

## 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)

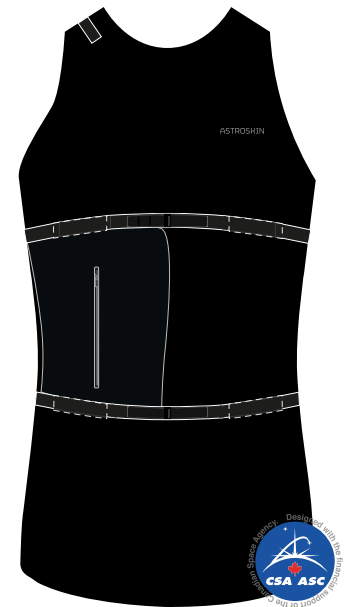
### Skin Temperature

1Hz, 0.1 Celsius resolution

Astroskin Headband



Astroskin Shirt - For Men



Astroskin Shirt - For Women



## 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

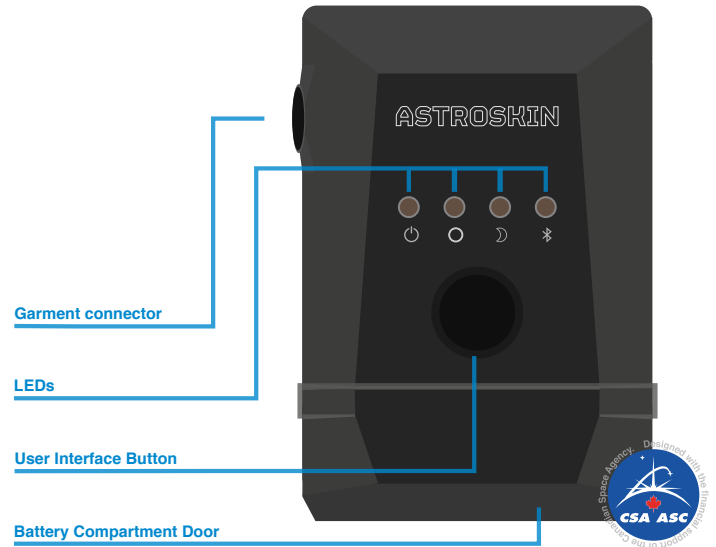
 Excellent UV Protection	 Antibacterial Treatment	 Exceptional Breathability
 Piling and Stretching Resistant	 Machine washable	 Quick Drying



**INSERT**  
2 AA BATTERIES



**48 HOURS**  
OF CONSECUTIVE RECORDING



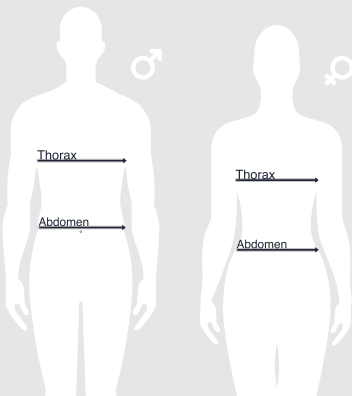
## Astroskin Research Platform

- 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.



Men Size ♂	2XS	XS	S	M	L	XL	XXL
Thorax	Inches 27.5 - 29 Centimeters 70 - 75	29.5 - 31 75 - 80	31.5 - 33 80 - 85	33.5 - 35 85 - 90	35.5 - 37 90 - 95	37.5 - 39 95 - 100	39.5 - 42 100 - 105
Abdomen	Inches 27.5 - 29 Centimeters 70 - 75	29.5 - 31 75 - 80	31.5 - 33 80 - 85	33.5 - 35 85 - 90	35.5 - 37 90 - 95	37.5 - 39 95 - 100	39.5 - 42 100 - 105
* 3XL & 4XL Sizes Available on demand							
Women Size ♀	2XS	XS	S	M	L	XL	XXL
Thorax	Inches 26 - 27.5 Centimeters 65 - 70	28 - 29.5 70 - 75	30 - 31.5 75 - 80	32 - 33.5 80 - 85	34 - 35.5 85 - 90	36 - 37.5 90 - 95	38 - 40 95 - 100
Abdomen	Inches 26 - 27.5 Centimeters 65 - 70	28 - 29.5 70 - 75	30 - 31.5 75 - 80	32 - 33.5 80 - 85	34 - 35.5 85 - 90	36 - 38 90 - 95	38.5 - 40.5 95 - 100
* 3XL & 4XL Sizes Available on demand							