SIMV-PC		
	vent modes)	Esens	5 to 70%
			(increments of 5%)
Freq.	2 to 100 breaths per		(SIMV-VC/PC/VG,
	minute(SIMV-VC,		PS/CPAP, BIVENT and
	SIMV-PC and SIMV-		APRV vent modes)
	VG vent modes)		
	2 to 60 breaths per	ISENS	5 to 70%
	minute for Freq _{MIN} in		(increments of 5%)
	PS/CPAP vent modes.		(APRV vent modes)
	4 to 100 breaths per		
	minute(Other mode)	Рнідн	5 to 70 cmH ₂ O
	(increments		(increments of 1
	of 1 breath per minute)		cmH₂O)
			(BIVENT and APRV
Inspiratory/expiratory	4:1 to 1:8		vent modes)
ratio	(increments of 0.5)		
	(IPPV, PCV and PCV-	PLOW	3 to 50 cmH ₂ O
	VG vent modes)		(increments of 1
			cmH ₂ O)
Inspiratory time	0.2 to 5 seconds		(BIVENT and APRV
	(increments of 0.1		vent modes)
	seconds)		
	(SIMV-VC/PC/VG	T _{HIGH}	0.2s to 30s
	vent modes)		(increments of 0.1s)
			(BIVENT and APRV
Inspiratory Pause	OFF, 5% to 60%		vent modes)
Time	(increments of 5%)		
	(IPPV and SIMV-VC	TLOW	0.2s to 30s
	vent modes)		(increments of 0.1s)
			(BIVENT and APRV
Flow trigger(V _{SENS})	0.5 L/min to 15L/min		vent modes)
	(increments of 1L/min)		
	(SIMV-VC/PC/VG,	T _{SLOPE} (Inspiratory	0.2s to 2.0 seconds
	PS/CPAP, BIVENT and	Slope Time)	(increments of 0.1
	APRV vent modes)		seconds)

AEOMED Aeon8600A Anaesthesia Machine

Technical Specifications

Aeon8600A Anaes	thesia Machine		
	(PCV,PCV-VG,		minute
	SIMV-VC/PC/VG,		
	PS/CPAP, BIVENT	PAW	-20cmH ₂ O to
	and APRV vent		110cmH ₂ O
	modes)		
		FiCO ₂	0 to 10 vol%
Positive End E (PEEP)	xpiratory Pressure	EtCO ₂	0 to 10 vol%
Туре	Integrated electronically controlled	DP (Driving airway pressure)	0 to 120 cmH2O
Range	OFF, 3 to 50 cm H_2O	SI (Stress index)	0.1 to 5
	(increments of 1 cm H ₂ O)	VTI	0 to 3000mL
Ventilator performa		V _{TE}	0 to 3000mL
Pressure range at inlet	280 kPa to 600kPa	I:E	4:1 to 1:8
Peak gas flow	≥90 L/min + fresh gas	Rsys	0 to 300cmH2O/(L/S)
	flow	Csys	0 to 300mL/(L/S)
Ventilator monitorin Minute volume range	0 to 30L	VO2	Real time calculation
Tidal volume range	0 to 3000mL	CO2-T	Real time calculation
FiO ₂	18% to 100%	Trend table Continuous trend inforr	nation together with time
Peak pressure(P _{peak})	-20cmH ₂ O to 99cmH ₂ O	discrete events are stored and shown in the table, including P_{peak} , P_{plat} , P_{mean} , PEEP, Free V _T , MV, FiO ₂ , etCO ₂ , FiCO ₂ , Agent1, Agent2	
Mean pressure(P _{mean})	-20cmH ₂ O to 99cmH ₂ O		-Air and FG-N ₂ O.The left 10 parameters and the right page.
Plat pressure(P _{plat})	-20cmH ₂ O to 99cmH ₂ O		ember maximum 30 days erval shall be 5 minutes,
PEEP	-20cmH₂O to	the interval Is adjustabl	e
	99cmH ₂ O		
Frequency	0 to 110 breaths per	c . 1.1	

AEOMED Aeon8600A Anaesthesia Machine

Technical Specifications

Aeon8600A Anaes	stnesia Machine		
		Inspired oxygen	Low: 18 to 99%
Trend chart		(FiO ₂)	High: 21 to 100%
Continuous trend info	rmation are stored and		
shown in the chart, in	cluding Pressure,CO2,	exhalant	Low: OFF, 0.1 to
Agent, MV,VT,O2,	The machine shall rememb	CO ₂ (etCO ₂)	9.8% or OFF,1 to 74
the 72 hours trend ch	art		mmHg
			High: 0.1 to 9.9% or 1
_			to 75mmHg
Stories alarms			
•	s can be viewed from the	Inspired CO_2 (FiCO ₂)	High: 0.1 to 1.4% or
log menu. Click on the	e alarm message bar the		1 to 10 mmHg
detail information of	the corresponding alarm		
appears on the screen		Insp. HAL	Low: OFF, 0.1 to 8.3%
The machine shall re	member the lastest 500		High: 0.1 to 8.4%
alarm messages,			
		Insp. ISO	Low: OFF, 0.1 to 8.3%
Delivery/monitoring			High: 0.1 to 8.4%
Volume delivery	< 100 mL = better than		
	10 mL	Insp. ENF	Low: OFF, 0.1 to 9.8%
	> 100 mL = better than		High: 0.1 to 9.9%
	15%		
		Insp. DES	Low: OFF, 0.1 to
Pressure delivery	\pm 10% or \pm 3 cm H ₂ O		21.8%
			High: 0.1 to 21.9%
PEEP delivery	± 2 cmH ₂ O or $\pm 15\%$		
		Insp. SEV	Low: OFF, 0.1 to 9.8%
Volume monitoring	< 100 mL = better than		High: 0.1 to 9.9%
	10 mL		
	> 100 mL = better	Apnea alarm	Mechanical ventilation
	than15%		ON:
			Vt< 10 mL breath or
Pressure monitoring	\pm 5%		P _{mean} <1 cm H2O or
			P _{mean} =1 cm H2O and
Alarm settings			PEEP≤0cmH2O
Minute volume	Low: 0 to 20 L/min		measured in 30
(Mvexp)	High:1 to 25 L/min		seconds when
			Frequency≥6
Low airway pressure	0 to 70 cmH ₂ O		Vt < 10 mL breath or
			P _{mean} <1 cm H2O or
High pressure	10 to 110cmH ₂ O		P _{mean} =1 cm H2O and
			PEEP≤0cmH2O
High Breath Rate	8 to 60 bpm		measured in 35
			seconds when



Rsys,Csys

VO2,CO2-T

	Frequency<6		
	Manual mode:		
	Vt< 10 mL measured	Ventilator Screen	
	in 60 seconds	Display type	Color active matrix TFT
Sustained airway	Mechanical ventilation		Touch screen
pressure	ON:		
	Paw>PEEP add 10 cm	Display size	12.1 inches diagonal
	H ₂ O measured over		
	15 seconds	Pixel format	1024×768
	Continuously		1024×700
	Mechanical ventilation		
	OFF:	Color	LVDS 24 bit,
	Paw>10 cm H ₂ O		16777216 colors
	measured over 15		
	seconds Continuously	Display parameters	All setting and alarm parameters(incluing
Subatmospheric	Paw < -2 cm H_2O		Vt, Freq., I:E, T _{INSP} ,
pressure			PEEP, Freq _{MIN} , T _P ,
			Trigger, P_{TARGET} , ΔP ,
Alarm silence	120 to 0 seconds		T _{SLOPE} , PEAK,
countdown timer:			MEAN, PLAT, FiO ₂ ,
			DP,SI,VTI,VTE,I:E,

Ventilator components

Flow transducer Type	Mass type Measure mass flow in bypass application	Display graphics	Wave of P-T, F-T, V- T, CO2-T(option), Paw-V Loop, V-Flow Loop, Paw -Flow Loop
Location	Installed in breathing		
	system	Communication ports	RS-232C compatible serial interface(DB 9
Oxygen Sensor			connector);
Type1	Galvanic fuel cell		RJ45 connector 100-
			Base-TX support HL7
Life Cycle	proximately 12 months		communication
	(Dependent on usage)		license;
			USB 2.0 interface
Туре2	Paramagnetic oxygen		
Life Cycle	8 years		

AEOMED Aeon8600A Anaesthesia Machine

Technical Specifications

Integrated safety functions

In case of electricity and battery failure, manual ventilation, gas delivery and agent delivery are possible. Positive pressure relief valve opens at 110 ± 1 cmH₂O.

Anesthetic agent delivery

Agent setting range

Sevoflurance: :
OFF , 0.2% , 0.5% ,
1% , 2% , 3% , 4% ,
5% , 6% , 7% , 8% ;
Halothane,Enflurane,
Isoflurane:OFF ,
0.2% , 0.5% , 1% ,
2% , 3% , 4% , 5% ;

Delivery Vaporizer	VP300		2% , 3% , 4% , 5% ;
Туре	Halothane, Enflurane, Isoflurane,	Gas mornit	or(optional)
	Sevoflurane,	Туре	main stream/side stream
Number of positions	2		
		Moudle	IRMA CO2; IRMA AX+
Mounting	Selectatec ^R manifold		ISA CO2; ISA AX+
	interlocks		
		Operating	IRMA AX+: 10 to
Dimensions		temperature	40 °C (50 to 104 °F)
Height	23 cm		IRMA CO2: 0 to
Width	12 cm		40 °C (32 to 104 °F)
Depth	21 cm		ISA CO2: 0 to 50 °C
Weight	6.2 kg		(32 to 122 °F)
Agent capacity	250ml		ISA AX+: 5 to 50 °C
			(41 to 122 °F)
Accuracy			(
Flow range	0.2-15L/min	Storage temperature	IRMA AX+: -20 to
		eterage temperature	75 °C (-4 to 167 °F)
Operation	15-35° ⊂		IRMA CO2: -40 to
temperature	10 00 0		75 °C (-40 to 167 °F)
			ISA CO2: -40 to 70 °C
Accuracy	$\pm20\%$ of setting or \pm		(-40 to 158 °F)
	5% of the maximum scale		ISA AX+: -40 to 70 °C (-40 to 158 °F)

Operating humidity

scale



Aeon8600A Anaes	thesia Machine		
	condensing) (95 %RH	Infant.	
	at 30 °C)		
		ISA Nomoline	Sampling line with
Operating	525 - 1200 hPa		proprietary water
atmospheric pressure	(<4572 m)		removal tubing.
			2 m±0.1m versions
Warm-up time	IRMA AX+/ISA AX+: <		
	20 sec	Carbon Dioxide (CC	D ₂) Moudle
	IRMA CO ₂ /ISA CO ₂ : <	(IRMA/ISA CO ₂)	
	10 sec	Monitor Gas	CO ₂
Rise Time	IRMA CO ₂ / AX+:	Measurement range	0-15 vol%
	CO₂≤90ms		
	N₂O≤300ms	Accuracy	0-15 vol%
	HAL, ISO, ENF, SEV,		(0.0
	DES≤300ms		± (0.2 vol% + 2 % of
	ISA CO ₂ :		reading)
	CO₂ ≤200ms		
	ISA AX+ :	Anaesthesia Gas	Moudle(IRMA/ISA
	CO₂ ≤300ms	AX+)	
	N2O, O2, ENF, ISO,	Monitor Gases	CO2;N2O;HAL;ISO;EN
	SEV, DES ≤400ms		F;SEV;DES
	HAL ≤500ms		
		Measurement range	CO2: 0-15 vol%
ISA sampling flow rate	50 ± 10 ml/min		N ₂ O: 0-100 vol%
			HAL, ISO, ENF: 0-8
Breath detect	Adaptive threshold,		vol%
	minimum 1 % CO ₂		SEV: 0-10 vol%
	change.		DES: 0-22 vol%
Respiratory rate:	0 - 150 bpm ± 1 bpm	Accuracy	
		CO ₂	0-15 vol%
Compensation:	Automatic for		\pm (0.2 vol% + 2 % of
	atmospheric pressure,		reading)
	temperature and		
	spectral interference	N ₂ O	±(2 vol% + 2 % of
Airway adapters			reading)
IRMA Airway Adapter	6 ml dead space		
Adult/Paediatric		HAL, ISO, ENF	(0.4E)(0.4E)(0.4E)
			±(0.15 vol% + 5 % of
IRMA Airway Adapter	1 ml dead space		reading)
		<i>с лл</i>	

AEOMED Aeon8600A Anaesthesia Machine

Technical Specifications

Aeon8600A Anaes	thesia Machine		
		Battery type	Internal rechargeable
SEV	±(0.15 vol% + 5 % of		sealed lead acid
			24VDC,5.0AH
	reading)		
		Backup power	Demonstrated battery
DES	±(0.15 vol% + 5 % of		backup time under
	reading)		typical operating conditions is 120
	reading)		minutes when fully
Paramagnetic oxyg	en module		charged
Range	0-100%		onalgoa
		Charge time	< 8 hours (in running
Accuracy	${<}\pm$ 0.2% O ₂		status or standby
			mode)
Response Time (T10	8 to 20 seconds		
–T90)	dependent on	Power code	5m/16.4ft
	application and filter		
	selection (biological	Outlets	4 outlets on back
	filter on request)		
		Maximum output valve	1.5A(single plug);
Operation	5 °C to 50 °C (41°F	of auxiliary AC power	6A(in total)
Temperature	to 122°F)	plug	
Storage Temperature	-30°C to 70°C (-22°F	_	
otorago romporataro	to 158°F)	Pneumatic	
Storage Pressure	10kPa-	specificatio	ns
	200kPa(1.5psi-30psi)		
		Auxiliary common g	as outlet(optional)
Ambient Humidity	0 to 95% non-	Connector:	ISO 22 mm OD and 15
	condensing		mm ID
		0 <i>i</i>	
RoHS	ROHS Directive	Security	Anti-misconnection
	2002/95/EC		switch and prominent
			prompts on the screen
Electrical sp	ecifications	Gas supply	
		Gas type	O ₂ ,N ₂ O,Air
Power and battery b	backup		, ,
Power input	100-240V,50/60Hz,	Pipeline input range	280 kPa to 600 kPa/41

Max. ≤8A

Pipeline connections

psi to 87 psi



Technical Specifications

,,,			
		Flow indicator	Flow tube
Cylinder input	Pin-index yokes		
		Auxiliary gas out	put
Primary regulator nominal output	250 kPa/36psig	Gas	Oxygen
		Pressure	280-600kPa
O ₂ controls			
Method	Proportionate decrease of N ₂ O with	Flow rate	Max.90L/min
	reduction in O ₂ pressure	Breathing	circuit
Supply failure alarm	Range: 185 to 215 kPa	specificat	ions
		Carbon dioxide a	absorbent canister
O ₂ flush	Range: 25 to 75 L/min	Absorbent capacity	1500ml
		, losonsoni capacity	
Electronic Display	Flowmeter	CO ₂ bypass	Optional
O ₂ ranges	0.05 to 0.95 L/min		
	and 1.0 to 10.0 L/min;	Ports and conne	ctors
		Exhalation	22 mm OD ISO 15
N ₂ O ranges	0.05 to 0.95 L/min		mm ID taper
	and 1.0 to 10.0 L/min;		
		Inhalation	22 mm OD ISO 15
Air ranges	0.05 to 0.95 L/min		mm ID taper
	and 1.0 to 12.0 L/min;		
		Bag port	22 mm OD
Integrated safety f	unctions		
Guarantees a minimur	n O2 concentration of 25%	Pressure gauge	
in an O ₂ /N ₂ O mixture.		Scale range	−20 to 100 cm H ₂ 0
N ₂ O cut-off if O ₂ press	ure is less than 200kPa		
Driven gas auto-sv	vitch(optional)	Bag-to-Ventilato	r switch
Use compressed air a		Туре	Key switch
-	air supply is disrupted,		
the machine will auton		Control	Controls ventilator and
driving gas.	-		direction of
			breathing gas within
Auxiliary oxygen ir	halation		the circuit
Range	1-15L/min		
č		Integrated Adius	table Pressure Limiting
Pressure	400kPa	(APL) valve	----
-		Range	0 to 70 cm H ₂ O

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Tactile knob indication at	$30 \text{ cm H}_2\text{O}$ and above
Adjustment range of	0 to 30 cm H_2O (0 to
rotation	180°)
	$30 \text{ to } 70 \text{ cm } H_2O$ (180
	to 288°)
Accuracy	< 30 cm H ₂ O:±3 cm
	H ₂ O;
	$\geq\!30~\text{cm}~H_2O{:}{\pm}15\%$ of
	set value;

Breathing circuit parameters

Compliance (Bag mode)	4.5ml/ cm H ₂ O
Compliance (Mechanical Mode)	Automatically compensates for compression losses within the absorber and bellows assembly
Circuit volume	3.9 L Vent Mode (including absorber; bellow) 2.4 L Bag Mode
Expiratory resistance under manual condition	0.51 kPa
Inpiratory resistance under manual condition	0.39 kPa
Expiratory resistance	0.57 kPa

under automatic

Inpiratory resistance 0.22 kPa under automatic

Note: According to ISO 80601-2-13, test under peak flow 60L/min, fresh gas 10L/min.

Heating system(optional)

Temperature32 - 40°C

Materials

All materials in contact with exhaled patient gases are autoclavable, except mechanical pressure meter and O_2 cell. All materials in contact with patient gas are free of natural rubber latex.

Anesthetic gas scavenging System(AGSS)

Size Weight	445×142×95 (height x width x depth) 2.25Kg
Type of disposal system	Low-flow disposal system
extract Flow	35L/Min \sim 50L/Min
Pressure relief device	Pressure compensation opening to the atmosphere
Filter	Stainless screen with hole diameter of 150µm



ACONOCOA ANACS			
		System storage	
Spillage	<100mL/min	Temperature	− 20 to 55 °C
Maximum constant flow	50L/Min	Humidity	Less than 95% relative humidity, non-
Maximum intermittent flow	35L/Min		condensing.
		Barometric	70-106kPa
Environmental specifications		Electromagnetic compatibility	
		Immunity	Complies with all requirements of EN 60601-1-2
System operation			
Temperature	10 to 40 ℃	Emissions	CISPR 11 group 1 class A
Humidity	Less than 95% relative humidity, non- condensing.		

Atmospheric pressure

70-106kPa

Beijing Aeonmed Co., Ltd. HQs Add: Building 9, No.26 Outer Ring West Road, Fengtai District, Beijing 100070, China Operation Center Addr: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province, China 065201 Tel: +86-10-5841 1198 (Yanjiao) / +86-10-8368 1616 (Beijing) E-Mail: service@aeonmed.com Website: http://www.aeonmed.com

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CE mark in this manual apply only to product with CE mark.

Edition 1.0 May.2021



BIO SIGNAL TOTAL SOLUTION

Product

Fetal Monitor · Fetal Doppler · Infant Incubator · Infant Warmer · Phototherapy
 <u>· Electric Breast Pump · Patient Monitor · Vascular Doppler · Head Lamp</u>



Fetal Monitor

BT-350 LCD Monitor / LED Monitor



BT-300 LED Monitor







BT-350L

BT-350E

- · 7" TFT color LCD / Large size LED · Display mode variation - Graph mode, Number mode, Trend mode Multi language support Trend : 450 hours (3 hours/patient)
- Desktop & Wall mount
- CTG Analysis (BT-350L)
- USB Data Saving
- CCV (Cross-Channel Verification) Function



Specifications	BT300	BT350E	BT350L
Ultrasound Frequency	0.985MHz		
FHR Range	Twin / 30 ~ 240 bpm		
Fetal Movement		Auto-detection & print	
UC	0 ~ 99 units		
Print Function	1, 2, 3cm/min speed & Auto print (Off, 10, 20, 30, 40, 50, 60min) & FHR II offset		
Display	Medium 7-segment LED	ent LED Large 7-segment LED 7" TFT color	
Diagnosis	No	No	Yes
Trend(Data Save)	No	No	Yes(450 hours)
USB Function (data transfer)	No	Yes	Yes
Central Monitoring System	BCM350 (RS-232C / Bluetooth or WiFi)		
Warranty	2 years (Accessory Excluded)		
Options	Rechargeable battery, Acoustic stimulator, Cart, Wall mounted bracket (BT-350)		

BT-200 (Hi-bebe) Sound / Mono / Color





132 +

BT-200C

97

BT-220C









BT-220L

BT-250 Desktop Doppler



Specifications	BT200S	BT200L	BT200C	BT200T	BT220L	BT220C	BT250
Ultrasound Frequency		2MHz		3MHz	2, 3	MHz	2MHz
FHR Range			50 ~ 240 bpm			30 ~ 24	40 bpm
Display	No	Mono LCD	Color LED	Mono LCD	Mono LCD	2.4" TFT color	3.2" TFT Color
Battery Time (hours)			5			4	5
Power				100~240V / rechargeable			
Rechargeable Battery	Yes			Yes			
PC Interface	BCM200 (Sound card)			RS-232C			
Trend (Data Save)	No	No	No	No	No	No	4 hours
Acoustic Stimulate Function	No	No	No	No	Yes	Yes	No
Options		-	-		USB	cable	Cramp

Fetal Doppler

- · LCD / OLED display
- · High quality sound
- · High sensitivity probe (2,3MHz)
- · Hand-held style
- · Low battery indicator
- · Waterproof Probe
- · 2.4" Color LCD display
- · Acoustic stimulator (BT-220C,L)
- · Body fat analysis (BT-220C)
- Mother HR function (BT-220C)
- · USB Rechageable (BT-220C,L)
- · Waterproof Probe

· 3.2" Color LCD display
· Data Save : 4 Hours
· Multi languages support
· Built-in rechargeable battery
· High quality sound
· High sensitivity(2MHz)
Compact & Light
· Waterproof probe

Infant Incubator

BT-500

- Accurate humidity control
- · Comfortable & soft tilting structure
- · 7" Color LCD Display
- · Powerful Lifting Stand (option)
- · O2 Monitoring / O2 Servo Control (option)
- · MASIMO SpO2 & CCD Camera (option)
- · Correct Weighting Scale (option)
- · Various Alarm Functions
- \cdot Low Noise Hood



Air / Skin temperature Humidity Servo control



Mattress tilt

Specifications	BT500		
Display	7" TFT color LCD		
Dimension / Weight	1,024mm(W) x 690mm(D) x 1,354mm(H) / 99.3kg		
Air / Skin Temperature Control Range	23.0 ~ 37.0 °C ±0.5 °C / 35 ~ 37.5 °C ±0.5 °C (override < 39.0 °C)		
Humidity Control / Measurement Range	40 ~ 95%±5% RH / 15 ~ 99%±5% RH		
Humidity Control System	Steam		
Water Tank Capacity	1,000 ml		
Mattress Size & Tilt	730(L) x 27(H) x 380(D) mm / 12°		
Noise Level	< 45dB		
	Lifting Stand : 651(min) ~ 851(max)mm		
	Drawer		
	Plate		
	IV pole		
Options	O2 monitoring : 18 ~ 100% ±5%		
	O2 servo control : 21% ~ 65%		
	Weighing scale : 0 ~ 10Kg ±50g		
	Shelf		
	MASIMO Spo2 & CCD camera & external monitor		



MASIMO SpO2 & CCD Camera & External Monitor (Option)



Built-in x-ray tray

Infant Warmer

BT-550









Swivel Head (Left90° & Right90°)



.

(15°±2° to backward or forward)



Tilting (option)



Both sides Drawers (option)

Three sides open protective barriers

Specifications	BT550	
Display	7 inch TFT color LCD	
Dimension / Weight	1,184(L) x 1,890(H) x 846(D)mm / 98Kg	
Control Mode	Pre warm / Baby / Manual	
Skin Temperature Display / Control Range	26 ~ 42°C±0.5°C / 34 ~ 38°C±0.5°C	
Heater Output Setting Range / Power	0 ~ 100% (5%p resolution) / 26mW/cm2 (±20%)	
LED Examination Lamp	40W(10W x 4, <3,000lm) 3 steps control	
Alarm	Visual and Sound Alarms	
APGAR Timer	0min ~ 59min 59sec (1, 5, 10min Beep)	
Mattress Size	495(L) x 27(H) x 810(D) mm	
	Tilt : ±15°	
	Drawer	
	Plate	
Options	IV pole	
	Lifting Stand : 615 ~ 815mm	
	Weighting scale : 0 ~ 10Kg ±50g	
	MASIMO Spo2	



LED Examination Lamp



Heat Source



7 inch TFT LCD Display

Tripod water level

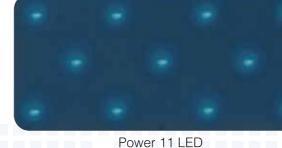




Lifting Stand (option)

Phototherapy

Lamp: Blue LED High Intensity of Radiation Compact design Flexible neck Wide effective area Time counter & Setting Easy to Use Various installation



BT-200 (Hi-dop) Vascular Doppler



Specifications	Specifications
Ultrasound Frequency	2, 4, 5, 8MHz
HR Range	50 ~ 240 bpm
Display	Mono LCD
Battery Time (hours)	5 hours
Power	1.5V AA battery x 2
Options	-

BT-410 LED Head Lamp



Specifications		BT410A	BT410F	
Mode		Adjustable focus	Fixed focus	
Illumination	n	30,000lx / 50,000lx (Astral)	15,000 ~ 30,000lx (Adjustable)	
LED Life Tin	ne	50,000 hours		
Color Temperature		6,000 Kelvin		
	Operating Time	4 hours		
Battery Module	Recharge	800 times		
	Output	3.7 V		
Input		AC 100 ~ 240 V (50/60Hz)		
Charger	Charging Time	4 hours		
Options		X 3.5 Loupe, Battery module, Astral lamp (BT-410A)		

Light Source	11 Blue LEDs
Wave length	Peak between 450 – 475 nm
Intensity	20 ~ 100 uW/cm²/nm
Effective Area	40 x 20 cm
Life Time	About 20,000 hours
Variation in Intensity Over 6 Hours	< 10%
Power	AC 100 ~ 240V (50/60Hz)
Display	2.4" TFT color LCD Operating hours, Total operating hours, Timer, Intensit Intensity
Option	Cart, Eye shield, Shade

Vascular Doppler & LED Head Lamp



- · hand held style
- · clear Sound
- · compact and light
- · High-Sensitive Doppler Probe
- · 4 Ranges of probes
- · Easy to use
- · Low power consumption
- · Long time continuous use (6 hours)

· Light & comfortable
· Low battery display
· Quick battery recharge
· Ultra bright LED
· Easy to adjust Head band
· More than 50,000 hours LED life
· Removable battery module

Patient Monitor



BT-700 Vital Sign Monitor



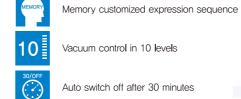
· 3.2" LCD display

- · SpO2, Temp.
- Trend : 4 hours
- Compact and light
- · Easy F/W upgrade (USB)
- Apply nurse call state Temperature - (optional)





10.4" Color LCD display · ECG(2ch), SpO2, NIBP, Temp.(2ch), IBP, RESP. · PVC and ST level display Pacemaker detection Detection of 12 kinds of arrhythmia Trend : 72 hours Central monitoring system (LAN)



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Vacuum control in 10 levels

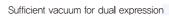
Hi bebe ^{plus}

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Electric Breast Pump : BT-100

Auto switch off after 30 minutes



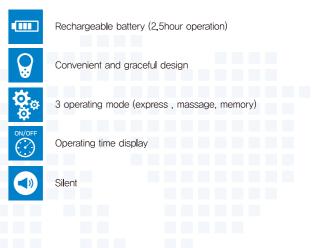
Backflow prevention

Specifications		BT700	BT750	
	Display	3.2" color LCD	Ultrasound 10.4" color LCD	
E	Battery Operating Time	3 hours	3 hours	
SpO2	Measuring Range	1% ~ 100%		
3p02	Pulse Rate	30 ~ 250 bpm	20 ~ 300 bpm	
	Mode	Auto, Ma	nual, STAT	
NiBp	Auto Mode(min)	1,2,3,4,5,10,15,30,45,60,90,120,240	1,3,5,10,30,60,90,120,240	
ЧШР	Neonate/Adult Systolic	20/30 ~ 120/250 mmHg	30/50 ~ 130/255 mmHg	
	Neonate/Adult Diastolic	10/20 ~ 110/210 mmHg	20/30 ~ 100/220 mmHg	
ECG	Lead		3/5 Leads	
LUG	Sweep Speed		12.5, 25, 50 mm/s	
Deere	Resp	-	0 ~ 150 breaths/min	
Resp	Sweep Speed	-	6.25, 12.5, 25 mm/s	
Temp	Range	20 ~ 45 °C	30 ~ 45 ℃	
Options		NiBp, Temp	Printer, IBP, EtCO2	



Electric Breast Pump





BT100 Hello Mom
Personal Use (Dual Express)
Yes
110(H) × 70(W) × 45(D) mm / 370g
< 1sec
Timer & Memory
30minutes
Yes
Yes
270mmHg
10 steps
10 steps

MKT-ALL-1509

BIO SIGNAL TOTAL SOLUTION

Bistos Co., Ltd.

* All specifications are subject to change without notice.

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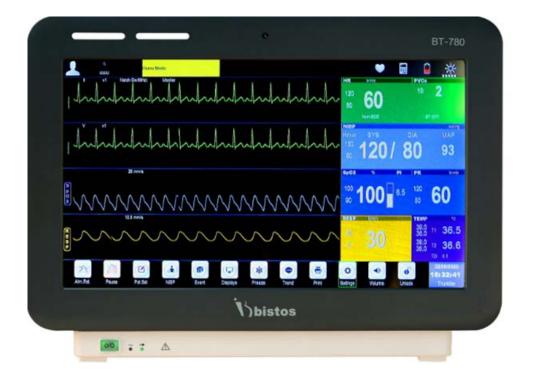
E-mail : sales@bistos.co.kr

www.bistos.co.kr





BT-780 PATIENT MONITOR



15.6" Multi-Parameter Patient Monitor ECG, Resp., SpO₂, NIBP, Temperature Optional CO₂, IBP, Multi-gas, C.O., Masimo SpO₂ Touch screen

Central station / Ultra slim design / Over 5 hours battery use



Dual Screen Central monitoring station

WWW.BISTOS.CO.KR

.. Technical Specification

	Model		BT-780
Category		Patient Monitor	
	Display		15.6" Color Touch LCD
	Lead	Туре	3/5 lead
Gain Selection Sweep Speed (mm/s)		lection	x0.125, x0.25, x0.5, x1, x2, x4, auto
		12.5, 25, 50	
	Bandwidth : Dia	agnostic Mode	0.05-100 Hz
ECG	Monitorir		0.5-40 Hz
	Surgery		1-25 Hz
	Strong		5-20 Hz
			Adult : 15-300
	Heart Rate Range (bpm)		Pediat / Neonate : 15-350
	Met	hod	Trans-thoracic Impedance
Respiration	Measurem	ent Range	0-120 rpm
	Sweep Spe		6.25, 12.5, 25
	Measurem		0-100 %
	Accuracy (70-100%)	Adult / Pediatric	±2 %
		Neonate	±2 %
SpO ₂	Accuracy		Unspecfied
	Perfusio		0.05-20 %
	Pulse Rate Range (bpm)		25-250
	Met	,	Automatic Oscillometric
	Operatio		Manual / Auto / STAT
	Paran		Systolic, Diastolic, Mean
	T di di	Adult	30-280
	Systolic Range	Pediatric	30-230
	(mmHg)	Neonate	30-145
NIBP**		Adult	10-220
	Diastolic Range	Pediatric	10-165
	(mmHg)	Neonate	10-105
		Adult	10-240
	Mean Range	Pediatric	10-240
	(mmHg)	Neonate	10-175
	Dor		
Temperature	Rar		0-50 °C (41 to 122 °F)
	Paran		T1, T2, and TD
IBP*	Char		2 Channel / 4 Channel
	Range (-50 to 400
Duintout	Typ Drint Cross		Themal dot array
Printer*	Print Speed (mm/s) Paper size (mm)		12.5, 25, 50 50
	Met		
CO ₂ *			Masimo ISA / Bistos
	Rar	iye	Masimo IRMA / Bistos
	Multi-gas/0 ₂ *		Masimo ISA
	SpO ₂ -Masimo*	had	Masimo SpO ₂
CO ₂ *	Met		Thermodilution
	Rar		0.2-20 L/min
	Type (ca		Li-ion (4400 mAh)
Battery	Run ⁻		5 hour
	Chargin	g nme	4 hour
	PC Software Interface		RJ45, USB, Nursing call
	Warranty		2 year



Bistos Co., Ltd. 7th Fl., A Bldg., Woolim Lions Valley 5-cha, 302, Galmachi-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea (zip. 462-739) Tel : 82 31 750 0340 Fax : 82 31 750 0344

Specifications : BT-770 12.1" Multi-parameter Patient Monitor

Functional Characteristics	
Display	
Туре	Color TFT touch screen LCD
Size and resolution	12.1", 800 x 600 pixels
LED	
Alarm indicator	Yellow & red
Adaptor power indicator	1 green
Battery status indicator	1 green
Audio	
	Alarm sound (45 ~ 85dB), key pressing sound
Speaker	QRS sound, PR sound
	Alarm sound meets the IEC60601-1-8
Data Storage	
Trend	168hours, resolution : 1min
Alarm event	200 physiological and 100 technical alarm events
NiBp measurement result	1,000 groups
Function	1,000 groups
Multi-language	English, France, Spanish, Turkey
Trend	Graphic/tabular
Alarm	
Mode	Visual, audible, information, parameter flashing
Alarm delay	Off, 1s, 2s, 3s, 4s, 5s, 6s, 7s, 8s
Pause duration	1, 2, 3, 4, 5, 10, 15min or permanent
System	Low battery
Interface	
Auxiliary	Nurse call
RJ45 (LAN)	CMS
USB	
ECG	S/W upgrade
Standard compliance	IEC60601-2-27
Lead type	3Lead : I, II, III
Disalay, sensitivity (asia)	5Lead : I, II, III, aVR, aVL, aVF, V
Display sensitivity (gain)	Auto, 1.25, 2.5, 5, 10, 20mm/mV
Wave sweep speed	12.5, 25, 50mm/s
	Diagnostic mode : 0.05 ~ 130Hz
Band width	Monitoring mode : 0.5 ~ 40Hz
	Surgery mode : 1 ~ 25Hz
	Strong filter mode : 5 ~ 20Hz
CMRR	> 100dB
Notch	50/60Hz (can be set on or off)
Differential input	> 5MQ
Electrode polarization voltage range	±400mV
Baseline recovery time	< 5s after defibrillation (monitor and surgery mode)
Calibration signal	1mV (peak-peak), accuracy ±3%
Lead-off detection current	Measuring electrode : < 0.1µA
	Drive electrode : < 1µA
HR measuring range	Adult : 15 ~ 300bpm
	Pediatric/Neonate : 15 ~ 350bpm
HR measuring resolution	1bpm
HR measurement accuracy	±1bpm or ±1%, whichever is greater
	Ventricular bigeminy : 80±1bpm
HR accuracy & response to irregular rhythm	Slow alternating ventricular bigeminy : 60±1bpm
	Rapid alternating ventricular bigeminy : 120±1bpm
	Bidirectional systoles : 90±2bpm
LID time to play for tack your li-	0.5/1/2mV, 206bpm ventricular tarchycardia : < 10s
HR time to alarm for tachycardia	1/2/4mV, 195bpm ventricular tarchycardia : < 5s

	Adult : 16 ~ 300, 1bpm step
HR alarm upper limit (bpm)	Pediatric/Neonate : 16 ~ 350, 1bpm step
	Adult : 15 ~ 299, 1bpm step
HR alarm lower limit (bpm)	Pediatric/Neonate : 15 ~ 349, 1bpm step
	Detection range : ±2mV ~ ±700mV
Pacing pulse identification	Pulse width : 0.2ms ~ 2.0ms
Pacing pulse average HR	15s data
Pacing pulse interval of HR Refreshing	Every second
Pacing pulse HR change response time	≤ 10sec
Pacing pulse tall T-wave suppression	2mV
	Communication, configuration, selfcheck error
	Lead off
	HR high/low, PVCS high
Alarm	Asystole, VF/VTA, R on T, Tachycardia/bradicardia, PVC
	frequent/couplet/singlr/bigeminy/trigeminy, Miss Beat
	Pacemaker not capture/work
	Signal weak, ST-I, II, II high/low
Respiration	
Measurement method	Thoracic electrical bio impedance method
Measuring lead	Lead RA-LA, RA-LL
Wave gain	X0.5, x1, x2
Respiratory impedance range	0.2 ~ 3 Ω
Base line impedance	500 ~ 2,000Ω
Gain	10 grades
Wave sweep speed	6.25mm/s, 12.5mm/s, 25mm/s
Measurement accuracy	±2rpm
Measurement range	0 ~ 120rpm
	RR high/low
Alarm	Apnea
	Respiration artifact
Temperature	
Standard compliance	ISO80601-2-56
Measurement method	Thermistor
Measuring range	0°C ~ 50.0°C (32°F ~ 122.0°F)
Resolution	0.1°C
Measurement accuracy	±0.3℃
Number of channel	2
T1/T2 alarm upper limit	0.1°C ~ 50.0°C, 0.1°C/°F step
T1/T2 alarm lower limit	0°C ~ 49.9°C, 0.1°C/°F step
Temperature difference alarm upper limit	0°C ~ 50.0°C, 0.1°C/°F step
Alarm	T1, T2 Sensor off
	T1/T2 high/low, TD high
NiBp	
Standard compliance	IEC80601-2-30
Measurement method	Automatic oscillometric method
Operating mode	Manual, automatic, continuous(STAT)
Useful life	100,000times
Measurement interval in automatic mode	1/2/3/4/5/10/15/30/60/90/120/180/240/480min
Typical measurement time	20~40s
	Systolic : Adult(40~270), Pediatric(40~200), Neonate(40~130)
Normal mode measuring range (mmHg)	Mean : Adult(20~230), Pediatric(20~175), Neonate(20~100)
	Diastolic : Adult(10~210), Pediatric(10~162), Neonate(10~90)
Measurement accuracy	Maximum average error: ±5mmHg
Measurement accuracy	Maximum standard deviation: 8mmHg
Resolution	
Resolution	1mmHg
Resolution	Adult : 150(default), 80~240(pressure setting range)
Initial inflation pressure (mmHg)	

	Adult: 300mmHg
Overpressure protection point (software)	Pediatric: 240mmHg
	Neonate: 150mmHg
	Adult: 320~330mmHg
Overpressure protection point (hardware)	Pediatric: 265~275mmHg
overpressure protection point (nardware)	Neonate: 160~165mmHg
Ctatic Draceura accuracy	3
Static Pressure accuracy	±3mmHg
Supply voltage	10V~14VDC
Maximum power consumption	3.6W
Quiescent current	50mA
Maximum current during measurement	180mA
Maximum current during inflation	300mA
	Communication, selfcheck, CFG error
	System error, measurement timeout
	Cuff loose, no, leak, type error
Alarm	Air pressure error
Alam	Over range, signal weak/unstable/saturated
	Over pressure
	Module reset failed
	Systolic, mean, diastolic high/low
SpO2	
Standard compliance	ISO80601-2-61
Display range	0% ~ 100%
SpO2 display resolution	1%
	Adult/Pediatric : 70 ~ 100% ±2%
SpO2 accuracy	Neonate : 70 ~ 100% ±3%
	0 ~ 69% : Unspecified
Wave sweep speed	12.5mm/s, 25mm/s
Wave mode	Scan, fill
Pulse volume	0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level
	Upper Alarm Limit : 86% ~ 100%
SpO2 alarm preset limits	Lower Alarm Limit : 85% ~ 99%
SpO2 alarm preset accuracy	±1%
SpO2 alerting signal generates delay	No Delay
SpO2 value refresh period	1s/time
SpO2 value refresh delay	< 10s
Spor value reliesh delay	Low Sensitivity : 7 ~ 8s
Average period	Intermediate Sensitivity : 4 ~ 6s
Average period	Advanced Sensitivity : 2 ~ 3s
	Low Sensitivity : < 8s
Alarm condition delay pariod	
Alarm condition delay period	Intermediate Sensitivity : < 6s
Alarm cian accorates delay assist	Advanced Sensitivity : < 3s
Alarm sign generates delay period	0s
Perfusion index	0.05 ~ 20%
PR Measurement Range	25 ~ 254bpm
PR Resolution	±1bpm
PR Measurement accuracy	±2% or ±2bpm, whichever is greater
	Communication stop/error
	No sensor/ sensor off
Alarm	Search timeout
	Search pulse(weak)
	SpO2, RR high/low
IBP (Option)	
Standards compliant	IEC60601-2-34
Pressure measurement range	-50 ~ 400 mmHg
Pressure measurement accuracy	±3 mmHg or±2%, whichever is greater
	1 mmHg
Pressure resolution	1 mmg

PR measurement accuracy	±3bpm
PR resolution	1bpm
Transducer sensitivity	5µV/V/mmHg
Transducer resistance range	300-5,000Ω
Supply voltage	+12VDC
Maximum power consumption	≤5W
Scan speed	12.5mm/s, 25mm/s
	IBP1, 2 communication stop/error
	IBP1, 2 sensor off
	Art-sys, PA-sys, P1-sys, P2-sys high
Alarm	Art-dia, PA-dia, P1-dia, P2-dia high
	Art-mean, PA-mean, CVP-mean, LAP-mean, RAP-mean, ICP-
	mean, P1-mean, P2-mean high
EtCO2 Mainstream & Sidestream (Opt	
Measurement parameters	EtCO2、FiCO2、AwRR
Measuring range	EtCO2 : 0~150mmHg, AwRR : 0~150rpm
Resolution	EtCO2/FiCO2 : 1mmHg, AwRR : 1rpm
Apnea delay	20s, 25s, 30s, 35s, 40s, 45s, 50s, 55s, 60s
Operating mode	Standby, measure
O2 compensation	Low, mid, high
N2O compensation	On, off
	EtCO2 lower limit : 0~149mmHg
	EtCO2/FiCO2 upper limit : 1~150mmHg
Alarm limit	AWRR lower limit : 0~119rpm
	AWRR upper limit : 1~120rpm
	Communication stop/error
	CO2 sensor off/error
	O2 sensor error/replace
	adaptor/sampling line no/check
	Parameter accuracy error
	O2, Air calibration error
	S/W, H/W error
	Motor accuracy error
Alarm	CO2 factory calibration error
	Adaptor, sampling line replace
	O2 port error
	CO2, O2, N2O out of accuracy
	CO2 temp., pressure out of accuracy
	CO2 zero required
	CO2 zeroing/sleeping
	CO2 module calibrating/calibration error
	EtCO2, FiCO2, AWRR high/low
	Apnea
C.O. (Cardiac Output : Option)	
	C.O. : 0.2 ~ 20 L/min
Measurement range	BT : 23 ~ 45℃±0.5 ℃
	IT : 0 ~ 20℃±0.5 ℃
Resolution factor	C.O. : 0.1L/min
	BT, IT : 0.1℃
Accuracy	C.O. : $\pm 5\%$ or ± 0.1 L/min, subject to the bigger one
,	BT, IT : ±0.1℃ (sensor exclusive)
	BT high limit : (Low limit +0.1) ~ 43℃
Scope of alarm limit	BT low limit : 23.0 ~ (high limit -0.1) $^{\circ}$
	Step size : 0.1℃
	BT sensor off
Alarm	BT high/low
	C.O. high

Printer (Option)	
Туре	Thermal dot array
Print speed	12.5, 25, 50mm/s
Paper size	58mm(W) x 42m
Power	
Adaptar	Input : AC 100 ~ 240V (50/60Hz)
Adaptor	Output : DC 15V/2.4A
Consumption	13.5W
	11.1V Li-ion 4,400mA
Rechargeable battery	Operating Time : 5hrs
	Charging Time : 4hrs
Standard Configurations	
ECG cables and lead wire	1ea(5lead)
ECG electrode for adult	1pack(25pcs)
SpO2 adult reusable sensor	1ea
SpO2 extension cable	1ea
NiBp adult cuff	1ea
NiBp extension tube	1ea
Temperature sensor	1ea
Power adaptor	1ea
Bracket	1ea
Operation manual	1ea
Options (Function)	
IBP	Sensor cable & package
EtCO2 Mainstream (Bistos)	Airway adaptor & module
EtCO2 Sidestream (Bistos)	Sampling tube
EtCO2 IRMA Mainstream (Masimo)	Airway adaptor & module
EtCO2 ISA Sidestream (Masimo)	Sampling tube
C.O.	Sensor cable
Printer	Printer & paper
Cart	
Options (Accessory)	
ECG cables and lead wire	5/3 lead
ECG electrode	adult/neonate
SpO2 reusable sensor	adult/pediatric/neonate
SpO2 disposable sensor	adult/pediatric/neonate
Skin & rectal temperature sensor	adult/pediatric/neonate
NiBp cuff	adult(27~35cm)/pediatric(14~21.5cm)/neonate(4*9cm)
Physical Characteristics Dimension	
Main unit	$220(1) \times 65(D) \times 250(H)$
Packing	320(W) x 65(D) x 250(H)mm 400(W) x 350(D) x 290(H)mm
Weight	
Main unit	< 2.8Kg
Packing	4.6Kg
Environmental Conditions	
Operating temperature	10 ~ 40°C (50 ~ 104°F)
Operating humidity	5 ~ 85% non-condensing
Storage temperature	$-20 \sim 60^{\circ}\text{C} (-4 \sim 140^{\circ}\text{F})$
Storage humidity	0 ~ 95% non-condensing
Warranty	
Main unit	2 years
Optional sensor & accessory	1 year
Certificates	
KFDA, CE	

Specifications : BT-780 15.6" Multi-parameter Patient Monitor

Functional Characteristics	
Display	
Туре	Color TFT touch screen LCD
Size and resolution	15.6", 1366 x 768 pixels
LED	
Alarm indicator	Yellow & red
Adaptor power indicator	1 green
Battery status indicator	1 green
Audio	
	Alarm sound (45 ~ 85dB), key pressing sound
Speaker	QRS sound, PR sound
	Alarm sound meets the IEC60601-1-8
Data Storage	
Trend	168hours, resolution : 1min
Alarm event	200 physiological and 100 technical alarm events
NiBp measurement result	1,000 groups
Function	
Multi-language	English, Turkish, Spanish, French, Polish, German,
	Italian, Hungarian
Trend	Graphic/tabular
Alarm	
Mode	Visual, audible, information, parameter flashing
Alarm delay	Off, 1s, 2s, 3s, 4s, 5s, 6s, 7s, 8s
Pause duration	1, 2, 3, 4, 5, 10, 15min or permanent
System	Low battery
Interface	
Auxiliary	Nurse call
RJ45 (LAN)	CMS
USB	S/W upgrade
ECG	
Standard compliance	IEC60601-2-27
Lead type	3Lead : I, II, III
	5Lead : I, II, III, aVR, aVL, aVF, V
Display sensitivity (gain)	Auto, 1.25, 2.5, 5, 10, 20mm/mV
Wave sweep speed	12.5, 25, 50mm/s
	Diagnostic mode : 0.05 ~ 130Hz
Band width	Monitoring mode : 0.5 ~ 40Hz
	Surgery mode : 1 ~ 25Hz
	Strong filter mode : 5 ~ 20Hz
CMRR	> 100dB
Notch	50/60Hz (can be set on or off)
Differential input	> 5MΩ
Electrode polarization voltage range	±400mV
Baseline recovery time	< 5s after defibrillation (monitor and surgery mode)
Calibration signal	1mV (peak-peak), accuracy ±3%
Lead-off detection current	Measuring electrode : < 0.1µA
	Drive electrode : < 1µA
HR measuring range	Adult : 15 ~ 300bpm
	Pediatric/Neonate : 15 ~ 350bpm
HR measuring resolution	1bpm
HR measurement accuracy	±1bpm or ±1%, whichever is greater
	Ventricular bigeminy : 80±1bpm
HR accuracy & response to irregular rhythm	Slow alternating ventricular bigeminy : 60±1bpm
	Rapid alternating ventricular bigeminy : 120±1bpm
	Bidirectional systoles : 90±2bpm

HR time to alarm for tachycardia	0.5/1/2mV, 206bpm ventricular tarchycardia : < 10s
	1/2/4mV, 195bpm ventricular tarchycardia : < 5s Adult : 16 ~ 300, 1bpm step
HR alarm upper limit (bpm)	Pediatric/Neonate : 16 ~ 350, 1bpm step
	Adult : 15 ~ 299, 1bpm step
HR alarm lower limit (bpm)	Pediatric/Neonate : 15 ~ 349, 1bpm step
	Detection range : $\pm 2mV \sim \pm 700mV$
Pacing pulse identification	Pulse width : 0.2 ms ~ 2.0 ms
Desing pulse average LID	15s data
Pacing pulse average HR	
Pacing pulse interval of HR Refreshing	Every second
Pacing pulse HR change response time	≤ 10sec
Pacing pulse tall T-wave suppression	2mV
	Communication, configuration, selfcheck error Lead off
	HR high/low, PVCS high
Alarm	Asystole, VF/VTA, R on T, Tachycardia/bradicardia, PVC
	frequent/couplet/singlr/bigeminy/trigeminy, Miss Beat
	Pacemaker not capture/work
	Signal weak, ST-I, II, II high/low
Respiration	
Measurement method	Trans-Thoracic impedance
Operation modes	Auto
Measuring lead	Lead RA-LA, RA-LL, LA-RL, LL-RL
Wave gain	X0.5, x1, x2
Respiratory impedance range	0.2 ~ 3 Ω
Base line impedance	500 ~ 2,000Ω
Sensitivity	1,2,3,4,5
Wave sweep speed	6.25mm/s, 12.5mm/s, 25mm/s
Measurement accuracy	±2rpm
Measurement range	0 ~ 120rpm
	RR high/low
Alarm	Apnea
	Respiration artifact
Temperature	
Standard compliance	ISO80601-2-56
Measurement method	Thermistor
Measuring range	0°C ~ 50.0°C (32°F ~ 122.0°F)
Resolution	0.1°C
Measurement accuracy	±0.1°C or ±0.2°F (without probe)
Number of channel	2
T1/T2 alarm upper limit	0.1°C ~ 50.0°C, 0.1°C/°F step
T1/T2 alarm lower limit	0°C ~ 49.9°C, 0.1°C/°F step
•	0°C ~ 50.0°C, 0.1°C/°F step
Temperature difference alarm upper limit	•
Alarm	T1, T2 Sensor off
NiPp	T1/T2 high/low, TD high
NiBp Standard compliance	IEC80601-2-30
Standard compliance Measurement method	Automatic oscillometric method
Operating mode Useful life	Manual, automatic, continuous(STAT)
Measurement interval in automatic mode	100,000 times
	1/2/3/4/5/10/15/30/60/90/120/180/240/480min
Typical measurement time	20~40s
Newsel as also as the second state of the seco	Systolic : Adult(30~280), Pediatric(30~230), Neonate(30~145)
Normal mode measuring range (mmHg)	Mean : Adult(10~240), Pediatric(10~175), Neonate(10~115)
	Diastolic : Adult(10~220), Pediatric(10~165), Neonate(10~105)
Measurement accuracy	Maximum average error: ±5mmHg
-	Maximum standard deviation: 8mmHg
Resolution	1mmHg

	Adult : 160 (default)
Initial inflation process (mml.lg)	Pressure setting range:140mmHg, 160mmHg, 180mmHg
	Pediatric : 140 (default)
Initial inflation pressure (mmHg)	Pressure setting range:140mmHg, 160mmHg
	Neonate : 100 (default)
	Pressure setting range:100mmHg, 120mmHg
	Adult: 300mmHg
Overpressure protection point (software)	Pediatric: 240mmHg
	Neonate: 150mmHg
	Adult: 320~330mmHg
Overpressure protection point (hardware)	Pediatric: 265~275mmHg
	Neonate: 160~165mmHg
Static Pressure accuracy	±3mmHg
Supply voltage	10V~14VDC
Maximum power consumption	3.6W
Quiescent current	50mA
Maximum current during measurement	180mA
Maximum current during inflation	300mA
	Communication, selfcheck, CFG error
	System error, measurement timeout
	Cuff loose, no, leak, type error
Alarm	Air pressure error
	Over range, signal weak/unstable/saturated
	Over pressure
	Module reset failed
	Systolic, mean, diastolic high/low
SpO2	
Standard compliance	ISO80601-2-61
Display range	0% ~ 100%
SpO2 display resolution	1%
	Adult/Pediatric : 70 ~ 100% ±2%
SpO2 accuracy	Neonate : 70 ~ 100% ±3%
	0 ~ 69% : Unspecified
Wave sweep speed	12.5mm/s, 25mm/s
Wave mode Pulse volume	Scan, fill
Puise volume	0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit : 86% ~ 100%
SpO2 alarm preset limits	Lower Alarm Limit : $85\% \sim 99\%$
SpO2 alarm proset accuracy	±1%
SpO2 alarm preset accuracy SpO2 alerting signal generates delay	Off,1s,2s,3s,4s,5s,6s,7s,8s
SpO2 value refresh period	1s/time
SpO2 value refresh delay	< 10s
	Low Sensitivity : 7 ~ 8s
Average period	Intermediate Sensitivity : 4 ~ 6s
nucluge period	Advanced Sensitivity : 2 ~ 3s
Perfusion index	$0.05 \sim 20\%$
PR Measurement Range	25 ~ 250 bpm
PR Resolution	±1 bpm
PR Measurement accuracy	±2% or ±2bpm, whichever is greater
	Communication stop/error
	No sensor/ sensor off
Alarm	Search timeout
	Search pulse(weak)
	SpO2, RR high/low
IBP (Option)	
Standards compliant	IEC60601-2-34
Channel	2-ch, 4-ch
Pressure measurement range	-50 ~ 400 mmHg

Pressure measurement accuracy	±3 mmHg or±2%, whichever is greater
Pressure resolution	1 mmHg
PR measurement range	35 ~ 250 bpm
PR measurement accuracy	±3bpm
PR resolution	1bpm
Transducer sensitivity	5µV/V/mmHg
Transducer resistance range	300-3,000Ω
Supply voltage	+12VDC
Maximum power consumption	≤5W
Scan speed	12.5mm/s, 25mm/s
scall speed	IBP1, 2 communication stop/error
	IBP1, 2 communication stop/error
Alarm	Art-sys, PA-sys, P1-sys, P2-sys high
	Art-dia, PA-dia, P1-dia, P2-dia high
	Art-mean, PA-mean, CVP-mean, LAP-mean, RAP-mean, ICP-
	mean, P1-mean, P2-mean high
EtCO2 Mainstream & Sidestream (Option	
Measurement parameters	EtCO2、FiCO2、AwRR
Measuring range	0-15%
Accuracy	$\pm 0.2\% + 2\%$ of the reading
Resolution	EtCO2/FiCO2 : 1mmHg, AwRR : 1rpm
Rise time	200ms, typical at 50ml/min flow rate
Total response time	within 3 seconds(within 2m Nomoline sampling)
AWRR range	0-150bpm
AWRR Accuracy	±1 breath
Apnea delay	20s, 25s, 30s, 35s, 40s, 45s, 50s, 55s, 60s
Warm-up time	Full accuracy within 10 seconds
Sampling flow rate	50ml/min(+/-10ml/min)
Operating mode	Standby, measure
O2 compensation	Low, mid, high
N2O compensation	On, off
	EtCO2 lower limit : 0~149mmHg
	EtCO2/FiCO2 upper limit : 1~150mmHg
Alarm limit	AWRR lower limit : 0~119rpm
	AWRR upper limit : 1~120rpm
	Communication stop/error
	CO2 sensor off/error
	O2 sensor error/replace
	adaptor/sampling line no/check
	Parameter accuracy error
	O2, Air calibration error
	S/W, H/W error
	Motor accuracy error
Alarm	CO2 factory calibration error
	Adaptor, sampling line replace
	O2 port error
	CO2, O2, N2O out of accuracy
	CO2 temp., pressure out of accuracy
	CO2 zero required
	CO2 zeroing/sleeping
	CO2 module calibrating/calibration error
	EtCO2, FiCO2, AWRR high/low
	Apnea
C.O. (Cardiac Output : Option)	
C.O. (Cardiac Output : Option) Method	Thermodilution
Method	Thermodilution C.O. : 0.2 ~ 20 L/min
· · · · · · · · · · · · · · · · · · ·	Thermodilution

	C.O. : 0.1L/min
Resolution factor	BT, IT : 0.1℃
	C.O. : ±10%
Accuracy	TB, TI : ±0.5℃
	BT high limit : (Low limit +0.1) ~ 43°
Scope of alarm limit	BT low limit : 23.0 ~ (high limit -0.1) $^{\circ}$
	Step size : 0.1℃
	BT sensor off
Alarm	BT high/low
	C.O. high
Printer (Option)	c.c. nigh
Туре	Thermal dot array
Print speed	12.5, 25, 50mm/s
Paper size	50mm(W) x 2m
Power	
Adapter	Input : AC 100 ~ 240V (50/60Hz)
Adaptor	Input Current: 1.6-0.6A
Consumption	13.5W
	11.1V Li-ion 4,400mA
Rechargeable battery	Operating Time : 5hrs
	Charging Time : 4hrs
Standard Configurations	
ECG cables and lead wire	1ea (5lead)
ECG electrode for adult	1pack (25pcs)
SpO2 adult reusable sensor	1ea
SpO2 extension cable	1ea
NiBp adult cuff	1ea
NiBp extension tube	1ea
Temperature sensor	1ea
Power adaptor	1ea
Bracket	1ea
Operation manual	1ea
Options (Function)	
IBP	Sensor cable & package
EtCO2 Mainstream (Bistos)	Airway adaptor & module
EtCO2 Sidestream (Bistos)	Sampling tube
EtCO2 IRMA Mainstream (Masimo)	Airway adaptor & module
EtCO2 ISA Sidestream (Masimo)	Sampling tube
C.O.	Sensor cable
Printer	Printer & paper
Cart	
Options (Accessory)	
ECG cables and lead wire	5/3 lead
ECG electrode	adult/neonate
SpO2 reusable sensor	adult/pediatric/neonate
SpO2 disposable sensor	adult/pediatric/neonate
Skin & rectal temperature sensor	adult/pediatric/neonate
NiBp cuff	adult(27~35cm)/pediatric(14~21.5cm)/neonate(4*9cm)
Physical Characteristics	
Dimension	
Main unit	410(W) X 298(H) X 120(D)
Packing	495(W) x 295(D) x 385(H)mm
Weight	
Main unit	< 4.9Kg
Packing	7kg
Environmental Conditions	
Operating temperature	5 ~ 40°C (41 ~ 104°F)
Operating humidity	30 ~ 85% non-condensing

Storage temperature	-20 ~ 60°C (-4 ~ 140°F)
Storage humidity	0 ~ 95% non-condensing
Warranty	
Main unit	2 years
Optional sensor & accessory	1 year
Certificates	
KFDA, CE	

A4 / 07.1







Certificate No. Q5 065725 0022 Rev. 02

Holder of Certificate:

Beijing Aeonmed Co., Ltd.

Room 405 Basement 1 to 4th Floor of 901 Unit Building 9, No.26 Outer Ring West Road Fengtai District 100070 Beijing PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Scope of Certificate:

Design and Development, Production, Distribution, Installation and Servicing of Anaesthetic Workstation, Vaporizer, Ventilator, Medical Air **Compressor, Infusion Pump, Ceiling Pendent, Operating Table, Surgical Light, Multi-Parameter** Patient Monitor, Syringe Pump, Patient Warming System, Videoscope System.

The Certification Body of TÜV SÜD Product Service GmbH certifies that the company mentioned above has established and is maintaining a quality management system, which meets the requirements of the listed standard(s). See also notes overleaf.

Report No.:

BJ1985904

Valid from: Valid until:

2020-03-23 2022-12-31

Date. 2020-03-23

Christoph Dicks Head of Certification/Notified Body

A4 / 07.17





Certificate No. Q5 065725 0022 Rev. 02

Applied Standard(s):	EN ISO 13485:2016 Medical devices - Quality management systems - Requirements for regulatory purposes (ISO 13485:2016) DIN EN ISO 13485:2016

Facility(ies):

Beijing Aeonmed Co., Ltd. Room 405, Basement 1 to 4th Floor of 901 Unit, Building 9, No.26 Outer Ring West Road, Fengtai District, 100070 Beijing, PEOPLE'S REPUBLIC OF CHINA

Beijing Aeonmed Co.,Ltd. No. 10 Chaobai Street, Yingbin Road West, Yanjiao Development Zone, 065201 Langfang City, Hebei Province, PEOPLE'S REPUBLIC OF CHINA









EC Certificate

Full Quality Assurance System Directive 93/42/EEC on Medical Devices (MDD), Annex II excluding (4) (Devices in Class IIa, IIb or III)

No. G1 065725 0019 Rev. 04

Manufacturer:

Beijing Aeonmed Co., Ltd.

Room 405 Basement 1 to 4th Floor of 901 Unit Building 9, No.26 Outer Ring West Road Fengtai District 100070 Beijing PEOPLE'S REPUBLIC OF CHINA

Product Category(ies): Anaesthetic Workstation, Vaporizer, Ventilator, Medical Air Compressor, Infusion Pump, Ceiling Pendant, Multi-Parameter Patient Monitor, Videoscope System, Patient Warming System.

The Certification Body of TÜV SÜD Product Service GmbH declares that the aforementioned manufacturer has implemented a quality assurance system for design, manufacture and final inspection of the respective devices / device categories in accordance with MDD Annex II. This quality assurance system conforms to the requirements of this Directive and is subject to periodical surveillance. For marketing of class III devices an additional Annex II (4) certificate is mandatory. All applicable requirements of the testing and certification regulation of TÜV SÜD Group have to be complied with. For details and certificate validity see: www.tuvsud.com/ps-cert?q=cert:G1 065725 0019 Rev. 04

Report No.:

BJ19859071

Valid from: Valid until: 2021-05-21 2024-05-26

Date, 2021-05-21

Christoph Dicks Head of Certification/Notified Body



EC CERTIFICATE Full Quality Assurance System

Certificate No.: 243269-2017-CE-KOR-NA-PS Rev. 5.0 Project No.: PRJC-533956-2015-MSL-KOR

DR Valid Until: 01 September 2023

This is to certify that the quality system of:

Bistos Co., Ltd.

7th Fl., A Bldg., Woolim Lions Valley 5-cha, 302, Galmachi-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea

For design, production and final product inspection/testing of:

Monitoring devices of vital physiological parameters and Utilising non-ionizing radiation

Has been assessed with respect to:

The conformity assessment procedure described in Annex II excluding section 4 of Council Directive 93/42/EEC on Medical Devices, as amended

and found to comply

Place and date: Høvik, 30th April 2021

Check Validity



For the issuing office: Notified Body 2460 DNV Product Assurance AS

Hazem Tinawi Technical Reviewer

Notice: The Certificate is subject to terms and conditions as set out in the Certification Agreement. Failure to comply may render this Certificate invalid. NOTIFIED BODY 2460: DNV Product Assurance AS, Veritasveien 3, 1363 Høvik, Norway, Tel +47 67 57 88 00, <u>www.dnv.com</u>



Certificate No.: 243269-2017-CE-KOR-NA-PS Rev. 5.0 Place and date: Høvik, 30th April 2021

Further details of the product(s) and conditions for certification are given overleaf.

Jurisdiction

Application of Council Directive 93/42/EEC of 14 June 1993, adopted as "Forskrift om Medisinsk Utstyr" by the Norwegian Ministry of Health and Care Services.

Certificate history:

Revision	Description	Issue Date
0.0	Replaces certificate EU1308401, Rev2.0 (NB 0470) following transfer of Notified Body functions to DNV GL Nemko Presafe AS (NB 2460)	01 September 2017
1.0	EU Rep change	13 April 2018
2.0	Re-certification for Fetal monitor and Neonatal Phototherapy unit (BT-300, BT-350, FM-20, Biocare FM-1, BT-400) Scope extension for pulse oximeter and patient monitor (BT-710, BT-720, BT-740, BT-770) The accessories (Feotal Doppler system probe and Cardiotocograph transducers) are removed (AY-DOP-300, AY-DOP-350, AY-UC-300, AY-UC-350)	01 September 2018
3.0	Editorial change	13 February 2020
4.0	Scope extension to new model (BT-780)	26 April 2021
5.0	Editorial change in model name (typo error)	30th April 2021

Products covered by this Certificate:

Product Description	Product Name	Class
Fetal monitor	 BT-300 BT-350 FM-20 Biocare FM-1 	lla
Neonatal Phototherapy unit	• BT-400	lla
Pulse Oximeter	• BT-710	llb
Patient Monitor	 BT-720 BT-740 BT-770 BT-780 	llb

Notice: The Certificate is subject to terms and conditions as set out in the Certification Agreement. Failure to comply may render this Certificate invalid.



Certificate No.: 243269-2017-CE-KOR-NA-PS Rev. 5.0 Place and date: Høvik, 30th April 2021

The complete list of devices is filed with the Notified Body

Sites covered by this certificate

ite Name Address	
	7th Fl., A Bldg., Woolim Lions Valley 5-cha, 302, Galmachi-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea

EU Representative

OBELIS S.A, Bd. General Wahis, 53, 1030 Brussels, Belgium





Certificate No.: 243269-2017-CE-KOR-NA-PS Rev. 5.0 Place and date: Høvik, 30th April 2021

Terms and conditions

The certificate is subject to the following terms and conditions:

- Any producer (see 2001/95/EC for a precise definition) is liable for damage caused by a defect in his product(s), in accordance with directive 85/374/EEC, as amended, concerning liability of defective products.
- The certificate is only valid for the products and/or manufacturing premises listed above.
- The Manufacturer shall fulfil the obligations arising out of the quality system as approved and uphold it so that it remains adequate and efficient.
- The Manufacturer shall inform the Notified Body of any intended updating of the quality system and the Notified Body will assess the changes and decide if the certificate remains valid.
- Periodical audits will be held, in order to verify that the Manufacturer maintains and applies the quality system. the Notified Body reserves the right, on a spot basis or based on suspicion, to pay unannounced visits.

The following may render this Certificate invalid:

- Changes in the quality system affecting production.
- Periodical audits not held within the allowed time window.

Conformity declaration and marking of product

When meeting with the terms and conditions above, the producer may draw up an EC declaration of conformity and legally affix the CE mark followed by the Notified Body identification number.

End of Certificate



EC CERTIFICATE Full Quality Assurance System

Certificate No.: 243269-2017-CE-KOR-NA-PS Rev. 4.0

Project No.: PRJC-533956-2015-MSL-KOR

Valid Until: 01 September 2023

This is to certify that the quality system of:

Bistos Co., Ltd.

7th Fl., A Bldg., Woolim Lions Valley 5-cha, 302, Galmachi-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea

For design, production and final product inspection/testing of:

Monitoring devices of vital physiological parameters and Utilising non-ionizing radiation

Has been assessed with respect to:

The conformity assessment procedure described in Annex II excluding section 4 of Council Directive 93/42/EEC on Medical Devices, as amended

and found to comply

Further details of the product(s) and conditions for certification are given overleaf

Place and date: Høvik, 26 April 2021

Check Validity

Eugenie Winger Husebye

Eugenie Winger Huseby Technical Reviewer

For the issuing office:

Notified Body 2460 DNV Product Assurance AS

Notice: The Certificate is subject to terms and conditions as set out in the Certification Agreement. Failure to comply may render this Certificate invalid. NOTIFIED BODY 2460: DNV Product Assurance AS, Veritasveien 3, 1363 Høvik, Norway, Tel +47 67 57 88 00, <u>www.dnv.com</u>



Certificate No.: 243269-2017-CE-KOR-NA-PS Rev. 4.0 Place and date: Høvik, 26 April 2021

Jurisdiction

Application of Council Directive 93/42/EEC of 14 June 1993, adopted as "Forskrift om Medisinsk Utstyr" by the Norwegian Ministry of Health and Care Services.

Certificate history:

Revision	Description	Issue Date
0.0	Replaces certificate EU1308401, Rev2.0 (NB 0470) following transfer of Notified Body functions to DNV GL Nemko Presafe AS (NB 2460)	01 September 2017
1.0	EU Rep change	13 April 2018
2.0	Re-certification for Fetal monitor and Neonatal Phototherapy unit (BT-300, BT-350, FM-20, Biocare FM-1, BT-400) Scope extension for pulse oximeter and patient monitor (BT-710, BT-720, BT-740, BT-770) The accessories (Feotal Doppler system probe and Cardiotocograph transducers) are removed (AY-DOP-300, AY-DOP-350, AY-UC-300, AY-UC-350)	01 September 2018
3.0	Editorial change	13 February 2020
4.0	Scope extension to new model (BT-780)	26 April 2021

Products covered by this Certificate:

Product Description	Product Name	Class
Fetal monitor	 BT-200 BT-350 FM-20 Biocare FM-1 	lla
Neonatal Phototherapy unit	• BT-400	lla
Pulse Oximeter	• BT-710	llb
Patient Monitor	 BT-720 BT-740 BT-770 BT-780 	llb

The complete list of devices is filed with the Notified Body

Notice: The Certificate is subject to terms and conditions as set out in the Certification Agreement. Failure to comply may render this Certificate invalid.



Certificate No.: 243269-2017-CE-KOR-NA-PS Rev. 4.0 Place and date: Høvik, 23 April 2021

Sites covered by this certificate

Site Name	Address
Bistos Co., Ltd.	7th Fl., A Bldg., Woolim Lions Valley 5-cha, 302, Galmachi-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea

EU Representative

OBELIS S.A, Bd. General Wahis, 53, 1030 Brussels, Belgium



Notice: The Certificate is subject to terms and conditions as set out in the Certification Agreement. Failure to comply may render this Certificate invalid.



Certificate No.: 243269-2017-CE-KOR-NA-PS Rev. 4.0 Place and date: Høvik, 23 April 2021

Terms and conditions

The certificate is subject to the following terms and conditions:

- Any producer (see 2001/95/EC for a precise definition) is liable for damage caused by a defect in his product(s), in accordance with directive 85/374/EEC, as amended, concerning liability of defective products.
- The certificate is only valid for the products and/or manufacturing premises listed above.
- The Manufacturer shall fulfil the obligations arising out of the quality system as approved and uphold it so that it remains adequate and efficient.
- The Manufacturer shall inform the Notified Body of any intended updating of the quality system and the Notified Body will assess the changes and decide if the certificate remains valid.
- Periodical audits will be held, in order to verify that the Manufacturer maintains and applies the quality system. the Notified Body reserves the right, on a spot basis or based on suspicion, to pay unannounced visits.

The following may render this Certificate invalid:

- Changes in the quality system affecting production.
- Periodical audits not held within the allowed time window.

Conformity declaration and marking of product

When meeting with the terms and conditions above, the producer may draw up an EC declaration of conformity and legally affix the CE mark followed by the Notified Body identification number.

End of Certificate



Management System Certificate

Certificate No.: 243275-2017-AQ-KOR-NA-PS Rev 4.0

Initial Certification Date: 12 August 2004

Valid Until: 09 September 2024

This is to certify that the quality system of:

Bistos Co., Ltd.

7th Fl., A Bldg., Woolim Lions Valley 5-cha, 302, Galmachi-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea

has been found to conform to the Quality Management System standard: ISO 13485:2016/NS-EN ISO 13485:2016

This certificate is valid for the following scope:

Design and Development, Manufacturing, Sales, Distribution, and Servicing of Ultrasound Doppler system, Fetal monitor, Phototherapy, Patient Monitor, Pulse Oximeter, Incubator, Head-worn light, Infant Warmer and Electric Breast Pump.

Place and date: Høvik, 23 June 2021

Check Validity



For the issuing office: DNV Product Assurance AS

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Tone Elise Kolpus Lead Auditor

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ficate is subject to terms and conditions as set out in the Certification Agreement. Failure to comply may render this Certificate invalid.

Accredited Body: DNV Product Assurance AS, Veritasveien 3, 1363 Høvik, Norway, Tel +47 67 57 88 00, www.dnv.com



Certificate No.: 243275-2017-AQ-KOR-NA-PS Rev. 4.0 Place and date: Høvik, 22 June 2021

Site Name	Address	Site Specific Scope
Head Office	7th Fl., A Bldg., Woolim Lions Valley 5-cha, 302, Galmachi-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea	Design and Development, Sales, Distribution, and Servicing of Ultrasound Doppler system, Fetal monitor, Phototherapy, Patient Monitor, Pulse Oximeter, Incubator, Head-worn light, Infant Warmer and Electric Breast Pump.
Factory	116~122ho, Jungang Induspia 3, 27, Sagimakgol-ro 105beon-gil, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea	Manufacturing of Ultrasound Doppler system, Fetal monitor, Phototherapy, Patient Monitor, Pulse Oximeter, Incubator, Head-worn light, Infant Warmer and Electric Breast Pump.



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