

## ZOLL vs. Welch Allyn AED Comparison

Full-Rescue Support	AED Plus	AED10
Total steps of Full-Rescue supported	8	3
Full-Rescue steps prompted for	Check responsiveness, call for help, 2 ventilating breaths, check for airway, breathing, & circulation, attach electrodes, stand clear, shock, no-shock, begin CPR	Attach electrodes, stand clear, shock, begin CPR
CPR support	Adaptive metronome for 100 bpm. Instantaneous feedback for compression depth. Voice & text prompts for "Push Harder" and "Good Compressions."	Timed minute of silence with seconds to go countdown at LCD screen display.
Communication with rescuer	Voice prompts, LCD screen text with graphics & circle of picture graphics	Voice prompts, LCD screen text only & 1 picture graphic
Support system for airway maintenance	Yes (PASS lid)	No
Technology/Design Comparison		
Real-time ECG display	Yes	No
Water & dust ingress protection (IP)	IP55 **	IP24 ***
Pre-connected electrodes	Yes	No – connect during rescue
Electrode connector easy-to-remove	Yes	No
Electrode connector presence recognized and prompted for	Yes "plug in cables"	None
Electrode pads life	4 years	2 years
Battery life (standby mode – no emergency)	5 years	5 years
Battery technology	10 Lithium Manganese 123A batteries available at retail.	Battery pack with 8 Lithium Manganese 123A batteries available only from Welch Allyn
Pediatric Capability		
Levels of energy sent to pads	Adult: 120J – 150J – 200J Pediatric: 50J – 70J – 85J	Adult: 200J – 300J – 360J Pediatric: 200J – 300J – 360J
Independent adult & pediatric energy protocols	Yes	No
Pediatric pad pre-connection	Yes	No
Pediatric Electrocardiogram (ECG) Analysis	Yes	No – Same as adult
Pad-type (adult/pediatric) recognized & announced to prevent errors	Yes	No (voice prompts describe application of adult pads during pediatric rescue with completely different pads)
Pediatric defibrillation technology	Configurable pediatric energy only sent to pads	Adult energy sent to pads with hardware in wire to shunt energy.

\* S Miller, et. al. "Lay Rescuer Adherence to the Chain of Survival: A Comparison of Four Automated External Defibrillators." *Pre-hospital Emergency Care*. 2004; 8:91. NOTE: Difference shown is statistically significant (P<0.05).

\*\* Protected from dust interfering with satisfactory operation. Protected against water jets against the enclosure from any direction.

\*\*\* Protected from solid foreign objects larger than 12.5mm in diameter. Protected against water splashed against the enclosure from any direction.