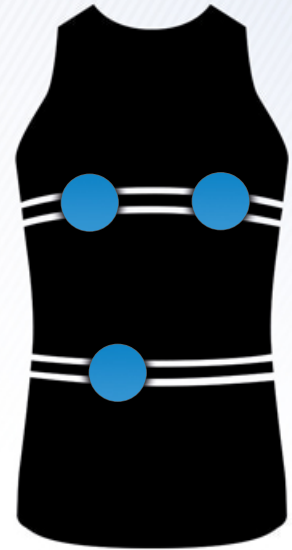## Physiological Signals

❤ Cardiac Sensors

- ECG (1 channel, 256Hz)
- Heart Rate: 30-220 BPM, 1Hz
- QRS Event Detection: 4ms resolution
- RR Intervals: 4ms resolution
- HRV Analysis
- Quality Assessment Channels:
  - Disconnection Detection
  - 50-60Hz Noise Detection
  - Saturated ECG Signal Detection
  - RR Intervals Reliability Detection

🫁 Breathing Sensors

- Breathing (2 Channels, 128Hz)
- Breathing Rate: 3-80 BPM, 1Hz
- Tidal Volume (Last Inspiration), 80-10 000 ml, 1Hz
- Minute Ventilation, 2-150 L/min, 1Hz
- Inspiration and Expiration Events, 8ms Resolution
- Quality Assessment Channels:
  - Disconnection Detection
  - Noise Detection
  - Baseline Change Detection

🏃 Movement Sensors

- Acceleration (3 Channels, 64Hz, +/- 16g Range, 0.004g Resolution)
- Activity Level 1Hz (0.004g Resolution, Sensitivity > 0.027g)
- Step Counting: 30-240 SPM, Reported Every Step
- Cadence 1Hz (30-240Hz)
- Energy Expenditure Estimate (Kcal)

⚡ Battery

- Battery Life: > 14 hours in recording mode, 400 hours in sleep mode
- USB Fast Charge in 90 minutes
- Auto-Sleep Mode when device is disconnected for 60 seconds

💾 Memory

- 1GB Memory Capacity
- 157 hours Full Data Recording capacity

❊ Bluetooth

- iOS compatible (iPhone, iPad & iPod)
- Android compatible (4.0.3 and up)
- Full Real-Time Data Transmission
- Auto-Reconnect to last connected device

⊕ Other Features

- Automatic garment connection detection
- Automatic start recording on garment connection
- Automatic stop recording on garment disconnection
- Event marking with button during recording
- 3 LEDs for battery status, recording status and Bluetooth status

🛡 Warranty

1-year warranty against manufacturing defects on device. We provide parts and service labor to repair manufacturing defects during the one year limited warranty period.