

# Welch Allyn Connex<sup>®</sup> Vital Signs Monitor with ECG



**Clinicians in low-acuity wards are being stretched further than ever before—and when caring for higher-acuity patients, higher levels of monitoring are often necessary.** The Welch Allyn Connex<sup>®</sup> Vital Signs Monitor with ECG Monitoring capabilities is an easy-to-use device that can help deliver advanced care to patients who may be at risk.

This multi-parameter monitor offers vital signs and basic cardiac capabilities within the footprint of a single vital signs device. The Connex Vital Signs Monitor provides immediate notification of cardiac arrhythmias at the bedside, and can transfer data directly to the EMR.\*

## The Connex Vital Signs Monitor with ECG Monitoring is designed to help:

- Closely monitor patients who may be at risk in low-acuity care areas
- Detect and alarm for asystole, ventricular tachycardia and ventricular fibrillation at the bedside
- Leverage one monitoring device for all core low-acuity use cases and clinical needs—from spot-check vitals to interval monitoring to low-acuity procedural monitoring
- Help avoid the cost, complexity and training associated with monitors designed for higher-acuity settings
- Help reduce transcription errors and provide immediate access to patient information with numeric connectivity to the EMR
- Help improve staff workflow efficiencies with an easy-to-use monitor designed by clinicians
- Easily connect to local nurse call systems



\* Only heart and respiratory rates obtained through ECG monitoring can be transferred to the EMR.

Device Classification	
EMC Class	IIB
IEC Type	CF
Physical Specification	
Length	101.6 mm (4.00 in.)
Width	5715 mm (2.25 in.)
Height	27.94 mm (1.10 in.)
Weight	73.71 g (2.60 oz.)
Power Source	USB (4.5 V to 5.5 V)
Digital Data Interface	Serial (USB – Full Speed)
Resolution	14-bit ECG data, 30 mV peak-to-peak dynamic range minimum
IPX	0
Environmental Specifications	
Operating Temperature	10° to 40° C (50° F to +104° F)
Storage Temperature	-20° to +50° C (-4° F to +122° F)
Operating Humidity	15 to 95% non-condensing
Storage Humidity	15 to 95% non-condensing
Operating Altitude	-170 to 3048 m (-557 to 10,000 ft)
Storage Altitude	-170 to 15500 m (-557 to 50,000 ft)
Clinical Specifications	
Heart Rate Detection Range	20 to 300 beats per minute
Heart Rate Accuracy	±3 beats per minute or ±3%, whichever is greater
QRS Detection Amplitude	≥0.5 mV and ≤5.0 mV with QRS width of between 40 ms and 120 ms
Tall T Wave Rejection	Rejects Tall T waves less than 1.4 mV
Defibrillation Protection	Per EN60601-2-27:2011
Electrosurgical Protection	Per EN60601-2-27:2011
Pacemaker Detection	±2 mV to ±700 mV amplitude; 0.5 ms to 2.0 ms pulse width per EN 60601-2-27: 2011
Frequency Range	.05 to 70 Hz
Mains Filter (Configurable)	50 Hz, 60 Hz, off
Monitoring Period	Continuous
ECG Channels	Supports 3-lead or 5-lead
Sweep Speed	25 mm/sec, 50 mm/sec
Lead-off Detection	3-lead or 5-lead
Data Storage Capacity	24 hours
ECG Cable Specifications	
Connector at ECG Module	80 in. ±1 shielded cable to a 24 in. ±1 lead fan-out to electrode connection
ECG Cables	3-lead or 5-lead to snap connection
Patient Cables	Conforms to ANSI/AAMI EC53
Impedance Respiration Specifications	
Impedance Respiration Accuracy	±2 breaths per minute or ±2%, whichever is greater
Range	5 to 100 breaths per minute
Breath Detection Range	0.4 ohms to 3.0 ohms
Respiration Lead Source	Lead II (right arm and left leg)
Respiration, Leads-off Sensing and Active Noise Suppression	Applied currents
Software and Alarm Specifications	
Ventricular Tachycardia Threshold Default	120 beats per minute ±3 beats per minute for 6 consecutive beats
Asystole Threshold Default	No detectable beat for ≥4 seconds
Ventricular Fibrillation Threshold Default	A fibrillatory waveform persisting for ≥4 seconds
Connex Vital Signs Monitor Minimum Software	2.30.01

Ordering Information	
6000-ECG3I	ECG Module with 3-Lead IEC Patient Cable
6000-ECG3A	ECG Module with 3-Lead AHA Patient Cable
6000-ECG5I	ECG Module with 5-Lead IEC Patient Cable
6000-ECG5A	ECG Module with 5-Lead AHA Patient Cable

Contact your Welch Allyn representative to learn more, or visit [www.welchallyn.com](http://www.welchallyn.com).

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