



Advanced Technologies for UAS



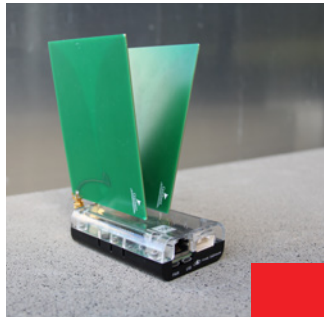
UWB LIFE DETECTOR



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Finding survivors trapped in debris from collapsed buildings and structures is a difficult and time critical problem. This situation can be addressed with Gradiant's LifeSensor technology, a remote life detection and breathing monitoring system (onboard of an UAV) that can help to locate alive victims faster.

The sensor employs Ultrawideband technology to sense through common building materials and can detect even unconscious survivors, becoming the perfect tool to assist search and rescue teams saving time and optimizing operations.

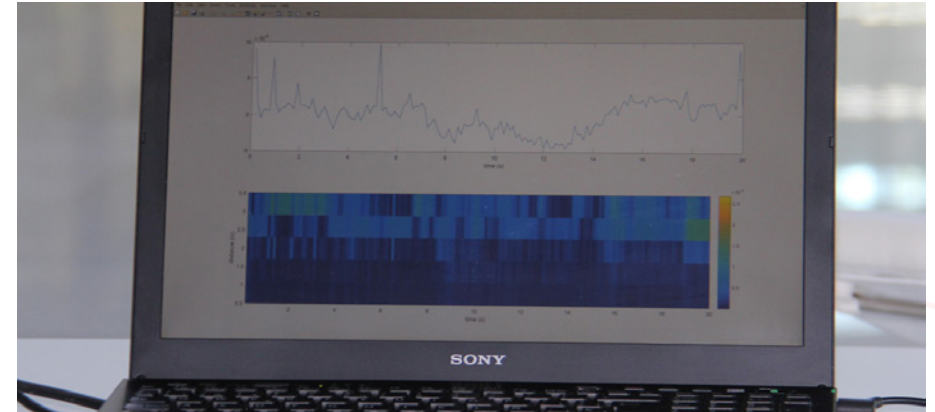


HIGHLIGHTS

- > Ultrawideband technology allows **good penetration** through different materials: stone, concrete, etc.
- > **Minimal SWaP**
- > **Low power consumption** (battery driven use)
- > **Robust** to other signal interference (WiFi, Bluetooth, UMTS, GSM ...)
- > **Easy to deploy** on rescue scenarios

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SPECS

- > Impulse Radio Ultra Wide Band (UWB) technology
- > Low power, safe emission, no interference with WiFi, Bluetooth, etc.
- > Adjustable measuring distance, typically from 1 to 2 meters
- > Measurement update rate: adjustable, typically 4/minute
- > Weight ~200 gr
- > Detection area ~4m² [with UAV landed]
- > Real time detections





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