

Wearable, wireless, intelligent multi-sensor data-acquisition platform

On-Board Intelligent Sensors

- Olea Vital-Sign Sensor™
 - 24GHz (K-Band) CW Doppler Radar Sensor
- Activity-Monitoring Sensors
 - Tri-Axis Magnetometer (compass)
 - ± 50 Gauss range
 - Tri-Axis Accelerometer
 - $\pm 2g$ sensitivity
 - Tri-Axis Gyroscope

Connectivity

- Wired: micro-USB
- Wireless: Bluetooth Low-Energy (BLE) 4.2

Physical Attributes

- Dimensions: 84mm (W) x 35mm (L) x 8.7mm (D)
- Weight: Approx. 1.0 oz. US (29 grams)
- Operating temperature range: 0° to 70° C
- Enclosure: Non-hermetic Red poly-carbonate plastic, with black front panel

Processing & Data-Acquisition

- On-board 16-bit data acquisition system
- Processor: Cortex-M4 32-bit ARM
- Settings: set remotely through included software
- Multi-color LED indicators

Power

- Rechargeable 150mAh Li-ion battery (up to 8 hours, depending on use conditions)
- 110/220 volt wall or in-vehicle adapter (one installed battery & wall adapter included)
- Consumes only 425mW (85mA at 5V)



Visit us at www.OleaSys.com

Compatible with Raspberry Pi and all Linux Systems

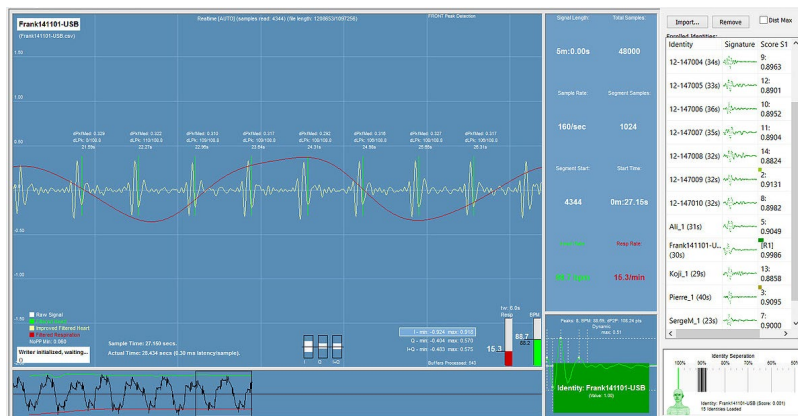
Compliance

- Non-compliance to FCC, CE, ETSI, UL or FDA certifications (for non-clinical R&D use only)
- Non-compliance per Mil-spec environmental conditions. (commercial off-the-shelf)
- Units are fully RoHS compliant
- Radar subsystem complies with ETSI 300 440 and FCC 15.245 (US version)
 - Radar frequencies:
 - 24.05 – 24.25 GHz (ISM/EU)
 - 24.075 – 24.175 GHz (US/JP)

Software and Data Acquisition, Storage & Analysis

- Licensed Software (delivered with OS-3010)
 - On-board Olea customized firmware/software for data acquisition
 - Off-board Olea customized virtual instrumentation GUI software for data display
- GUI Software Compatibility: Windows 10, Android & Linux
- Compatible with Raspberry Pi
- Recording Time: Continuous– limited only by local memory of connected PC
- Olea analytic software designed specifically for “connected car” and “connected care” applications (planned optional add-on licensed software)

Ask us about our capabilities to deliver device features & custom software to meet your requirements



OleaSense Analytic Software

Note: All specifications are subject to change without notice and to verification at time of purchase.

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