

## Axia V1500A Touch Screen Patient Monitor

The Axia V1500A monitor is designed for a fast paced work environment with an intuitive touch screen. The patient information along with vital sign settings can be quickly modified to meet the needs of a patient's changing condition. Its upgradable design fits-in and moves amongst many patient care areas. Offers ECG with arrhythmia detection, standard measurements of: non-invasive blood pressure, motion tolerant SpO<sub>2</sub>, temperature, respiration rate and capnography.

The Axia V1500A monitor offers several connective solutions to network multiple monitors and/or manage patient data on an electronic medical records platform or a based hospital information system.



- **Optional:** integrated Dräger 5-Agent Anesthesia Gas Bench with CO<sub>2</sub> capabilities

### Features:

- High resolution 15 inch touch-screen display
- Capnography with EtCO<sub>2</sub> monitoring (**optional**)
- Auto setting of alarm limits
- Color-coded alarms
- Graphical and tabular trends (72 hours)
- Patient data entry
- OxiCRG, drug dose calculation
- Trace: 8 wave forms
- Trend Time: 1 - 72 Hours
- Networking capability (wireless and non-wireless)
- Color of the waveforms can be changed
- Battery backup (removable batteries)
- Weight: 10.85 lbs.
- **Applications:** Neonatal, pediatric and adult patients

## Specifications

### GENERAL SPECIFICATIONS

- Display: 12.1 inch color touch screen
- Trace: 8 waveforms
- Indicator: Alarm indicator  
Power indicator  
QRS beep and alarm sound
- Trend time: 1 - 72 hour  
Recorder: 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 SPECIFICATIONS

- Temperature: Operating: 5 ~ 40 °C  
Storage: -20 ~ 65 °C
- Humidity range: Operating: ≤80 %  
Storage: ≤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 100 ~ 200bpm, lower limit 30 ~ 100bpm

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

### IBP

- Measurement Range: -50 ~ 300mmHg
- Channel: 2 channels
- Pressure Transducer: sensitivity, 5μV/mmHg
- Impedance Range: 300 ~ 3000Ω
- Transducer Sites: ART, PA,CVP, RAP, LAP, ICP
- Unit: mmHg/kPa selectable
- Resolution: 1mmHg
- Accuracy: ±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)  
50 ml/min
- Sampling Rate: 30 seconds (typical), reaches ±5% steady-state accuracy within 3 minutes.
- Initialization Time: 0 ~ 150 breaths
- Respiration Rate: adult, neonate
- Mode:

### 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)  
C.O. 23 to 43°C
- Alarm Range: C.O. ±2% or ±0.1 L/min, whichever is greater, as measured using electronically generated flow curves.
- Repeatability:

### 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, Sevoflurane, Desflurane: ±(0.15 Vol% + 15% rel.)  
CO2: ±(0.5 Vol% + 12% rel.)  
N2O: ± (2 Vol% + 8% rel.)  
O2: ±3 Vol%

### OTHER STANDARD FEATURES

- OxyCRG, drug dose calculation, cascading ECG, On screen NIBP trends (up to 250 readings), user set defaults, Arrhythmia detection, ST segment