OS-3010 Intelligent Multi-Sensor Data Sheet

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
    - ±2*g* 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: 0º to 70º 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)

Compatible with Raspberry Pi and all Linux Systems
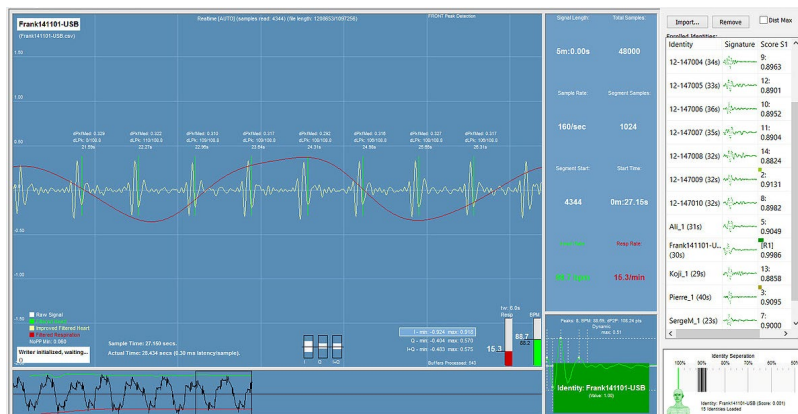
*Visit us at **www.OleaSys.com***

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.