This product combines ECG sensing electrodes, signal cable and X-type front strap, and therefore be able to overcome the shortcomings of traditional electrode patches, such as being difficult to be attached correctly, inconvenient for long-term use, and disorganized signal cables, etc. The idea of integration can offer users convenience and contains the concept of environmental protection because the patches are re-useable. This product can be applied to the management of personal health and meet the needs of long-term care.

The technical means of this product:
(1) The clinch of X-type front strap is designed to be the position of the electrode.
(2) We use clinch-buttons for ECG sensing electrode and the X-type front strap, so they can be easily attached and dis-attached. Users can chose traditional type of one-time-used patches or reusable conductive fabric material.
(3) Since X-type front strap is integrated with signal cable, users do not need to settle wires and this arrangement can effectively reduce the noise interference.

Key words: Strap, ECG, multi-lead sensing