

teslasuite

TECHNICAL SPECIFICATION

2023

VR Electronics Ltd

MOTION CAPTURE

| | |
|-------------------|-----------------------------|
| Number of sensors | 14 |
| Type | IMU 9-axis and 6-axis modes |
| Location | Built-in, fixed, anatomic |
| Frame rate | Up to 100 frames / sec |
| Roll & Pitch | 0.5° |
| Heading | 1° |

HAPTIC SYSTEM

| | |
|----------------------|---|
| Number of electrodes | 114 (52 for trousers + 62 for a jacket) |
| Number of channels | 80 (32 for trousers + 48 for a jacket) |
| Type | EMS, TENS |
| Location | Built-in, fixed, anatomic |
| Frequency | 1–150 Hz for each channel (adjustable in the application) |
| Voltage | 1–60 V in AC for each channel |
| Current | Up to 150 mA for each channel |
| Pulse width | 2–100 μ s (adjustable in the application) |

PHOTOPLETHYSMOGRAPHY SYSTEM (PPG)

| | |
|----------------------------|--|
| Type | PPG (red, infrared, green, blue, LEDs) |
| Number of sensors | 1 |
| Location | Built-in, fixed, anatomic |
| Spectral sensitivity range | 455–955 nm |
| Frame rate | 200 frames / sec |
| Calculated parameters | BPM, R-R Intervals, HLF |

POWER REQUIREMENTS

| | |
|---------|------------------------|
| Voltage | 5 V DC (± 0.25 V) |
| Current | max 2 A |

CONNECTIVITY

| | |
|-------|-----------------------|
| Wi-Fi | 2.4 GHz, 802.11 b/g/n |
|-------|-----------------------|

STORAGE CONDITIONS

| | |
|-----------------|---------|
| Air temperature | 5–35 °C |
|-----------------|---------|

| | |
|-------------------|--------|
| Relative humidity | 20–85% |
|-------------------|--------|

OPERATION CONDITIONS

| | |
|-----------------|---------|
| Air temperature | 5–35 °C |
|-----------------|---------|

| | |
|-------------------|--------|
| Relative humidity | 20–65% |
|-------------------|--------|

teslasuite

NEW DIMENSIONS OF YOU