



Main Unit Specification

Physical Specifications

Dimension	330.1 mm (W) × 244.2 mm (H) × 176.2 mm (D)
Weight	4.0 kg (Standard configuration with battery, excluding recorder and accessories)

Power Supply

AC Voltage	100 V to 240 V
Input Current	0.6 A to 0.3 A
Frequency	50 Hz/60 Hz
Over Current Fuse Protection	Support

Battery

Battery Type	Rechargeable lithium-ion battery
Operating Time	One battery ≥ 4 h (2550 mAh)
	One battery ≥ 8 h (5100 mAh)
Charge Time	One battery ≤ 3.5 h (monitor is off) (2550 mAh)
	≤ 5.5 h (monitor is on or standby)
	One battery ≤ 6.5 h (monitor is off) (5100 mAh)
	≤ 11 h (monitor is on or standby)

Display

Display screen	13.3-inch color TFT, touch screen optional
Resolution	1920 × 1080
Messages	A maximum of 10 waveforms

Recorder

Record Width	48 mm
Record Paper Width	50 mm
Paper Speed	12.5 mm/s, 25 mm/s, 50 mm/s
Number of waveform channels	A maximum of 3

Data Storage

Trend data	48 hours @ 1 s
	240 hours @ 1 min
NIBP Measurement	At least 1600 sets
Alarm Events	Up to 1800 sets
Full Disclosure Waveform	48 hours @ 1 s

Wi-Fi

IEEE	802.11a/b/g/n
Frequency Band	2.4 G/5 G

Interfaces and Others

Analog Output	1
Defibrillator Synchronization	1
Nurse Call	1
USB Interfaces	2
Video Output Interface	1
Ethernet interface (RJ-45)	1

ECG

Lead Mode	3 Electrodes: I, II, III
	5 Electrodes: I, II, III, aVR, aVL, aVF, V
	6 Electrodes: I, II, III, aVR, aVL, aVF, and leads corresponding to Va Vb
	10 Electrodes: I, II, III, aVR, aVL, aVF, V1-V6
Lead naming style	AHA, IEC
Display Sensitivity	×0.125, ×0.25, ×0.5, ×1, ×2, ×4, AUTO gain
Sweep	6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s
Bandwidth (-3 dB)	Diagnosis: 0.05 Hz to 150 Hz
	ST: 0.05 Hz to 40 Hz
	Monitor and Monitor (Hi-Fi): 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 (See Changing the ECG Filter Settings)
	Diagnosis: > 95 dB
	ST: > 105 dB
CMRR	Monitor and Monitor (Hi-Fi): > 105 dB
	Surgery: > 105 dB
	Enhanced: > 105 dB
	Customized: > 105 dB (Low-pass Filter < 40 Hz)
> 95 dB (Low-pass Filter > 40 Hz)	
Hum Filter	In diagnosis, ST, monitor, surgery, enhanced and customized modes: 50 Hz/60 Hz (Hum Filter can be turned on or off manually)
Recovery Time After Defibrillation	< 5 s (measured without electrodes as IEC60601-2-27:2011, Sect. 201.8.5.5.1 requires.)
ESU Protection	Cut mode: 300 W
	Coagulation mode: 100 W
	Restore time: ≤10 s
Pace pulse detection	one among I, II, III, aVR, aVL, aVF, V1-V6

Heart Rate

Range	ADU: 15 bpm to 300 bpm
	PED/NEO: 15 bpm to 350 bpm
Accuracy	±1% or ±1 bpm, whichever is greater
Resolution	1 bpm (For display and alarm limit)

PVCs	
Range	ADU: 0 to 300 PVCs/ min PED/NEO: 0 to 350 PVCs/ min
Resolution	1 PVCs/min (For display and alarm limit)

Pause/min	
Range	ADU/PED/NEO: (0 to 30) pauses/min
Resolution	1 pause/min (For display and alarm limit)

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

QT measurement	
Range	200 ms ~ 800 ms
Resolution	4 ms (For display)
Accuracy	± 30 ms

QTc measurement	
Range	200 ms ~ 800 ms
Resolution	1 ms (For display and alarm limit)

Δ QTc measurement	
Range	-600 ms ~ 600 ms
Resolution	1 ms (For display and alarm limit)

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

RESP	
Method	Impedance between RA-LL, RA-LA
Measurement lead	Options are lead I and II. The default is lead II.
Measuring range	0 rpm to 200 rpm
Resolution	1 rpm (For display and alarm limit)
Accuracy	0 rpm to 120 rpm: ± 1 rpm 121 rpm to 200 rpm: ± 2 rpm
Gain Selection	$\times 0.25$, $\times 0.5$, $\times 1$, $\times 2$, $\times 3$, $\times 4$, $\times 5$
Sweep	6.25 mm/s, 12.5 mm/s, 25.0 mm/s, 50.0 mm/s
No Breath Detected Alarm Time Setup	10 s, 15 s, 20 s (Default), 25 s, 30 s, 35 s, 40 s

EDAN Module NIBP	
Method	Oscillometry
Mode	Manual, Auto, Continuous, Sequence
Measuring Interval in Auto Mode	1/2/2.5/3/4/5/10/15/30/60/90/120/180/240/360/480 min 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

Neonatal Mode	DIA: 10 mmHg to 200 mmHg MAP: 15 mmHg to 215 mmHg SYS: 25 mmHg to 140 mmHg DIA: 10 mmHg to 115 mmHg MAP: 15 mmHg to 125 mmHg 0 mmHg to 300 mmHg
Cuff Pressure Measuring Range	
Pressure Resolution	1 mmHg (For display and alarm limit)
Maximum Mean Error	± 5 mmHg
Maximum Standard Deviation	8 mmHg
Maximum Measuring Period	Adult/ Pediatric: 120 s Neonatal: 90 s
Typical Measuring Period	iCUPS measurement: 20 s to 35 s iFAST measurement: 15 s
Dual Independent Channel Overpressure Protection	Adult: (297 \pm 3) mmHg Pediatric: (245 \pm 3) mmHg Neonatal: (147 \pm 3) mmHg

EDAN Module 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: $\pm 3\%$ (70% to 100% SpO ₂) Undefined (0% to 69% SpO ₂)

PI (Perfusion Index)	
Measuring Range	0.05% to 20%, invalid PI value is -?-.
Resolution	0.01% (0.05%-9.99%) 0.1% (10.0%-20.0%)

PR	
PR (SpO ₂)	
Measuring range	20 bpm to 300 bpm
Accuracy	± 2 bpm
Resolution	1 bpm (For display and alarm limit)

PR (NIBP)	
Measuring range	40 bpm to 240 bpm
Accuracy	± 3 bpm or 3.5%, whichever is greater
Resolution	1 bpm (For display)

PR (IBP)	
Measuring range	20 bpm to 300 bpm
Accuracy	30 bpm to 300 bpm: 2 bpm or 2%, whichever is greater 20 bpm to 29 bpm: Undefined
Resolution	1 bpm (For display and alarm limit)

TEMP	
Channel	2
Sensor Type	YSI-10K and YSI-2.252K
Technique	Thermal resistance
Measure Parameter	T1, T2, TD (the absolute value of T2 minus T1)
Position	Skin, cavity
Unit	$^{\circ}\text{C}$, $^{\circ}\text{F}$
Measuring Range	0°C to 50°C (32°F to 122°F)
Resolution (For display and alarm limit)	0.1°C (0.1°F)
Accuracy	(1) Sensor accuracy: $25^{\circ}\text{C} \sim 45^{\circ}\text{C}$: ± 0.1 ; Others: $\pm 0.2^{\circ}\text{C}$

Transient Response Time	(2) Without sensor accuracy: $\pm 0.1^{\circ}\text{C}$ ≤ 30 s
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IBP

Channel	2
Technique	Direct invasive measurement
Measuring Range	-50 ~ +360 mmHg
Resolution	1 mmHg (For display and alarm limit)
Accuracy (not including sensor)	$\pm 2\%$ or ± 1 mmHg, whichever is greater
Unit	kPa, mmHg, cmH ₂ O

EDAN G2 Sidestream Module CO₂

Intended patient	Adult, pediatric, neonatal
Measure Parameters	EtCO ₂ , FiCO ₂ , AwRR
Unit	mmHg, %, kPa
Measuring Range	EtCO ₂ : 0 mmHg to 152 mmHg FiCO ₂ : 0 mmHg to 50 mmHg AwRR: 0 rpm to 150 rpm
Resolution (For display and alarm limit)	EtCO ₂ : 1 mmHg FiCO ₂ : 1 mmHg AwRR: 1 rpm
EtCO ₂ Accuracy	
Typical conditions:	± 2 mmHg, 0 to 40 mmHg
Ambient temperature: (25 \pm 3) $^{\circ}\text{C}$	$\pm 5\%$ of reading, 41 to 70 mmHg
Barometric pressure: (760 \pm 10) mmHg	$\pm 8\%$ of reading, 71 to 100 mmHg
Balance gas: N ₂	$\pm 10\%$ of reading, 101 to 150 mmHg
Sample gas flowrate: 100 ml/min	
AwRR Accuracy	± 1 rpm
Sample Gas Flowrate	50 ml/min, 70 ml/min or 100 ml/min (optional), accuracy: ± 15 ml/min
Warm-up Time	Display reading within 20 s; reach to the designed 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 personal.)
No Breath Detected Alarm Delay	10 s, 15 s, 20 s (Default), 25 s, 30 s, 35 s, 40 s

Safety Specifications

Compliant with Standards	IEC 60601-1; IEC 60601-1-2; EN 60601-1; EN 60601-1-2; IEC 80601-2-49
Anti-electroshock Type	Class I equipment and internal powered equipment
Anti-electroshock Degree	CF
Ingress Protection	IPX1

Environmental Specifications

Temperature	Working: $+0^{\circ}\text{C}$ to $+40^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ ~ 104 $^{\circ}\text{F}$) Transport and storage: -20°C to $+60^{\circ}\text{C}$ (-4 $^{\circ}\text{F}$ ~ 140 $^{\circ}\text{F}$)
Relative Humidity	Working: 15%RH to 95%RH (non-condensing) Transport and storage: 10%RH to 95%RH (non-condensing)
Barometric Pressure	Working: 57 kPa to 107.4 kPa Transport and storage: 16 kPa to 107.4 kPa

C.O.

Technique	Thermodilution Technique
Measure Parameters	C.O.: TB, TI
Measuring Range	C.O.: 0.1 L/min to 20 L/min TB: 23°C to 43°C (73.4 $^{\circ}\text{F}$ to 109.4 $^{\circ}\text{F}$) TI: -1°C to 27°C (30.2 $^{\circ}\text{F}$ to 80.6 $^{\circ}\text{F}$)
Resolution (For display and alarm limit)	C.O.: 0.1 L/min TB, TI: $\pm 0.1^{\circ}\text{C}$ ($\pm 0.1^{\circ}\text{F}$)
Accuracy	C.O.: $\pm 5\%$ or ± 0.2 L/min, whichever is greater TB: $\pm 0.1^{\circ}\text{C}$ ($\pm 0.18^{\circ}\text{F}$) (not including sensor) TI: $\pm 0.1^{\circ}\text{C}$ ($\pm 0.18^{\circ}\text{F}$) (not including sensor)

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