Physiological Data Signals

3-lead ECG
256 Hz, 6.5uV Resolution
- Heart rate: 30-220 BPM, 1 Hz
- QRS event detection: 4 ms resolution
- RR intervals: 4 ms resolution
Quality assessment channels:
  - Disconnection detection
  - 50-60 Hz noise detection
  - Saturated ECG signal detection
  - Movement artifact detection
  - RR intervals reliability detection

Dual Channel Breathing Sensors
(RIP) 128 Hz
- Breathing Rate: 3-60 BPM, 1 Hz
- Minute Ventilation: 80-65000 mL, 1 Hz
- Tidal Volume (last inspiration): 80-10000 mL, 1 Hz, 20 mL resolution
- Inspiration and Expiration Events: 8 ms resolution
Quality assessment channels:
  - Disconnection detection
  - Noise detection
  - Baseline change detection

Pulse Oximetry
- Oxygen saturation (SpO2%): 1Hz
- Photoplethysmography (PPG): 64 Hz
- Heart rate: 1 Hz

Systolic Blood Pressure (BP)
- 1 Hz
- Pulse Transit Time computation

3-axis Accelerometer
64Hz, +/-16g range, 0.004g resolution.
- Actigraphy: 1 Hz
- Step counting: reported at each step detection: 30-240 SPM
- Cadence: 1 Hz (0, 30-240 SPM, calculated on the 8 last steps)

Skin Temperature
1Hz, 0.1 Celsius resolution
Astroskin Product Specifications

Physical Specifications

Physical Overview
- Dimensions: 85 x 55 x 25 mm
- Device weight: 89 g
- Garment weight: < 100 g

Battery
- 2x AA batteries
- Autonomy: 48 h

Embedded Local Data Storage
- Capacity: 4 GB of data
- Autonomy: ~ 560 h of recording

MADE IN CANADA
This Garment is Made with Italian fabric

Composition:
73% Polyamide Micro
27% Elastane

+ UV PROTECTION
Antibacterial
Exceptional Breathability

Piling and Stretching Resistant
Machine washable
Quick Drying

Astroskin Research Platform
- iOS Apps - iPhone & iPad Real-time Data Visualization
- Data Synchronization
- Dashboard
- API

Astroskin Shirt Sizing
With built-in all-textile sensors, the Astroskin Shirt is light and comfortable.

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