

**Baxter**

# Welch Allyn Connex 360 Vital Signs Monitor



## Product Features:

- Vital signs monitoring features profile-free workflows optimized for low- to mid-acuity acute care environments, including:
  - Spot check monitoring
  - Intervals monitoring with continuously measured SpO<sub>2</sub>, PR and RRp\* and timed BP measurements
  - BP averaging programs
  - Fully customizable programming
- Connected vitals monitoring automatically transfers patient vital signs directly into the EMR to allow clinicians more time to focus on their patients
- Accommodates standard or facility-defined early warning scoring protocols and customizable fields – custom parameters and modifiers – to support clinical workflows
- Customize up to 20 fields of additional documentation including Pain Scale, Is & Os, etc.
- Clinician authentication and Imprivata-ready to help ensure data security and optimized workflows
- Cybersecurity features designed into the device, clinical connectivity platform and maintenance processes to protect data at rest and in transit
- 12.1-inch color touchscreen

\* RRp is an optional Masimo feature; only for use with adult and pediatric patients greater than 2 years old.

## General Compliance and Standards

Device Classification	IEC 60601-1, IEC 60601-1-2, IEC 60601-1-6, IEC 60601-1-8, ISO 81060-2, IEC 80601-2-30, ISO 80601-2-56, ISO 80601-2-61, IEC 62366-1, IEC 62304, ISO 14971
Protection Class	Class I Internally powered equipment (IEC 60601-1)
Degree of Protection	Type BF defibrillator proof (IEC EN 60601-1, 2nd and 3rd editions)
Ingress Protection	IP22
RF Emissions	CISPR 11 Group 1 compliance

## Physical Specifications

Height	9.43 in. (239.4 mm)
Width	15.96 in. (405.5 mm)
Depth	6.07 in. (154.3 mm)
Weight Standard Chassis with <b>SureTemp</b>	12 lb 5.44 kg (includes battery)

## Display

Screen	12.1 inch (307.34 mm) projected capacitive touchscreen
Resolution	1280 x 800 pixels
Cover Glass	Optically bonded, hardened and chemically strengthened tempered glass w/anti-glare technology

## Power (AC)

AC (External) Power Supply	100 VAC to 240 VAC (+/- 10%)
Max Output Power Consumption	65 Watts
Frequency	50/60Hz
Input Current	100-240VAC, 1.5A
Output Current	15VDC/4.33A
Average Efficiency	88% (Level VI)

## Battery

Battery	9 cell Lithium-ion Battery Pack
Operating Time	8.0-9.78 hours in normal clinical use settings
Battery Recharge Time	6 hours to > 95 percent

## Environmental Requirements

Operating Temperature	50 °F to 104 °F (10 °C to 40 °C)
Storage and Transport Temperature	-4 °F to 122 °F (-20 °C to 50 °C) for 30 days
Operating Altitude and Atmospheric Pressure	-1250 to 10,000 ft. (-381 m to 3,048 m) 70 kPa to 106 kPa
Operating Humidity	15% to 95% noncondensing
Storage and Transport Humidity	15% to 95% noncondensing for 30 days
EMC Standard	IEC/EN 60601-1-2

## Alarms

Alarm Standards	Meeting IEC 60601-1-8
Four Alarm Priority Levels	(High, Medium, Low, Very low) that determine monitor's audible and visible indicators
Audible Indicators	Different alarm tones and configurable volume
Visible Indicators	Alarm panes, alarm messages, alarm icons and 360-degree alarm light
Configurable Alarm Limits	Configurable access for adjusting alarm limits

## Wireless Radio Specification (C360 1.1)

Wireless Network Interface	IEEE 802.11 a/b/g/n/ac
Frequency	2.4 GHz frequency bands: 2.4 GHz to 2.483 GHz; 5 GHz frequency bands: 5.15 GHz to 5.35 GHz, 5.47 GHz to 5.725 GHz, and 5.725 GHz to 5.825 GHz
Wireless Data Rates	Support 802.11 ac/a/b/g/n 2X2 MIMO Mbps 802.11b (DSSS, CCK) 1, 2, 5.5, 11 Mbps 802.11a/g (OFDM) 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n (OFDM, HT20/HT40, MCS 0-15) 802.11ac (OFDM, HT20, MCS0-8; OFDM HT40/HT80, MCS 0-9)

## Security Standards

WLAN Security	WPA2-Personal, WPA2-Enterprise, WPA2-Enterprise Suite-B, WPA2-Enterprise Suite-B 192-bit, WPA3-Personal, WPA3-Personal transition, WPA3-Enterprise, WPA3-Enterprise transition, WPA3-Enterprise Suite-B, WPA3-Enterprise Suite-B 192-bit, and WPA3-OWE
Dynamic 802.1X Extensible Authentication Protocol Types	EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, PEAP-TLS
Encryption	Advanced Encryption Standard (AES CCM Algorithm), Encryption Key Provisioning, Static (40-bit and 128-bit lengths), Pre-Shared (PSK)
Wi-Fi Standards	IEEE 802.11a, 802.11b, 802.11d, 802.11e, 802.11g, 802.11h, 802.11i, 802.11n, 802.11r, 802.11ac, 802.11w, 802.11k, 802.11v
FIPS 140-2	Yes

## Device Security Features

FIPS-approved encryption algorithms of transmitted data
Digitally signed and encrypted software images and encryption files
High Assurance Boot (Secure Boot)
TPM cryptographic processor and hardware-secured storage of vendor and customer-provided certificates
Internal device firewall
Encrypted eMMC
Strict Enforcing SELinux with Mandatory Access Controls (MAC) and measured executables
TLS 1.3 modes include: encryption only, server authentication, and mutual TLS
Hardened Long-Term Support Linux OS Kernel with latest security patches
Address Space Randomization

## Device Interfaces

Main Unit	AC power connector; Ethernet RJ-45 Network connector; USBs-4; USB-C-1
Barcode Scanning	Supports 1D & 2D
RFID Scanning	Supports high frequency and low frequency RFID
Authentication Management	Imprivata Single-Sign-On; LDAP
Nurse Call	24V at 500mA maximum
Data Output	Baxter <b>DeviceBridge</b> 4.5 and later + <b>Connex</b> Vital Signs Gateway 1.1 and later; <b>Connex</b> CS/CSAS 1.8.7 and later; HL7 Direct 2.3 and later; NCE 5.3 and later; Baxter Remote Management (SCRM) 7.0.1 and later

## Noninvasive Blood Pressure (NIBP) – StepBP and SureBP

Standards	IEC/ISO 80601-2-30 for cuff pressure range
Parameters	Systolic, Diastolic, Mean Arterial Pressure (MAP)
Cuff Inflation Target	Adult: 160 mmHg (StepBP) Pediatric: 140 mmHg (StepBP) Neonate: 90 mmHg (StepBP)
Systolic Range	Adult: 30 to 260 mmHg (StepBP, <b>SureBP</b> ) Pediatric: 30 to 260 mmHg (StepBP, <b>SureBP</b> ) Neonate: 20 to 120 mmHg (StepBP)
Diastolic Range	Adult: 20 to 220 mmHg (StepBP, <b>SureBP</b> ) Pediatric: 20 to 220 mmHg (StepBP, <b>SureBP</b> ) Neonate: 10 to 110 mmHg (StepBP)
Mean Arterial Pressure (MAP) Range	The formula used to calculate MAP yields an approximate value. Adult: 23 to 230 mmHg (StepBP, <b>SureBP</b> ) Pediatric: 23 to 230 mmHg (StepBP, <b>SureBP</b> ) Neonate: 13 to 110 mmHg (StepBP)
Blood Pressure Determination Time	Typical: 15 seconds Maximum: 150 seconds
Blood Pressure Accuracy	Meets or exceeds standards for ISO 81060-2 noninvasive blood pressure accuracy (5 mmHg mean error, 8 mmHg standard deviation)
Overpressure Cutoff	Adult: 300 mmHg +/-15 mmHg Pediatric: 300 mmHg +/-15 mmHg Neonate: 150 mmHg maximum
Pulse Rate Range (Using Blood Pressure Determination)	Adult: 30 to 200 bpm (StepBP, <b>SureBP</b> ) Pediatric: 30 to 200 bpm (StepBP, <b>SureBP</b> ) Neonate: 35 to 220 bpm (StepBP)
Pulse Rate Accuracy (Using Blood Pressure Determination)	+/-5.0% (+/-3 bpm)

## Temperature - SureTemp Plus

Standards	ISO 80601-2-56
Modes	Predictive Mode, Direct Mode
Measurement Range	80-110 F (26.7-43.3 C)
Calibration Accuracy	26.7°C to less than 35.8°C; +/-0.3°C (Direct mode) 35.8°C to less than 37.0°C; +/-0.2°C (Direct mode) 37.0°C to 39.0°C; +/-0.1°C (Direct mode) Greater than 39.0°C to 41.0°C; +/-0.2°C (Direct mode) Greater than 41.0°C to 43.3°C; +/-0.3°C (Direct mode) 80.0°F to less than 96.4°F; +/-0.5°F (Direct mode) 96.4°F to less than 98.0°F; +/-0.3°F (Direct mode) 98.0°F to 102.0°F; +/-0.2°F (Direct mode) Greater than 102.0°F to 106.0°F +/-0.3°F (Direct mode) Greater than 106.0°F to 110.0°F +/-0.5°F (Direct mode)
Direct Mode Stabilization Time	Oral and Rectal: Until the temperature stabilizes or 3 minutes Axillary: Until the temperature stabilizes or 5 minutes

## Masimo Rainbow SET SpO<sub>2</sub>

Standards	ISO 80601-2-61
SpO <sub>2</sub> Measurement Range	1-100%
Saturation accuracy (module)	Low perfusion: 0.03-20%
Accuracy	Consult accuracy data for selected Masimo sensors. See <b>Connex 360</b> Instructions for Use Manual for details.
Pulse Rate Measurement Range	20-250 bpm +/- 3 digits
Perfusion Index (PI)	YES
SpO <sub>2</sub> Refresh Rate	<= 1 s
PR Refresh Rate	<= 1 s

## SpO<sub>2</sub> Nellcor

Standards	ISO 80601-2-61
SpO <sub>2</sub> Measurement Range	1-100%
Saturation accuracy (module)	Low perfusion: 0.02-20% +/- 2 digits
Accuracy	Consult accuracy data for selected Masimo sensors. See <b>Connex 360</b> Instructions for Use Manual for details.
Pulse Rate Measurement Range	20-250 bpm +/- 3 digits
SpO <sub>2</sub> Refresh Rate	<= 1 s
PR Refresh Rate	<= 1 s

## Masimo Respiration Rate from the Pleth (RRp)

Patient Populations	Adult, Pediatric (2 years and greater)
Refresh Rate	<= 1 s
Measurement Range	4-70 Respirations per minute (RPM) 3 RPM ARMS 1 RPM Mean Error

## Clinical Customization

Up to 6 Early Warning Systems (MEWS, PEWS, etc.) or Facility-Defined Custom Scoring Protocols (from **Welch Allyn** Product Configuration Tool)

Up to 20 Custom Manual Parameters (Parameter Modifiers, Pain Score, etc.)

For complete specifications, see the **Connex 360** Instructions for Use manual.

**Contact your Baxter representative or visit [hillrom.com/connex360](http://hillrom.com/connex360) to learn more.**

**Rx only.** For safe and proper use of the products mentioned herein, please refer to the appropriate Operator's Manual or Instructions for Use.

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