





## BeneVision N22/N19

Patient monito

Always in sight, always in mind







www.mindray.com

P/N: ENG-BeneVision N22/N19-210285x14Px20190129

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# BeneVision. Change your perspective, again.

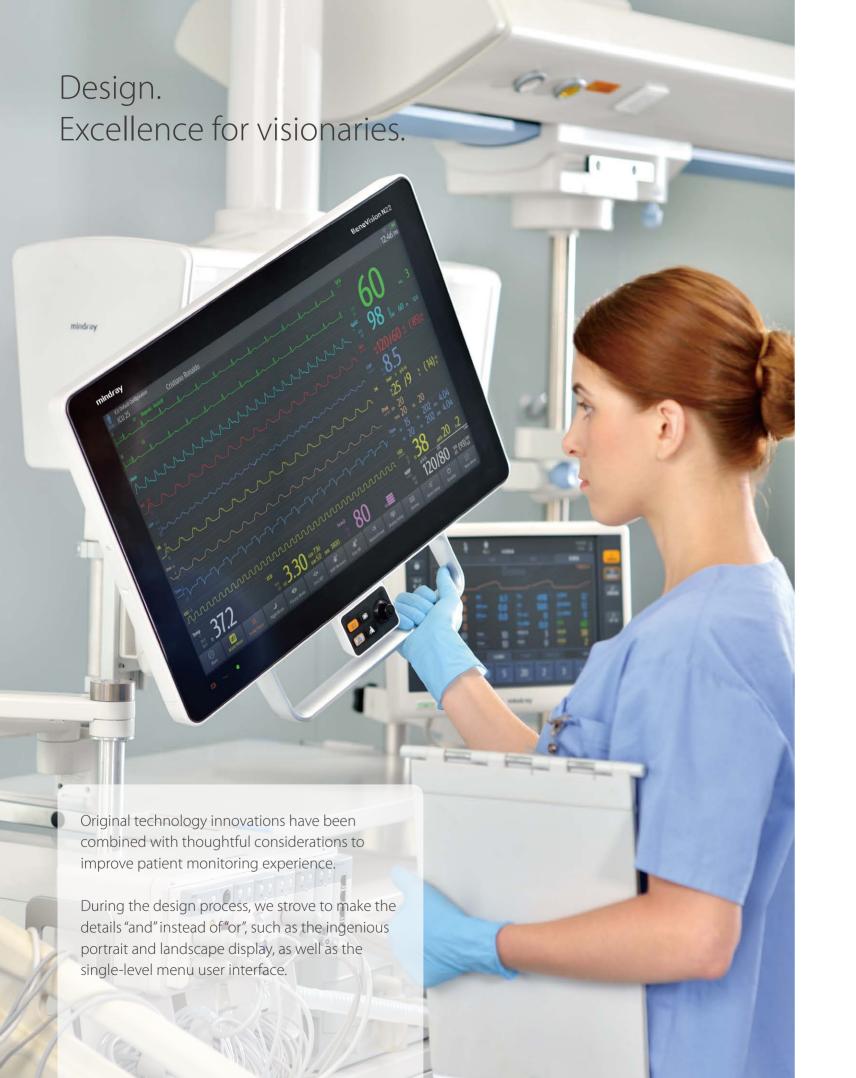
## BeneVision N22/N19

At Mindray, we believe the best way to predict the future is to create it today. We're thinking how to help you save your time in order to treat more patients effectively. We also focus on clinical safety, and efficiency. Now for the first time in the world, the BeneVision patient monitor ROTATES between landscape and portrait. You have both higher and wider clinical views when patient care demands them.















## Modular design brings so many options.

- Parameter modularity allows you flexibility in patient care and makes the most of your equipment investment.
- iView module combines a powerful, embedded PC and the patient monitor in the same unit. The innovative design optimizes cooling without the need for a fan.
- Ultra-compact main unit and big screen can be used as a combined unit or separated to make use of the rotating screen feature.









# Innovative. Maximize your confidence.

Everyday, Mindray delivers accurate, real-time, physiological measurement data from millions of patients worldwide, which clinicians have come to rely on when making decisions. BeneVision provides the worlds best monitoring technologies for you and promotes new ones continuously.



#### Cardiology

 $\Delta$ ST monitoring and ST segment templates. Real-time QT/QTc measurement. Glasgow 12-lead resting interpretation.



#### Hemodynamics and volumetric

Less-invasive PiCCO and ScvO<sub>2</sub> monitoring. Non-invasive cardiac output with ICG module.



## Airway gas and lung mechanics

One-slot CO<sub>2</sub>+O<sub>2</sub> module Volumetric CO<sub>2</sub> and metabolic measurements AION Multi-Gas +SPIRIT respiratory mechanics



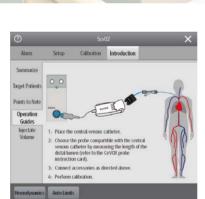
## Tissue perfusion

INVOS rSO<sub>2</sub> provides a noninvasive and continuous reading of changes in regional oxygen saturation of blood in tissue microvascular circulation.



#### Neurology

EEG, and BIS/BISx4 monitoring. Advanced NMT monitoring technology can detect movement in all directions accurately.



#### Online Guide

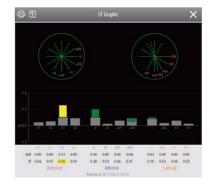
			Hem	oSigh	t				×
Diagnosis		Test	t	F	ollow-u	р	Ev	raluati	on
All	Time 2013-12-18 1 CJ 25 Umint Parameter			×30					
Physiology Screen	GEDI 699 mijm2 4 700 Orff88 700 mijm2 4 <b>850</b>			+ 700 + 850		4 700 4 850		> 700 > 850	
Physio	ELWI 18 mi/kg	(10	>10	(10	10	110	110	-10	110
Relationship		165	VH?	327	9+7 Cst7	997	117 Cut	397	V+7.
Decision	Goal		1						
Model	GEDI	1700	700-800	+700	700 800	+700	700 800	+700	700-80
	OrffBI	1 850	850-1000	1 850	850-1000	1 850	E50-1000	1 650	550-10
	SW	(35	< 10	± 10	£ 10	130	130	+ 10	1.30
	GEF	125	+30	+25	> 30	125	> 90	125	+30
	OHOR	145	+45	+45	+45	145	145	+ 43	143
	ELWI		e410		w10		-w33		6420

HemoSiaht™ Help clinicians to make decisions through sets of hemodynamic assistance applications.

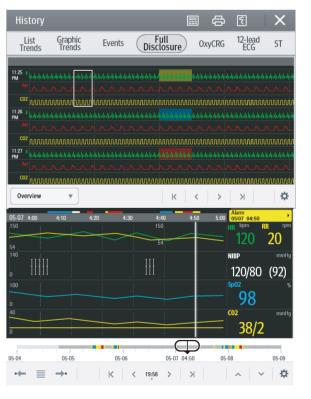


98 1 60

Infographic alarm



ST Graphic™ Quickly and accurately detect changes in ST values for analysis.



Comparison review Events summary and details ease contextual evaluation.



# Mobility. Streamlined.

Since the introduction of the world's first portable cardiac monitor in 1964, Mindray has committed itself to being the pioneer in early patient mobilization for better recovery. BeneVision extends the typical mobile monitoring solution with more wireless roaming, data continuity, and streamlined workflow in every situation. Combined with its patient-worn telemetry monitor, which is also a cableless measurement module, BeneVision ensures a supreme level of mobility and offers more freedom to both patient and caregiver.



BeneVision N22/N19 wirelessly pairs with its TM80 and BP10 patient-worn modules for cableless measurement at the bedside and beyond.



Ambulatory patients monitored around the bedside and beyond.



The Mindray classical transport monitoring solution with BeneVision N1 also works seamlessly with BeneVision for unmatched patient safety.



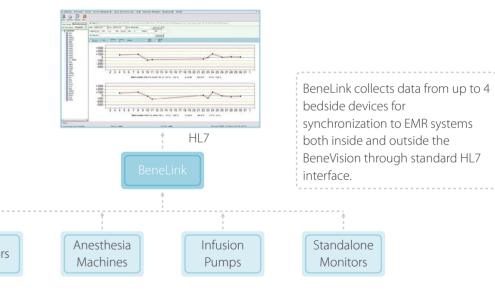
Mindray provides a flexible solution for monitoring your patient's status anywhere, anytime, even when you are away from the clinical environment...Based on layer 3 network structure, the Mindray patient monitoring system has a high network adaptability to integrate seamlessly with your hospital's current network.

With Mindray's central station and eGateway further connecting BeneVision with your clinical world, bedside device data and other clinical system data is shared to enhance your diagnosis and clinical decision making.





# BeneVision EMR(Electronic Medical Record)



iView can run your own clinical Apps (such as PACS, LIS, HIS/CIS, and EMR) on one intuitive view and connects with your hospital network infrastructure directly without any additional server or gateway.

With its 1680 x 1050 pixels 22-inch screen, BeneVision N22 has a perfect split layout in portrait display. No need to worry that the waveforms will be obstructed by the iView application window as you browse the patient's information.

#### **BeneVision N22/N19**

#### **Patient monitor**

**Physical Specifications** 

Including main unit with a battery, screen with Weight

handle & navigation knob, iView module, and

Wi-Fi module.

N22: 11.5 kg (25.4 lbs) N19: 10.3 kg (22.7 lbs)

Including main unit, screen with handle.

N22: 641 x 383 x 115 mm (portrait) 566 x 458 x 115 mm (landscape) N19: 584 x 348 x 115 mm (portrait) 509 x 423 x 115 mm (landscape)

Main unit: 268 x 268 x 68 mm

Display

Type Medical-grade color TFT LCD, capacitive touch

screen, support multi-touch operation. Rotatable screen (Landscape and portrait)

1680 x 1050 pixels Resolution

Screen

N22 22-inch, 178° viewing angle 19-inch, 170° viewing angle Waveforms Up to 16 waveforms (portrait) Up to 13 waveforms (landscape)

Meet standards of IEC 60601-2-27 and IEC 60601-2-25.

**Lead Sets** Automatic 3/5/6/12 - lead recognition

I, II, III 3-lead:

5-lead: I, II, III, aVR, aVL, aVF, V I, II, III, aVR, aVL, aVF, Va, Vb 6-lead: 12-lead: I, II, III, aVR, aVL, aVF, V1 to V6

Sweep Speed 6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s **Gain Selection** x 0.125, x 0.25, x 0.5, x 1, x 2, x 4, auto

Standard, Cabrera Waveform format **Input Signal Range** ± 8 mV (p-p) Electrode Offset Potential Tolerance ± 500 mV

**Bandwidth** 

Diagnostic Mode: 0.05 to 150 Hz Monitor Mode: 0.5 to 40 Hz **Surgical Mode:** 1 to 20 Hz ST Mode: 0.05 to 40 Hz

High Freq Cut-off (for 12-lead ECG analysis):

350 Hz, 150 Hz, 35 Hz, 20 Hz selectable

**CMRR** 

Diagnostic: > 90 dB Monitor, Surgical, ST mode:

> 105 dB (with notch filter on)

Pace detection

Amplitude: ± 2 mV to ± 700 mV

Width: 0.1 to 2 ms Rise time:

10 to 100 μs (without overshoot) **Defibrillator Protection** Withstand 5000VAC (360J) defibrillation

Defib. Recovery Time ≤ 5 seconds

ESU recovery time ≤ 10 s

Provides Glasgow resting 12-lead ECG algorithm.

Provides Mindray Multi(4)-lead ECG monitoring analysis algorithm. (\* These ECG specifications are from MPM Platinum module.)

**Heart Rate** 

**Measurement Range** 

Adult: 15 to 300 bpm Pediatric/Neonate: 15 to 350 bpm

Accuracy ± 1 bpm or ± 1%, whichever is greater.

Resolution

**Arrhythmia Analysis** 

Adult/Pediatric/Neonate. **Patient** 

**Monitored Arrhythmias** Asystole, VFib/VTac, VTac, Vent. Brady, Extreme

Tachy, Extreme Brady, Vrhythm, PVCs/min, Pauses/min, Couplet, Bigeminy, Trigeminy, R on T, Run PVCs, PVC, Tachy, Brady, Missed Beats, PNP, PNC, Multif. PVC, Nonsus. VTac, Pause, Irr. Rhythm, AFib. SVT, SVTs/min

**ST Segment Analysis** 

Adult/Pediatric. **Patient** 

- 2.0 to + 2.0 mV (RTI) Range

Accuracy ± 0.02 mV or ± 10%, whichever is greater

(-0.8 to + 0.8 mV)

Resolution 0.01 mV



Adult/Pediatric/Neonate. Patient

**Parameters** QT, QTc, ΔQTc

OTc Formula Bazett, Fridericia, Framingham, or Hodges

Range

OT/OTc: 200 to 800 ms OT-HR: Adult: 15 to 150 bpm

Pediatric/Neonate: 15 to 180 bpm

**OT Accuracy** + 30 ms

Resolution QT 4 ms; QTc 1 ms

Respiration

0 to 200 bpm Range Resolution 1 rpm

**Apnea Alarm Time** 10, 15, 20, 25, 30, 35, 40 sec

Accuracy

0 - 120 rpm: ±1rpm 121 - 200 rpm: ±2 rpm

I, II, or auto (default: lead II) Lead

**Pulse Oximetry** 

Meet standards of ISO 80601-2-61.

Module Mindray, Masimo, Nellcor

Range 0 to 100 % Resolution 1%

Accuracy

Mindray/Nellcor: ± 2 % (70 to 100%, Adult/Pediatric:)

± 3 % (70 to 100%, Neonate)

Unspecified (0 to 69%)

± 2 % (70 to 100%, Adult/Pediatric, non-motion) Masimo:

± 3 % (70 to 100%, Neonate, non-motion)

± 3 % (70 to 100%, motion) Unspecified (0 to 69%)

Perfusion indicator (PI) Yes, for Mindray/Masimo SpO<sub>2</sub>

Pitch Tone Yes

Dual-SpO<sub>2</sub> Yes, SpO<sub>2</sub>, SpO<sub>2</sub>b, ΔSpO<sub>2</sub>

**Pulse Rate Range** 

Mindray/Nellcor: 20 to 300 bpm 25 to 240 bpm Masimo:

**Pulse Rate Accuracy** 

Mindray: ± 3 bpm (20 - 300 bpm) **Nellcor:** ± 3 bpm (20 - 250 bpm) Masimo: ± 3 bpm (non-motion) ± 5 bpm (motion)

**PR Refresh Rate** 1 sec

**Temperature** 

Meet standard of ISO 80601-2-56.

Method Thermal resistance Channels Up to 8 channels Units of Measure Selectable °C or °F 0 to 50 °C / 32 to 122 °F Range

Resolution 0.1 °C, 0.1°F

 $\pm$  0.1 °C or  $\pm$  0.2 °F (without probe) Accuracy

Refresh Rate 1 sec Genius <sup>™</sup> Tympanic Thermometer

**Measurement Range** 33 to 42 °C / 91.4 to 107.6 °F

**Calibrated Accuracy** ± 0.1 °C (environment temperature 25 °C,

target temperature 36.7 to 38.9 °C)  $\pm$  0.2 °C (environment temperature 16 °C,

target temperature 33 to 42 °C) 0.1 °C, 0.1°F

**Response Time** < 2 sec **Non-Invasive Blood Pressure** Meet standards of ISO 80601-2-30. Oscillometry Method

Modes Manual, Auto, STAT, Sequence **Units of Measure** mmHg, kPa (user-selectable)

Resolution 1 mmHa

Systolic range

Resolution

Adult: 25 to 290 mmHg **Pediatric:** 25 to 240 mmHg **Neonate:** 25 to 140 mmHg

Diastolic range

Adult: 10 to 250 mmHg **Pediatric:** 10 to 200 mmHg Neonate: 10 to 115 mmHg

Mean range

Adult: 15 to 260 mmHg 25.1 to 80 %: ±2 % **Pediatric:** 15 to 215 mmHg 80.1 to 100 % ±3 % 15 to 125 mmHg Neonate: Resolution Accuracy etCO2: 1 mmHa Max Mean Error: ± 5 mmHg O2 (optional): Max Standard Deviation: 8 mmHg Sample Flow Rate **Cuff Deflation Technique Step bleed** Adult/Pediatric: 120 ml/min (with or without O<sub>2</sub> monitoring) **Initial Cuff Inflation** 70 ml/min or 90 ml/min, selectable Neonate: 80 to 280 mmHg (default: 160 mmHg) Adult: 90 ml/min (with O<sub>2</sub> monitoring) **Pediatric:** 80 to 210 mmHg (default: 140 mmHg) **Sample Flow Rate Tolerance** Neonate: 60 to 140 mmHg (default: 90 mmHg) ±15 ml/min or ±15 %, whichever is greater. **Over Pressure Protection** Warm-up Time 90 sec (maximum), 20 sec (typically) Adult/ Pediatric: Measured with a neonatal watertrap and 2.5-meter neonatal sampling 297 ± 3 mmHa line, or an adult watertrap and a 2.5-meter adult sampling line: Neonate: 147 ± 3 mmHg **Max Measurement time Rise Time** Adult/Pediatric: ≤ 250 ms @ 70 ml/min (Neonate watertrap) 180 sec etCO<sub>2</sub>: ≤ 250 ms @ 90 ml/min (Neonate watertrap) Neonate: 90 sec **Assisting Venous Puncture** Yes  $\leq$  300 ms @ 120 ml/min (Adult watertrap) 30 to 300 bpm ≤ 800 ms @ 90 ml/min (Neonate watertrap) **Pulse Rate Range** O2 (optional): **Pulse Rate Accuracy** ± 3 bpm or ± 3 %, whichever is greater ≤ 750 ms @ 120 ml/min (Adult watertrap) **Sampling Delay Time** Meet standard of IEC 60601-2-34. ≤ 5.0 sec @ 70 ml/min (Neonate watertrap) etCO<sub>2</sub>: Up to 8 channels ≤ 4.5 sec @ 90 ml/min (Neonate watertrap) Number **Measurement Range** -50 to 360 mmHg ≤ 5.0 sec @ 120 ml/min (Adult watertrap) Resolution 1 mmHg O2 (optional): ≤ 4.5 sec @ 90 ml/min (Neonate watertrap) ± 1 mmHg or ±2 %, whichever is greater ≤ 5.0 sec @ 120 ml/min (Adult watertrap) Accuracy (excluding sensor error) awRR Range 0 to 150 rpm 5 μV/V/mmHg Sensitivity awRR Accuracy **Impedance Range** 300 to 3000  $\Omega$ 0 to 60 rpm: ±1rpm **PPV Range** 0 to 50 % 61 to 150 rpm: **PAWP** 10, 15, 20, 25, 30, 35, 40 sec Yes **Apnea Time ICP** measurement Provide VCO<sub>2</sub>, VO<sub>2</sub>, MVCO<sub>2</sub>, MVO<sub>2</sub>, EE, RQ parameters, when monitoring Support with RM module. Support waveforms overlapping. **Pulse Rate Range** 25 to 350 bpm Oridion Microstream CO<sub>2</sub> **Pulse Rate Accuracy** ±1 bpm or ±1 %, whichever is greater **Measurement Range** 0 to 99 mmHg **Cardiac Output** Resolution 1 mmHg Method Thermodilution Accuracy 0.1 - 20 L/min Measurement Range 0 to 38 mmHa: ±2 mmHa  $\pm 5~\% + 0.08~\%$  of the reading – 38 mmHg Resolution 0.1 L/min 39 to 99 mmHg: ±0.1 L/min or ±5%, whichever is greater Sample Flow Rate 50 <sup>-7.5</sup>+15 ml/min Accuracy 30 sec (typical) **TB Range** 23 to 43 °C / 73.4 to 109.4 °F Start-up Time ± 0.1 °C (without sensor) 2.9 s (typical) TB. TI Accuracy Response Time awRR Range 0.1 °C TB. TI Resolution 0 to 150 rpm **PiCCO** awRR Accuracy **Parameters Measurement Range Coefficient of Variation** 0 to 70 rpm: ±1 rpm cco 0.25 to 25.0 L/min ≤ **2**% 71 to 120 rpm: ±2 rpm 121 to 150 rpm: C.O. ≤ **2**% ±3 rpm 0.25 to 25.0 L/min **GFDV** 40 to 4800 ml 10, 15, 20, 25, 30, 35, 40 sec ≤ 3% Apnea time sv 1 to 250 ml ≤ **2**% Capnostat Mainstream CO<sub>2</sub> **EVLW** 10 to 5000 ml 0 to 150 mmHg ≤ 6% **Measurement Range** 50 to 6000 ml Resolution ≤ 3% 1 mmHg (Coefficient of variation is measured using synthetic and/or database wave forms Accuracy 0 to 40 mmHg: (laboratory testing.) Coefficient of variation=SD/mean error.) ± 2mmHg **TB Range** 23 to 43 °C / 73.4 to 109.4 °F 41 to 70 mmHg: ± 5% of reading ± 0.1 °C (without sensor) TB, TI Accuracy 71 to 100 mmHg:  $\pm$  8% of reading **TB, TI Resolution** 0.1 °C 101 to 150 mmHg: ± 10% of reading pArt/pCVP Range -50 to 300 mmHg Rise time < 60 msec awRR Range pArt/pCVP Accuracy ± 1 mmHg or ± 2 %, whichever is greater 0 to 150 rpm awRR Accuracy ±1 rpm Provide VCO<sub>2</sub>, MVCO<sub>2</sub>, FeCO<sub>2</sub>, SlopeCO<sub>2</sub>, Vtalv, MValv, Vdaw, Vdaw/Vt, Range Accuracy ± 3% (50 to 80 %) Vdalv, Vdalv/Vt, Vdphy, Vd/Vt, when monitoring with RM module. ICG **Anesthesia Gases** Method Thoracic electrical bioimpediance (TEB) Meet standard of ISO 80601-2-55. **HR Range** 40 to 200 bpm (ICG), accuracy ±2 bpm **Sampling Rate** Adult/pediatric: C.O. Range 1.0 to 15 L/min 200 ml/min 5 to 250 ml Neonate: SV Range 120 ml/min Provides Monitoring Parameters ACI, VI, PEP, LVET, TFI, TFC, HR, C.O., C.I., Sampling Rate Tolerance ±10 ml/min or ±10%, whichever is greater. SV, SVI, SVR, SVRI, PVR, PVRI, LCW, LCWI, LVSW, LVSWI, STR, VEPT **Sampling Delay Time** < 4 sec **Continuous Cardiac Output Interface Refresh Rate Measured Parameter Consistent with CCO-related parameters** Warm-up Time 45 sec to warm-up status outputted by Vigilance II®, Vigileo™, EV1000 10 min to ready-to-measure status **Measurement Range** or HemoSphere Artema Sidestream CO<sub>2</sub> CO<sub>2</sub>: 0 to 30 % Meet standard of ISO 80601-2-55. N<sub>2</sub>O: 0 to 100 % Des/Sev/Enf/Iso/Hal: **Measurement Range** etCO<sub>2</sub>: 0 to 150 mmHa 0 to 30 % 0 to 100 % O<sub>2</sub> (optional): 02: 0 to 100 % CO₂ Accuracy awRR: 2 to 100 rpm 0 to 40 mmHg: ± 2mmHg Resolution 41 to 76 mmHg: ± 5% of reading CO<sub>2</sub>: 0.1 % 77 to 99 mmHa: ± 10% of reading N<sub>2</sub>O: 1 % 100 to 150 mmHg: ± (3 mmHg+8% of reading) Des/Sev/Enf/Iso/Hal: O<sub>2</sub> Accuracy 0.1 % 0 to 25 %: O<sub>2</sub>: 1 %

	awRR:	1 rpm			Infant: ±10% or ±6 ml, whichever is greater.
Full Ac	ccuracy	p		awRR:	±1 rpm (4 to 99 rpm)
	Gases	Range (%REL)	Accuracy (%ABS)		±2 rpm (100 to 120 rpm)
	CO <sub>2</sub> :	0 to 1 %	± 0.1 %	Provide loops display.	
		1 to 5 %	± 0.2 %	<b>J</b> .	include PEEP, Pmean, PIP, Pplat, PEF, PIF, MVe,
		5 to 7 %	± 0.3 %		V1.0, Compl, RSBI, NIF, WOB, RAW.
		7 to 10 %	± 0.5 %	rSO <sub>2</sub>	
		> 10 %	Not specified	Patient	Adult/Pediatric/Neonate.
	N₂O:	0 to 20 %	± 2 %	Method	INVOS, NIRS (Near Infrared Spectroscopy)
	Des	20 to 100 %	±3%	Number	Up to 4 channels
	Des:	0 to 1 %	± 0.15 %	Measurement Range	15 to 95 %
		1 to 5 % 5 to 10 %	± 0.2 % ± 0.4 %	Meet the standard of IE	C 60601 2 10
		10 to 15 %	± 0.4 % ± 0.6 %	Sensor Type	Acceleromyography sensor
		15 to 18 %	± 1 %	Stimulation Modes	ST, TOF, PTC, DBS3.2, DBS3.3
		> 18 %	Not specified	Stimulation Current Rar	
	Sev:	0 to 1 %	± 0.15 %		0 to 60 mA
		1 to 5 %	± 0.2 %	Stimulation Current Acc	uracy
		5 to 8 %	± 0.4 %		± 5% or ±2 mA, whichever is greater.
		>8%	Not specified	Stimulation Pulse Width	100,200 or 300µs,monophasic rectangle pulse
	Enf/Iso/Hal:	0 to 1 %	± 0.15 %	Stimulation Pulse Width	Accuracy
		1 to 5 %	± 0.2 %		± 10 %
		> 5 %	Not specified	Max. Output Voltage	300 V
	O <sub>2</sub> :	0 to 25 %	± 1 %	BISx/BISx4	
		25 to 80 %	± 2 %	Meet standard of IEC 60	601-2-26.
		80 to 100 %	± 3 %	Method	Bispectral Index
	awRR:	2 to 60 rpm	± 1 rpm	Impedance Range	0 to 999 kΩ
		> 60 rpm	Not specified	EEG Bandwidth	0.25 to 100 Hz
Rise Ti				BIS Range	0 to 100 (BIS, BIS L, BIS R)
			DRYLINE II ™ watertrap and	SQI Range	0 to 100 % (SQI, SQI L, SQI R)
	a neonatal 2.5m s			ASYM	0 to 100%
	CO <sub>2</sub> / N <sub>2</sub> O:	≤ 250 ms		DSA Trend	Yes
	Iso/Hal/Sev/Des:			EEG/aEEG	coa o oc
	Enf:	≤ 350 ms		Meet standard of IEC 60	
	O <sub>2</sub> :	≤ 600 ms	YLINE II ™ watertrap and an	EEG Channels	Up to 4 channels
			r LINE II ···· watertrap and an	Montage Mode	Biopolar mode, referential mode
	adult 2.5m sampli CO <sub>2</sub> / N <sub>2</sub> O:	ing ime. ≤ 250 ms		Input Signal Range Max. Input DC Offset	- 2 mVp-p to + 2mVp-p ± 500 mV
	Iso/Hal/Sev/Des:			CMRR	≥ 100 dB @51 kΩ imbalance and 60 Hz
	Enf:	≤ 350 ms		Noise Level	≤ 0.5 μV rms (0.5 Hz to 70 Hz)
	O <sub>2</sub> :	≤ 500 ms		Differential Input Imped	
	ling Delay Time			5papa.	> 15 MΩ @10 Hz
		0 ml/min, using the	DRYLINE II ™ watertrap and	Electrode Impedance	
	a neonatal 2.5m s			Range	1 to 90 kΩ
	CO <sub>2</sub> :	≤ 4 sec		Accurancy	$\pm$ 1 k $\Omega$ or $\pm$ 10%, whichever is greater
	N₂O:	≤ 4.2 sec		Sampling Frequency	EBN EEG: 1024 Hz
	O <sub>2</sub> :	≤ 4 sec			Mindray EEG: 256Hz
	Enf /Iso/Hal/Sev/D	es: ≤ 4.4 sec		Analog bandwidth	EBN EEG: 0.5 to 110 Hz
		Oml/min. usina DR\	YLINE II ™ watertrap and an		
	adult 2.5m sampli				Mindray EEG/aEEG: 0.1 to 110 Hz
	-	ing line:		Spectrum analysis	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda
	CO <sub>2</sub> :	ing line: ≤ 4.2 sec		Trend	•
	CO <sub>2</sub> : N <sub>2</sub> O:	ing line: ≤ 4.2 sec ≤ 4.3 sec		Trend ANI	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA
	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> :	ing line: ≤ 4.2 sec ≤ 4.3 sec ≤ 4 sec		Trend ANI Patient	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA Adult, Pediatric (over 12 years old)
	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/lso/Hal/Sev/D	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4 sec es: ≤ 4.5 sec	·	Trend ANI	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA Adult, Pediatric (over 12 years old) ANIi: 12 to100
Apnea	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4 sec es: ≤ 4.5 sec  10,15,20,25,30,35	5,40 sec	Trend ANI Patient	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA Adult, Pediatric (over 12 years old) ANIi: 12 to 100 ANIm: 12 to 100
Apnea Provid	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (sup	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4 sec es: ≤ 4.5 sec  10,15,20,25,30,35 port calibrated by a	5,40 sec age).	Trend ANI Patient Measurement Range	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA Adult, Pediatric (over 12 years old) ANIi: 12 to100
Apnea Provid Suppo	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (sup	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4 sec es: ≤ 4.5 sec  10,15,20,25,30,35	5,40 sec age).	Trend ANI Patient Measurement Range	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA Adult, Pediatric (over 12 years old) ANIi: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54
Apnea Provid Suppo	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4 sec es: ≤ 4.5 sec 10,15,20,25,30,35 port calibrated by a dentify and monitor	5,40 sec age). oring.	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA Adult, Pediatric (over 12 years old) ANIi: 12 to 100 ANIm: 12 to 100
Apnea Provid Suppo RM Metho	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4 sec es: ≤ 4.5 sec  10,15,20,25,30,35 port calibrated by a	5,40 sec age). oring.	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA Adult, Pediatric (over 12 years old) ANIi: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54 nbiM, TCM TOSCA or SenTec SDM monitor.
Apnea Provid Suppo RM Metho Measu	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i od urement Range	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4 sec  es: ≤ 4.5 sec  10,15,20,25,30,35 port calibrated by a identify and monito	5,40 sec age). oring.	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO <sub>2</sub>	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANIn: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54  nbiM, TCM TOSCA or SenTec SDM monitor.
Apnea Provid Suppo RM Metho Measu	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4 sec es: ≤ 4.5 sec  10,15,20,25,30,35 port calibrated by a dentify and monite  Diff-Pressure flow  Adult/Pediatric: ±	5,40 sec age). oring. , (2 to 120) L/min	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO <sub>2</sub> tcpO <sub>2</sub>	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANII: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54  mbiM, TCM TOSCA or SenTec SDM monitor.  5 to 200 mmHg 0 to 800 mmHg
Apnea Provid Suppo RM Metho Measu	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i od urement Range	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4 sec  es: ≤ 4.5 sec  10,15,20,25,30,35 port calibrated by a identify and monito	5,40 sec age). oring. / (2 to 120) L/min 930) L/min	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO <sub>2</sub>	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANII: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54  mbiM, TCM TOSCA or SenTec SDM monitor.  5 to 200 mmHg 0 to 800 mmHg 0 to 100 %
Apnea Provid Suppo RM Metho Measu	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i od urement Range Flow	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4 sec es: ≤ 4.5 sec  10,15,20,25,30,35 port calibrated by a identify and monito  Diff-Pressure flow  Adult/Pediatric: ± Neonate: ± (0.5 to	5,40 sec age). oring. / (2 to 120) L/min (30) L/min	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO <sub>2</sub> tcpO <sub>2</sub> SpO2	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANII: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54  mbiM, TCM TOSCA or SenTec SDM monitor.  5 to 200 mmHg 0 to 800 mmHg
Apnea Provid Suppo RM Metho Measu	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i od urement Range Flow Paw	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4 sec es: ≤ 4.5 sec  10,15,20,25,30,35 port calibrated by a identify and monite  Diff-Pressure flow  Adult/Pediatric: ± Neonate: ± (0.5 to -20 to 120 cmH <sub>2</sub> O	5,40 sec age). oring. / (2 to 120) L/min · 30) L/min to 60 L/min	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO <sub>2</sub> tcpO <sub>2</sub> SpO2 PR Power	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANII: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54  nbiM, TCM TOSCA or SenTec SDM monitor.  5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm
Apnea Provid Suppo RM Metho Measu	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i od urement Range Flow Paw	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4 sec es: ≤ 4.5 sec  10,15,20,25,30,35 port calibrated by a identify and monite  Diff-Pressure flow  Adult/Pediatric: ±  Neonate: ± (0.5 to  -20 to 120 cmH <sub>2</sub> O  Adult/Pediatric: 2	5,40 sec age). oring. , , (2 to 120) L/min (30) L/min to 60 L/min /min	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO <sub>2</sub> tcpO <sub>2</sub> SpO2 PR	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANII: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54  nbiM, TCM TOSCA or SenTec SDM monitor.  5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm
Apnea Provid Suppo RM Metho Measu	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i od urement Range Flow Paw MVe/MVi	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4 sec es: ≤ 4.5 sec 10,15,20,25,30,35 port calibrated by a identify and monitor  Diff-Pressure flow  Adult/Pediatric: ± Neonate: ± (0.5 to -20 to 120 cmH <sub>2</sub> O  Adult/Pediatric: 2 Infant: 0.5 to 15 L	5,40 sec age). oring. / (2 to 120) L/min • 30) L/min to 60 L/min /min 00 to 1500 ml	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO <sub>2</sub> tcpO <sub>2</sub> SpO2 PR Power Accuracy	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANIi: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54  nbiM, TCM TOSCA or SenTec SDM monitor.  5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW
Apnea Provid Suppo RM Metho Measu	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i od urement Range Flow Paw MVe/MVi	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4 sec es: ≤ 4.5 sec 10,15,20,25,30,35 port calibrated by a dentify and monitor  Diff-Pressure flow  Adult/Pediatric: ± Neonate: ± (0.5 to -20 to 120 cmH <sub>2</sub> O Adult/Pediatric: 2 Infant: 0.5 to 15 L Adult/Pediatric: 1	5,40 sec age). oring. / (2 to 120) L/min • 30) L/min to 60 L/min /min 00 to 1500 ml	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO <sub>2</sub> tcpO <sub>2</sub> SpO2 PR Power Accuracy	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANIi: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54  nbiM, TCM TOSCA or SenTec SDM monitor.  5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW  TOSCA Sensor 92, tc Sensor 54:
Apnea Provid Suppo RM Metho Measu	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i od urement Range Flow Paw MVe/MVi TVe/TVi awRR range	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4.5 sec  si ≤ 4.5 sec  10,15,20,25,30,35 port calibrated by a dentify and monite  Diff-Pressure flow  Adult/Pediatric: ± Neonate: ± (0.5 to -20 to 120 cmH₂O  Adult/Pediatric: 2 Infant: 0.5 to 15 L  Adult/Pediatric: 1 Infant: 20 to 500 m  4 to 120 rpm	5,40 sec age). oring. / (2 to 120) L/min • 30) L/min to 60 L/min /min 00 to 1500 ml	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO <sub>2</sub> tcpO <sub>2</sub> SpO2 PR Power Accuracy	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANIi: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54  nbiM, TCM TOSCA or SenTec SDM monitor.  5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW  TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> )
Apnea Provid Suppo RM Metho Measu	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i od urement Range Flow Paw MVe/MVi TVe/TVi awRR range ution Flow	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4.5 sec  si ≤ 4.5 sec  10,15,20,25,30,35  port calibrated by a dentify and monite  Diff-Pressure flow  Adult/Pediatric: ±  Neonate: ± (0.5 to  -20 to 120 cmH <sub>2</sub> O  Adult/Pediatric: 1  Infant: 0.5 to 15 L  Adult/Pediatric: 1  Infant: 20 to 500 to  4 to 120 rpm  0.1 L/min	5,40 sec age). oring. / (2 to 120) L/min • 30) L/min to 60 L/min /min 00 to 1500 ml	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO <sub>2</sub> tcpO <sub>2</sub> SpO2 PR Power Accuracy	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANII: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54  InbiM, TCM TOSCA or SenTec SDM monitor.  5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW  TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) Better than 3 mmHg (33 % CO <sub>2</sub> ) tc Sensor 84: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> )
Apnea Provid Suppo RM Metho Measu	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i od urement Range Flow Paw MVe/MVi TVe/TVi awRR range ution Flow Paw	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4.5 sec  si ≤ 4.5 sec  10,15,20,25,30,35  port calibrated by a dentify and monite  Diff-Pressure flow  Adult/Pediatric: ±  Neonate: ± (0.5 to -20 to 120 cmH <sub>2</sub> O  Adult/Pediatric: 2  Infant: 0.5 to 15 L  Adult/Pediatric: 1  Infant: 20 to 500 is 4 to 120 rpm  0.1 L/min 0.1 cmH <sub>2</sub> O	5,40 sec age). oring. (2 to 120) L/min 0 30) L/min to 60 L/min /min 00 to 1500 ml	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO <sub>2</sub> tcpO <sub>2</sub> SpO2 PR Power Accuracy tcpCO <sub>2</sub>	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANII: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54  mbiM, TCM TOSCA or SenTec SDM monitor.  5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW  TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) Better than 3 mmHg (33 % CO <sub>2</sub> ) tc Sensor 84: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) Better than 5 mmHg (33 % CO <sub>2</sub> )
Apnea Provid Suppo RM Metho Measu	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i od urement Range Flow Paw MVe/MVi TVe/TVi awRR range ution Flow	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4 sec es: ≤ 4.5 sec 10,15,20,25,30,35 port calibrated by a identify and monitor  Diff-Pressure flow  Adult/Pediatric: ± Neonate: ± (0.5 to -20 to 120 cmH <sub>2</sub> O  Adult/Pediatric: 2 Infant: 0.5 to 15 L  Adult/Pediatric: 1 Infant: 20 to 500 to 4 to 120 rpm  0.1 L/min 0.1 cmH <sub>2</sub> O 0.01 L/min (MVe/III	6,40 sec age). oring. ( 2 (2 to 120) L/min 0 30) L/min to 60 L/min /min 00 to 1500 ml ml	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO <sub>2</sub> tcpO <sub>2</sub> SpO2 PR Power Accuracy	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANIi: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54  nbiM, TCM TOSCA or SenTec SDM monitor.  5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW  TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) Better than 3 mmHg (33 % CO <sub>2</sub> ) tc Sensor 84: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) Better than 5 mmHg (33 % CO <sub>2</sub> ) tc Sensor 84:
Apnea Provid Suppo RM Metho Measu	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i od urement Range Flow Paw MVe/MVi TVe/TVi awRR range ution Flow Paw MVe/MVi	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4.3 sec  ≤ 4 sec es: ≤ 4.5 sec 10,15,20,25,30,35 port calibrated by a identify and monitor  Diff-Pressure flow  Adult/Pediatric: ± Neonate: ± (0.5 to -20 to 120 cmH <sub>2</sub> O  Adult/Pediatric: 2 Infant: 0.5 to 15 L  Adult/Pediatric: 1 Infant: 20 to 500 to 4 to 120 rpm  0.1 L/min 0.1 cmH <sub>2</sub> O 0.01 L/min (MVe/M 0.1 L/min (MVe/M	6,40 sec age). oring. ( 2 (2 to 120) L/min 0 30) L/min to 60 L/min /min 00 to 1500 ml ml	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO <sub>2</sub> tcpO <sub>2</sub> SpO2 PR Power Accuracy tcpCO <sub>2</sub>	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANIi: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54  nbiM, TCM TOSCA or SenTec SDM monitor.  5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW  TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) Better than 3 mmHg (33 % CO <sub>2</sub> ) tc Sensor 84: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) Better than 5 mmHg (33 % CO <sub>2</sub> ) tc Sensor 84: Better than 1 mmHg (0 % O <sub>2</sub> )
Apnea Provid Suppo RM Metho Measu	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i od urement Range Flow Paw MVe/MVi TVe/TVi awRR range ution Flow Paw MVe/MVi TVe/MVi TVe/MVi TVe/MVi TVe/TVi	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4.5 sec  10,15,20,25,30,35  port calibrated by a dentify and monitor  Diff-Pressure flow  Adult/Pediatric: ±  Neonate: ± (0.5 to  -20 to 120 cmH <sub>2</sub> O  Adult/Pediatric: 1  Infant: 0.5 to 15 L  Adult/Pediatric: 1  Infant: 20 to 500 of  4 to 120 rpm  0.1 L/min  0.1 cmH <sub>2</sub> O  0.01 L/min (MVe/M  1 ml	6,40 sec age). oring. ( 2 (2 to 120) L/min 0 30) L/min to 60 L/min /min 00 to 1500 ml ml	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO <sub>2</sub> tcpO <sub>2</sub> SpO2 PR Power Accuracy tcpCO <sub>2</sub>	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANIi: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54  InbiM, TCM TOSCA or SenTec SDM monitor.  5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW  TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) Better than 3 mmHg (33 % CO <sub>2</sub> ) tc Sensor 84: Better than 5 mmHg (33 % CO <sub>2</sub> ) tc Sensor 84: Better than 1 mmHg (0 % O <sub>2</sub> ) Better than 1 mmHg (0 % O <sub>2</sub> ) Better than 1 mmHg (0 % O <sub>2</sub> ) Better than 3 mmHg (21 % O <sub>2</sub> )
Apnea Provid Suppo RM Metho Measu	CO2: N2O: O2: Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i od urement Range Flow Paw MVe/MVi TVe/TVi awRR range ution Flow Paw MVe/MVi TVe/TVi Ve/TVi TVe/TVi AWRRRR	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4.3 sec  ≤ 4 sec es: ≤ 4.5 sec 10,15,20,25,30,35 port calibrated by a identify and monitor  Diff-Pressure flow  Adult/Pediatric: ± Neonate: ± (0.5 to -20 to 120 cmH <sub>2</sub> O  Adult/Pediatric: 2 Infant: 0.5 to 15 L  Adult/Pediatric: 1 Infant: 20 to 500 to 4 to 120 rpm  0.1 L/min 0.1 cmH <sub>2</sub> O 0.01 L/min (MVe/M 0.1 L/min (MVe/M	6,40 sec age). oring. ( 2 (2 to 120) L/min 0 30) L/min to 60 L/min /min 00 to 1500 ml ml	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO <sub>2</sub> tcpO <sub>2</sub> SpO2 PR Power Accuracy tcpCO <sub>2</sub>	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANIi: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54  InbiM, TCM TOSCA or SenTec SDM monitor.  5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW  TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) Better than 3 mmHg (33 % CO <sub>2</sub> ) tc Sensor 84: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) Better than 5 mmHg (33 % CO <sub>2</sub> ) tc Sensor 84: Better than 1 mmHg (1 % O <sub>2</sub> ) Better than 1 mmHg (0 % O <sub>2</sub> ) Better than 1 mmHg (0 % O <sub>2</sub> ) Better than 3 mmHg (21 % O <sub>2</sub> ) Better than 5 mmHg (50 % O <sub>2</sub> )
Apnea Provid Suppo RM Metho Measu	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i od urement Range Flow Paw MVe/MVi  TVe/TVi awRR range ution Flow Paw MVe/MVi  TVe/TVi TVe/TVi awRR: acy	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4.5 sec  10,15,20,25,30,35 port calibrated by a identify and monite  Diff-Pressure flow  Adult/Pediatric: ± Neonate: ± (0.5 to -20 to 120 cmH <sub>2</sub> O Adult/Pediatric: 1 Infant: 20 to 500 to 4 to 120 rpm  0.1 L/min 0.1 cmH <sub>2</sub> O 0.01 L/min (MVe/M 1 ml 1 rpm	5,40 sec age). oring. (2 to 120) L/min 30) L/min to 60 L/min /min 00 to 1500 ml ml	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO <sub>2</sub> tcpO <sub>2</sub> SpO2 PR Power Accuracy tcpCO <sub>2</sub>	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANIi: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54  InbiM, TCM TOSCA or SenTec SDM monitor.  5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW  TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) Better than 3 mmHg (33 % CO <sub>2</sub> ) tc Sensor 84: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) Better than 5 mmHg (33 % CO <sub>2</sub> ) tc Sensor 84: Better than 1 mmHg (0 % O <sub>2</sub> ) Better than 1 mmHg (0 % O <sub>2</sub> ) Better than 3 mmHg (21 % O <sub>2</sub> ) Better than 5 mmHg (50 % O <sub>2</sub> ) Better than 5 mmHg (50 % O <sub>2</sub> ) Better than 5 mmHg (50 % O <sub>2</sub> ) Better than 25 mmHg (90 % O <sub>2</sub> )
Apnea Provid Suppo RM Metho Measu	CO2: N2O: O2: Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i od urement Range Flow Paw MVe/MVi TVe/TVi awRR range ution Flow Paw MVe/MVi TVe/TVi Ve/TVi TVe/TVi AWRRRR	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4.5 sec  10,15,20,25,30,35 port calibrated by a identify and monitor  Diff-Pressure flow  Adult/Pediatric: ± Neonate: ± (0.5 to -20 to 120 cmH <sub>2</sub> O Adult/Pediatric: 2 Infant: 0.5 to 15 L Adult/Pediatric: 1 Infant: 20 to 500 of 4 to 120 rpm  0.1 L/min 0.1 cmH <sub>2</sub> O 0.01 L/min (MVe/M 0.1 L/min (MVe/M 1 ml 1 rpm  Adult/Pediatric: ±	5,40 sec age). oring. (2 to 120) L/min 30) L/min to 60 L/min /min 00 to 1500 ml nl	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO2 tcpO2 SpO2 PR Power Accuracy tcpCO2 tcpCO2	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANIi: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54  InbiM, TCM TOSCA or SenTec SDM monitor.  5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW  TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) Better than 3 mmHg (33 % CO <sub>2</sub> ) tc Sensor 84: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) tc Sensor 84: Better than 1 mmHg (0 % O <sub>2</sub> ) tc Sensor 84: Better than 1 mmHg (0 % O <sub>2</sub> ) Better than 3 mmHg (21 % O <sub>2</sub> ) Better than 5 mmHg (50 % O <sub>2</sub> ) Better than 5 mmHg (50 % O <sub>2</sub> ) Better than 25 mmHg (90 % O <sub>2</sub> ) Better than 25 mmHg (90 % O <sub>2</sub> )
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Apnea Provid Suppo RM Metho Measu Resolu	CO <sub>2</sub> : N <sub>2</sub> O: O <sub>2</sub> : Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i od urement Range Flow Paw MVe/MVi TVe/TVi awRR range ution Flow Paw MVe/MVi TVe/TVi awRR: acy Flow	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4.3 sec  ≤ 4 sec es: ≤ 4.5 sec 10,15,20,25,30,35 port calibrated by a identify and monitor  Diff-Pressure flow  Adult/Pediatric: ± Neonate: ± (0.5 to -20 to 120 cmH <sub>2</sub> O Adult/Pediatric: 1 Infant: 20 to 500 to 4 to 120 rpm  0.1 L/min 0.1 cmH <sub>2</sub> O 0.01 L/min (MVe/M 1 ml 1 rpm  Adult/Pediatric: ± reading, whichew Neonate: ± 0.5 L/t greater.	5,40 sec age). oring. v (2 to 120) L/min to 60 L/min /min 00 to 1500 ml ml MVi < 10 L/min) Vi ≥ 10 L/min)	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO2 tcpO2 SpO2 PR Power Accuracy tcpCO2  tcpO2  SpO2 PR Power Accuracy tcpCO2	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANIi: 12 to 100 ANIm: 12 to 100 Energy: 0.00 to 65.54  InbiM, TCM TOSCA or SenTec SDM monitor.  5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW  TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) Better than 3 mmHg (33 % CO <sub>2</sub> ) tc Sensor 84: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) Better than 5 mmHg (33 % CO <sub>2</sub> ) tc Sensor 84: Better than 1 mmHg (0 % O <sub>2</sub> ) Better than 3 mmHg (21 % O <sub>2</sub> ) Better than 3 mmHg (21 % O <sub>2</sub> ) Better than 5 mmHg (90 % O <sub>2</sub> ) Better than 5 mmHg (90 % O <sub>2</sub> ) Better than 25 mmHg (90 % O <sub>2</sub> ) ±3 % (70 to 100 %) ±3 bpm
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Apnea Provid Suppo RM Metho Measu Resolu	CO2: N2O: O2: Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i od urement Range Flow Paw MVe/MVi TVe/TVi awRR range ution Flow Paw MVe/MVi TVe/TVi awRR: acy Flow	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4.5 sec  10,15,20,25,30,35 port calibrated by a dentify and monitor  Diff-Pressure flow  Adult/Pediatric: ± Neonate: ± (0.5 to -20 to 120 cmH₂O Adult/Pediatric: 2 Infant: 0.5 to 15 L  Adult/Pediatric: 1 Infant: 20 to 500 or 4 to 120 rpm  0.1 L/min 0.1 cmH₂O 0.01 L/min (MVe/M 1 ml 1 rpm  Adult/Pediatric: ± reading, whicheve the control of the c	5,40 sec age). oring. (2 to 120) L/min 30) L/min to 60 L/min /min 00 to 1500 ml ml WVi < 10 L/min) Vi ≥ 10 L/min)	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO2 tcpO2 SpO2 PR Power Accuracy tcpCO2  tcpO2  SpO2 PR Power Accuracy tcpCO2	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANIi: 12 to 100 Energy: 0.00 to 65.54  InbiM, TCM TOSCA or SenTec SDM monitor.  5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW  TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) Better than 3 mmHg (33 % CO <sub>2</sub> ) tc Sensor 84: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) Better than 5 mmHg (33 % CO <sub>2</sub> ) tc Sensor 84: Better than 1 mmHg (0 % O <sub>2</sub> ) Better than 3 mmHg (21 % O <sub>2</sub> ) Better than 5 mmHg (90 % O <sub>2</sub> ) Better than 5 mmHg (90 % O <sub>2</sub> ) Better than 5 mmHg (90 % O <sub>2</sub> ) Better than 5 mmHg (90 % O <sub>2</sub> ) Better than 100 %) ±3 bpm ±20 % of reading Intel Pentium N4200 2.5GHz
Apnea Provid Suppo RM Metho Measu Resolu	CO2: N2O: O2: Enf/Iso/Hal/Sev/D a time de MAC value (support two mixed gas i od urement Range Flow Paw MVe/MVi TVe/TVi awRR range ution Flow Paw MVe/MVi TVe/TVi awRR: acy Flow Paw MVe/MVi	ing line:  ≤ 4.2 sec  ≤ 4.3 sec  ≤ 4.5 sec  10,15,20,25,30,35 port calibrated by a dentify and monitor  Diff-Pressure flow  Adult/Pediatric: ± Neonate: ± (0.5 to -20 to 120 cmH₂O Adult/Pediatric: 2 Infant: 0.5 to 15 L  Adult/Pediatric: 1 Infant: 20 to 500 or 4 to 120 rpm  0.1 L/min 0.1 cmH₂O 0.01 L/min (MVe/M 1 ml 1 rpm  Adult/Pediatric: ± reading, whicheve the control of the c	5,40 sec age). oring. (2 to 120) L/min (30) L/min to 60 L/min /min 00 to 1500 ml ml MVi < 10 L/min) Vi ≥ 10 L/min) 1.2 L/min or ± 10% of the er is greater. min or ± 10%, whichever is	Trend ANI Patient Measurement Range  tcGas Interfaces with TCM Cor Measurement Range tcpCO2 tcpO2 SpO2 PR Power Accuracy tcpCO2  tcpO2  SpOy TcpO2  View CPU Memory	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda DSA, CSA  Adult, Pediatric (over 12 years old) ANIn: 12 to 100 Energy: 0.00 to 65.54  InbiM, TCM TOSCA or SenTec SDM monitor.  5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW  TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) Better than 3 mmHg (33 % CO <sub>2</sub> ) tc Sensor 84: Better than 1 mmHg (1 % or 10 % CO <sub>2</sub> ) Better than 5 mmHg (33 % CO <sub>2</sub> ) tc Sensor 84: Better than 1 mmHg (0 % O <sub>2</sub> ) Better than 5 mmHg (21 % O <sub>2</sub> ) Better than 5 mmHg (50 % O <sub>2</sub> ) Better than 25 mmHg (90 % O <sub>2</sub> ) Better than 25 mmHg (90 % O <sub>2</sub> ) Better than 25 mmHg (90 % O <sub>2</sub> ) Better than 25 mmHg (90 % O <sub>2</sub> ) Better than 25 mmHg (90 % O <sub>2</sub> ) Better than 100 % Delta Media Me

Recorder

Thermal array Type Speed 25 mm/sec, 50 mm/sec

Up to 3 (paper 50 mm width, 20 m length) Trace

Supports two-slots recorder module.

**Alarms** 

**Audible indicator** Yes, 4 different alarm tones, and prompt tone

Red/yellow/cyan LED, and alarm message Visible indicator

Provide Alarm Sight infographic alarm indicator.

Support iAlarm features (alarm limits recommendations, etc.)

Support iStatus combined alarms

**Data Storage** 

**Trends Data** > 120 hrs @ 1min, 4 hrs @ 5 sec.

1000 events, including parameter alarms, Events

arrhythmia events, technical alarms, and so

on. NIBP 1000 sets

Interpretation of resting 12-lead ECG results

20 sets

**Full disclosure** 48 hours for all parameters and waveforms

(8G storage card)

48 hours at maximum. The specific storage time depends on the waveforms stored and the number of stored waveforms. (2G storage

card)

**OxyCRG** 48 hrs ST review 120 hrs @1 min

Minitrend

**Special Functions** 

**Clinical Assistive Application (CAA):** 

HemoSight<sup>™</sup>, ST Graphic<sup>™</sup>, SepsisSight<sup>™</sup>, BoA Dashboard™, EWS, GCS, ECG 24h Summary, Pace View, AF Summary, NeuroSight

Support calculations (drug, hemodynamic, Oxygenation, Ventilation,

Renal), and Titration table.

Support wireless connection with BeneVision TM80 and BP10.

Support nView remote display tool

**Wi-Fi Communications** 

IEEE 802.11a/b/g/n **Modulation Mode DSSS and OFDM** 

**Operating Frequency** 

**Wireless Baud Rate** 

IEEE 802.11b/g/n (2.4G):

ETSI/FCC/KC: 2.4 to 2.483 GHz MIC: 2.4 to 2.495 GHz

IEEE 802.11a/n (5G):

5.15 to 5.35 GHz, 5.47 to 5.725 GHz ETSI: FCC: 5.15 to 5.35 GHz, 5.725 to 5.82 GHz

MIC: 5.15 to 5.35 GHz

5.15 to 5.35 GHz, 5.47 to 5.725 GHz,

5.725 to 5.82 GHz

**Channel Spacing** 5 MHz @ 2.4 GHz (802.11 b/g/n)

> 20 MHz @ 5 GHz (802.11 a/n) IEEE 802.11a: 6 to 54 Mbps

IEEE 802.11b: 1 to 11 Mbps IEEE 802.11g: 6 to 54 Mbps IEEE 802.11n: 6.5 to 72.2 Mbps

**Output Power** < 20dBm (CE requirement: detection

mode-RMS)

< 30dBm (FCC requirement, detection

mode-peak power)

**Operating Mode** Infrastructure

WPA-PSK, WPA2-PSK, WPA-Enterprise, **Data Security** 

WPA2-Enterprise (EAP-FAST, EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, PEAP-TLS,

LEAP)

**Encryption: TKIP and AES** 

Output

**Auxiliary Output** 

Standard Meets the requirements of ANSI/AAMI/IEC

60601-1 for short-circuit protection and

leakage current

**ECG Analog Output** 

Bandwidth (- 3 dB; reference frequency: 10 Hz)

Diagnostic Mode: 0.05 to 150 Hz **Monitor Mode:** 0.5 to 40 Hz **Surgical Mode:** 1 to 20 Hz ST Mode: 0.05 to 40 Hz

**QRS Delay** ≤ 25 ms (in diagnostic mode, and non-paced)

Sensitivity 1 V/mV, ± 5 %

**Pace Enhancement** 

Signal Amplitude: Voh ≥ 2.5 V **Pulse Width:** 10 ms ± 5 % **Signal Rising and Falling Time:** ≤ 100 us

**IBP Analog Output** 

Bandwidth (- 3 dB; reference frequency: 10 Hz)

0 to 40 Hz

Max. Transmission Delay 30 ms

Sensitivity  $1 V/100 mmHg, \pm 5 \%$ 

Interfacing Main Unit

1 AC Power Connector

2 RJ45 Network Connector, 100 Base-TX, IEEE 802.3

6 USB 2.0 Connector

3 Nonstandard USB SMR Connector

1 VP Connector, VP1 for the secondary display

1 BNC Connector

1 Equipotential Grounding Terminal

Modular iView

1 VP Connector, VP2

4 USB 2.0 Connector

1 RJ45 Network Connector, 100 Base-TX, IEEE 802.3 Multifunction Connector for Defib Sync and Analog Output

1 on multi-parameter module

**Barcode Scanner** Support 1D and 2D barcode **Keyboard & Mouse** Support wire and wireless type

**Remote Control** Support **Network Printer** Support

Battery

Type Rechargeable lithium-ion

**Number of Battery** 5600mAh Capacity

**Run Time** > 1 hrs

when powered by a new fully-charged battery at 25 °C±5 °C with 12-lead ECG, Resp, SpO2, 4ch IBP, 2-ch Temp, CO2, C.O. and NIBP measurements every 15 min, WiFi enabled, and screen brightness set to default 5.

5 hrs to 90% when the monitor is off. **Recharge Time** 

**Power Requirements** 

**AC Voltage** 100 to 240 VAC (±10 %)

Current 2.8 to 1.6 A 50 Hz/60 Hz (±3 Hz) Frequency

**Environmental** 

Humidity

Temperature Operating: 0 to 40 °C (32 to 104 °F)

Storage: -20 to 60 °C (-4 to 140 °F) Operating: 15 to 95 % (non condensing) Storage: 10 to 95 % (non condensing)

Barometric Operating: 427.5 to 805.5 mmHg (57.0 to 107.4 kPa)

Storage: 120 to 805.5 mmHg (16.0 to 107.4 kPa)

Safety Type of Protection

**Degree of Protection** MPM/IBP/C.O./NMT/(a)EEG/PiCCO/ANI module: CF

ScvO<sub>2</sub>/CO<sub>2</sub>/AG/ICG/BIS/RM/rSO<sub>2</sub> module: BF

**Protection Against Ingress of Fluids** 

IPX1

Some of functions marked with an asterisk may not be available. Please contact your local Mindray sales representative for the most current information.





