

Patient Monitor

Main Unit Specification Physical Specifications Dimension $306\pm2 \text{ mm} (\text{W}) \times 309\pm2 \text{ mm} (\text{H}) \times 151\pm2 \text{ mm} (\text{D})$ Max Weight < 3.5 kg Standard configurations, no battery or accessories **Power Supply** 100 V to 240 V~ Line Voltage Current 1.4 A to 0.7 A Frequency 50 Hz/60 Hz **Battery** Capacity 2550 mAh, 5100 mAh **Operating Time** 2550 mAh \geq 4 h $\geq 8~{\rm h}$ 5100 mAh \leq 3.5 h, 90% charge **Charge Time** 2550 mAh ≤ 6.5 h, 90% charge 5100 mAh **Display** (12.1-inch color TFT screen, touch screen available **Display screen** Resolution 800×600 A maximum of 13 waveforms can be displayed on Waves same screen Recorder **Record Width** 48 mm **Paper Speed** (12.5 mm/s, 25 mm/s, 50 mm/s) Channels 3 **Recording Types** Continuous real-time recording 8-second real-time recording 20-second real-time recording Time recording Alarm recording Trend graph recording Trend table recording NIBP review recording Arrhythmia review recording Alarm review recording Drug calculation titration recording Hemodynamic Calculation result recording 12-lead analysis recording C.O. measurement recording ST view recording QT view recording **Data Storage Internal Temporary Memory**



	review	(120 hrs, at 1 min resolution)
	Alarm/Monitoring	
	Event data	Up to 200 sets
	NIBP Measurement Review	
		(1200 sets)
	(Arrhythmia events)	Up to 200 sets
	12-lead Diagnosis Review	Up to 50 sets
		(internal or external storage device)
	A single piece of patien	t data maximally contains the following information:
	Trend graph and trend table	240 hours, at 1 min resolution
_	NIBP measurement review	(1200 sets)
	Alarm review	200 sets
	Arrhythmia event	200 sets
	(12-lead diagnosis) review	50 sets
	Full disclosure	3 electrodes/5 electrodes/6 electrodes: 48 hours
	Waveforms	(10 electrodes: 35 hours)
	Wi-Fi	
	WI-LI	
	IEEE	(802.11b/g/n)
)		802.11b/g/n 2.4 GHz ISM band & 5 G ISM band
)	IEEE Frequency Band Interfaces and others	2.4 GHz ISM band & 5 G ISM band
)	IEEE Frequency Band Interfaces and others VGA output (optional	2.4 GHz ISM band & 5 G ISM band
)	IEEE Frequency Band Interfaces and others VGA output (optional USB interface)	2.4 GHz ISM band & 5 G ISM band) 1 2
)	IEEE Frequency Band Interfaces and others VGA output (optional	2.4 GHz ISM band & 5 G ISM band (1) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
)	IEEE Frequency Band Interfaces and others VGA output (optional USB interface Nurse Call / Analog O	2.4 GHz ISM band & 5 G ISM band) 1 2 utput/ Defibrillator
)	IEEE Frequency Band Interfaces and others VGA output (optional USB interface Nurse Call / Analog O Synchronization (option	2.4 GHz ISM band & 5 G ISM band (1) (2) utput/ Defibrillator onal) (1)
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	IEEE Frequency Band Interfaces and others VGA output (optional USB interface Nurse Call / Analog O Synchronization (option Network Interface Data Transmission Data Export	2.4 GHz ISM band & 5 G ISM band (1) (2) (1) (1) (1) 1 (2) (2) (2) (2) (2) (2) (2) (2)
	IEEE Frequency Band Interfaces and others VGA output (optional USB interface Nurse Call / Analog O Synchronization (optio Network Interface Data Transmission Data Export Data Management Central Monitoring	2.4 GHz ISM band & 5 G ISM band) (1) (2) (1) (1) (1) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
	IEEE Frequency Band Interfaces and others VGA output (optional USB interface Nurse Call / Analog O Synchronization (option Network Interface Data Transmission Data Export Data Management Central Monitoring System	2.4 GHz ISM band & 5 G ISM band (1) (2) (1) (1) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2
	IEEE Frequency Band (Interfaces and others) VGA output (optional USB interface Nurse Call / Analog O Synchronization (option Network Interface) Data Transmission Data Export Data Management Central Monitoring System HIS/EMR	2.4 GHz ISM band & 5 G ISM band (1) (2) (1) (2) (1) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2
	IEEE Frequency Band (Interfaces and others) VGA output (optional USB interface Nurse Call / Analog O Synchronization (option Network Interface) Data Transmission Data Export Data Management Central Monitoring System HIS/EMR	2.4 GHz ISM band & 5 G ISM band) (1) (2) (utput/Defibrillator onal) (1) (1) 1 (CMS-Lite) (CMS-Lite) (MFM-CMS) (HL7) (MFM-CMS/GW1 Gateway Software)
	IEEE Frequency Band Interfaces and others VGA output (optional USB interface Nurse Call / Analog O Synchronization (option Network Interface Data Transmission Data Export Data Management (Central Monitoring System HIS/EMR connection	2.4 GHz ISM band & 5 G ISM band (1) (2) (2) (1) (2) (1) (1) (1) (1) (2) (1) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2
	IEEE Frequency Band Interfaces and others VGA output (optional USB interface Nurse Call / Analog O Synchronization (option Network Interface Data Transmission Data Export Data Management Central Monitoring System HIS/EMIR connection ECG	2.4 GHz ISM band & 5 G ISM band (1) (2) (2) (1) (2) (1) (2) (1) (2) (1) (2) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2
	IEEE Frequency Band Interfaces and others VGA output (optional USB interface Nurse Call / Analog O Synchronization (option Network Interface Data Transmission Data Export Data Management Central Monitoring System HIS/EMIR connection ECG	2.4 GHz ISM band & 5 G ISM band (1) (2) (2) (2) (2) (1) (1) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2
	IEEE Frequency Band Interfaces and others VGA output (optional USB interface Nurse Call / Analog O Synchronization (option Network Interface Data Transmission Data Export Data Management Central Monitoring System HIS/EMIR connection ECG	2.4 GHz ISM band & 5 G ISM band (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2
	IEEE Frequency Band Interfaces and others VGA output (optional USB interface Nurse Call / Analog O Synchronization (option Network Interface Data Transmission Data Export Data Management Central Monitoring System HIS/EMIR connection ECG Lead Mode	2.4 GHz ISM band & 5 G ISM band



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3 hrs, at 1 s resolution

Trend graph/trend

Bandwidth (-3 dB)	Diagnosis: 0.05 Hz to 150 Hz
	Diagnosis 1: 0.05 Hz to 40 Hz
	Monitor: 0.5 Hz to 40 Hz
	Surgery: 1 Hz to 20 Hz
	Enhanced: 2 Hz ~18 Hz
	Customized: High-pass Filter and Low-pass Filter
CMRR	Diagnosis: > 95 dB
	Diagnosis 1: $> 105 \text{ dB}$ (when Notch is turned on)
	Monitor: > 105 dB
	Surgery: $> 105 \text{ dB}$
	Enhanced: $> 105 \text{ dB}$
	Surgery $1: > 105 \text{ dB}$ (when Notch is turned on)
	Customized: > 105 dB (Low-pass Filter < 40 Hz)
	> 95 dB (Low-pass Filter > 40 Hz)
Hum Filter	In diagnosis, diagnosis 1, monitor, surgery, enhanced and customized modes: 50 Hz/60 Hz (Hum filter can be turned on or off manually)
D	< 5 s (measured without electrodes as IEC60601-2-
Recovery Time After Defibrillation	27:2011, Sect. 201.8.5.5.1 requires.)
ESU Protection	Cut mode: 300 W
Locifotetton	Coagulation mode: 100 W
	Restore time: ≤10 s
Pace Pulse Detecting	
Lead	one among I, II, III, aVR,, aVL, aVF, V1-V6
Leau	
Heart Rate	

Range	ADU: 15 bpm to 300 bpm PED/NEO: 15 bpm to 350 bpm
Accuracy	$\pm 1\%$ or ± 1 bpm, whichever is greater
Accuracy	
Resolution	1 bpm
PVC	
Range	ADU: (0 to 300) PVCs/ min
Range	
	PED/NEO: (0 to 350) PVCs/ min
Resolution	1 PVCs/min
accounter off	

ST value

Range	-2.0 mV to +2.0 mV
Accuracy	±0.02 mV or 10% (-0.8 mV to +0.8 mV), whichever is greater. Beyond this range: not specified.
Resolution	0.01 mV

Arrhythmia analysis

Asystole, Sustain VT, V-Fib/V-Tach, ExtremeTachy, ExtremeBrady, V-Tach, Vent Brady, Tachy, Brady, Wide QRS Tachy, Non-Sustain VT, Afib, Vent Rhythm, Acc. Vent Rhythm, Pause, Pauses/min High, PVCs High, R on T, PVC Bigeminy, PVC Trigeminy, Pacer not Pacing, Pacer not Capture, Missed Beat, VEB, PVC, Couplet, Run PVCs, IPVC, Irr Rhythm, PAC Bigeminy, Multiform PVCs, PAC Trigeminy, Low Voltage (Limb)

12-Lead ECG Synchronization Analysis

Average parameters of heart beat	PR interval (ms)
Heart rate (bpm)	QRS interval (ms)
Time limit of P wave (ms)	QT/QTC (ms)
P-QRS-T AXIS	

RESP

Method	Impedance between RA-LL, RA-LA
Measurement lead	Options are lead I and II. The default is Lead II.
RR Measuring	Adult: 0 rpm to 120 rpm
Range	Ped/Neo: 0 rpm to 150 rpm
Resolution	1 rpm
Accuracy	Adult: 6 rpm to 120 rpm: ±2 rpm 0 rpm to 5 rpm: not specified Ped/Neo: 6 rpm to 150 rpm: ±2 rpm 0 rpm to 5 rpm: not specified
Gain Selection	×0.25, ×0.5, ×1, ×2, ×3, ×4, ×5

Sweep **Apnea Delay** 6.25 mm/s, 12.5 mm/s, 25.0 mm/s, 50.0 mm/s 10 s, 15 s, 20 s (Default), 25 s, 30 s, 35 s, 40 s

NIBP

Method	Oscillometry
Mode	Manual, Auto, Continuous, Sequence
Measuring Interval	1/2/3/4/5/10/15/30/60/90/120/180/240/360/480 min,
in Auto Mode	and User Define
Continuous	5 min, interval is 5 s
Measuring Type	SYS, DIA, MAP, PR
Measuring Range	
Adult Mode	SYS: 25 mmHg to 290 mmHg
	DIA: 10 mmHg to 250 mmHg MAP: 15 mmHg to 260 mmHg
Pediatric Mode	SYS: 25 mmHg to 240 mmHg
	DIA: 10 mmHg to 200 mmHg
	MAP: 15 mmHg to 215 mmHg
Neonatal Mode	SYS: 25 mmHg to 140 mmHg
	DIA: 10 mmHg to 115 mmHg MAP: 15 mmHg to 125 mmHg
Cuff Pressure	With 15 mining to 125 mining
Measuring Range	0 mmHg to 300 mmHg
Pressure Resolution	1 mmHg
Maximum Mean	
Error	±5 mmHg
Maximum Standard	
Deviation	8 mmHg
Maximum Maximum Dania I	Adult/ Pediatric: 120 s
Measuring Period	Neonate: 90 s
Typical Measuring Period	20 s to 35 s (depend on HR/motion disturbance)
	nnel Overpressure Protection
Adult	(297±3) mmHg
Pediatric	(245±3) mmHg
Neonatal	(147±3) mmHg
SpO ₂	
Measuring Range	0% to 100%
Resolution	1%
Data update period	1 s
Accuracy	Adult/Pediatric: $\pm 2\%$ (70% to 100% SpO ₂)
	Undefined (0% to 69% SpO ₂)
	Neonatal: ±3% (70% to 100% SpO ₂) Undefined (0% to 69% SpO ₂)
	Ondermed (070 to 0770 spO2)
PI (Perfusion Index)	
	0-10, invalid SI value is -?
Measuring Range	1
Resolution	1
TEMP	

T Ch

Channel	2		
Sensor type	YSI-10K and YSI-2.252K		
Technique	Thermal resistance		
Measure Parameter	T1, T2, TD		
Position	Skin, oral cavity, rectum		
Unit	°C, °F		
Measuring Range	0°C to 50°C (32 °F to 122 °F)		
micasuring Kange			
Resolution	0.1°C ((0.1 °F)		
0 0			
Resolution	0.1°C (0.1 °F)		
Resolution	0.1°C (0.1 °F) ±0.3 °C (±0.54 °F)		
Resolution Accuracy	0.1°C (0.1 °F) ±0.3 °C (±0.54 °F)		

PR



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PR (SpO ₂)		Measure Parameters	C.O., TB, TI
Measuring range	EDAN: 25 bpm to 300 bpm	Measuring Range	C.O.: 0.1 L/min to 20 L/min
Accuracy	EDAN: ±2 bpm		TB: 23°C to 43° C(73.4 °F to 109.4 °F)
Resolution	EDAN: 1 bpm	Resolution	TI: -1° C to 27° C(30.2 °F to 80.6 °F) C.O.: 0.1 L/min
PR (NIBP)		Resolution	TB, TI: 0.1° C (+0.1 °F)
Measuring range	EDAN: 40 bpm to 240 bpm	Accuracy	C.O.: $\pm 5\%$ or ± 0.2 l/min, whichever is greater
Accuracy	EDAN: ± 3 bpm or 3.5%, whichever is greater		TB: ±0.1° C (not including sensor)
Resolution	EDAN: 1 bpm		TI: ±0.1° C (not including sensor)
PR (IBP)			
Measuring range	EDAN: 20 bpm to 300 bpm	Safety Specifications	JEC 60601 1, 2005 (A1 (2012) JEC 60601 1 2, 2014)
Accuracy	EDAN: 30 bpm to 300 bpm: ± 2 bpm or $\pm 2\%$, whichever is greater;	Compliant with Standards	(IEC 60601-1: 2005+A1 :2012; IEC 60601-1-2: 2014; EN 60601-1: 2006+A1 :2013; EN 60601-1-2: 2015; IEC 60601-2-49: 2018)
	20 bpm to 29 bpm: undefined	Anti-electroshock	
Resolution	EDAN: 1 bpm	Туре	Class I equipment and internal powered equipment
		Anti-electroshock	
IBP		Degree	CF
Channel	2	Ingress Protection	(IPX1)
Technique	Direct invasive measurement		
Measuring range	Art: 0 mmHg to +300 mmHg	Environmental Specific	
	PA: -6 mmHg to +120mmHg CVP/RAP/LAP/ICP: -10 mmHg to +40 mmHg P1/P2: -50 mmHg to +300 mmHg	Temperature	Working: $+0^{\circ}$ C to $+40^{\circ}$ C (32 °F \sim 104 °F) When the battery is charged: $+0^{\circ}$ C to $+35^{\circ}$ C (32 °F \sim 95 °F) Transport and Storage: -20° C to $+55^{\circ}$ C (-4° F \sim 131 °F)
Resolution	1 mmHg	Humidity	Working: 15%RH to 95%RH (non-condensing)
Accuracy	$\pm 2\%$ or ± 1 mmHg, whichever is greater		Transport and Storage: 15%RH to 95%RH (non-
Unit	(not including sensor) kPa, mmHg, cmH ₂ O	Altitude	condensing) Working: 86 kPa to 106 kPa Transport and Storage: 70 kPa to 106 kPa
CO ₂			
Intended patient	Adult, Pediatric, Neonatal		
Measure Parameters	EtCO ₂ , FiCO ₂ , AwRR		
Unit	mmHg, %, kPa		
Measuring Range	EtCO ₂ : 0 mmHg to 150 mmHg (0% to 20%) FiCO ₂ : 0 mmHg to 50 mmHg		
Resolution	AwRR: 2 rpm to 150 rpm EtCO ₂ : 1 mmHg FiCO ₂ : 1 mmHg AwRR: 1 rpm		
EtCO ₂ Accuracy	Awikk, i ipin		
Typical conditions:	±2 mmHg, 0 mmHg to 40 mmHg		
Ambient temperature:	±5% of reading, 41 mmHg to 70 mmHg		
(25 ± 3) °C	$\pm 8\%$ of reading, 71 mmHg to 100 mmHg		
Barometric pressure:	$\pm 10\%$ of reading, 101 mmHg to 150 mmHg		
(760 ± 10) mmHg Balance gas			
: N ₂			
Sample gas flowrate:			
100 ml/min			
All conditions AwRR Accuracy	$\pm 12\%$ of reading or ± 4 mmHg, whichever is greater ± 1 rpm		
Sample Gas Flowrate	50 ml/min, 70 ml/min or 100 ml/min(default), accuracy: ±15 ml/min		
Warm-up time	Display waveform within 20 s, Reach the design accuracy within 2 minutes.		
Response time	 < 4 s (with 2 m gas sampling tube, sample gas flowrate: 100 ml/min/70 ml/min) < 5.5 s (with 2 m gas sampling tube, sample gas flowrate: 50 ml/min) 		
Barometric pressure compensation	Automatic (The change of barometric pressure will not add additional errors to the measurement values.)		
Zero Calibration	Support		
Calibration	Support (It is recommend to be operated by trained		
Apnea delay	personal.) 10 s, 15 s, 20 s (Default), 25 s, 30 s, 35 s, 40s		
C.O.			
Technique	Thermodilution Technique		
uv	· · · · · · · · · · · · · · · · · · ·		

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