

# Real-Time Physiological Data Capture



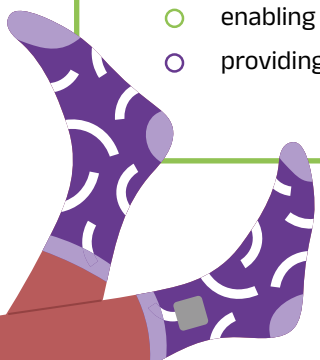
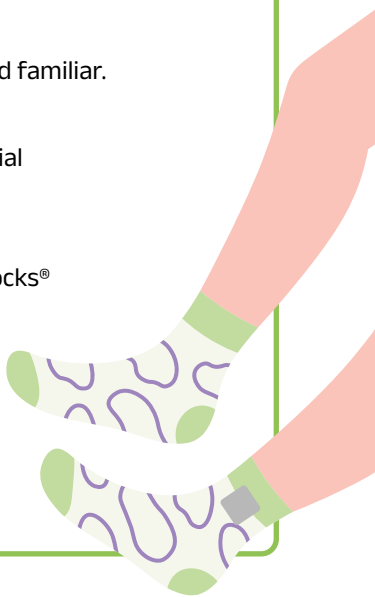
Unique to Milbotix, SmartSocks® DISCOVERY is a physiological data capture system that uses SmartSocks® as its data capture mechanism.

SmartSocks® are comfortable, machine washable at 30 degrees and built on Milbotix' proprietary technology platform PHYSIOMETRIX®.

Discovery is optimised for R&D and technological evaluation assisting researchers in neurocognitive disorders, health and sleep and many other applications where capturing real-time data on electrodermal activity, heart rate and heart rate variability, skin temperature, and motion are of interest.

## Introducing SmartSocks® DISCOVERY

To date, gathering bodily metric data has either been invasive or via a wrist wearable device or pendant. Such devices do not work well where the wearer is older, has a neurocognitive disease and may be wary or even scared of these devices, and removes them. SmartSocks™ have been designed to overcome these problems by:

- using socks as a data collection paradigm, SmartSocks® are comfortable, inobtrusive and familiar.
  - employing smart textiles to capture electrodermal activity data.
  - incorporating an ankle-located photoplethysmogram (PPG), skin temperature and inertial measurement unit (IMU) sensors
  - being water-resistant and machine washable at 30°C (refer to care instructions)
  - integrating a lightweight sensor which snaps into the side of one of the pair of SmartSocks®
  - automatically collecting real-time data from the sock so the wearer is never disturbed.
  - integrating with other software tools for further data analysis
  - enabling data visualisation and downloads from a web-based dashboard
  - providing for 2-3 hours of persistent data capture if the wearer goes offline.
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*DISCLAIMER: SmartSocks® DISCOVERY has been designed for research use only and is not intended to be used for any medical purpose. Specifications may be subject to change.*

Provides data visualisation via the dashboard that alerts if:

SmartSocks® are not being worn correctly

The wearer is out of range of the Wi-Fi router

The batteries are low

The sensor is removed from the sock

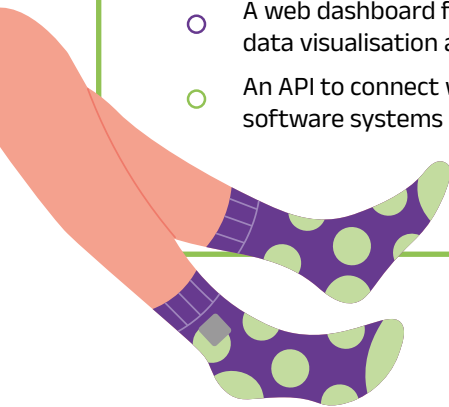
The firmware is out of date

the memory is full

data collection begins

### SmartSocks®DISCOVERY Comprises

- Five (5) hand washable SmartSocks®
- 2 removeable sensors for continuous data collection, and a wired USB charger (one sensor on the ankle, one on charge)
- Wi-Fi and Bluetooth™ connectivity (Bluetooth is omitted in the initial release but will eventually provide a real-time streaming capability)
- A web dashboard for sock status, data visualisation and CSV downloads
- An API to connect with other software systems
- Unlimited data storage for historical data sessions
- An SDK documenting the API specification with examples
- Free wireless firmware updates
- A 12 month warranty on the sensor
- Online documentation
- 9-5 (GMT) technical support for a one year



You should buy SmartSocks®DISCOVERY if you are:

- A researcher with a requirement to track real-time physiological changes
- Designing new drugs intended to calm patients suffering from anxiety and an inability to clearly communicate their needs
- Conducting research into neurocognitive disorders and other health related applications
- Running evaluations /trials on Neurocognitive diseases
- Involved in the evaluation, procurement and/or deployment of social care technologies and digital health

**SmartSocks®  
DISCOVERY real  
time physiological  
data collection for  
research use only**

Learn more or arrange a trial

[www.milbotix.com](http://www.milbotix.com) [contact@milbotix.com](mailto:contact@milbotix.com)