



## Welch Allyn CP 150™ Electrocardiograph



### Simple. Fast. Connected.

The user-friendly CP 150 ECG—designed to help improve your facility workflow.

- > 7" Color, touch-screen display for fast and easy entry of accurate patient information
- > Instant-on feature powers the device up quickly and lets you take an ECG at a moment's notice
- > Advanced filters for optimal ECG trace quality ensure accurate readings
- > Three (3) lead ECG preview
- > Optional adult and pediatric MEANS ECG interpretation software offers a second opinion
- > Battery operation lets you easily transport your device to the patient
- > Store up to 100 test results on the device or transfer to a USB memory stick

For more information, contact your local Welch Allyn representative or visit [www.welchallyn.com/CP150](http://www.welchallyn.com/CP150)

**WelchAllyn®**

Advancing Frontline Care™

## CP 150 Technical Specifications

Dimensions, incl. rubber feet L x H x W	380.9 mm (15 in) x 136.2 mm (5.4 in) x 358.1 mm (14.1 in)	
Weight, incl. battery	5.2 kg (11.5 lb)	
Keyboard type (power button)	Polyester overlay	
Display	Type	TFT, 18 cm (7 in) color touch screen
	Resolution	WVGA, 800 x 480
Thermal paper	Z-fold	21 cm (8.25 in) x 28 cm (11 in) x 200 sheets
Thermal printer (internal)	Computer-controlled dot array, 8 dots/mm	
Thermal chart paper speeds	10, 25, 50 mm/s	
Gain settings	Auto ECGs	2.5, 5, 10, 20 mm/mV, AUTO
	Rhythm ECGs	2.5, 5, 10, 20 mm/mV
Lead configurations	Standard, Cabrera	
Report formats, Internal printer	Auto	3x4-2.5s @ 25 mm/s, 3x4-2.5s @ 50 mm/s, 3x4+1R-2.5s @ 25 mm/s, 3x4+3R-2.5s @ 25 mm/s, 3x4-5.0s @ 25 mm/s, 3x4-5.0s @ 50 mm/s, 6x2-5.0s @ 25 mm/s, 6x2-5.0s @ 50 mm/s, 12x1-10.0s @ 25 mm/s
	Average cycles	3x4+3R @ 25 mm/s, 3x4+3R @ 50 mm/s, 6x2+1R @ 25 mm/s, 6x2+1R @ 50 mm/s, No print
ECG Storage (in test directory)	At least 100 ECG tests	
Frequency range	0.3 to 150 Hz	
Digital sampling rate	> 1,000 samples/second/channel	
Pacemaker detection	ANSI/AAMI EC11	
Power requirement	Universal AC power supply ~110–240 V, ~50/60 Hz, 1.5 A maximum	
AC fuses	Time-lag type, 2.0-amp 250-V rating, Littelfuse 0218002P or equivalent	
Rechargeable battery	10.8 V, 6.75 Ah (73 Wh), 9-cells Lithium-Ion. Recharge time to 100%: 4 hours Full charge capacity—25 ECG tests @ 20 minutes/test. 8 hours of continuous operation or 250 continuous ECGs	
Filters	High-performance baseline	0.5 Hz
	Muscle tremor	35 Hz
	AC interference	50 Hz or 60 Hz
Safety, EMC, and regulatory compliance	ANSI/AAMI EC11*	UL60601-1
	CAN/CSA C22.2 No. 601.1	IEC/EN 60601-1
	CAN/CSA C22.2 No. 601.1.1	IEC/EN 60601-1-1
	CAN/CSA C22.2 No. 601.1.2	IEC/EN 60601-1-2
	CAN/CSA C22.2 No. 601.1.4	IEC/EN 60601-1-4
	CAN/CSA C22.2 No. 601.2.25	IEC/EN 60601-1-6 IEC/EN 60601-2-25** IEC/EN 60601-2-51*** (3x4 report format)
Standard connectivity	1 USB Client, 4 USB Hosts and Ethernet	
Connectivity with electronic medical records	Through the Welch Allyn CardioPerfect® Workstation software	
Electrodes	Rigorously tested for conductivity, adhesion, and hypoallergenic qualities; exceeds all AAMI standards	
Power cable	Meets or exceeds Type SJT	
Patient cable and leads	Meets or exceeds ANSI/AAMI EC53, EN/IEC 60601-2-25 and EN/IEC 60601-2-51	
Environmental operating conditions	Temperature	+10° C to +40° C (+50° F to +104° F)
	Relative humidity	15 - 95% noncondensing (30 - 70% for printing)
	Atmospheric air-pressure limits	700 – 1060 hPa
Environmental storage conditions	Temperature	-20° C to +50° C (-4° F to +122° F)
	Relative humidity	15 - 95% noncondensing
	Atmospheric air-pressure limits	700 – 1060 hPa
Protection against electric shock	Class I, internally powered Type CF	
Mode of operation	Continuous	

\* If you print at a high gain setting, the waveform or calibration marks might be clipped. This clipping does not comply with clause 51.103.1 of the IEC/EN 60601-2-51 standard. Use a lower gain setting to observe the full waveform.

\*\* Per AAMI EC11:1991/(R)2007 Diagnostic Electrocardiographic Devices, Section 3.1.2.1 Disclosure of cautionary information/performance characteristics paragraph c) Accuracy of input signal reproduction, the manufacturer shall disclose the methods used to establish overall system error and frequency response. Welch Allyn has used methods A & D, as prescribed in section 3.2.7.2 and 4.2.7.2 of this same standard, to verify overall system error and frequency response. Because of the sampling characteristics and the asynchronism between sample rate and signal rate, digital ECG systems such as the CP 150 may produce a noticeable modulating effect from one cycle to the next, particularly in pediatric recordings. This phenomenon is not physiologic.

\*\*\* Disposable electrodes from Welch Allyn shall be used during patient defibrillation.

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