

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,





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)
5 to 70 cmH ₂ O		(SIMV-VC/PC/VG,
(increments of 1		PS/CPAP, BIVENT and
cmH ₂ O)		APRV vent modes)
(PCV and SIMV-PC		
vent modes)	Esens	5 to 70%
		(increments of 5%)
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
4:1 to 1:8		vent modes)
(increments of 0.5)		
(IPPV, PCV and PCV-	P _{LOW}	3 to 50 cmH ₂ O
VG vent modes)		(increments of 1
		cmH ₂ O)
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
OFF, 5% to 60%		vent modes)
(increments of 5%)		
(IPPV and SIMV-VC	T_{LOW}	0.2s to 30s
vent modes)		(increments of 0.1s)
		(BIVENT and APRV
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)
	PS/CPAP, BIVENT and APRV vent modes) 5 to 70 cmH ₂ O (increments of 1 cmH ₂ O) (PCV and SIMV-PC vent modes) 2 to 100 breaths per minute(SIMV-VC, SIMV-PC and SIMV- VG vent modes) 2 to 60 breaths per minute for Freq _{MIN} in PS/CPAP vent modes. 4 to 100 breaths per minute(Other mode) (increments of 1 breath per minute) 4:1 to 1:8 (increments of 0.5) (IPPV, PCV and PCV- VG vent modes) 0.2 to 5 seconds (increments of 0.1 seconds) (SIMV-VC/PC/VG vent modes) OFF, 5% to 60% (increments of 5%) (IPPV and SIMV-VC vent modes) 0.5 L/min to 15L/min (increments of 1L/min) (SIMV-VC/PC/VG, PS/CPAP, BIVENT and	PS/CPAP, BIVENT and APRV vent modes) 5 to 70 cmH ₂ O (increments of 1 cmH ₂ O) (PCV and SIMV-PC vent modes) 2 to 100 breaths per minute(SIMV-VC, SIMV-PC and SIMV-VC, SIMV-PC and SIMV-VG vent modes) 2 to 60 breaths per minute for Freq _{MIN} in PS/CPAP vent modes. 4 to 100 breaths per minute(Other mode) (increments of 1 breath per minute) 4:1 to 1:8 (increments of 0.5) (IPPV, PCV and PCV-VG vent modes) 0.2 to 5 seconds (increments of 0.1 seconds) (SIMV-VC/PC/VG THIGH vent modes) OFF, 5% to 60% (increments of 5%) (IPPV and SIMV-VC TLOW vent modes) 0.5 L/min to 15L/min (increments of 1 L/min) (SIMV-VC/PC/VG, TSLOPE (Inspiratory SIOPE Time)



Technical Specifications

Aeon8800A Anaes	thesia Machine		
	(PCV,PCV-VG,		minute
	SIMV-VC/PC/VG,		
PS/CPAP, BIVENT and APRV vent		PAW	-20cmH ₂ O to
			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 Continuous trend information together with time	
			· ·
Peak pressure(Ppeak)	-20cmH₂O to	discrete events are stored and shown in the table, including P _{peak} , P _{plat} , P _{mean} , PEEP, Freq,	
	99cmH₂O	• ,	·
			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})	-20cmH ₂ O 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 information are stored and			
shown in the chart, including 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 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 ren	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. P	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

Display type Color active matrix

Ventilator Screen

TFT

Touch screen

1024×768

15 inches diagonal

Sustained airway

pressure

Mechanical ventilation

ON:

Paw>PEEP add 10 cm Display size

H₂O measured over

15 seconds Pixel format

Continuously

Mechanical ventilation

OFF: Color LVDS 24 bit,

Paw>10 cm H₂O 16777216 colors

measured over 15

seconds Continuously Display parameters All setting and alarm

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

Subatmospheric pressure

Alarm silence

Туре

Location

Life Cycle

120 to 0 seconds

Installed in breathing

Paw < -2 cm H₂O

countdown timer:

MEAN, PLAT, FiO₂, DP,SI,VTI,VTE,I:E,

T_{SLOPE}, PEAK,

Rsys, Csys VO2,CO2-T

Ventilator components

Display graphics Wave of P-T, F-T, V-Flow transducer

> T, CO2-T(option), Mass type Paw-V Loop, V-Flow Measure mass flow in

bypass application Loop, Paw -Flow

Loop

system Communication ports RS-232C compatible

serial interface(DB 9

Oxygen Sensor connector);

Galvanic fuel cell Type1 RJ45 connector 100-

Base-TX support HL7

Life Cycle proximately 12 months communication

> (Dependent on usage) license:

USB 2.0 interface

Type2 Paramagnetic oxygen

8 years

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ACOHOGOGA AHACS	urcsia macriire		
Intograted safety fu	netions	Agent setting range	Sevoflurance: :
Integrated safety functions			
In case of electricity and battery failure, manual ventilation, gas delivery 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



Technical Specifications

condensing) (9	95 %RH	Infant.
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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

CO₂: 0-15 vol%

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

20 sec Carbon Dioxide (CO₂) Moudle

IRMA CO₂/ISA CO₂: < (IRMA/ISA CO₂)

10 sec Monitor Gas CO₂

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

CO₂≤90ms

N₂O≤300ms Accuracy 0-15 vol%

HAL, ISO, ENF, SEV,

± (0.2 vol% + 2 % of DES≤300ms ± (0.2 vol% + 2 % of reading)

TSA 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

Measurement range

SEV, DES ≤400ms F;SEV;DES

HAL ≤500ms

ISA sampling flow rate 50 ± 10 ml/min N_2O : 0-100 vol%

HAL, ISO, ENF: 0-8

Breath detect Adaptive threshold, vol%

minimum 1 % CO₂ 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 \pm (0.2 vol% + 2 % of

atmospheric pressure, reading)

temperature and

spectral interference N₂O

 $\pm (2 \text{ vol\%} + 2 \text{ \% of }$

Airway adapters reading)

IRMA Airway Adapter 6 ml dead space

Adult/Paediatric HAL, ISO, ENF

±(0.15 vol% + 5 % of

IRMA Airway Adapter 1 ml dead space reading)



Technical Specifications

SEV

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

reading)

DES

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

reading)

sealed lead acid 24VDC,5.0AH

Internal rechargeable

Backup power

Battery type

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

or standby status

plug);

mode)

Response Time (T10

-T90) dependent on

application and filter selection (biological

filter on request)

8 to 20 seconds

Power code

Maximum output valve

5m/16.4ft

1.5A(single

Outlets

4 outlets on back

of auxiliary AC power 6A(in total)

plug

Operation 5 °C to 50 °C (41°F

Temperature to 122°F)

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

to 158°F)

Storage Pressure 10kPa-

200kPa(1.5psi-30psi)

Pneumatic specifications

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 specifications Gas supply

Power and battery backup

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

Max. ≤8A

Gas type O₂,N₂O,Air

280 kPa to 600 kPa/41 Pipeline input range

psi to 87 psi

NIST/DISS Pipeline connections

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N₂O ranges

Total Flow

Range

Aeon8800A Anaesthesia Machine

kPa

0 to 10 L/min

Control Total flow range: 0.2

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

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

Ports and connectors

Integrated safety functions

Guarantees a minimum O₂ concentration of 25% Pressure gauge

in an O₂/N₂O mixture. Scale range -20 to 100 cm H₂0 N₂O cut-off if O₂ pressure is less than 200kPa

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

Integrated Adjustable Pressure Limiting

400kPa (APL) valve Pressure

1-15L/min



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

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.

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	
- Incaparonioni rango	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		
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	
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		

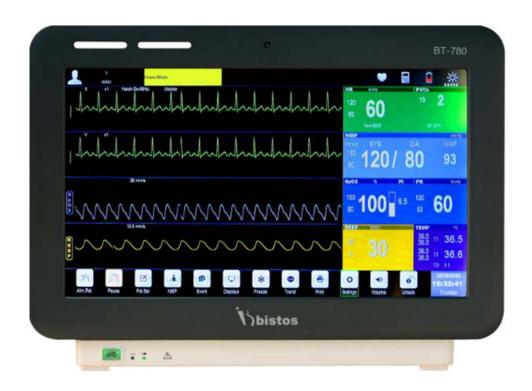
Proceure measurement accuracy	+2 mmHa ar+30/ whichover is greater		
Pressure measurement accuracy	±3 mmHg or±2%, whichever is greater		
Pressure resolution	1 mmHg 35 ~ 250 bpm		
PR measurement assurance			
PR measurement accuracy PR resolution	±3bpm 1bpm		
	5μV/V/mmHg		
Transducer sensitivity Transducer resistance range	· · · · · · · · · · · · · · · · · · ·		
Supply voltage	300-3,000Ω +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)		
O2 compensation	Standby, measure 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			
Measurement range	C.O. : 0.2 ~ 20 L/min BT : 23 ~ 45°C±0.5 °C		
incasarement range	B1: 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	



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 Type		3/5 lead
	Gain Selection Sweep Speed (mm/s) Bandwidth : Diagnostic Mode		x0.125, x0.25, x0.5, x1, x2, x4, auto
			12.5, 25, 50
			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 (mmHg)	Pediatric	30-230
		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
			Masimo ISA / Bistos
CO ₂ *	Method Range		Masimo IRMA / Bistos
	Multi-gas/0 ₂ *		Masimo ISA
	Sp0 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
			4 hour
	Charging Time PC Software Interface		RJ45, USB, Nursing call
	Warranty		2 year
		2 yeai	







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. 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) 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)	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 	lla
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







Product Service

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



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.