SmartPatch
Adhesive Ambulatory Electrocardiographic Recording System

Accurate occult arrhythmia detection
Comfortable and discreet wear
Professional data analysis
Early Detection of Arrhythmia Diseases

Conventional ECG monitor devices have many shortcomings that could fail to capture abnormal ECG. The inaccurate diagnosis increases the risks of heart failure and strokes, even sudden death.

SmartPatch adhesive ambulatory ECG recording system provides long period of ECG recording without missing a single heartbeat and comprehensive analysis, enabling early detection, early diagnosis, early invention and treatment of arrhythmias.

Application Scope of SmartPatch

Monitor arrhythmia

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1. Recessive arrhythmia
2. Sinus arrest, sinoatrial conduction block and tachycardia-bradycardia syndrome
3. Intermittent or latent pre-excitation syndrome
4. Sinus bradycardia, sinus tachycardia, and sinus arrhythmia
5. Tachycardia (atrial, ventricular, or atrioventricular junctional AV node reentry)
6. QT prolongation syndrome / Brugada syndrome
7. Premature beat (atrial, ventricular, or atrioventricular junctional AV node)
8. Atrial flutter
9. Atrial fibrillation

Professional Medical System-certified, Innovative Technology Product Protects Heart Health

Employing a medical silicone-based waterproof design, SmartPatch has excellent adaptability. The soft, light and compact design was granted a China national invention patent (No. 201410191829.4). The product has passed the test conducted by Shanghai Testing & Inspection Institute for Medical Devices under State Food and Drug Administration. Enerwise Biomedical Technologies' product R&D, manufacturing, marketing and service has passed the stringent EU Medical Device Directive (MDD93/42/EEC) and ISO13485 medical device quality management system for our stable & reliable product quality. Enerwise is committed to develop innovative and high quality cardiac rhythm systems to safeguard heart health!
SmartPatch B Serve the Heart Thoughtfully

SmartPatch B, rechargeable ambulatory electrocardiographic recording system is a compact adhesive patch designed to continuously record patient’s single-channel ECG signal under routine conditions. The system also includes the Heart Care Space mobile APP, the physicians team and the cloud-based intelligent ECG analysis platform for real-time/retrospective presentation of heart rhythm, immediate consultation, and professional level consultation and Internet-based diagnosis & treatment etc.

- **Zero interference thanks to lead wire-free attachment**
- **1 key marking/wash operation**
- **3 electrodes offer stable signals, flexible wearing, slim and comfortable structure**
- **One-lead cycle records ECG for seven consecutive days, Grade-7 waterproof**
- **View complete ECG 30s before and after marked event**
- **45 min fast charging**
- **90 min total charging**
- **100% full information for 1M heartbeat**

**Efficient operation, and long-term monitoring**
- 1.5h fast charging; the recording operation could last for 7 consecutive days. Huge storage space (2G) enables the device to be accumulatively used for more than 6 months.

**Real-time view, and event review**
- APP-assisted real-time view, and scrolling display of AECG. View the ECG 30s before and after historical event (Record event) at any time.

**Doctor-patient interaction, and barrier-free consultation**
- Patients could consult associated doctors whenever necessary, and the information is presented to doctors in real time. Doctors reply online for preliminary analysis.

**Long-term diagnosis, and authoritative report**
- Prolonged ECG recording leads to statistical trend analysis report. Quality control by a professional ECG analysis center.

Highly Integrated System for Recording, Monitoring and User Assistance

- **Rechargeable SmartPatch**
- **APP**
- **Professional physician team**
- **Data cloud platform**

SmartPatch B ambulatory electrocardiographic recording system fully integrates modern medical devices, mobile internet and cloud technology to create a complete “Intelligent Health-care” system.

Users can record real-time ECG data, interact & communicate with associated doctors through Mobile APP instantly, and receive preliminary data analysis result and professional advice from doctors. Moreover, patients could upload the fully recorded ECG data to the cloud platform, where the professional analysis team offers concise and actionable reports.

**Operation diagram of ambulatory electrocardiographic recording system (SmartPatch B)**
SmartPatch Z ambulatory electrocardiographic recording system is a slim adhesive patch designed to record zero-loss ECG data and report users’ ECG status for 14 consecutive days. SmartPatch Z can effectively improve detection of atrial fibrillation, and provide an objective assistance for clinical analysis, diagnosis and evaluation of therapeutic interventions of cardiovascular diseases.

Our innovative ECG image-data analysis software offers accurate analysis of millions of heartbeats through proprietary algorithms, such as atrial fibrillation load analysis, heart rate variability analysis, and RR discrete point analysis.

Over 600 clinical trials were conducted in China Grade III Class-I hospitals including Beijing Fuwai Hospital, Aorhen Hospital, Chaoxing Hospital, Shanghai Ruijin Hospital, Renji Hospital and Xinhua Hospital. SmartPatch has shown reliable results, providing effective assistance for clinical diagnosis.

### Product Features

**Slim & delicate and easy to wear**
L*W*H: 90*30*3.5mm
weight: 19g
Excellent adaptability and portability.

**Long-term diagnosis, and authoritative report**
Prolonged 24-hour medical-grade ECG recording of 1 million heartbeats; prolonged ECG recording for statistical trend analysis report.

**Simple to operate and easy to use**
One-key operation for system startup, event marking, and heartbeat examination such as yellow and green indicator lights clearly indicate various status like event marking, heartbeat examination and anomaly indication.

**Stable performance and professional medical treatment**

Concentrated emergence of anomalies on D5 and D11

3.3s long interval of patient

SmartPatch resists interference and offers stable signal in Marathon

Before and after atrial fibrillation RF surgery