

Raptor Scientific'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 lifecycle of stealth assets, from research and design through manufacturing and the operational environment.

### InfiniScan Max

The Raptor Scientific 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 a 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 - 4GHz)** and **Ka band** payloads are currently available as add-on capabilities for the MAX system.

# RF Systems



Global Provider of Test & Measurement Solutions



## 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.

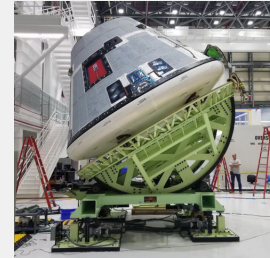
The backpack unit houses a passively cooled embedded computer and custom electronics which provide power and communication signals to the handheld unit. Integrated hot-swappable batteries ensure continuous run-time for both the backpack and handheld units. The externally visible and removable hard drive 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

## High-Performance Physical Properties Systems

Raptor Scientific is the premier provider of mass properties instruments and services utilized in mission-critical applications. Our unmatched engineering expertise, combined with superior testing and aftermarket services deliver industry-leading precision capabilities. We have sold more moment of inertia and center of gravity instruments than any other company, offering the most accurate instruments in the world.



## Avionics Systems

Our line of Air Data Test Sets (ADTS) and Air Data Calibrators (ADC) offers our commercial and military customers a common equipment approach for testing pitot static and air data applications. Our off-the-shelf solutions can be customized to fit most customers requirements. This provides significant cost savings and enhanced logistical support benefits for almost any program.

## Additional High-Performance Products and Expert Services

- High-performance mass properties instruments
  - Weight & Center of Gravity (CG)
  - Moment of Inertia (MOI)
  - Product of Inertia (POI)
  - Dynamic Balancing
  - Gimbal Balancing
  - Moment Weight Scales
  - Fixtures & Accessories
  - Center of Buoyancy
- Air Data Test Systems & Calibrators
- Air Bearings
- Equipment Calibration & Support
- Engineering
- Equipment Leasing
- Mass Properties Measurement Laboratory
- Radar Cross Section (RCS) Measurement
- Repair & Overhaul
- Training

## Why Raptor Scientific?

- **Unmatched Performance and Services Offerings** - Testing and aftermarket services combined with a "culture of support" offers vital feedback and guidance to customers before and after purchase
- **Product Innovations** - A proven record providing cutting-edge, highly complex solutions, with engineer-to-engineer market strategy ensuring solutions meet highly customized needs
- **Comprehensive Solution Set** - Extensive product range and solutions across diverse platforms and applications with complementary solutions and multiple value-add features.
- **Design Engineering Expertise** - Unmatched engineering and application expertise balances innovation and profitability

