



## Product Data Sheet



# VIVEST P1 Pocket AED Semi-Automatic Defibrillator

### Compact and lightweight

Compared to traditional AEDs, the P1 Pocket AED shrink both in weight, boasting a 2/3 reduction, and in volume, with a 3/4 reduction, all while delivering the same therapeutic efficacy.

Weighing less than 0.7kg, the compact AEDs are ideally suited for deployment by specially trained personnel and can be conveniently stored in home first-aid kits, ensuring accessibility during critical situations.

### Rugged durability and reliability in demanding conditions

The device boasts an impressive IP65 rating for dust and water resistance, making it suitable for operation even in the harshest environments. Its reinforced design enables it to excel in various extreme conditions, displaying remarkable tolerance to a range of environmental challenges.

Furthermore, it has undergone a rigorous 1.5 metres drop test, ensuring its capability to withstand emergency situations in harsh environments with ease.

Product model	P1 AED
Size (H x W x L) cms:	5.3 x 8.6 x 15
Weight (including batteries, pads):	Less than 0.7kg
Child Mode:	N/A
Continuously VF/VT Detection Mode:	Yes
Dust & Water Resistance Level:	IP65
Drop Impact Resistance:	1.5m

### Product highlights

- Patented Tiny Combine™ technology:
  1. Portable and lightweight - 5.3(H) x 8.6(W) x 15cm(L) <0.7kg
  2. IP65 protects against dust and wet environments
  3. Drop tested to 1.5 metres
- One-touch power on, and one-touch defibrillation functions
- Smart Voice Guidance
- Optional rechargeable battery
- Smart pads life of 5 years which allow for biphasic shock
- CPR features with metronome
- Time to shock less than 8 seconds
- Algorithm capable of detecting implants such as pacemaker and internal defibrillator
- Continuous VF/VT detection mode, providing real-time protection during patient transport
- Pacemaker pulse detection
- 24 hours of ECG data
- Daily self-testing ensures device is ready for use
- Support 4G mobile communication and GPS positioning
- Pull-strap opening from pads back cover, accessible in 1 second
- MDR Approved



## Defibrillator

**Waveform:** Biphasic Truncated Exponential (BTE) Waveform

**Impedance Range:** 20 - 180Ω

**Energy Level:** Adults, energy released at 50Ω impedance: 150J

**CPR Coaching:** CPR instructions are available, with metronome and hand placement instructions

**CPR Protocol:** Comply with ERC/AHA 2020 guideline

**Charge/Discharge Time (Rechargeable Battery):**

The time from the initial rhythm analysis to when the shock can be performed: Typically within 10 seconds

**Charge/Discharge Time (Disposable Battery):**

The time from the initial rhythm analysis to when the shock can be performed: Typically less than 17 seconds

## Arrhythmia Analysis

**Accuracy:** Comply with IEC60601-2-4 requirements

**Analysis Time:** Typically 8 seconds

## Controls

**Shock Control:** Semi-automatic (press the shock button to deliver energy)

**Function Button:** Users can adjust the volume, switch between rescue mode and VF/VT detection mode

**Certification:** ISO13485, NMPA

**Safety Standard:**

- IEC 60601-1:2005+A1:2012+A2:2020
- IEC 60086-4:2019
- IEC 60601-1-6:2010+A1:2013+A2:2020
- IEC 62133-2:2017+A1:2021
- IEC 60601-1-2:2014+A1:2020
- IEC 62366-1:2015+A1:2020
- IEC 60601-1-12:2014+A1:2020
- ISO 14971:2019+A11:2021
- IEC 60601-1-11:2015+A1:2020
- ISO 15223-1:2021
- IEC 60601-2-4:2010+A1:2018
- ISO 20417:2021
- IEC 62304:2006+A1:2015
- ISO 17664-2:2023
- IEC 61508-1:2010
- ISTA 2A-2011

## User Interface

**User Guidance:** Voice and light guidance

**Device Status Indicator:** Visual 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 requires maintenance

## Environmental Parameters

**Operating Temperature (P1 Device):** -15°C ~ +50°C

**Storage Temperature:** -0°C ~ +50°C

**One Hour Operating Temperature Limit (extreme cold):** -20°C

**Short-term Storage/Transport Temperature:** -40°C ~ +70°C, within one week, with battery and pads uninstalled

**Atmospheric Pressure:** 59,4KPa ~ 106KPa

**Relative Humidity:** 0% ~ 95% (no condensation)

**Ingress Protection:** IP65

**Altitude:** -382M ~ 5000M

## Physical Characteristics

**Height:** 5.3 cm

**Width:** 8.6 cm

**Depth:** 15 cm

**Weight:** 0.7kg (including battery and pads)

**Tolerable Impact/Fall Damage:** Can withstand free fall damage from a height of 1.5M onto hard surfaces

## Accessories (Disposable Battery)

**Type:** Lithium manganese dioxide (LiMnO<sub>2</sub> Battery), 12V/1500mAh (Standard)

**Capacity:** At 20°±2°C, the new battery can discharge 130 times at 150J

**Operation Life (standby):** 3 years (typical)

**Low Battery Status:** A battery that indicates low battery can still be used 30 times at 150J

## Accessories (Rechargeable Battery)

**Type:** Lithium Ion (Li-ion Battery), 7V/3450mAh (Optional)

**Capacity:** At 20°±2°C, the new battery can discharge 250 times at 150J

**Operation Life (standby):** 3 months before recharge

**Recharge Times:** 3 hours and 40 minutes or less

**Low Battery Status:** A battery that indicates low battery can still be used 30 times at 150J

## Accessories (Pads)

**Pads:** Suitable for adult

**Operating Temperature:** -5°C ~ +50°C

**Operation Life (standby):** 5 years

**Cable Length:** ≥ 1.0M

**Storage Space:** Pads can be stored in the pads storage box at the back of the device

## Communications

**Communication:** Bluetooth/GPS positioning

## Overall Device

**Date of Production:** See label on the back of the device

**Service Life:** 10 years