

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.

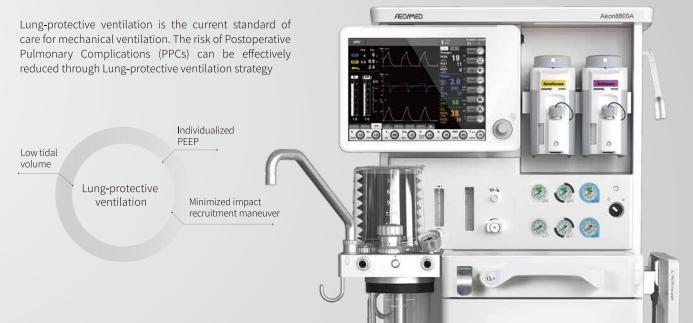
The integrated heating system with a better thermal conductivity of alloy help prevent condensation and make patients feel more comfortable.

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

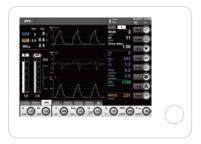


Low tidal volume

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.
- ullet 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





Economical
Agents and Medical Gases in FGF



Pollution
Operating room, environment



Patient
Temperature and humidity

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 $O_{\rm 2}$ driving gas.

Dimensions (H x W x D)	
Trolley version (with breathing circuit)	1420×770×760 mm
Weight and load	
Trolley (without vaporizer and backup cylinder)	135 kg
Top shelf load	25 kg
Caster locking	Control bushes materia
Braking Types 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	De 214, 1.0411, Millimatri 120 milliates
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 GAŚ 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	0~18L/min or set each gas independently: O ₂ , N ₂ O: 0~10L/min; AIR: 0~12L/min
O ₂ flush	25~75 L/min
Auxiliary common gas outlet (ACGO)	Optional
Anesthetic Gas Scavenging System (AGSS) Vaporizer	Optional
	Sevoflurane, Halothane, Enflurane, Isoflurane
Agent Installation mode	Selectatec" with interlock, optional standby vaporizer parking holder
Filling type	Pour-Fill, Key-Fill, Quik-Fil®
Breathing system	Four-Fill, Ney-Fill, Quik-Fill
Volume of CO ₂ absorber	1.5 L for single canister
APL Range	Spontaneous breathing (SP) -70 cmH ₂ O
Material	Autoclavable (except O ₂ cell and airway pressure gauge)
Heating system	32-40 °C
CO ₂ bypass	Optional
VENTILATOR OPERATING SPECIFICATIONS	
Ventilator	Pneumatically driven, Electronically controlled
Ventilation modes – standard	Manual/Spontaneous
	Volume control (IPPV)
	Pressure control (PCV)
Ventilation modes - options	Pressure Controlled Ventilation Volume Guaranteed (PCV-VG)
	Synchronized Intermittent Mandatory Ventilation in Volume (SIMV-VC)
	Synchronized Intermittent Mandatory Ventilation in Pressure (SIMV-PC) 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	Allway Flessure Netease Vehiclation (AFNV)
Breathing frequency (Freq)	2~100 bpm
Positive end expiratory pressure (PEEP)	OFF, 3~50 cmH ₂ O
Inspiration/expiration ratio (I:E)	4:1~1:8
Tidal volume (Vt)	10~1500 ml
Inspiration pause	OFF, 5%~60%
Inspiratory time	0.2~5.0 s
Inspiratory pressure (P _{TARGET})	5~70 cmH ₂ O
Pressure support level (ΔP)	3~60 cmH2O
Pressure limit (Pmax)	10~100 cmH ₂ O
Trigger	0.5~15 L/min / -20~-1cmH2O
Inspiratory Slope Time (T _{SLOPE})	0~2s
Compensation	Compliance and Leak compensation, fresh gas compensation, altitude compensation
Ventilator monitoring & alarm Monitoring	Continuous monitoring of inspiraton (Os consentration by athir afragrams (1)
Monitoring	Continuous monitoring of inspiratory O2 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,CO2 concentration,
	paramagnetic oxygen analyzer, anesthetic gas concentration with MAC
Trend storage	Maximum 720 hours of trend data table, 72 hours of trend chart
Medical gas calculations	Consumption of O ₂ , N ₂ O and Agent. Calculations of CO ₂ production, require relevant gas monitoring
Control screen	15" TFT color touch screen
Graph Display	Waveforms of P-t, F-t, V-t, CO ₂ -t (option), P-V Loop, V-F Loop, P-F Loop
Alarm	MV high/low limit, F ₁ O ₂ high/low limit, Paw high/low limit, Pow er failure
	High Freq, Negative pressure, Continuous airway pressure, Apnea alarm, etc.
	Alarm (Silence ≤120 seconds)
	500 items





HQ: Building 9, No.26 Outer Ring West Road, Fengtai District, Beijing 100070, China Science Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province Oscience Park: No. 10, Chaobai



Physical Specifications

Dimensions

Height 1420mm
Width 770mm
Depth (without YOKE) 760mm
Weight (basic unit) 135kg

Top Shelf

Weight limit 25kg
Width 650mm
Depth 380mm

Work surface

 Height
 850mm

 Width
 440mm

 Depth
 300mm

Matrial stainless steel

Flip-up side tray

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

Drawers (internal dimensions)

Quantity 3

Height 120mm Width 355mm Depth 340mm

Casters

Diameter 125mm

Brakes Central control brake

Cylinder YOKE(optional)

Interface Pin Index Safety

System (PISS)

Type E

Number 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

Ventilator parameter ranges

Tidal volume range 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 set Vt between 100 and 1000mL) or 50mL(when set Vt bigger than 1000mL)

Pressure (P_{MAX}) range 10 to 100 cmH₂O

(increments of 1

cmH₂O)

(IPPV, SIMV-VC and PCV-VG vent modes)

Pressure (P_{support}) 3 to 60 cmH₂O range (increments of 1

 $cmH_2O)$

(SIMV-VC/PC/VG,





Aeon8800A Anae	sthesia Machine		
	PS/CPAP, BIVENT		
	and APRV vent	Pressure trigger (P _{SENS})	-20 to -1 cmH ₂ O
	modes)		(increments of 1 cmH ₂ O)
Pressure (P _{TARGET})	5 to 70 cmH ₂ O		(SIMV-VC/PC/VG,
range	(increments of 1		PS/CPAP, BIVENT and
	cmH ₂ O)		APRV vent modes)
	(PCV and SIMV-PC		
	vent modes)	E _{SENS}	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)	Phigh	5 to 70 cmH₂O
	(increments		(increments of 1
	of 1 breath per minute)		cmH ₂ O)
			(BIVENT and APRV
Inspiratory/expiratory	4:1 to 1:8		vent modes)
ratio	(increments of 0.5)		
	(IPPV, PCV and PCV-	P _{LOW}	3 to 50 cmH₂O
	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	T_LOW	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)



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		110cmH ₂ O
	modes)		
		FiCO ₂	0 to 10 vol%
-			
Positive End E. (PEEP)	xpiratory Pressure	EtCO ₂	0 to 10 vol%
Type	Integrated		
1)60	electronically	DP (Driving airway	0 to 120 cmH2O
	controlled	pressure)	
Range	OFF, 3 to 50 cm H ₂ O	SI (Stress index)	0.1 to 5
. 1390	(increments of 1 cm		
	H ₂ O)	V_{TI}	0 to 3000mL
	,		
Ventilator performa	nce	VTE	0 to 3000mL
Pressure range at inlet			
Ŭ		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	g	1/00	5 10 1 10
Minute volume range	0 to 30L	VO2	Real time calculation
		000 T	Deal time calculation
Tidal volume range	0 to 3000mL	CO2-T	Real time calculation
		Trand table	
FiO ₂	18% to 100%	Trend table	nation to math an with time
			nation together with time
Peak pressure(Ppeak)	-20cmH₂O to		cored and shown in the
	99cmH₂O	• ,	P _{plat} , P _{mean} , PEEP, Freq,
			FiCO ₂ , Agent1, Agent2,
$Mean\ pressure(P_{mean})$	-20cmH₂O to		-Air and FG-N ₂ O.The left
	99cmH₂O	. •	10 parameters and the
		remains shall be in the	ngni page.
Plat pressure(P _{plat})	-20cmH₂O to	The machine shall rem	ember maximum 30 days
	99cmH ₂ O		•
		the interval Is adjustable	erval shall be 5 minutes,
PEEP	-20cmH ₂ O to	the interval is adjustable	C
	99cmH ₂ O	•	
Frequency	0 to 110 breaths per		





	and the transfer		
		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, inc	cluding Pressure,CO2,	exhalant	Low: OFF, 0.1 to
	The machine shall rememb	CO ₂ (etCO ₂)	9.8% or OFF,1 to 74
the 72 hours trend cha		(mmHg
and 72 modes along one			High: 0.1 to 9.9% or 1
			to 75mmHg
Stories alarms			to 7 Sittiffing
	s can be viewed from the	1 100 (5:00	11: 1 0 4 (4 40/
<u>-</u>	s can be viewed from the	Inspired CO ₂ (FiCO ₂)	High: 0.1 to 1.4% or
_	alarm message bar the		1 to 10 mmHg
	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	тор. Егч	High: 0.1 to 9.9%
	15%		riigii. 0.1 to 3.370
	1070	Inon DEC	Laws OFF 0.1 to
Pressure delivery	\pm 10% or \pm 3 cm H ₂ O	Insp. DES	Low: OFF, 0.1 to
Flessure delivery	± 10 % or ± 3 cm 1120		21.8%
DEED J.B.	1.0		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
(Μνολρ)	riigii. 1 to 20 2/11iii		
Low oirway progura	0 to 70 cmH₂O		Frequency ≥ 6
Low airway pressure	0 to 70 cm 120		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





Frequency<6

Manual mode:

Vt< 10 mL measured

in 60 seconds

Ventilator Screen

Display type Color active matrix

TFT

Touch screen

15 inches diagonal

Sustained airway

pressure

ON:

Paw>PEEP add 10 cm Display size

H₂O measured over

Mechanical ventilation

15 seconds

Continuously

Mechanical ventilation

OFF:

Paw>10 cm H₂O

measured over 15

seconds Continuously

Display parameters

Pixel format

Color

LVDS 24 bit, 16777216 colors

1024×768

Subatmospheric

Alarm silence

countdown timer:

pressure

Paw < -2 cm H₂O

parameters(incluing Vt, Freq., I:E, T_{INSP}, PEEP, Freq_{MIN}, T_P, Trigger, P_{TARGET}, ΔP,

All setting and alarm

120 to 0 seconds T_{SLOPE}, PEAK, MEAN, PLAT, FiO₂,

DP,SI,VTI,VTE,I:E,

Rsys, Csys VO2,CO2-T

Ventilator components

Flow transducer

Туре 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

connector);

RJ45 connector 100-Base-TX support HL7

communication

license:

USB 2.0 interface

Oxygen Sensor

Type2

Galvanic fuel cell Type1

Life Cycle proximately 12 months

(Dependent on usage)

Paramagnetic oxygen

Life Cycle 8 years

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ACOHOGOGA AHACS	urcsia macriire		
Intograted safety fu	netions	Agent setting range	Sevoflurance: :
Integrated safety fu			
	d battery failure, manual v and agent delivery are		OFF, 0.2%, 0.5%,
possible. Positive pressure relief	valve opens at 110 ±		1% , 2% , 3% , 4% ,
1cmH₂O.			
TCHII 12O.			5% , 6% , 7% , 8% ;
Anesthetic	agent		Halothane, Enflurane,
	agent		Isoflurane:OFF ,
delivery			
			0.2% , 0.5% , 1% ,
Delivery			
Vaporizer	VP300		2% , 3% , 4% , 5% ;
Туре	Halothane, Enflurane,	Coo mornit	
	Isoflurane,	Gas mornit	or(optional)
	Sevoflurane,	Туре	main stream/side
	Covernation,	.,,,,	stream
Number of positions	2		
		Moudle	IRMA CO ₂ ; IRMA AX+
Mounting	Selectatec ^R manifold		ISA CO2; ISA AX+
Wounting	interlocks		10/1 002, 10/1/01
	IIILEHOCKS	On another a	IDMA AV., 40 to
B: :		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
Accuracy			(41 to 122 °F)
Flow range	0.2-15L/min		
3		Storage temperature	IRMA AX+: -20 to
Operation			75 °C (-4 to 167 °F)
Operation	15-35°⊂		IRMA CO2: -40 to
temperature			75 °C (-40 to 167 °F)
			ISA CO2: -40 to 70 °C
Accuracy	± 20% of softing or		
	±20% of setting or ±		(-40 to 158 °F)
	5% of the maximum		ISA AX+: -40 to 70 °C
	scale		(-40 to 158 °F)
		Operating humidity	< 4 kPa H2O (non-
		Sporading maintaily	1 111 4 1120 (11011



Breath detect

Respiratory rate:

Aeon8800A Anaesthesia Machine

Technical Specifications

condensing) (95 %RH Infant.

at 30 °C)

ISA Nomoline Sampling line with

Operating 525 - 1200 hPa proprietary water removal tubing. atmospheric pressure (<4572 m)

2 m±0.1m versions

Warm-up time IRMA AX+/ISA AX+: <

> 20 sec Carbon Dioxide (CO₂) Moudle

IRMA CO₂/ISA CO₂: < (IRMA/ISA CO₂)

Monitor Gas CO_2 10 sec

Rise Time IRMA CO₂ / AX+: Measurement range 0-15 vol%

CO₂≤90ms

N₂O≤300ms Accuracy 0-15 vol%

HAL, ISO, ENF, SEV,

 \pm (0.2 vol% + 2 % of DES≤300ms ISA CO2: 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

N₂O: 0-100 vol%

HAL, ISO, ENF: 0-8

Adaptive threshold, vol%

minimum 1 % CO₂ SEV: 0-10 vol% DES: 0-22 vol% change.

Accuracy

 $0 - 150 \text{ bpm } \pm 1 \text{ bpm}$ CO₂ 0-15 vol%

 \pm (0.2 vol% + 2 % of Compensation: Automatic for

atmospheric pressure,

reading)

temperature and spectral interference N_2O

 \pm (2 vol% + 2 % of

Airway adapters reading)

IRMA Airway Adapter 6 ml dead space

Adult/Paediatric HAL, ISO, ENF

 $\pm (0.15 \text{ vol}\% + 5 \% \text{ of}$

IRMA Airway Adapter 1 ml dead space reading)



Technical Specifications

SEV

 $\pm (0.15 \text{ vol}\% + 5 \% \text{ of}$

reading)

DES

-T90)

 $\pm (0.15 \text{ vol}\% + 5 \% \text{ of}$

reading)

analad laad asi

Battery type

sealed lead acid 24VDC,5.0AH

Internal rechargeable

Backup power Demonstrated battery

backup time under typical operating conditions is 120 minutes when fully

charged

Paramagnetic oxygen module

Range 0-100%

Accuracy $<\pm 0.2\% O_2$

Charge time $\,<\,$ 8 hours (in running

status or standby

plug);

mode)

Response Time (T10

8 to 20 seconds dependent on

application and filter selection (biological

filter on request)

Power code 5m/16.4ft

Outlets 4 outlets on back

Operation 5 °C to 50 °C (41°F

Temperature to 122°F)

Maximum output valve 1.5A(single

of auxiliary AC power 6A(in total)

plug

Storage Temperature -30°C to 70°C (-22°F

to 158°F)

10kPa-

Storage Pressure

200kPa(1.5psi-30psi)

specifications

Pneumatic

Ambient Humidity 0 to 95% non-

condensing

Auxiliary common gas outlet(optional)

Connector: ISO 22 mm OD and 15

mm ID

RoHS ROHS Directive

2002/95/EC

Security Anti-misconnection

switch and prominent prompts on the screen

Electrical specificationsGas supply

Power and battery backup

Power input 100-240V,50/60Hz,

Max. ≤8A

Gas type O_2, N_2O, Air

Pipeline input range 280 kPa to 600 kPa/41

psi to 87 psi

Pipeline connections NIST/DISS

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Total Flow

Aeon8800A Anaesthesia Machine

kPa

Control Total flow range: 0.2

N₂O cut-off if O₂ pressure is less than 200kPa

range: 21% to 100%

Cylinder input Pin-index yokes Flow indicator Flow tube

Primary regulator 250 kPa/36psig Auxiliary gas output

nominal output Gas Oxygen

O₂ controls Pressure 280-600kPa

Method Proportionate

> decrease of N2O with Flow rate Max.90L/min

reduction in O₂ pressure

Breathing circuit Supply failure alarm Range: 185 to 215 **specifications**

O₂ flush Range: 25 to 75 L/min Carbon dioxide absorbent canister Absorbent capacity 1500ml

Electronic control Flowmeter (Electronic Mixer) CO₂ bypass Optional

O₂ ranges 0 to 10 L/min N₂O ranges 0 to 10 L/min Ports and connectors

0 to 12 L/min Exhalation 22 mm OD ISO 15 Air ranges

mm ID taper

Mode to 18 L/min Inhalation 22 mm OD ISO 15

> O concentration mm ID taper

22 mm OD Bag port

Integrated safety functions

Guarantees a minimum O₂ concentration of 25% Pressure gauge

in an O₂/N₂O mixture. Scale range -20 to 100 cm H₂0

Driven gas auto-switch(optional) Bag-to-Ventilator switch

Use compressed air as the driving gas. Type Key switch

When the compressed air supply is disrupted, the machine will automatically switch to O2 Control Controls ventilator and

driving gas. direction of

breathing gas within

Auxiliary oxygen inhalation the circuit

Range 1-15L/min

Integrated Adjustable Pressure Limiting

400kPa (APL) valve Pressure



Technical Specifications

hole diameter of

Aeon8800A Anaesthesia Machine 0 to 70 cm H₂O Range Expiratory resistance 0.57 kPa under automatic Tactile knob 30 cm H₂O and above indication at Inpiratory resistance 0.22 kPa under automatic Adjustment range of 0 to 30 cm H₂O (0 to rotation Note: According to ISO 80601-2-13, test under 180°) peak flow 60L/min, fresh gas 10L/min. $30 \text{ to } 70 \text{ cm H}_2\text{O} (180$ to 288°) Heating system(optional) Accuracy 32 - 40℃ Temperature < 30 cm H₂O:±3 cm H₂O; **Materials** ≥30 cm H₂O:±15% of All materials in contact with exhaled patient gases are autoclavable, except mechanical set value; pressure meter and O2 cell. All materials in contact with patient gas are Breathing circuit parameters free of natural rubber latex. 4.5ml/ cm H₂O Compliance (Bag mode) **Anesthetic gas** Compliance Automatically scavenging (Mechanical compensates for Mode) compression losses System(AGSS) within the absorber and bellows assembly Size 445×142×95 (height x width x depth) Weight Circuit volume 3.9 L Vent Mode 2.25Kg (including absorber; bellow) Type of disposal Low-flow disposal 2.4 L Bag Mode system system Expiratory resistance extract Flow $35L/Min\sim50L/Min$ 0.51 kPa under manual condition Pressure relief device Pressure compensation opening Inpiratory resistance 0.39 kPa to the atmosphere under manual condition Filter Stainless screen with





150µm

Spillage <100mL/min

Maximum constant 50L/Min

flow

Maximum intermittent 35L/Min

flow

Environmental specifications

System operation

Temperature 10 to 40 °C

Humidity Less than 95% relative

humidity, noncondensing.

Atmospheric 70-106kPa

pressure

System storage

Temperature − 20 to 55°C

Humidity Less than 95% relative

humidity, noncondensing.

Barometric 70-106kPa

Electromagnetic compatibility

Immunity Complies with all

requirements of EN 60601-1-2

Emissions CISPR 11 group 1

class A

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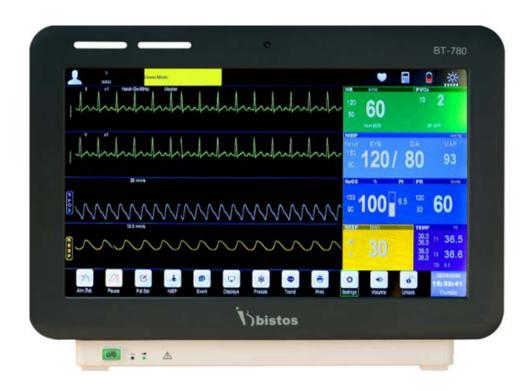
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CE mark in this manual apply only to product with CE mark.



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

:: Technical Specification

	Model		BT-780
Category		Patient Monitor	
	Display		15.6" Color Touch LCD
	Lead	Туре	3/5 lead
	Gain Se		x0.125, x0.25, x0.5, x1, x2, x4, auto
	Sweep Spe	eed (mm/s)	12.5, 25, 50
	Bandwidth : Di	· '	0.05-100 Hz
ECG	Monitori		0.5-40 Hz
	Surger		1-25 Hz
	Strong		5-20 Hz
			Adult : 15-300
	Heart Rate F	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 %
	(. 5 . 5570)	Neonate	±3 %
SpO ₂	Accuracy		Unspecfied
		on Index	0.05-20 %
	Pulse Rate F		25-250
	Met		Automatic Oscillometric
	Operation		Manual / Auto / STAT
	Parar		Systolic, Diastolic, Mean
	Tarar	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	10-175
	(mmHg)	Neonate	10-115
	Rai		0-50 °C (41 to 122 °F)
Temperature -		neter	T1, T2, and TD
		nnel	2 Channel / 4 Channel
IBP*	Range		-50 to 400
	Ty		Themal dot array
Printer*		ed (mm/s)	12.5, 25, 50
T TITILOT	Paper si		50
	Met		Masimo ISA / Bistos
CO ₂ *		nge	Masimo IRMA / Bistos
	Multi-gas/0 ₂ *	-0-	Masimo ISA
	SpO ₂ -Masimo*		Masimo SpO ₂
	Met	hod	Thermodilution
CO ₂ *		nge	0.2-20 L/min
	Type (c		Li-ion (4400 mAh)
Battery	Run		5 hour
		ng Time	4 hour
	PC Software Interface	19 111110	RJ45, USB, Nursing call
	Warranty		2 year
	vvarranty		2 yeai



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

Functional Characteristics		
Display		
Type	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 lan ann an	English, Turkish, Spanish, French, Polish, German,	
Multi-language	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	1.7	
Standard compliance	IEC60601-2-27	
·	3Lead : I, II, III	
Lead type	5Lead : I, II, 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	
	Monitoring mode : 0.5 ~ 40Hz	
Band width	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%	
	Measuring electrode: < 0.1µA	
Lead-off detection current	Drive electrode : < 1µA	
	Adult: 15 ~ 300bpm	
HR measuring range	Pediatric/Neonate : 15 ~ 350bpm	
HR measuring resolution	1bpm	
HR measurement accuracy	±1bpm or ±1%, whichever is greater	
measarement accuracy	Ventricular bigeminy : 80±1bpm	
	Slow alternating ventricular bigeminy : 60±1bpm	
HR accuracy & response to irregular rhythm	Rapid alternating ventricular bigeminy: 120±15pm	
· · · · · · · · · · · · · · · · · · ·	Bidirectional systoles: 90±2bpm	
	Didirectional systoles . 30±20pm	

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
	· · · · · · · · · · · · · · · · · · ·
Pacing pulse identification	Detection range : ±2mV ~ ±700mV Pulse width : 0.2ms ~ 2.0ms
De sin a pulso average LID	
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	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
Temperature difference alarm upper limit	0°C ~ 50.0°C, 0.1°C/°F step
	T1, T2 Sensor off
Alarm	T1/T2 high/low, TD high
NiBp	1 1/12 High/low, 10 High
Standard compliance	IEC80601-2-30
Measurement method	Automatic oscillometric method
Operating mode	Manual, automatic, continuous(STAT)
Useful life	100,000 times
Measurement interval in automatic mode	
	1/2/3/4/5/10/15/30/60/90/120/180/240/480min
Typical measurement time	20~40s
Niamaal mada massa dassa sa Collega	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)
	Maximum average error: ±5mmHg
Measurement accuracy	
Measurement accuracy Resolution	Maximum standard deviation: 8mmHg 1mmHg

	Adult: 160 (default)
	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
Overpressure protection point (software)	Neonate: 150mmHg
	Adult: 320~330mmHg
Overpressure protection point (hardware)	Pediatric: 265~275mmHg
Overpressure protection point (nardware)	Neonate: 160~165mmHg
Static Proceure accuracy	±3mmHg
Static Pressure accuracy Supply voltage	10V~14VDC
Maximum power consumption	3.6W
· · · · · · · · · · · · · · · · · · ·	
Quiescent current	50mA 180mA
Maximum current during measurement	
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	10000001 0 01
Standard compliance	ISO80601-2-61
Display range	0% ~ 100%
SpO2 display resolution	1%
5.00	Adult/Pediatric: 70 ~ 100% ±2%
SpO2 accuracy	Neonate : 70 ~ 100% ±3%
	0 ~ 69% : Unspecified
Wave sweep speed	12.5mm/s, 25mm/s
Wave mode	12.5mm/s, 25mm/s Scan, fill
···	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level
Wave mode Pulse volume	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100%
Wave mode Pulse volume SpO2 alarm preset limits	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99%
Wave mode Pulse volume SpO2 alarm preset limits SpO2 alarm preset accuracy	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99% ±1%
Wave mode Pulse volume SpO2 alarm preset limits SpO2 alarm preset accuracy SpO2 alerting signal generates delay	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99% ±1% Off,1s,2s,3s,4s,5s,6s,7s,8s
Wave mode Pulse volume SpO2 alarm preset limits SpO2 alarm preset accuracy SpO2 alerting signal generates delay SpO2 value refresh period	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99% ±1% Off,1s,2s,3s,4s,5s,6s,7s,8s 1s/time
Wave mode Pulse volume SpO2 alarm preset limits SpO2 alarm preset accuracy SpO2 alerting signal generates delay	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99% ±1% Off,1s,2s,3s,4s,5s,6s,7s,8s 1s/time < 10s
Wave mode Pulse volume SpO2 alarm preset limits SpO2 alarm preset accuracy SpO2 alerting signal generates delay SpO2 value refresh period SpO2 value refresh delay	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99% ±1% Off,1s,2s,3s,4s,5s,6s,7s,8s 1s/time < 10s Low Sensitivity: 7 ~ 8s
Wave mode Pulse volume SpO2 alarm preset limits SpO2 alarm preset accuracy SpO2 alerting signal generates delay SpO2 value refresh period	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99% ±1% Off,1s,2s,3s,4s,5s,6s,7s,8s 1s/time < 10s Low Sensitivity: 7 ~ 8s Intermediate Sensitivity: 4 ~ 6s
Wave mode Pulse volume SpO2 alarm preset limits SpO2 alarm preset accuracy SpO2 alerting signal generates delay SpO2 value refresh period SpO2 value refresh delay Average period	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99% ±1% Off,1s,2s,3s,4s,5s,6s,7s,8s 1s/time < 10s Low Sensitivity: 7 ~ 8s Intermediate Sensitivity: 4 ~ 6s Advanced Sensitivity: 2 ~ 3s
Wave mode Pulse volume SpO2 alarm preset limits SpO2 alarm preset accuracy SpO2 alerting signal generates delay SpO2 value refresh period SpO2 value refresh delay Average period Perfusion index	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99% ±1% Off,1s,2s,3s,4s,5s,6s,7s,8s 1s/time < 10s Low Sensitivity: 7 ~ 8s Intermediate Sensitivity: 4 ~ 6s Advanced Sensitivity: 2 ~ 3s 0.05 ~ 20%
Wave mode Pulse volume SpO2 alarm preset limits SpO2 alarm preset accuracy SpO2 alerting signal generates delay SpO2 value refresh period SpO2 value refresh delay Average period Perfusion index PR Measurement Range	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99% ±1% Off,1s,2s,3s,4s,5s,6s,7s,8s 1s/time < 10s Low Sensitivity: 7 ~ 8s Intermediate Sensitivity: 4 ~ 6s Advanced Sensitivity: 2 ~ 3s 0.05 ~ 20% 25 ~ 250 bpm
Wave mode Pulse volume SpO2 alarm preset limits SpO2 alarm preset accuracy SpO2 alerting signal generates delay SpO2 value refresh period SpO2 value refresh delay Average period Perfusion index PR Measurement Range PR Resolution	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99% ±1% Off,1s,2s,3s,4s,5s,6s,7s,8s 1s/time < 10s Low Sensitivity: 7 ~ 8s Intermediate Sensitivity: 4 ~ 6s Advanced Sensitivity: 2 ~ 3s 0.05 ~ 20% 25 ~ 250 bpm ±1 bpm
Wave mode Pulse volume SpO2 alarm preset limits SpO2 alarm preset accuracy SpO2 alerting signal generates delay SpO2 value refresh period SpO2 value refresh delay Average period Perfusion index PR Measurement Range	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99% ±1% Off,1s,2s,3s,4s,5s,6s,7s,8s 1s/time < 10s Low Sensitivity: 7 ~ 8s Intermediate Sensitivity: 4 ~ 6s Advanced Sensitivity: 2 ~ 3s 0.05 ~ 20% 25 ~ 250 bpm ±1 bpm ±2% or ±2bpm, whichever is greater
Wave mode Pulse volume SpO2 alarm preset limits SpO2 alarm preset accuracy SpO2 alerting signal generates delay SpO2 value refresh period SpO2 value refresh delay Average period Perfusion index PR Measurement Range PR Resolution	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99% ±1% Off,1s,2s,3s,4s,5s,6s,7s,8s 1s/time < 10s Low Sensitivity: 7 ~ 8s Intermediate Sensitivity: 4 ~ 6s Advanced Sensitivity: 2 ~ 3s 0.05 ~ 20% 25 ~ 250 bpm ±1 bpm ±2% or ±2bpm, whichever is greater Communication stop/error
Wave mode Pulse volume SpO2 alarm preset limits SpO2 alarm preset accuracy SpO2 alerting signal generates delay SpO2 value refresh period SpO2 value refresh delay Average period Perfusion index PR Measurement Range PR Resolution PR Measurement accuracy	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99% ±1% Off,1s,2s,3s,4s,5s,6s,7s,8s 1s/time < 10s Low Sensitivity: 7 ~ 8s Intermediate Sensitivity: 4 ~ 6s Advanced Sensitivity: 2 ~ 3s 0.05 ~ 20% 25 ~ 250 bpm ±1 bpm ±2% or ±2bpm, whichever is greater Communication stop/error No sensor/ sensor off
Wave mode Pulse volume SpO2 alarm preset limits SpO2 alarm preset accuracy SpO2 alerting signal generates delay SpO2 value refresh period SpO2 value refresh delay Average period Perfusion index PR Measurement Range PR Resolution PR Measurement accuracy	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99% ±1% Off,1s,2s,3s,4s,5s,6s,7s,8s 1s/time < 10s Low Sensitivity: 7 ~ 8s Intermediate Sensitivity: 4 ~ 6s Advanced Sensitivity: 2 ~ 3s 0.05 ~ 20% 25 ~ 250 bpm ±1 bpm ±2% or ±2bpm, whichever is greater Communication stop/error No sensor/ sensor off Search timeout
Wave mode Pulse volume SpO2 alarm preset limits SpO2 alarm preset accuracy SpO2 alerting signal generates delay SpO2 value refresh period SpO2 value refresh delay Average period Perfusion index PR Measurement Range PR Resolution PR Measurement accuracy	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99% ±1% Off,1s,2s,3s,4s,5s,6s,7s,8s 1s/time < 10s Low Sensitivity: 7 ~ 8s Intermediate Sensitivity: 4 ~ 6s Advanced Sensitivity: 2 ~ 3s 0.05 ~ 20% 25 ~ 250 bpm ±1 bpm ±2% or ±2bpm, whichever is greater Communication stop/error No sensor/ sensor off
Wave mode Pulse volume SpO2 alarm preset limits SpO2 alarm preset accuracy SpO2 alerting signal generates delay SpO2 value refresh period SpO2 value refresh delay Average period Perfusion index PR Measurement Range PR Resolution PR Measurement accuracy Alarm	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99% ±1% Off,1s,2s,3s,4s,5s,6s,7s,8s 1s/time < 10s Low Sensitivity: 7 ~ 8s Intermediate Sensitivity: 4 ~ 6s Advanced Sensitivity: 2 ~ 3s 0.05 ~ 20% 25 ~ 250 bpm ±1 bpm ±2% or ±2bpm, whichever is greater Communication stop/error No sensor/ sensor off Search timeout
Wave mode Pulse volume SpO2 alarm preset limits SpO2 alarm preset accuracy SpO2 alerting signal generates delay SpO2 value refresh period SpO2 value refresh delay Average period Perfusion index PR Measurement Range PR Resolution PR Measurement accuracy Alarm	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99% ±1% Off,1s,2s,3s,4s,5s,6s,7s,8s 1s/time < 10s Low Sensitivity: 7 ~ 8s Intermediate Sensitivity: 4 ~ 6s Advanced Sensitivity: 2 ~ 3s 0.05 ~ 20% 25 ~ 250 bpm ±1 bpm ±2% or ±2bpm, whichever is greater Communication stop/error No sensor/ sensor off Search timeout Search pulse(weak)
Wave mode Pulse volume SpO2 alarm preset limits SpO2 alarm preset accuracy SpO2 alerting signal generates delay SpO2 value refresh period SpO2 value refresh delay Average period Perfusion index PR Measurement Range PR Resolution PR Measurement accuracy Alarm IBP (Option) Standards compliant	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99% ±1% Off,1s,2s,3s,4s,5s,6s,7s,8s 1s/time < 10s Low Sensitivity: 7 ~ 8s Intermediate Sensitivity: 4 ~ 6s Advanced Sensitivity: 2 ~ 3s 0.05 ~ 20% 25 ~ 250 bpm ±1 bpm ±2% or ±2bpm, whichever is greater Communication stop/error No sensor/ sensor off Search timeout Search pulse(weak)
Wave mode Pulse volume SpO2 alarm preset limits SpO2 alarm preset accuracy SpO2 alerting signal generates delay SpO2 value refresh period SpO2 value refresh delay Average period Perfusion index PR Measurement Range PR Resolution PR Measurement accuracy Alarm IBP (Option)	12.5mm/s, 25mm/s Scan, fill 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level Upper Alarm Limit: 86% ~ 100% Lower Alarm Limit: 85% ~ 99% ±1% Off,1s,2s,3s,4s,5s,6s,7s,8s 1s/time < 10s Low Sensitivity: 7 ~ 8s Intermediate Sensitivity: 4 ~ 6s Advanced Sensitivity: 2 ~ 3s 0.05 ~ 20% 25 ~ 250 bpm ±1 bpm ±2% or ±2bpm, whichever is greater Communication stop/error No sensor/ sensor off Search timeout Search pulse(weak) SpO2, RR high/low

Proceure measurement accuracy	±3 mmHg or±2%, whichever is greater	
Pressure measurement accuracy	1 mmHg	
Pressure resolution	35 ~ 250 bpm	
PR measurement assurance		
PR measurement accuracy PR resolution	±3bpm 1bpm	
	5µV/V/mmHg	
Transducer sensitivity Transducer resistance range	300-3,000Ω	
Supply voltage	+12VDC	
Maximum power consumption	+12VDC ≤5W	
Scan speed		
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-	
EtCO2 Mainstroom & Sidostroom (Ontion)	mean, P1-mean, P2-mean high	
EtCO2 Mainstream & Sidestream (Option) Measurement parameters	EtCO2、FiCO2、AwRR	
Measuring range	0-15%	
Accuracy	±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 Operating mode	50ml/min(+/-10ml/min) Standby, measure	
O2 compensation	Low, mid, high	
N2O compensation	On, off	
N2O compensation		
	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	
	CO2 factory calibration error	
Alarm	Adaptor, sampling line replace	
	O2 port error	
	CO2, O2, N2O out of accuracy	
	•	
	CO2 temp., pressure out of accuracy CO2 zero required	
	CO2 zero required CO2 zeroing/sleeping	
	CO2 zeroing/sieeping CO2 module calibrating/calibration error	
	EtCO2, FiCO2, AWRR high/low	
	Apnea	
C.O. (Cardiac Output : Option)		
Method	Thermodilution	
INICUIOU	C.O. : 0.2 ~ 20 L/min	
Measurement range	C.O. : 0.2 ~ 20 L/min BT : 23 ~ 45°C±0.5 °C	
	IT: 0 ~ 20°C±0.5 °C	
	11 . 0 ·- 20 C±0.5 C	

Resolution factor	C.O. : 0.1L/min
	BT, IT : 0.1℃
Accuracy	C.O.: ±10%
ricediacy	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) °C
	Step size : 0.1℃
	BT sensor off
Alarm	BT high/low
	C.O. high
Printer (Option)	, cost riight
Туре	Thermal dot array
Print speed	12.5, 25, 50mm/s
Paper size	50mm(W) x 2m
Power	3511111(VV) X 2111
	Input : AC 100 ~ 240V (50/60Hz)
Adaptor	Input Current: 1.6-0.6A
Consumption	13.5W
Consumption	11.1V Li-ion 4,400mA
Rechargeable battery	
nechargeable battery	Operating Time: 5hrs
Standard Confirmations	Charging Time : 4hrs
Standard Configurations	4 (5)
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
	гинен « рарен
Cart Ontions (Accessory)	
Options (Accessory)	F /2 load
ECG cables and lead wire	5/3 lead
ECG electrode	adult/neonate
SpO2 reusable sensor	adult/pediatric/neonate
SpO2 disposable sensor	adult/pediatric/neonate
Chin & roctal tomporature concer	adult/pediatric/neonate
Skin & rectal temperature sensor	· · · · · · · · · · · · · · · · · · ·
NiBp cuff	adult(27~35cm)/pediatric(14~21.5cm)/neonate(4*9cm)
NiBp cuff Physical Characteristics	· · · · · · · · · · · · · · · · · · ·
NiBp cuff	· · · · · · · · · · · · · · · · · · ·
NiBp cuff Physical Characteristics	· · · · · · · · · · · · · · · · · · ·
NiBp cuff Physical Characteristics Dimension	adult(27~35cm)/pediatric(14~21.5cm)/neonate(4*9cm)
NiBp cuff Physical Characteristics Dimension Main unit	adult(27~35cm)/pediatric(14~21.5cm)/neonate(4*9cm) 410(W) X 298(H) X 120(D)
NiBp cuff Physical Characteristics Dimension Main unit Packing	adult(27~35cm)/pediatric(14~21.5cm)/neonate(4*9cm) 410(W) X 298(H) X 120(D)
NiBp cuff Physical Characteristics Dimension Main unit Packing Weight Main unit	adult(27~35cm)/pediatric(14~21.5cm)/neonate(4*9cm) 410(W) X 298(H) X 120(D) 495(W) x 295(D) x 385(H)mm < 4.9Kg
NiBp cuff Physical Characteristics Dimension Main unit Packing Weight	adult(27~35cm)/pediatric(14~21.5cm)/neonate(4*9cm) 410(W) X 298(H) X 120(D) 495(W) x 295(D) x 385(H)mm
NiBp cuff Physical Characteristics Dimension Main unit Packing Weight Main unit Packing Environmental Conditions	adult(27~35cm)/pediatric(14~21.5cm)/neonate(4*9cm) 410(W) X 298(H) X 120(D) 495(W) x 295(D) x 385(H)mm < 4.9Kg 7kg
NiBp cuff Physical Characteristics Dimension Main unit Packing Weight Main unit Packing	adult(27~35cm)/pediatric(14~21.5cm)/neonate(4*9cm) 410(W) X 298(H) X 120(D) 495(W) x 295(D) x 385(H)mm < 4.9Kg

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	



BIO SIGNAL TOTAL SOLUTION

Product

· Fetal Monitor · Fetal Doppler · Infant Incubator · Infant Warmer · Phototherapy · Electric Breast Pump · Patient Monitor · Vascular Doppler · Head Lamp



Fetal Monitor

Fetal Doppler

BT-350

LCD Monitor / 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

BT-300 LED Monitor



- · Clear display & Sound
- · Compact & Light Design
- Easy to use each function
- High sensitivity ultrasound probe

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	Large 7-segment LED	7" TFT color LCD	
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









3T-200S



BT-200L / 200T



BT-200C



BT-220C



BT-220L

- · 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 prob

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	1.5V AA battery x 2			100~240V / rechargeable			
Rechargeable Battery				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

Infant Incubator





Air / Skin temperature Humidity Servo control



MASIMO SpO2 & CCD Camera & External Monitor (Option)



Mattress tilt



Built-in x-ray tray

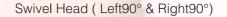
Specifications	BT500	
Display	7" TFT color LCD	
Dimension / Weight	1,024mm(W) x 690mm(D) x 1,354mm(H) / 99.3kg	
Air / Skin Temperature Control Range	23.0 ~ 37.0 °C ±0.5 °C / 35 ~ 37.5 °C ±0.5 °C (override < 39.0 °C)	
Humidity Control / Measurement Range	40 ~ 95%±5% RH / 15 ~ 99%±5% RH	
Humidity Control 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	

Infant Warmer

BT-550









LED Examination Lamp



Heat Source



Tilting (option)
(15°±2° to backward or forward)



7 inch TFT LCD Display



Tripod water level



Both sides Drawers (option)



Three sides open protective barriers



Lifting Stand (option)

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℃±0.5℃ / 34 ~ 38℃±0.5℃	
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	

Phototherapy



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

BT-200 (Hi-dop) Vascular Doppler





- · 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)

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



- · 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

BT-410A BT-410F

Specification	ons	BT410A	BT410F	
Mode		Adjustable focus	Fixed focus	
IIIuminatio	on	30,000lx / 50,000lx (Astral) 15,000 ~ 30,000lx (Adjustable		
LED Life Ti	me	50,000 hours		
Color Temperature		6,000 Kelvin		
	Operating Time	4 ho	urs	
Battery Module	Recharge	800 ti	mes	
	Output	3.7	V	
Charren	Input	AC 100 ~ 240 V (50/60Hz)		
Charger	Charging Time	4 hours		
Options		X 3.5 Loupe, Battery module, Astral lamp (BT-410A)		

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)



Hi bebe plus

Electric Breast Pump : BT-100





BT-750

Multi-parameter Patient Monitor



- · 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)



Memory customized expression sequence



Vacuum control in 10 levels



Auto switch off after 30 minutes



Sufficient vacuum for dual expression



Backflow prevention



Rechargeable battery (2.5hour operation)



Convenient and graceful design



3 operating mode (express, massage, memory



Operating time display



Silent

	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	
ТИБР	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	
LCG	Sweep Speed	-	12.5, 25, 50 mm/s	
Deen	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	

Specifications	BT100 Hello Mom	
Type of Pump	Personal Use (Dual Express)	
Adjustable Speed / Vacuum	Yes	
Size / Weight	110(H) x 70(W) x 45(D) mm / 370g	
Boot up & Shut down Time	< 1sec	
Pumping Session	Timer & Memory	
Automatic Turn Off	30minutes	
Backflow Prevention	Yes	
Memory Function	Yes	
Vacuum Pressure	270mmHg	
Expression Pressure Variation	10 steps	
Massage Pressure Variation	10 steps	

BIO SIGNAL TOTAL SOLUTION

* All specifications are subject to change without notice.

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 E-mail: sales@bistos.co.kr www.bistos.co.kr





EC CERTIFICATE Full Quality Assurance System

Certificate No.: 243269-2017-CE-KOR-NA-PS Rev. 5.0

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

Place and date: Høvik, 30th April 2021

Check Validity

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



Hazem Tinawi Technical Reviewer



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) 0.0 following transfer of Notified Body functions to DNV GL Nemko Presafe AS (NB 2460)	
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)	
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)	30 th April 2021

Products covered by this Certificate:

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



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

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





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





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: 2020-03-23 Valid until: 2022-12-31

Date. 2020-03-23 **Christoph Dicks**

Head of Certification/Notified Body

LL





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





Product Service

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:
 2021-05-21

 Valid until:
 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. 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

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



Eugenie Winger Husebye

Technical Reviewer



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	IIb
Patient Monitor	 BT-720 BT-740 BT-770 BT-780 	IIb

The complete list of devices is filed with the Notified Body



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





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
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- 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



NORWEGIAN ACCREDITATION For the issuing office: DNV Product Assurance AS

Tone Elise Kolpus Lead Auditor

MSYS 018

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



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.