

AnyView A8/A5

Modular Patient Monitor



Size and Weight

Size	A8: 434×389×206mm
	A5: 350×340×207mm
Weight	A8≤11kg
	A5≤8kg

Power

Standard According to IEC 60601-1 and IEC 60601-1-2	
Input voltage	100V-240V AC
Frequency	50Hz/60Hz
Earth leakage current	<0.3 mA
Input current	1.7A -0.8A
Fuse	A8: T 2.5A/250V,
	A5: T 2A/250V

Display

Type	Color TFT LCD
Size(diagonal)	A8: 17 inch
	A5: 12.1 inch
Resolution	A8: 1280×1024 pixels
	A5 800×600 pixels

External display

Type	Medical-Grade TFT display
Size	≥15inch
Resolution	A8: 1024×768 pixels
	A5: 800×600 pixels

Recorder

Type	Thermal dot array
Horizontal resolution	16 dots/mm(at 25 mm/s paper speed)
Vertical resolution	8 dots/mm
Paper width	50 mm
Paper length	15 m
Recording speed	12.5 mm/s, 25 mm/s, 50 mm/s
Recording waveform	Maximum 3 tracks
Recording way	Real-time / periodic / alarm recording

Battery

Type	Rechargeable lithium ion battery 11.1V/4Ah
Operating time	A8: ≥60 minutes
	A5: ≥150 minutes
(1 new and fully charged battery at 25°C temperature, connecting SpO2 sensor & NIBP work on AUTO mode for 15 minutes interval)	
Charge time	6h to 100%(Standby)

Data Storage

Alarm event	128 groups and associated waveform
Trend	168h, minimum resolution is 1min
	2h, minimum resolution is 5s
ARR event	128 groups and associated waveform
NIBP	1000 groups

Interfacing & I/O devices

Keyboard & Mouse	Support
Barcode Scanner	Support 1D barcode (USB connector)
Touch screen	Option
Wired network	1 standard RJ45 interfaces
Wireless network	2.4G / 5G dual band (Option)
USB socket	A8: 6 sockets
	A5: 4 sockets
Video output	1 VGA (A8: standard; A5: option)
	1 DVI-D (only for A8)
Nurse call	1 RJ11 connector
Analog signal output	Option.
Defibrillation synchronization	1 BNC connector

Environmental requirements

Operating temperature	5°C to +40°C
Operating humidity	15% to 85%(non condensing)
Operating air pressure	700hPa to 1060hPa
Storage temperature	-20°C to +55°C
Storage humidity	10% to 93%(non condensing)
Storage air pressure	500hPa to 1060hPa

ECG

Lead	3 lead: I, II, III
	5 lead: I, II, III, aVR, aVL, aVF, Vx
	12 lead: I, II, III, aVR, aVL, aVF, V1-V6
Lead standard	AHA, IEC
Gain	x 0.125, x 0.25, x 0.5, x 1, x 2, x 4, Auto.
CMRR	Diagnostic mode ≥ 90 dB
	Monitor mode ≥ 105 dB
	Surgery mode ≥ 105 dB
Bandwidth (-3dB)	Diagnostic mode: 0.05 Hz to 150 Hz
	Monitor mode: 0.5 Hz to 40 Hz
	Surgery mode: 1 Hz to 25Hz
Input impedance	≥ 5.0 MΩ
ECG signal range	± 10.0 mV
Electrode offset potential ± 500 Mv	
Patient leakage current < 10 uA	
System noise	≤ 30 μVpp (RTI)
Standardizing signal	1 mV ± 5%
Baseline recovery	Monitor mode: ≤ 3 s; Surgery mode: ≤ 1 s
Recovery time after defibrillation: waveform recover to baseline in 10s.	
Sweep speed	6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s

ST segment

Measurement Channels	Calculating I, II, V- lead etc. at the same time
Default	II lead
Measurement range	-2.0 mV to +2.0 mV
Accuracy	-0.8 mV to +0.8 mV: ±0.02 mV or ±10%,
	(whichever is greater)
	Over ±0.8mV: unspecified
Resolution	0.01mV

Heart Rate

Measurement range	Adult	10 bpm to 300 bpm
	Pediatric & Neonatal	10 bpm to 350 bpm
Resolution	1 bpm	
Accuracy	±1% or ±1 bpm, whichever is greater	

Arrhythmia analysis

Kinds ASYSTOLE, VENT FIB/TACH, PAC, RUN PVCs, COUPLET, BIGEMINY, TRIGEMINY, R on T, TACHY, BRADY, MISSED BEATS, MULRI PACS, PNP, PNC, NOISE, VPB, ST HIGH, ST LOW, VTACH, PVCs HIGH.

Respiration

Lead	Selected from: I (RA-LA) or II (RA-LL)	
Measurement range	0 rpm to 150 rpm	
Accuracy	±2 rpm or ±2% , whichever is the greater	
Sweep speed	6.25mm/s, 12.5mm/s, 25mm/s	
Delay of apnea alarm	10/15/20/25/30/35/40/45/50/55/60s	

NIBP

Standard EN 60601-2-30, EN 1060-1, EN1060-3, EN 1060-4, SP10

Measurement way Automatic oscillometry

Measurement mode Manual , Auto, STAT

Intervals for Auto measurement: 1/2/3/4/5/10/15/30/60/90min, 2/4/8/12h.

STAT mode cycle time Keep 5 minutes, at 5 seconds interval.

Systolic range	Adult	30 to 270 mmHg
	Pediatric	30 to 235 mmHg
	Neonatal	30 to 135 mmHg
Diastolic range	Adult	10 to 220 mmHg
	Pediatric	10 to 220 mmHg
	Neonatal	10 to 100 mmHg
Mean range	Adult	20 to 235 mmHg
	Pediatric	20 to 235 mmHg
	Neonatal	20 to 125 mmHg
Cuff pressure range	0 to 300 mmHg	
Resolution	1 mmHg	
Pressure accuracy	Static: ±3 mmHg	
	Clinic: Average error ±5 mmHg, standard deviation: ≤8 mmHg	
PR range	40 bpm to 240 bpm	
Measurement time:	20s to 45s (depend on HR & moving interference)	
Software overpressure protection	Adult	(297±3) mmHg
	Pediatric	(252±3) mmHg
	Neonatal	(147±3) mmHg

SunTech NIBP (option)

Way of measurement	Oscillometric.		
Measurement range	Adult	SYS	40~260 mmHg
		DIA	20~200 mmHg
		MAP	26~220 mmHg
Child	Pediatric	SYS	40~160 mmHg
		DIA	20~120 mmHg
		MAP	26~133 mmHg
Neonate SYS	Neonatal	SYS	40~130 mmHg
		DIA	20~100 mmHg
		MAP	26~110mmHg
Pressure Accuracy	± 3 mmHg (± 0.4 kPa) or 2 % of the reading		
Pulse rate range	30 ~ 220 bpm		
Pulse Rate Accuracy	2% or 3 bpm, whichever is greater		
Overpressure Protect (Hardware & software)	Adult	<300 mmHg	
	Child	<300 mmHg	
	Neonatal	<150 mmHg	

BLT Digital SpO2

Measurement range	0% ~ 100%
Resolution	1%
Accuracy	70% ~ 100% ±2%
	0% ~ 69% unspecified

PR

Measurement range	25 bpm to 254 bpm
Resolution	1 bpm
Accuracy	±1% or ±1 bpm, whichever is the greater

Nellcor SpO2 (option)

Measurement range	0% to 100%
Resolution	0.01
Accuracy	70% to 100%: ±2%(adult/pediatric)
	70% to 100%: ±3%(neonate)
	0% to 69%, unspecified

PR

Measurement range	20 bpm to 300 bpm
Accuracy	20 bpm to 250 bpm: ±3 bpm
	251 bpm to 300 bpm: unspecified
Resolution	1 bpm

Masimo SpO2 (option)

Measurement range	0% to 100%
Resolution	0.01
Accuracy	70% to 100% ±2% (adult/pediatric, non-motion)
	70% to 100% ±3% (neonate, non-motion)
	70% to 100% ±3%(motion conditions)
	0% to 69% unspecified

PR

Measurement range	25 bpm to 240 bpm
Accuracy	±3 bpm(non-motion conditions)
	±5 bpm(motion conditions)
Resolution	1 bpm

SpCO

Measurement range	0% to 100%
Accuracy	0% to 40%: ±3%(non-motion conditions)
	> 40%, unspecified

SpMet

Measurement range	0% to 100%
Accuracy	0% to 15% ±1%(non-motion conditions)
	> 15% unspecified

PI

Measurement range	0.05% to 20%
-------------------	--------------

SpHb

Measurement range	0 g/dl to 25 g/dl
Accuracy	8g/dl to 17g/dl: ±1g/dl (non-motion conditions)
	< 8 g/dl or > 17 g/dl, unspecified

SpOC

Measurement range	0 ml/dl to 35 ml/dl
-------------------	---------------------

Temperature

Standard	EN 12470-4		
Measurement way	Thermal resistance way		
Measurement range	0.0°C to 50.0°C(32°F to 122°F)		
Accuracy	±0.1°C or ±1°F (exclusive of probe)		
Resolution	0.1°C or 1°F		
Unit	°C or °F		
Minimum accurate measuring time	Surface	<100s;	
	Coelom	<80s.	

IBP (option)

Standard	EN 60601-2-34 / IEC 60601-2-34
Sensitivity of transducer	5uV/V/ mmHg, $\pm 2\%$
Impedance of transducer	300 Ω to 3000 Ω
Static measurement range	-50 mmHg to +350 mmHg
Static measurement accuracy	± 1 mmHg or $\pm 2\%$ of the reading, whichever is the greater (exclusive of transducer) ± 4 mmHg or $\pm 4\%$ of the reading, whichever is the greater (inclusion of transducer)
Dynamic measurement range	-50 mmHg to +350mmHg
Dynamic measurement accuracy	± 4 mmHg or $\pm 4\%$ of the reading whichever is the greater
Resolution	1 mmHg
Unit	mmHg, kPa, cmH2O
Frequency Response	0 Hz to 20 Hz
Kinds of Measurement	ART, PA, CVP, RAP, LAP, ICP, P1/P2

Sidestream CO2 (option)

Measurement range	0.0 % to 13.1 % (0 mmHg to 99.6 mmHg)
Resolution	0.1% or 1mmHg
Unit	%, mmHg, kPa
Accuracy	0% to 4.9% ± 0.3 % (± 2.0 mmHg) 5.0% to 13.1% $< \pm 10$ % of the reading
Measurement range of awRR:	3 rpm to 150 rpm
Warm up time	Reach 97% of full specifications within 45s and full specifications within 10 minutes.
Sample Flow Rate	User adjustable, 50/100/150/200/250ml/min

Mainstream CO2 (option)

Warm up time	Capnogram displayed in less than 15s, at ambient temperature 25°C, full specifications within 2min.
Measurement range	0% to 19.7 % (0 mmHg to 150 mmHg)
Resolution	0.1% or 1mmHg
Rise time	< 60 ms
Unit	%, mmHg, kPa
Accuracy	0 mmHg to 40 mmHg, ± 2 mmHg 41 mmHg to 70 mmHg, $\pm 5\%$ of reading 71 mmHg to 100 mmHg, $\pm 8\%$ of reading 101 mmHg to 150 mmHg, $\pm 10\%$ of reading
awRR range	0 rpm to 150 rpm
awRR accuracy	± 1 rpm

MicroFlow CO2 (option)

Warm up time	Capnogram displayed in less than 20s, At ambient temperature 25°C, full specifications within 2min.
Measurement range	0% to 19.7 % (0 mmHg to 150 mmHg)
Resolution	0.1% or 1 mmHg
Unit	%, mmHg, kPa
Accuracy	0 mmHg to 40 mmHg, ± 2 mmHg 41 mmHg to 70 mmHg, $\pm 5\%$ of reading 71 mmHg to 100 mmHg, $\pm 8\%$ of reading 101 mmHg to 150 mmHg, $\pm 10\%$ of reading
awRR range	2 rpm to 150 rpm
awRR accuracy	± 1 rpm
Sample flow rate	50 ml/min ± 10 ml/min

Mainstream AG (option)

Parameters	CO2, N2O, agent(ISO, ENF, SEV, HAL, DES)
Resolution	1%

Calibration	Zeroing recommend when chang airway adapter.
Warm up time	Concentration are reported & automatic agent identification running in 10s, full accuracy in 20s.
Rise time	CO2 ≤ 90 ms N2O ≤ 300 ms ISO, ENF, SEV, HAL, DES ≤ 300 ms (Flowing speed 10L/min)
System response time	< 1 s
Measurement range and accuracy of gas	
Gas	Range (%) Accuracy
CO2	0 to 15% $\pm (0.2\% + 2\%$ of reading)
N2O	0 to 100% $\pm (2\% + 2\%$ of reading)
ISO, ENF, HAL	0 to 8% $\pm (0.15\% + 5\%$ of reading)
SEV	0 to 10% $\pm (0.15\% + 5\%$ of reading)
DES	0 to 22% $\pm (0.15\% + 5\%$ of reading)
awRR range	0 rpm to 150 rpm
awRR accuracy	± 1 rpm

Sidestream AG (option)

Sampling flow rate	50ml/min ± 10 ml/min
Parameters	CO2, N2O, O2, agent (ISO, ENF, SEV, HAL, DES)
Compensations	Automatic compensation for pressure, temperature & broadening effects on CO2.
Calibration	No span calibration is required for the IR bench. An automatic zero reference calibration is performed at startup & then 1~3 times perday.
Warm-up time	< 20 s (Concentrations reported, automatic agent identification enabled and full accuracy)
Typical rise time	CO2 ≤ 300 ms N2O, O2, ISO, ENF, SEV, DES ≤ 400 ms HAL ≤ 500 ms (at 50ml/min sample flow)
System response time	< 3 s (with 2m sampling line)
Primary agent threshold	0.15%. When an agent is identified, concentrations will be reported below 0.15%.
Second agent threshold	0.2 % $+ 10\%$ of total agent concentration
Agent identification time	< 20 s (typically < 10 s)
Measurement range and accuracy of gas:	
Gas	Range (%) Accuracy
CO2	0 to 15% $\pm (0.2\% + 2\%$ of reading)
N2O	0 to 100% $\pm (2\% + 2\%$ of reading)
HAL, ENF, ISO	0 to 8% $\pm (0.15\% + 5\%$ of reading)
SEV	0 to 10% $\pm (0.15\% + 5\%$ of reading)
DES	0 to 22% $\pm (0.15\% + 5\%$ of reading)
O2	0 to 100% $\pm (1\% + 2\%$ of reading)
awRR range	0 rpm to 150 rpm
awRR accuracy	± 1 rpm

ICG (option)

Measurement way	Thoracic electrical bioimpedance
Measurement range	HR: 40 bpm to 250 bpm SV: 0 mL to 250 mL SI: 0 mL/m2 to 125 mL/m2 C.O. : 0 L/min to 30 L/min TFC: 5 /k Ω to 150 /k Ω
Accuracy	HR: $\pm 10\%$ SV: $\pm 15\%$ C.O. : $\pm 15\%$

Recovery time after defibrillation: ICG module is protected against cardiac defibrillations & will return to the standard operation in 10s after discharge.

BIS (option)

Measurement Index	Bispectral index (BIS), myoelectric activity (EMG), signal quality index (SQI), suppression ratio (SR), break count (BC), total power (TP), spectral edge frequency (SEF)
-------------------	---

Parameter measurement range

BIS range	0~100;
EMG range	30~55dB (bar chart) with intensity between 30 dB and 80 dB (tendency chart);
SQI / SR range	0%~100%
SEF range	0.5~30Hz
TP range	40~100dB
BC range	0~30 (only limited to the combined use of an external sensor with a BIS module).

EEG measurement specifications

Input impedance	> 5M Ω
Noise(RTI)	< 2 μ v (0.25~50Hz)
Input signal range	$\pm$ 1mV
EEG bandwidth between 0.25 Hz and 110Hz.	

RM (option)

Flow range	Adult	1.5 to 100 L/min
	Paediatric	0.25 to 25 L/min
MVe/MVi range	Adult	1.5 to 100 L/min
	Paediatric	0.5 to 5 L/min
TVe/TVi range	Adult	150 to 2000 ml
	Paediatric	15 to 300 ml
TVe/TVi accuracy	Adult:	$\pm$ 6% or $\pm$ 30 ml, whichever is greater.
	Paediatric	$\pm$ 6% or $\pm$ 4 ml, whichever is greater
awRR range	Adult	4 to 35 rpm
	Paediatric	4 to 50 rpm
PAW range	Adult/Paediatric	-20 to 100 cmH2O
PAW accuracy		$\pm$ 1 cmH2O
Loops display		Support

EEG (Option)

Sampling frequency	250 dots/s/ channel
Signal input Range	$\pm$ 500 μ V
Polarization resistance voltage	$\pm$ 320mV
Input impedance	$\geq$ 15M Ω (using10Hz sine wave to test)
Frequency range	0.5~30Hz(default), can expand to0.25~110Hz
Noise level	3.0 μ Vp-p(0.5~30Hz)
CMRR	>80dB (close the power frequency filter, using 10Hz sine wave to test) >105dB (open the power frequency filter,using 50Hz sine wave to test)
Leakage current	$\leq$ 10 μ A(using100V AC signal to test)
Input protection	4 kV (defibrillation-proof)

Option Module:

2-IBP module, 2-Temp module, Nellcor SpO2 module, Masimo SpO2 Module, RM module, Sidestream CO2 module, MicroFlow CO2 module, Mainstream CO2 module, Mainstream / Sidestream AG module, Suntech NIBP module, ICG module, C.O. module, EEG module, BIS module.

Other option:

Thermal Printer, Rolling stand, Wall mount, External Display, Wireless Lan (Wifi), Analog Output (ECG or IBP), Touch Screen.

C.O. (option)

Measurement Mode	Thermal dilution method
Measurement Wave	Thermal dilution curve
Parameters	C.O., TB, TI,
Measurement Range	C.O.: 0.1 L/min ~ 20 L/min TB: 23.0 ~ 43.0 $^{\circ}$ C TI: -1.0 ~ 27.0 $^{\circ}$ C
Resolution	C.O.: 0.1 L/min TB: 0.1 $^{\circ}$ C TI: 0.1 $^{\circ}$ C
Accuracy	C.O.: 2% SD TB, TI: $\pm$ 0.1 $^{\circ}$ C

Emergency Mobile Sever (EMS)

Size and weight

Size	160mm $\times$ 99mm $\times$ 71mm
Weight	< 0.6 kg

Display

Screen	3.5 inch, TFT LCD, 320 $\times$ 240 pixels
Waveform	Up to 12 tracks

Battery

Type	Rechargeable lithium ion battery
Model	LB-02B
Size	62.5mm $\times$ 40.5mm $\times$ 11.5mm
Weight	< 50g
Quantity	1
Rated voltage	3.7 VDC
Capability	1800 mAh
Operating time	>60 minutes(New & fully charged battery at 25 $^{\circ}$ C without connect ECG, Temp, IBP, connect SpO2 sensor, NIBP on AUTO mode for 15min interval.
Charging time	Standby state: $\leq$ 6 h
Turn off delay	5 to 10min after the low battery alarm first occurs.

EMS configuration

Standard config	2-TEMP+ NIBP + Adult accessory kit + battery
EMS 1	Standard + BLT SpO2 + 3/5 lead ECG + 2-IBP
EMS 2	Standard + BLT SpO2 + 12 lead ECG + 2-IBP
EMS 3	Standard + BLT SpO2 + 3/5 lead ECG
EMS 4	Standard + BLT SpO2 + 12 lead ECG
EMS 5	Standard + Nellcor SpO2+3/5 lead ECG+2-IBP
EMS 6	Standard + Nellcor SpO2+12 lead ECG+2-IBP
EMS 7	Standard + Nellcor SpO2 + 3/5 lead ECG
EMS 8	Standard + Nellcor SpO2 + 12 lead ECG
EMS 9	Standard + Masimo SpO2+3/5 lead ECG+2-IBP
EMS 10	Standard + Masimo SpO2+12 lead ECG+2-IBP
EMS 11	Standard + Masimo SpO2+ 3/5 lead ECG
EMS 12	Standard + Masimo SpO2+ 12 lead ECG



*Specifications subject to change without prior notice.

Add: No.2 Innovation First Road, Technical Innovation Coast, Hi-tech Zone, Zhuhai, P.R.China
Tel: +86-756-3399935 3399999 Fax: +86-756-3399911
E-Mail: Overseas@blt.com.cn Post code: 519085
Http://www.blt.com.cn

A5A8/S-1808-eng-V1; Date: Aug. 2018

