



The **Axia i120** is an adult, pediatric, and neonatal patient monitor. The i120 has a 12.1-inch high-resolution touchscreen display and can measure 3 and 5-lead ECG, respiration rate, SpO2, pulse rate, NIBP, and temperature. Optional upgraded are available for 2-IBP, EtCO2, Nellcor SpO2, 12-lead ECG, SunTech NIBP, Cardiac output, and Cerebral state monitoring.

Features

- 12.1" high-resolution touchscreen display
- Displays between 9 and 13 waveform traces
- Customizable NIBP measure cycles
- 3 or 5-lead ECG and optional 12-lead ECG
- Standard configuration ECG, Respiration, SpO2, PR, NIBP, and Temperature



Specifications

Dimensions

Height: 13.15 in (33.4 cm)
Width: 12.32 in (31.3 cm)
Depth: 7 in (17.8 cm)
Weight: 12.57 lb (5.7 kg)

Display

Type: TFT Color Touchscreen
Size: 12.1 in (13.73 cm)

ECG

Input Dynamic Range: $\pm(0.5\text{mVp}\sim 5\text{mVp})$
Differential Input Impedance: $\geq 10\text{M}\Omega$
Bandwidth: 0.05~150Hz (Diagnostic); 0.5~40Hz (Monitoring); 1~20Hz (Operation)
CMRR: $\geq 90\text{dB}$ (Diagnostic); $\geq 105\text{dB}$ (Monitoring & Operation)
Sensitivity Selection: $\times 1/4$, $\times 1/2$, $\times 1$, $\times 2$, $\times 4$ and Auto
Sweeping Speed: 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s
HR Measuring Range: 15~350bpm
HR Accuracy: $\pm 1\%$ or $\pm 2\text{bpm}$, whichever is greater

Respiration Rate

Measuring Range: 0~120rpm
Measuring Accuracy: $\pm 5\%$ or $\pm 2\text{rpm}$, whichever is greater

NIBP

Type: Oscillometric
Typical Measurement Time: <30 seconds (adult cuff)
NIBP measuring accuracy: Mean difference: $\pm 5\text{mmHg}$; Standard Deviation: 8mmHg
NIBP Measurement Mode: Manual, Auto, STAT, Multi-cycle mode
Auto Measuring Intervals: 1-480min
NIBP measuring range
 SYS: 40~275mmHg (Adult); 40~200mmHg (Pediatric); 40~135mmHg (Neonate)
 DIA: 10~210mmHg (Adult); 10~150mmHg (Pediatric); 10~95mmHg (Neonate)
 MAP: 20~230mmHg (Adult); 20~165mmHg (Pediatric); 20~110mmHg (Neonate)

SpO2

Type: Dual-wavelength optical
Range: 0%~100%
Accuracy: Arms is not greater than 2% for SpO2 range 70~100%.
PR Range: 30~250bpm
PR Accuracy: $\pm 2\text{bpm}$ or $\pm 2\%$, whichever is greater
Low Perfusion Performance: As low as 0.3%.



Specifications

Temperature

Compliant: ISO 80601-2-56: 2017

Range: 32-122°F (0-50°C)

System Response Time: <150s

Alarm Accuracy: $\pm 0.1^{\circ}\text{C}$

Accuracy

Without Probe: In the range of 32-122°F (0-50°C), error is $\pm 0.1^{\circ}\text{C}$

With Probe: In the range of 77-113°F (25-45°C), error is $\pm 0.2^{\circ}\text{C}$; In other ranges, error is $\pm 0.4^{\circ}\text{C}$

Cerebral State Monitoring (CSM) (Optional)

EEG sensitivity: $\pm 400\mu\text{V}$

Noise Level: $< 2\mu\text{Vp-p}$, $< 0.4\mu\text{V rms}$ (1~250Hz)

CMRR: $> 140\text{dB}$

Input impedance: $> 50\text{Mohm}$

CSI and Update: 0-100. filter: 6-42Hz, 1 sec. update

EMG%: 0-100 (logarithmic), filter: 75-85 Hz, 1 sec. update

BS%: 0-100. filter: 2-42 Hz, 1 sec. update

IBP (Optional)

Type: Strain gauge transducer

Input Sensitivity: $5\mu\text{V/V/mmHg}$

Measuring Range: -50~300mmHg

Measuring Accuracy: $\pm 2\%$ or $\pm 4\text{mmHg}$, whichever is greater

Measuring Positions: ART, RAP, PA, LAP, CVP; ICP, AUXP1, AUXP2

Calibration: None

Cardiac Output (C.O.) (Optional)

Blood temperature Range: 73-109°F (23-43°C); accuracy: $\pm 0.9^{\circ}\text{F}$ ($\pm 0.5^{\circ}\text{C}$)

Injecta Temperature Range: 32-68°F (0-20°C), accuracy: $\pm 0.9^{\circ}\text{F}$ ($\pm 0.5^{\circ}\text{C}$)

Measuring Range: 0.2~20 L/min

Measuring Accuracy: ± 0.2 L/min or $\pm 10\%$, whichever is greater

EtCO2 (Optional)

Type: Sidestream / Mainstream

Range: 0-150 mmHg

Sampling Rate (Sidestream): 50 ml/min fixed flow rate

Response Time / Rise Time: Sidestream: Response time $< 9\text{s}$; Rise Time: $< 60\text{ms}$

Warm-up Time: Mainstream: Parameters can be displayed within 15s;
Sidestream: Parameters can be displayed within 20s

