

The Amoul AEDi7 is a semi-automated external defibrillator (SAED) using biphasic exponential truncated (BTE) waveform technology with progressive energy delivery up to 360J. It performs simultaneous rhythm analysis and capacitor charging, activates via a single power button, displays graphic step-by-step guidance, and provides one-key switching between adult and paediatric patient modes. IP65 rated and suitable for public access, workplace, and professional first responder deployment.

Semi-Automated Design: Operator-Confirmed Shock Delivery

The AEDi7 is a semi-automated external defibrillator — meaning it analyses the patient's cardiac rhythm and charges automatically, but requires the operator to press a dedicated button to deliver the shock. This operator-confirmation step is required by many workplace, industrial, and

professional emergency protocols, and is particularly appropriate for trained first aiders and occupational health responders who are equipped to make a final safety check before energy delivery. For facilities requiring a fully automated device, the i9 variant delivers the shock without operator action.

Biphasic Exponential Truncated Waveform up to 360J

The AEDi7 uses BTE (biphasic exponential truncated) waveform technology — the current clinical standard in defibrillation. Compared to older monophasic devices, biphasic waveforms achieve effective defibrillation at lower energy thresholds while reducing post-shock myocardial damage. The i7 delivers shocks in a progressive escalating sequence up to 360J, adapting energy output across successive shocks to account for transthoracic impedance variability between patients, improving the probability of successful conversion from ventricular fibrillation.

Simultaneous Analysis and Charging for Rapid Response

The AEDi7 analyses the patient's heart rhythm and charges the capacitor simultaneously — a design that significantly reduces the time between rhythm detection and shock delivery. In sudden cardiac arrest, survival probability decreases by approximately 10% for every minute without defibrillation. Faster time-to-shock directly improves patient outcomes, making simultaneous charging a meaningful clinical advantage over sequential analysis-then-charge designs.

One-Step Power ON and Graphic Indication Display

A single button powers on the device and initiates the guided rescue sequence immediately. The i7 uses a graphic indication display — clear, pictogram-based visual prompts that guide the operator through electrode pad placement, rhythm analysis, and shock delivery without requiring the operator to read text under stress. This makes the device accessible to lay responders and bystanders with limited or no prior training. Storage capacity covers up to 1,500 events, with real-time visualisation of battery, electrode, and system status.

One-Key Patient Type Switching and Multilingual Support

A dedicated one-key control switches between adult and paediatric patient modes, adjusting energy delivery parameters appropriately for child patients without menu navigation. Fast multilingual language selection supports deployment in multilingual workplaces and public spaces. The AEDi7 is compatible with Amoul's AED Intelligent Network Management Platform, enabling remote monitoring of device readiness, consumable status, and data retrieval across multi-unit AED programs — supporting compliance without requiring physical inspection of each device. Matching wall-mount and floor-standing AED cabinets are available for visible, accessible public access installation. Available in South Africa through Vital Medical.

Technical Specifications

Specification	Value
Model	AEDi7
Type	Semi-Automated External Defibrillator (SAED)
Manufacturer	Ambulanc (Shenzhen) Tech. Co., Ltd. (Amoul)
Waveform	Biphasic Exponential Truncated (BTE)
Maximum Shock Energy	360J
Energy Delivery	Progressive escalating sequence
Analysis Method	Simultaneous rhythm analysis and capacitor charging
Display	Graphic indication display
Data Storage	Up to 1,500 events
Patient Type Switching	One-key adult / paediatric mode
Power Activation	One-step power ON
Language Support	Multilingual (fast selection)
IP Protection Rating	IP65 (dust-proof and waterproof)
Network Management	Compatible with Amoul AED Intelligent Network Platform
Accessories	AED wall cabinet (metal/plastic) and floor-standing cabinet available
Applications	Public access, workplace, gym, park, office, professional first response

SKU: VM-AEDi7