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The **Axia V1500A** is a patient Monitor design for a Fast Pace environment like an Emergency Room and ICU. The Axia V1500A comes with a high resolution 15 inch touch screen making it easy to adapt for every situation. With quick adjustments, the default settings, alarm limits, and the ability to hold up to 72 hours of trending data. The Axia V1500A offers standard measurements including; non-invasive blood pressure, ECG with arrhythmia detection, SpO2, temperature, and respiration rate. Additional measurements can be monitored by adding a plug-in module for End-tidal CO2, anesthesia Agent Measurements, and invasive blood pressure. The Axia Monitor offers a variety of ways to connect the monitor to the facilities' networking system. Making it easy to Save, store and transfer the patient's data when needed.

Features

- 15-Inch touchscreen display.

- Manage up to 72 hours of detailed patient data.

- Easily upgradeable from a basic vital signs monitor, to a continuous bedside monitor, to an operating room monitor while keeping the patient on a single monitor at all times.

- Offers Ethernet and RS-232 connections with open source communication protocol.

- HL7 compliant.

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Specifications

Applications

Neonatal

Pediatric

Adult Patients

Anesthetic Measurement

General

Display: 15-inch color touchscreen

Trace: 8 waveforms

Indicator: Alarm indicator, Power indicator, QRS beep and alarm sound

Trend time: 1 - 72 hour

Recorder

Type: Built-in, thermal array, 3 channels

Record Width: 48mm

Recorder Paper: 50mm

Record Speed: 25mm/s, 50mm/s

Networking

Industry standard 802.11b/g wireless network

Power

Source: External AC power or internal battery

AC Power: 100 ~ 240VAC, 50/60Hz, 150VA

Battery: Built-in & rechargeable lithium ion

Operating Time: 3+ hours

Environmental

Operating Temperature: 5 ~ 40 °C

Storage Temperature: -20 ~ 65 °C

Operating Humidity: ≤80%

Storage Humidity: ≤80%

ECG

Input: 5-lead ECG cable and standard AAMI line for connection
Lead Choice: I, II, III, aVR, aVF, aVL, V, V1-V6, TEST

Gain Choice: x0.5, x1, x2, x4

Frequency Characteristic: 0.05 ~ 35 HZ (+3dB)

ECG Waveforms: 7 channels

Penetration Voltage: 4000VAC 50/60Hz

Sweep Speed: 12.5, 25, 50 and 100 mm/sec (left to right or right to left)

HR Display Range: 30 ~ 300bpm

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

Alarm Limit Range Setting: Upper limit 10

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Specifications

RESP

Measure Method: RA-LL impedance

Range: 0 ~ 120 rpm

Accuracy: ±3 rpm

Alarm Limit Setting: Upper limit 6 ~ 120 rpm,; lower limit 3 ~ 120 rpm

Sweep Speed: 12.5, 25, 50 and 100 mm/sec (left to right or right to left)

SpO2

ASpO2: Anti-motion SpO2

SpO2% Range: 0-100%

SpO2 Accuracy: ±2% (70 ~ 100%, non-motion); ±3% (70 ~ 100%, motion)

Pulse Rate Range: 30-250 bpm

Pulse Rate Accuracy: ±2 bpm (non-motion; ±3 bpm (motion)

Alarm Limit Setting: Upper limit 70 ~ 100%,; lower limit 70 ~ 100%

SpO2 Probe: Red light LED wavelength 660nm±5nm; Infrared light LED wavelength 940nm±10nm

NIBP

Measuring Technology: Automatic oscillating measurement

Cuff Inflating: <30s (0 ~ 300 mmHg, standard adult cuff)

Measuring Period: AVE<40s

Mode: Manual, Auto

Measuring Interval in AUTO Mode: 2 min ~ 4 hrs

Pulse Rate Range: 30 ~ 250 (bpm)

Adult/Pediatric Mode: SYS: 40 ~ 250 (mmHg); DIA: 15 ~ 200 (mmHg)

Neonatal Mode: SYS: 40 ~ 135 (mmHg); DIA: 15 ~ 100 (mmHg)

Maximum Mean error: ±5mmHg

Maximum Standard deviation: 8mmHg

Resolution: 1mmHg

Overpressure Protection: Adult Mode: 300 (mmHg); Neonatal Mode: 160 (mmHg)

Alarm Limit Setting: SYS: 50 ~ 240 mmHg

DIA: 15 ~ 180 mmHg

Temp

Range: 25 ~ 50 (°C)

Accuracy: ± 0.2°C (25.0 ~ 34.9°C); ± 0.1°C (35.0 ~ 39.9°C); ± 0.2°C (40.0 ~ 44.9°C); ± 0.3°C (45.0 ~ 50.0°C)

Display Resolution: 0.1°C

Alarm Limit Setting: Upper limit 0 ~ 50°C, lower limit 0 ~ 50°C

Channel: 2 channels

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Specifications

IBP

Measurement Range: -50 ~ 300mmHg

Channel: 2 channels

Pressure Transducer: Sensitivity, 5μV/V/mmHg

Impedance Range: 300 ~ 3000Ω

Transducer Sites: ART, PA,CVP, RAP, LAP, ICP

Unit: mmHg/kPa selectable

Resolution: 1mmHg

Accurancy: ±1mmHg or ±2%, whichever is greate**r**

AlarmRange: -10 ~ 300mmHg

EtCO2

CO2 Measurement Range: 0 ~ 99mmHg

Accuracy: ±2mmHg (0 ~ 38mmHg); 39-99mmHg ±5% of reading +0.08% for every 1mmHg (above 38mmHg)

Sampling Rate: 50 ml/min

Initialization Time: 30 seconds (typical), reaches ±5% steady-state accuracy within 3 minutes

Respiration Rate: 0 ~ 150 breaths

Mode: Adult, neonate

C.O (Cardiac Output)

Measurement Method: Thermodilution Method

Measurement Range: C.O.: 0.1 to 20 L/min; TB: 23 to 43°C; TI: 0 to 27°C

Resolution: C.O.: 0.1 L/min; TB, TI 0.1°C

Accuracy: C.O. ±5% or ±0.1 L/min, whichever is greater, as measured using electronically generated flow curves.**;** TB, TI: ±0.1(without sensor)

Alarm Range: TB 23 to 43°C

Repeatability: C.O. ±2% or ±0.1 L/min, whichever is greater, as measured using electronically generated flow curves

Anesthetic Agents

Method: Infrared absorption

Gas Sorts: Halothane, Isoflurane, Enflurane, Sevoflurane, Desflurane, CO2, N2O, O2 (optional Automatic Agent ID)

Measurement Range: Halothane, Isoflurane: 0 ~ 8.5%; Enflurane, Sevoflurane: 0 ~ 10%; Desflurane: 0 ~ 20%; CO2: 0 ~ 10%; N2O: 0 ~ 100%; O2: 0 ~ 100%

Bias: Halothane, Isoflurane, Enflurane, Sevoflu rane, Desflurane: ±(0.15 Vol% + 15% rel.); CO2: ±(0.5 Vol% + 12% rel.); N2O: ± (2 Vol% + 8% rel.); O2: ±3 Vol%

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