

TURN YOUR IDEAS INTO REALITY

.....
wireless vital sign sensors and
sensor analytic software for the
Internet of Intelligent Things



IoT Solutions

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- OleaVision™ Human Presence Detection
- OleaSense™ Vital Signs Remote Monitoring
- Intelligent Machine Learning Algorithms
- Turnkey IoT Development Platforms

IoT Applications

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- Connected Car
- Connected Care
- Industrial Safety
- UAV Guidance Systems



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OleaSense™ wireless, intelligent multi-sensor data-acquisition platform



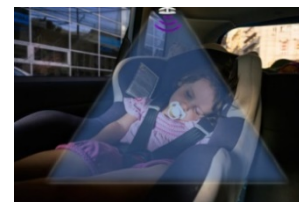
Featuring the Olea 24GHz (K-Band) CW Doppler Radar Sensor and an on-board 16-bit data acquisition system. Heart rate, Respiration Rate and Heart Rate Variability in one device with *medical grade accuracy*. No wires, no leads and results within seconds, accurate to 99% when compared to medical ECG devices. And only OleaSense™ can deliver **HeartSignature™**, a biometric signature unique to every individual based upon their cardiac signal.



OleaVision™ Non-Contact Life Presence Detection Development Platform



The OleaVision™ Life Presence Detection development platform features an FMCW 24GHz radar sensor that is suitable to indoor, outdoor and IIoT applications. It discriminates between objects & life presence within milliseconds and continuously scans for moving and stationary life presence in danger zones in any



environment including total darkness, without dependence on motion sensors. The system has been developed to communicate with a variety of devices potentially enabling alerts and retrieval of information with no concerns for compromising of personal data as it requires **no** on-board cameras.



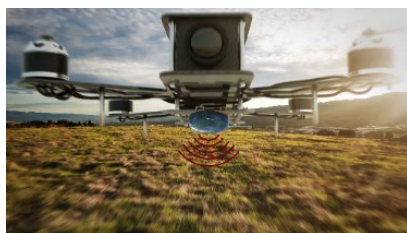
OleaWave™ Intelligent Vibration Sensor Platform

The OleaWave™ Intelligent Vibration Sensor Platform is a wireless, multi-sensor data acquisition and computing platform which remotely captures vibration and temperature, suitable for IoT and IIoT



applications. The device provides for continuous monitoring of temperature and vibration and remote monitoring capability makes it able to be placed in dangerous or hard-to-reach places. Software settings can also be changed or set remotely using included software. Recording time is only dependent upon the local memory of the processing device. Olea analytic software is also available as an add-on with this platform.

OleaVision360™ Patent-Pending Guidance System for Autonomous Applications



Today's drones are blind to their surroundings in outdoor applications and unable to navigate in within buildings; both issues requiring a greater sense of situational awareness than commonly available.

The **OleaVision360™** addresses these issues and more. OleaVision360™ continuously scans surroundings and terrain providing a hemispherical field of view, using one ultra-light weight sensor housed in a 100 mm device, providing a detection range of 20 meters (65 feet) or more. This Low-cost sensor system able to discriminate between animated versus in-animate objects and can function in dust, rain, snow and in total darkness without additional lighting, rotors or beam-forming technologies, allowing it to serve a variety of applications.



All Olea Technologies are available for purchase for non-clinical R&D use.

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