PowerBeat Series AED

Lightweight, Compact and Durable

A More Portable AED for Rushing to the Rescue

The device with an IP55 rating can function effectively even under harsh weather conditions.

Optimal operating temperature is 0°C ~ +50°C. After leaving room temperature to environments under -20 °C , the AED can remain in operation for at least 60 minutes, depending on different climate and terrain conditions.

The entirety of device's surface can withstand damage from a free fall height of 1.5 meters, allowing it to easily handle falls and accidents.

The device weighs only 1.5 kg. It is lightweight and compact enough for a child to carry, allowing it to partake in rescue efforts with ease.

AED
VIVEST
AED

Easy to Use, Simple and Intuitive

Step-by-Step Guidance to Make Anyone a Rescuer

A single push of a button switches on the device and the pre-connected electrode pads simplify operation and save precious time. Text and voice prompts guide the rescuer throughout the rescue process, including shock delivery and CPR guidance.

Just one click to switch from adult to child mode; electrodes are suitable for all modes for greater efficiency during use in emergency situations.

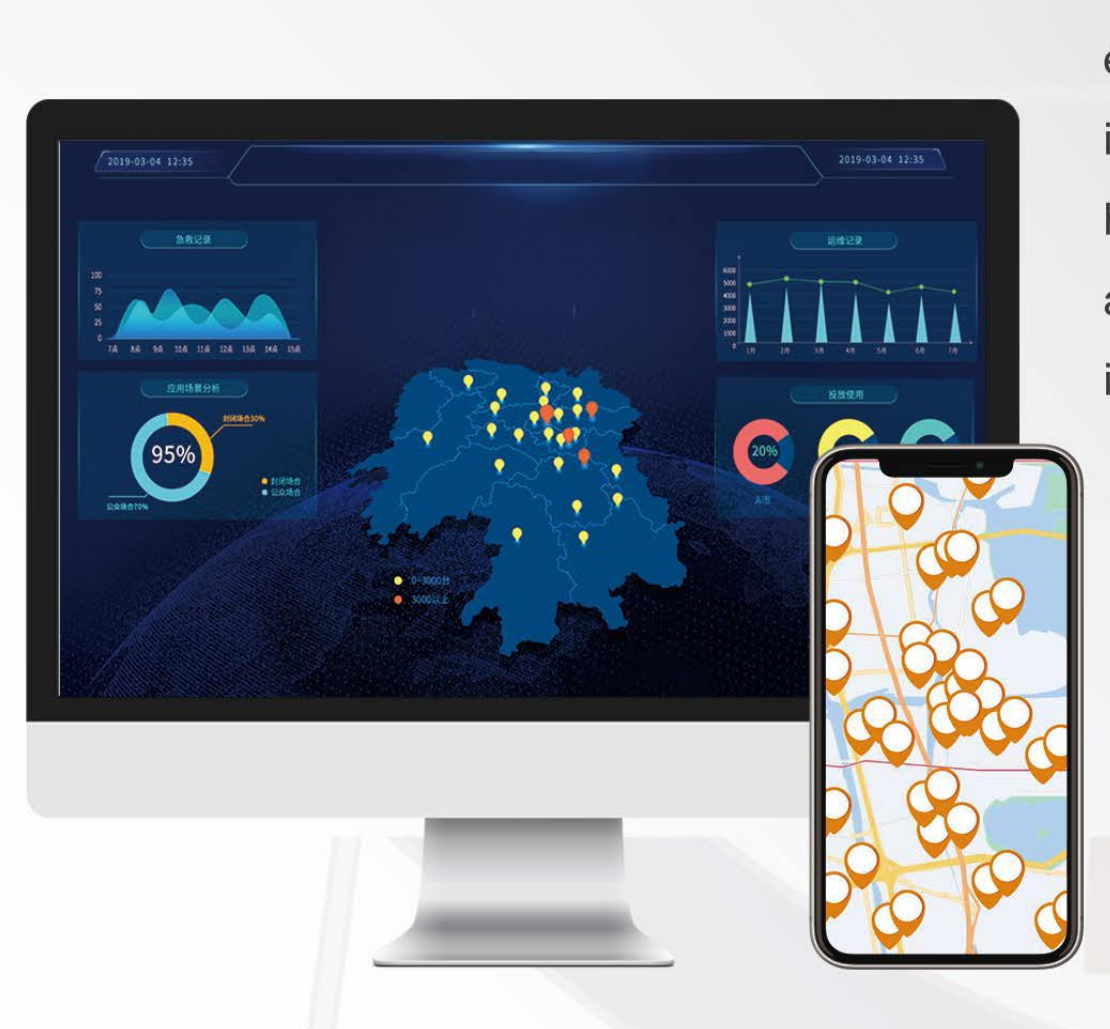
Data Server for Efficient Management

A Cloud-based Management Platform to Make Users Free from Worries

We provide reliable, advanced, and complete IoT intelligent management solutions for public access AEDs to conduct routine supervision in remote locations and to establish a long-term management system.

The management system accurately pinpoints the location and ensures each AED device is accessible and ready to use, which eliminates common issues occurring when the devices are isolated. Optional external 4G communication module allows data transmission to Cloud server or to the third party management systems according to the client's needs.

The management system automatically monitors each AED's status, including accessories like the battery and electrodes. Whenever there is an emergency, it will immediately send prompts, including when the device has been accessed, the cabinet has been opened, and the device's current working status to notify controller in real time and minimize AED management risks.



Latest Technology to the Safest Rescue

Stable and Effective Defibrillator to Make Patients and Users Feel at Ease

The device uses Biphasic Truncated Exponential (BTE) waveform, which can detect patient impedance in real-time to deliver customized shock energy to each patient, starting from the first shock, to ensure the effective transmyocardial current at lower energy doses (150J), to reduce potential myocardial damage.

The device typically takes less than 7 seconds from the prompt "Shock Advised" till discharge available, and provides fast and stable ECG analysis.

Specifications

Defibrillator

Waveform： Biphasic Truncated Exponential (BTE) Waveform
Impedance Range： 20 - 180Ω
Energy Level：
Adults, energy released at 50Ω impedance: 150J
Children, energy released at 50Ω impedance: 50J
The energy levels are fixed.
CPR Coaching： CPR instructions for adults and children are available, with metronome and hand placement instructions.
CPR Protocal： Comply with AHA 2020 guideline.
Charge/Discharge Time： The time from the prompt of "Shock Advised" to when the shock can be performed: 7 seconds

Arrhythmia Analysis

Accuracy： Comply with IEC60601-2-4
Analysis Time： Typically 8 seconds

Controls

Shock Control： Semi-automatic (press the shock button to deliver energy)
Child Button： Users can switch to Child Mode at the touch of a button to lower energy and receive CPR guidance suitable for children (under 8 years old or less than 25kg.).
Language Button(PowerBeat X3)： Users can switch between primary and secondary language among various available language options .
Certification： ISO13485, CE certification
Safety Standard：
IEC 60601-1:2005+A1:2012
IEC 60601-2-4:2010+AMD1:2018
IEC 60601-1-2:2014
IEC 60601-1-12:2014

User Interface

Display： PowerBeat X1 has 114 mm (W)×87 mm (H) graphic panel, while PowerBeat X3 has 5 inches color LCD screen, 105 mm (W)×65 mm (H), resolution: 800×480 pixels
User Guidance： PowerBeat X1 has LED lights, graphic panel and voice prompt, while Powerbeat X3 has a color LCD screen, animation, voice and bilingual text prompts.
Volume Adjustment： Volume is adjustable through APP.
Device Status Indicator： Visual and audible indicators help to monitor the status of the main device, electrodes, and battery.
Flashing green light indicates the device is normal.
Flashing red light indicates the device is faulty.

Environmental Parameters

Operating/Standby Temperature： 0℃ ～ +50℃
One Hour Operating Temperature Limit (extreme cold)： -20℃
Short-term Storage/Transport Temperature： -40℃～+70℃, within one week, with battery and pads uninstalled.
Atmospheric Pressure： 59.4KPa～106KPa
Relative Humidity： 5%～95% (no condensation)
Ingress Protection： IP55

Physical Characteristics (including handle)

Height： 232mm
Width： 209mm
Depth： 59mm
Weight： 1.5kg (including battery and pads)
Tolerable Impact/Fall Damage： Can withstand free fall damage from a height of 1.5M onto the hard surfaces.

Accessories(Battery)

Type： Lithium manganese dioxide (Li/MnO2) battery (non-rechargeable), 12V/3000mAh
Capacity： At 20℃±2℃, the new battery can discharge 200±10 times at 150J.
Shelf Life (storage out of device)： 5.5 years from manufacturing date
Operation Life (standby)： 5 years (typical)
Low Battery Status： A battery that indicates low battery can still be used ≥30 times at 150J.

Accessories(Pads)

Pads： Suitable for both adult and child patients
Shelf Life/Operation Life (standby)： 4 years from manufacturing date
Cable Length： 1.1±0.1m
Storage Space： Pads can be stored in the space at the back of the device.

Data Storage

Memory Type： Internal digital memory
ECG/Event Storage： At least 8 hours of ECG and event/incident recording
Self-test Data Storage: Up to 10 years

Communications

Communications： USB interface, Bluetooth (standard); 4G module (optional)

Overall Device

Date of Production： See label at the bottom of main device.
Service Life： 10 years

Ensuring Every Heartbeat is Healthy

No matter where sudden cardiac arrest (SCA) occurs, whether it is at the office, at school, on vacation, or any other time or place, ViVest's PowerBeat series AED is ready to save lives. Using the latest innovative technology, we have developed a safe, fast, efficient defibrillator that can be entrusted to rescue more lives. With this AED, even lay persons on the scene can carry out the exceptional task of saving lives during critical moments.

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