

# Welch Allyn® AED 20

Leading the Quest for Survival™



## Welch Allyn AED 20

The AED 20 is part of Welch Allyn's complete range of diagnostic and therapeutic cardiology products. From defibrillators, to monitors, to ECGs, to Holters, to ABPMs and more - you can count on Welch Allyn cardiac products to meet your every need.

The Welch Allyn AED 20 is as rugged and flexible as they come. The unit demonstrates the latest advances in defibrillation technology and is designed to accommodate both basic and advanced life support personnel. Simple 1-2-3 operation, audible and visual prompts and a large high resolution display makes this unit easy-to-use. The Welch Allyn AED 20's automatic analysis, joule selection, and charging make administering life saving therapy easy.

The most innovative addition to this new AED is its manual override and data exchange capabilities. When trained medical personnel arrive, they can override the AED and manually deliver full energy defibrillation shocks. Later, the data from the Welch Allyn AED 20 can be transferred to the Welch Allyn family of PICs via a datacard for continuous patient data collection.

- Welch Allyn Biphasic technology
- Very easy to use
- Large, high-resolution, backlit display
- Lightweight (<5 lbs.)
- Long life rechargeable or disposable battery options
- Print patient data and ECG directly to most commercial printers
- Large internal memory
- Field upgradeable
- Defibrillation pad & datacard compatibility
- ECG & audio recording

### *Optional Features:*

- Diagnostic-quality ECG display and Lead II monitoring using traditional snap-based electrodes
- Passcode protected manual defibrillation (2 - 360 Joule selection)

**WelchAllyn®**

Advancing Frontline Care™

# Welch Allyn® AED 20

## GENERAL

**Dimensions :** 9 3/8" x 9" x 3" (238 x 229 x 76 mm)

**Weight:** Less than 5 pounds (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% or 10° to 95°C (non-condensing)

**Altitude:** -500 to 15,000 feet (-150 to 4570 m)

**Shock:** Mil Std 810E method 516.4, procedure 1  
(40G, 6-9ms 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 MRL Datacard

**Internal Memory Capacity:** 1MB: 100 4-sec ECG samples or 300 time stamped events

**Datacard Capacity:**

4MB - 90 min of Continuous ECG

40 min of ECG and audio

8MB - 3 hrs of Continuous ECG

80 min of ECG and audio

16MB - 6 hrs of Continuous ECG

2.5 hrs of ECG and audio

**Playback:** MRL PIC, PIC 2 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:** 2,5,7,10,20,30,50,70,100,150,200,300,360J

**Manual Lockout:** Via Pass code

**Charge Time:** Less than 8 sec.

**Analysis Time:** 12-16 sec.

**Audible Prompts:** 13 audible prompts

**Visual Prompts:** 13 test screen prompts

**Controls:** Two buttons-On/Off, Discharge

4 software configurable buttons

**Output Energy Accuracy:** ±10% or 1J (whichever is greater) at 50Ω

±15% or 1J (whichever is greater) at 25-100Ω

## BATTERY

**Rechargeable:** NiMH 12V, 2.1Ah

*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

**Non-Rechargeable:** Lithium 12V, 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)

*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   | 8KV air 6KV contact              |
| Radiated Susceptibility       | EN61000-4-3   | 3 V/M (10 v/m AAMI DF2 4.3.18.1) |
| Electrical Fast Transients    | EN61000-4-4   | 1KV                              |
| Electrical Fast Surges        | EN61000-4-5   | 2KV                              |
| 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

## Part Numbers

*AED 20 Automated External Defibrillators*

972211\* Welch Allyn AED 20 with Non-Rechargeable Lithium Battery

972213\* Welch Allyn AED 20 (non-Rechargeable) with ECG Waveform and Single Channel Monitoring

972215\* Welch Allyn AED 20 (non-Rechargeable) with ECG, Monitoring, and Manual Defibrillation Mode

972212\* Welch Allyn AED 20 with Rechargeable NiMH Battery and Charging Station

972214\* Welch Allyn AED 20 (rechargeable) with ECG Waveform and Single Channel Monitoring

972216\* Welch Allyn AED 20 (rechargeable) with ECG, Monitoring, and Manual Defibrillation

\* Asterisk denoted required language designation. Please use letter code as noted below:

E = American English

U = UK English

S = Spanish

P = Portuguese

F = French

G = German

I = Italian



EN 46001  
ISO 9001

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