

Ultra-Slim Tricorder



V0.1a

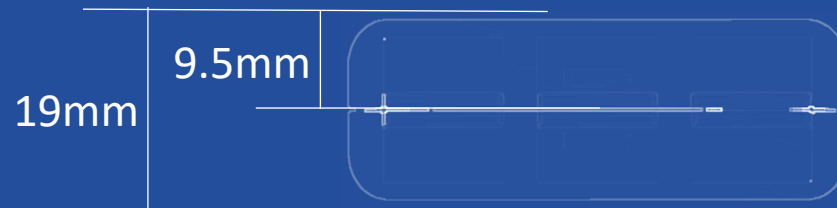


54.7mm



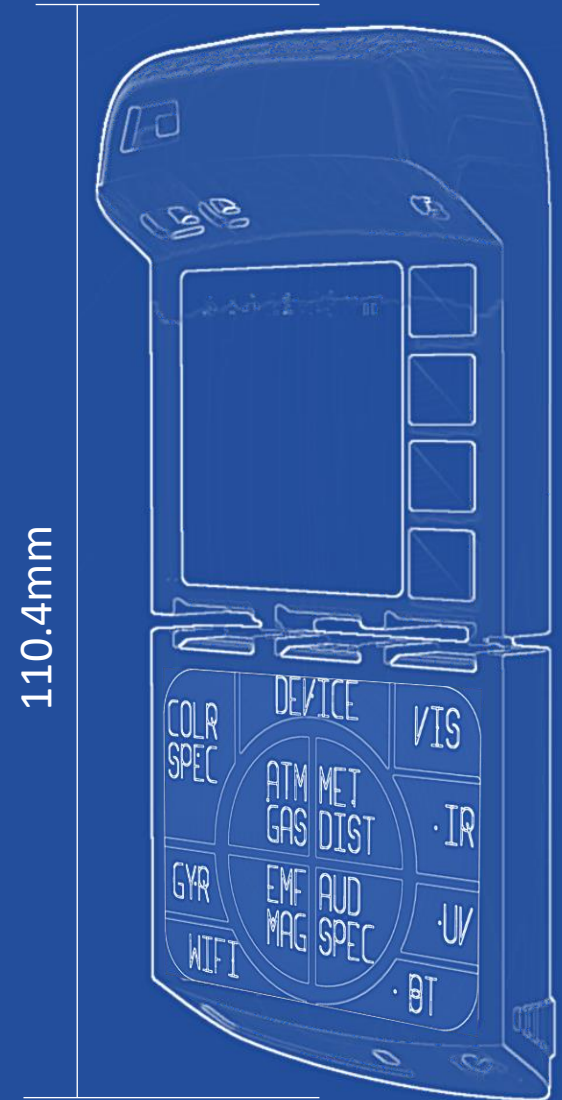
61mm

Dimensions



19mm

9.5mm



110.4mm

I2C & 3.3V Expansion Socket

HMC5883L Magnetometer

BME280 Atmospheric Sensor

LTR-390UV Ultraviolet Sensor

VL53L0X Laser Distance Sensor

TCS3200 Colour Spectroscopy Sensor

Status/Power LED

Status LEDs

Features

Open-Close Sensor

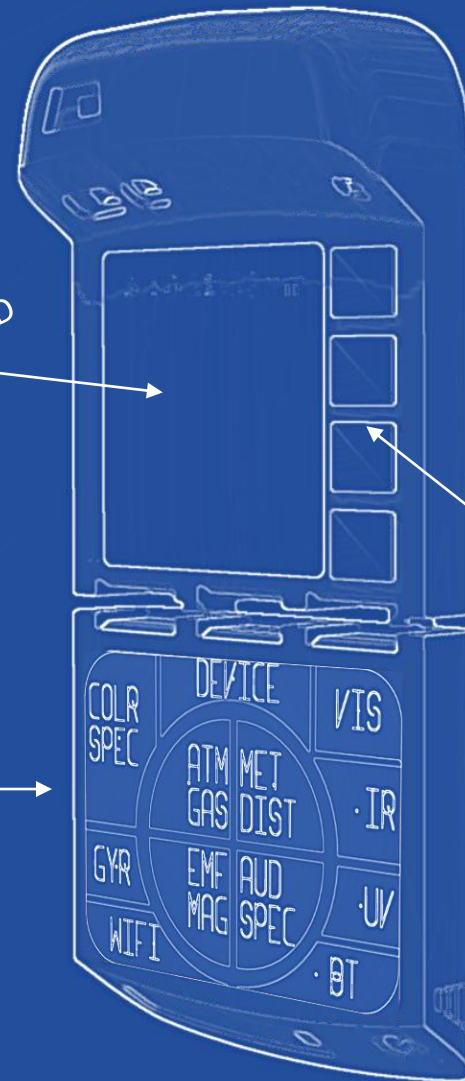
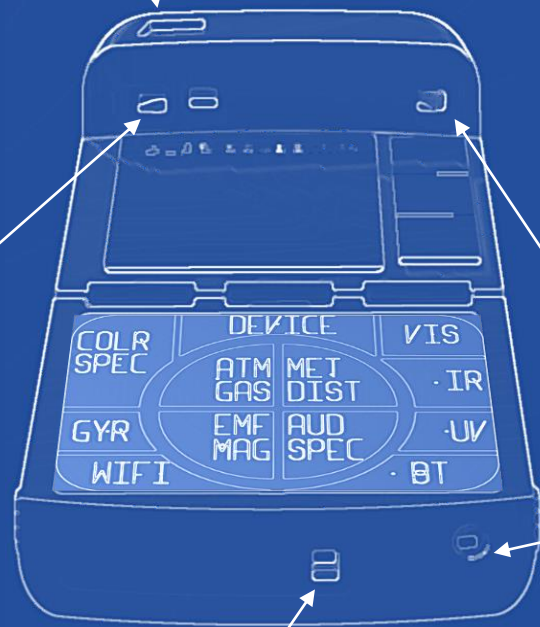
Features

Multi-Button
Capacitive TouchPad

SD Card

1.5" OLED

Capacitive Button Pads





Upper Touch Buttons

Main-Functions:

- 1 - Next Page in same sensor group
- 2 - scan frequency toggle: 333ms/3 seconds
/10 seconds/1 min
- 3 - begin/stop record data for 5 seconds?
/ single data log?
- 4 - memory playback for selected mode,
-SEE MEMORY FUNCTIONS

Functions

MEMORY - FUNCTIONS:

- 1 - next entry
- 2 - previous entry
- 3 - delete entry
- 4 - exit memory playback

Mpr121 pin - Lower TouchPad - Functions:

| | | | | |
|----|---|-----------|---|---|
| 9 | - | COLR SPEC | - | Colour Spectroscopy |
| 8 | - | GYR | - | Gyroscope/Accelerometer |
| 6 | - | WiFi | - | WiFi toggle |
| 10 | - | DEVICE | - | About/Device Specs, storage used/free etc |
| 11 | - | ATM GAS | - | Temperature, Humidity, Pressure, Altitude & Gas |
| 0 | - | MET DIST | - | Metric Laser Distance Meter |
| 7 | - | EMF MAG | - | Magnetic field/Compass (Multi-Page) |
| 1 | - | AUD SPEC | - | Audio Spectrum |
| 2 | - | VIS | - | Visible Light/Colour Spectroscopy (Multi-Page) |
| 3 | - | IR | - | Infrared Radiation |
| 4 | - | UV | - | Ultraviolet Radiation |
| 5 | - | BT | - | Bluetooth toggle |

