Axia V1500A Patient Monitor

The **Axia V1500A** patient monitors is designed for a fast paced work environment. It offers standard measurements of NIBP, ECG, SpO2, Temperature, and Respiration. End-tidal CO2, Anesthetic Agent Measurement, Cardiac Output, and Invasive Blood Pressure can be added on-site by attaching plug-in modules. The V1500A has a 15-Inch high resolution touchscreen monitor to optimize the speed of patient care.

Features

- 15-Inch touchscreen display.
- Manage up to 72 hours of detailed patient data.
- Easily upgradable 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 greater

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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