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AnyView A3

Modular Patient Monitor

NEW

TECHNICAL SPECIFICATION: A3

Anyview A3 Main Unit

Size and Weight

- Size : 278mmX250mmX192mm
- **Weight : ≤4.2kg**
- Standard module slot: 1
- Additional module rack Slot : 1

Power supply

- Power Voltage: AC 100-240V 50/60Hz
- **Power Input: ≤150VA**
- Input Current: 1.0~0.5A
- Safety class: Category I

Display

- **8" Color Anti-glare TFT-LCD**
- Resolution : 800X600 pixels

Battery

- Type: Rechargeable Lithium battery, 11.1V/4.0AH
- **Operating time under the normal use and full charge : ≥200minutes**
  Charge time: 6 hour to 100% capacity（Standby）

Recorder (Option)

- Method : Thermal dot array
- Paper width : 50 mm (1.97 in)
- Paper length: 15m
- Paper Speed : 12.5 / 25 / 50 (mm/sec)
- Traces : Maximum 3 tracks
- Recording way : Real-time recording, Periodic recording, Alarm recording

Alarm

- Level : Low, medium and high
- Indication : Auditory and visual
- Patient Physiological Alarm Light color: Yellow & Red:
- Equipment Technical Alarm Light color: Blue
- Supports Pitch Tone and multi-level volume;
- Supports custom arrhythmia tone

Input device

- Touch screen: option.
- Knob: standard config
- Mouse input: Support
- Keyboard input:Support

System Output & Extensible Interfaces

- Ethernet Network : 1 Standard RJ45 socket
- Defibrillation Output :1 RJ11 socket
- Nurse Call: 1 BNC socket
- Video Output : 1 VGA port
- USB1.1 port : 2
- 12V DC input. 1 socket
- SD meomery card : 2G (Option)
- Analog Output (ECG or IBP) : Option

Trend & Reviewing :

- Trend : 168 hours
- NIBP measurement reviewing : 1000 groups
- ARR event: 128 groups of ARR event and the associated waveform.
- Alarm events: 128 groups of parameter alarm events and associated parameter waveform at the alarm moment
- Full Disclosure waveform： 24 hours for 3 waveforms

Environment

- Operating temperature : 0~+40℃
- Storage temperature : -20℃ ~ +50℃
- Operating humidity : 15% to 85%（non condensing）
- Storage humidity :10% to 93%（non condensing）
- Operating atmospheric pressure : 860hPa to 1060hPa
- Storage atmospheric pressure :500hPa to 1060hPa

Safety:

- IEC60601-1 Approved, CE marking according to MDD93/42/EEC

Performance:

ECG

- Lead Mode : 3-leads ECG input
  5-leads ECG input
  12-leads ECG input
- Lead selection :I, II, III
  I, II, III, aVR, aVL, aVF, V-
  I, II, III, aVR, aVL, aVF, V1~V6 (option)
- Gain : 2.5 mm/mV(x0.25), 5 mm/mV(x0.5), 10 mm/mV(x1), 20 mm/mV(x2),40mm/mv(x4),Auto
- **CMRR : Monitor mode≥105dB**
  Surgery mode ≥105dB
  Diagnostic mode≥90dB
- Frequency response (-3d B):
  Monitor mode 0.5~40Hz
  Surgery mode 1~25Hz
  Diagnostic mode 0.05~150Hz
- **Input impedance : ≥5.0 Mohm**
- ECG signal range: ± 10.0mV
- Electrode offset potential: ± 500mV
- Patient Leakage Current : <10 uA
- Standardizing signal :1 mV ± 5%
- Baseline recovery : <5s after Defibrillation. (Mon or Surg mode)
- Indication of electrode separation : Every electrode (exclusive of RL)
- Protection: Breakdown Voltage 4000VAC 50/60Hz; defibrillator proof
- Sweep speed : 12.5mm/s, 25mm/s, 50mm/s

HR

Range : Adult 10~300 bpm
Pediatric & Neonate: 10～350bpm

Refreshing time : ≤50 bpm Per 2 pulses
50~120bpm Per 4 pulses
≥120bpm Per 6 pulses

- Resolution : 1 bpm
- Accuracy : ± 1% or ± 1bpm, whichever is greater

ST segment

- Measurement range : -2.0mV~2.0mV
- Accuracy: -0.8mV~0.8mV：±0.02mV or ±10%, whichever is greater
  Over±0.8mV unspecified
- Resolution : 0.01mV

RESP

- Method : Thoracic impedance
- Lead Selected from: I (RA-LA) or II (RA-LL); Default: I
- Gain : x0.25, x1，x2，x4
- Bandwidth: 0.25 Hz to 2.0Hz（-3dB）
- Sweep speed : 6.25mm/s, 12.5mm/s, 25mm/s
- Measurement Range : 0~150 rpm
- Resolution : 1 rpm
- Accuracy : ± 2rpm or ± 2%, whichever is greater
- Delay of Apnea Alarm : 10s,15s,25s,30s,35s,40s,45s,50s,55s, 60s

NIBP

- Way of measurement : Automatic oscillometry
- Range of measurement :

Adult :	SYS	30~270 mmHg
	DIA	10~220 mmHg
	MAP	20~235 mmHg
Child:	SYS	30~235 mmHg
	DIA	10~220 mmHg
	MAP	20~225 mmHg
Neonate:	SYS	30~135 mmHg
	DIA	10~100 mmHg
	MAP	20~125 mmHg

- Cuff pressure range : 0~300 mmHg
- Resolution : 1 mmHg
- Pressure Accuracy : Static : ± 2% or ± 3mmHg , whichever is greater
  Clinical : ±5 mmHg average errorr
  standard deviation : ≤8 mmHg
- Unit: mmHg, kPa
- Measurement mode:Manual , Auto, STAT
- Intervals for AUTO measurement time : 1,2,3,4,5,10,15,30,60,90 minutes; 2,4,8,12hours
- STAT mode cycle time : Keep 5 minutes, at 5 seconds interval.
- Overpressure Protection : Hardware and software double protections
- Pulse rate range : 40 ~ 240 bpm

BLT-SpO2 (Digital Technic)

- Measurement Range : 0~100%
- Resolution: 1%
- Accuracy: At 70~100%, ± 2%
  At 0~69%, unspecified

PR

- Measurement Range : 25~255 bpm
- Resolution : 1 bpm
- Accuracy : ± 1% or ± 1 bpm, whichever is greater

Nellcor-SpO2 (option)

- Measurement Range : 0~100%
- Resolution : 1%
- Accuracy : At 70~100%, ±2% (Adult)
  At 70~100%, ±3% (Neonate)
  At 70~100%, ±2% (Low Perfusion)
  At 0~69%, unspecified

PR

- Measurement Range : 20~300 bpm
- Resolution : 1 bpm
- Accuracy : 20bpm to 250bpm: ± 3bpm
  251bpm to 300bpm: unspecified

Masimo SpO2 (option)

- Measurement range:0% to 100%
- Resolution: 1%
- Accuracy: 70% to 100%：±2%(adult/pediatric, non-motion conditions）
  70% to 100%：±3%(neonate, non-motion conditions）
  70% to 100%：±3%(motion conditions）
  0% to 69%，unspecified
- Average time: 2-4s, 4-6s, 8s, 10s, 12s, 14s, 16s

PR

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

TEMP

- Max Channel : 4
- Measurement way: Thermal resistance way
- Measurement Range : 0.0℃ ~ 50.0℃ (32°F~122°F)
- Accuracy : ±0.1℃or±1°F(exclusive of probe)
- Resolution : 0.1℃ or 1°F
- Unit : Celsius (℃), Fahrenheit (°F)
- Connecting cable : Compatible with YSI-400 serial

IBP

- Max Channel : 4
- Measurement way: Directly invasive pressure measurement
- Sensitivity of transducer: 5uV/V/ mmHg, ±2%
- **Impedance of transducer: 300 to 3000Ω**
- Measurement Range : -50 ~ +350 mmHg
- Resolution : 1mmHg
- Unit : mmHg, kPa,cmH2O
- Accuracy :
  Static: ±1mmHg or 2%, whichever is greater (exclusive of transducer)
  ±4mmHg or 4%, whichever is greater (inclusive of transducer)
  Dynamic : ±4mmHg or 4%, whichever is greater
  Transducer sites : Arterial Pressure (ART)
  Pulmonary Artery Pressure (PA)
  Left Atrium Pressure (LAP)
  Right Atrium Pressure (RAP)
  Central Venous Pressure (CVP)
  Intracranial Pressure (ICP)
  P1/P2
- Selection of measurement range :
  ART : 0 ~ +350mmHg
  PA : -10 ~ +120 mmHg
  CVP/RAP/LAP/ICP: -10 ~ +40 mmHg
  P1/P2 : -50 ~ +350 mmHg

$EtCO_2$ (Mainstream)

- Measure method : Infrared spectrum
- Warm up time : Capnogram displayed in less than 15 seconds, At an ambient temperature of 25 ℃ ,full specifications within 2 minutes.
- Measurement Range : 0.0~19.7% (0~150 mmHg)
- Resolution : 1 mmHg
- **Rise time (10 l/min) : ≤ 60 ms**
- Unit : %, mmHg, kPa
- CO_2 Accuracy 0 - 40 mmHg, ± 2mmHg
  41 - 70 mmHg,± 5% or reading
  71 - 100 mmHg,± 8% or reading
  101 - 150 mmHg, ± 10% of reading
  (at 760 mmHg, ambient temperature of 35 ℃)
- awRR measurement range: 0~150 rpm
- awRR measurement Accuracy: ± 1 rpm

$EtCO_2$ (Microstream)

- Measure method : Infrared spectrum
- Warm up time : Capnogram displayed in less than 20 seconds, At an ambient temperature of 25 ℃ , full specifications within 2 minutes.
- Measurement Range : 0 - 19.7%(0-150mmHg)
- Resolution : 1mmHg
- Unit : %, mmHg, kPa
- CO_2 Accuracy: 0 - 40 mmHg, ± 2mmHg
  41 - 70 mmHg,± 5% of reading
  71 - 100 mmHg,± 8% of reading
  101 - 150 mmHg,± 10% of reading
  (at 760 mmHg, ambient temperature of 25 ℃)
  (when RR＞80 rpm, all the range is ± 12% or reading)
  CO_2 response time: ＜ 3s
- awRR measurement range 2~150 bpm
- awRR measuremen Accuracy : ± 1rpm
- Sample Flow Rate 50 ml/min ± 10ml/min

Anesthetic Gas

- Measure method : Infrared spectrum
- Measure mode : Mainstream
- Fi and Et values : CO_2，N_2O，O_2，AG (HAL, ISO, ENF, SEV, DES)
- Resolution : 1%
- Unit : %.
- Calibration : Room air calibration performed automatically when changing airway adapter (<5 sec)
- Warm-up time : <10 s, full accuracy within 1 min
- Measurement and alarm range of AG:

Gas	Range	Accuracy
CO2	0-10 %	±（0.3% ABS+4% REL）
N2O	0-100 %	±（2% ABS+8% REL）
O2	10-100 %	±（2% ABS+2% REL）
HAL, ISO, ENF	0-5%	±（0.15% ABS+10% REL）
SEV	0-8%	±（0.15% ABS+10% REL）
DES	0-18%	±（0.15% ABS+10% REL）

- awRR measurement range : 0~150 rpm
- awRR measurement Accuracy : ± 1rpm
- **Rise time (flowing speed 10 l/min) CO2 ≤ 90 ms**
  O2 ≤ 300 ms
  N2O ≤ 300 ms
  Hal, Iso, Enf, Sev, Des ≤ 300 ms
- Total system response time : < 1 seconds

Noninvasive Cardio Output (ICG):

Method: Measurement of thoracic electrical bioimpedance

- Measurement Range: HR: 40~250 bpm
  SV: 5~250ml
  SI: 5~125mL/m2
  C.O. : 1.4~15 L/min
  TFC : 15~143 KΩ
- Accuracy: HR ± 2bpm
  SV: unspecified
  C.O unspecified
- Alarm range: C.I.: 0.0 L/min/m2 to 15.0 L/min/m2 continuously adjustable.
  TFC: 10 /kΩ to 150 /kΩ continuously adjustable.

Standard configation of Anyview A3:

Mainunit: 8" anti-glare TFT-LCD display, 1 Standard module slot, 1 Additional module rack Slot (for MPS all-in-one module), 1 RJ45 enthernet socket, 1 Defibrillation Output, 1 Nurse Call socket, 1 VGA output port, 2 USB1.1 port, 1 12V DC input socket, 1 Rechargeable Lithium Battery.

Option of AnyView A3:

MPS module: 12 kinds of option
Option Module: Sidestream CO_2 module,Microstream CO_2 module,Mainstream CO_2 module,AG module,ICG module,IBP module,Temp module,SpO_2 module
Navigating: USB compatible mouse and keyboard,Touch screen (option).
Printing: 3 channel thermal recorder
Mounting Rolling stand , wall mount
Battery: 11.1V/4.0AH Rechargeable Lithium Battery(max 2 pcs),
Other options: External Display, Wireless Lan,Extensive Memory card, Analog Output (ECG or IBP), Touch Screen.

*Specifications subject to change without prior notice.

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