

Sensor Concepts's RF Systems provides customers with the confidence that their stealth asset is mission-ready by providing integrated measurement systems that are highly capable, portable, and easy to operate. These integrated measurement systems utilize radar technology to measure and help maintain the radar signature of the asset. Our products are used throughout the life cycle of stealth assets, from research and design through manufacturing and the operational environment.

InfiniScan Max

The Sensor Concepts InfiniScan Mechanically Assisted, or MAx, system variant leverages metrology-grade location tracking and built-in automation for highly accurate and repeatable aperture formation. The MAx system RF Head leverages the WaveCore source/receive module to cover the frequency range of 2-18 GHz, coupled with custom-designed antenna to collect both horizontal and vertically polarized data. Automated control of the aperture formation and maintains true desired observation geometry and greatly improves measurement performance over traditional methods. Both low frequency (300 MHz - 4 GHz) and Ka band payloads are currently available as add-on capabilities for the MAx system.

RF Systems

Leading Technology for Mission Critical Applications

InfiniScan Handheld

The handheld unit employs the WaveCore source/receive module which contains all of the RF electronics and antennas to cover the frequency range of up to 2 - 18 GHz in both horizontal and vertical polarizations quasi-simultaneously. Simple user controls and an onboard display allow the user to operate all of the functions of the software to calibrate the radar, align to the target, measure the target, and view the data which was collected.

The backpack unit houses a passively cooled embedded computer and custom electronics which provide power and communication signals to the handheld unit. Integrated hot-swappable batteries ensure continuous run-time for both the backpack and handheld units. The externally visible and removable hard drive allow for the system to be quickly sanitized by simply powering down and removing the backpack hard drive. An auxiliary circular connector provides access to additional signals such as Ethernet, USB, and VGA for administration and auditing.



HH1 (4 - 18 GHz) handheld product variant pictured



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