

Welch Allyn AED 20™



More than just an average AED.

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WelchAllyn®

Advancing Frontline Care™

The Welch Allyn AED 20™.

Sophisticated Technology. Advanced Options.

Designed for everyone from basic rescuers to well-trained advanced life support personnel, the Welch Allyn AED 20 is a versatile device perfect for virtually any setting. The device is simple enough for minimally trained personnel to use in an office setting, and even has advanced options that make it ideal for use by advanced life support personnel.



Designed for responders at every level of emergency care.

The versatile Welch Allyn AED 20 is the first choice for environments with multiple levels of first responders. More than just an AED, this powerful device can be configured with optional Lead II ECG monitoring using traditional snap-based electrodes and optional passcode-protected manual defibrillation (2 to 360 joules). The Welch Allyn AED 20 can also be configured in “EMS Mode.” This unique feature provides advanced personnel with a silent background analysis of the patient’s heart rhythm—allowing you to concentrate on caring for your patients. This mode is also ideal for transporting your patients or performing procedures such as intubation—if a life-threatening rhythm is present, the AED 20 will alert you with “Check Patient” text and voice prompts. And the Welch Allyn AED 20 features rugged construction, integral battery and handle, a large display and small profile, making the AED 20 an ideal choice for responders at every level of care.



Monitor your patients, not the monitor.

When you need to monitor your patients during simple procedures, the Welch Allyn AED 20 is the perfect solution. The AED 20 uses traditional snap-based electrodes or reusable wrist electrodes to give you an affordable monitoring alternative during minor surgical procedures. With an easy-to-read display and alarms that sound during complications, the AED 20 gives you peace of mind that your patients are safe and allows you to focus on your patients’ other needs. And if an emergency situation arises during monitoring, simply replace the electrodes with defibrillation pads and you’re ready for immediate rescue.

ns. Dependable. All in an Easy-to-Use Device.

Dependable

- > Choice of either a nonrechargeable lithium or rechargeable nickel metal hydride battery. Both batteries are industrial grade to provide years of dependable performance
- > Easy-to-read battery status indicator as well as an audible chirp indicator will alert the user when the battery is low
- > Continuous battery surveillance—consistent power/battery checks to ensure readiness
- > Runs scheduled self-tests to ensure readiness
- > Backed by a five-year limited warranty with free loaner program

Advanced Options

- > Optional diagnostic-quality ECG display and Lead II Monitoring using traditional snap-based electrodes
- > Passcode-protected full-range manual defibrillation capabilities (2 to 360 joules)
- > Field upgradeable

Sophisticated Technology

- > Features Welch Allyn low-current, load-compensating biphasic technology that tailors therapy to the patient
- > Energy protocols can be configured to meet user preferences—default setting is escalating energy at 200, 300, 360 joules
- > Large, high-resolution, diagnostic-quality backlit display
- > ECG and audio recording can be easily transferred to other Welch Allyn devices for continuous patient data collection
- > Reusable AED pediatric energy-reducing solution lowers cost of ownership for the device
- > On-board library of multiple languages



"We like the AED 20's ruggedness, small size and dual-mode operation. Its ability to change from AED to full-scale manual mode, the tough design and compact size make the '20' perfect for everyone in our department and every one of our calls."

Rick Merryfield, EMS Battalion Chief
Eau Claire Fire/Rescue



Ensure your AED is safe to use on children with the Welch Allyn Pediatric Energy Reducer.

Most AEDs are designed for use on adults and should not be used on young children. With Welch Allyn's newest technological innovation—the Pediatric Energy Reducer—Welch Allyn AEDs can be safe to use on children under the age of 8 or under 55 lbs. This innovative device automatically delivers only one quarter of a full adult energy dose—without making any changes to the existing AED.

This compact, reusable device snaps in and out of Welch Allyn AEDs, and is designed to work with Welch Allyn's standard compact AED pads—eliminating the need to stock costly pediatric pads.

- > Safe to use on children under 8 years old or under 55 lbs
- > Delivers one-quarter of full adult energy dose
- > Low cost of ownership—no pediatric pads to purchase
- > This reusable device does not need batteries



Welch Allyn Pediatric Energy Reducer



Create a “heart-safe” office or facility by developing an AED Response Program.

Creating an AED Response Program to prepare your practice or facility for a cardiac emergency means both purchasing an AED and developing a plan to ensure readiness.

Welch Allyn offers multiple programs to help prepare your site for deploying a Welch Allyn AED 20. These programs have varying levels of support so that you can choose the right program for your situation.

Depend on Welch Allyn.

Welch Allyn is a trusted name to frontline rescuers around the world, and for good reason. For almost 100 years, we’ve been applying innovation in ways that help them deliver more advanced and comprehensive care to their patients. Frontline rescuers rely on our pioneering defibrillation technology—with experience that spans over 35 years. Welch Allyn defibrillators can be found in military installations, hospitals, doctors’ offices, ambulances, dental offices, public places and even homes*.

*Prescription required.

WelchAllyn[®]

Advancing Frontline Care[™]

Welch Allyn AED 20™ Specifications

General

Dimensions: 9-3/8" x 9" x 3" (238 x 229 x 76 mm)
Weight: Less than 5 lbs (2.3 kg)
Operating Temperature: 32 to 122 °F (0 to 50 °C)
Storage Temperature (without battery): -22 to 150 °F (-30 to 65 °C)
Humidity: Up to 95% (noncondensing)
Altitude: -500 to 15,000 feet (-150 to 4570 m)
Shock: Mil Std 810E method 516.4, procedure 1 (40 G, 6-9 ms pulse, 1/2 sine each axis)
Vibration: Mil Std 810E method 514.4, category 10
Water Resistance: IEC 529 IPX4

Data Management

Event Documentation: Internal and via Welch Allyn Datacard
Internal Memory Capacity: 1 MB: 100 4-sec ECG samples or 300 time-stamped events
Datacard Capacity:
8 MB —3 hrs of Continuous ECG
80 min of ECG and audio
Playback: Welch Allyn PIC 50™ or Smartview®
Quick Report: Treatment Summary, Event Log, Test Log
Communication: Serial port via RS-232 to PC and Printer

Defibrillator

Output: Welch Allyn Biphasic technology
Auto/Manual Energy Selection: 2,5,7,10,20,30,50,70,100,150,200,300,360 J
Manual Lockout: Via passcode
Charge Time: Less than 8 sec
Analysis Time: 12 to 16 sec
Audible Prompts: 13 audible prompts
Visual Prompts: 13 test screen prompts
Controls: Two buttons (On/Off, Discharge) and four software configurable buttons

Ordering Information

AED 20 Automated External Defibrillators

972213E Welch Allyn AED 20 (nonrechargeable) with ECG Waveform and Single-Channel Monitoring
972215E Welch Allyn AED 20 (nonrechargeable) with ECG, Monitoring and Manual Defibrillation Mode
972214E Welch Allyn AED 20 (rechargeable) with ECG and Waveform Single-Channel Monitoring
972216E Welch Allyn AED 20 (rechargeable) with ECG, Monitoring and Manual Defibrillation



Output Energy Accuracy: ± 10% or 1 J (whichever is greater) at 50 Ω.
± 15% or 1 J (whichever is greater) at 25 to 100 Ω.

Battery

Rechargeable: NiMH 12 V, 2.1 Ah
Capacity: 80 discharges at 360 joules or 120 discharges at 200 joules or 150 discharges at 150 joules or 3 hours' ECG monitoring
Charge Time: 1.5 to 2 hours
Nonrechargeable: Lithium 12 V, 5.2 Ah
Capacity: 200 discharges at 360 joules or 285 discharges at 200 joules or 350 discharges at 150 joules or 6 hours' ECG monitoring
Shelf Life: (25 °C ± 15 °C) 10 years (5 years' storage + 5 years' standby) 5 years' standby (after installation)
Note: Capacity may be diminished at operating temperature extremes

Electromagnetic Compatibility

Category	Standard	Level
Radiated Emissions:	EN55011	CISPR11
Conducted Emissions:	EN55011	CISPR11
ESD:	EN61000-4-2	8 kV air 6 kV contact
Radiated Susceptibility:	EN61000-4-3	3 V/m (10 v/m AAMI DF2 4.3.18.1)
Electrical Fast Transients:	EN61000-4-4	1 kV
Electrical Fast Surges:	EN61000-4-5	2 kV
Conducted Susceptibility:	EN61000-4-6	3 V/m, 10 V/m
Magnetic Field Emissions:	Mil Std RE101	(AAMI DF2 4.3.18.1)
Magnetic Field Susceptibility:	Mil Std RS101	1 Gauss, 47 Hz-1.8 kHz

Upgradeable Options

Diagnostic-quality ECG display and Lead II monitoring with snap-based electrodes
Manual override activated via ALS security code

Accessories

001829-E AED 20 Rechargeable Battery
00183-0E AED 20 Nonrechargeable Battery
00185-3 Defibrillation Pads (1 Set)
00213-7 AED Prep Kit
0-02181 AED 20 Wall Bracket
0-02182 AED 20 Wall Cabinet with Alarm
002174-U Pediatric Energy Reducer for AED 20
00213-0 AED 20 ECG Monitoring Cable
90021-6E AED 20 Carrying Case
002170-E AED 20 Serial Communication Cable with SmartLink Software
002171-E AED 20 Serial Communication Cable with SmartLink Lite Software
999912-E AED Program Management —1st year of service