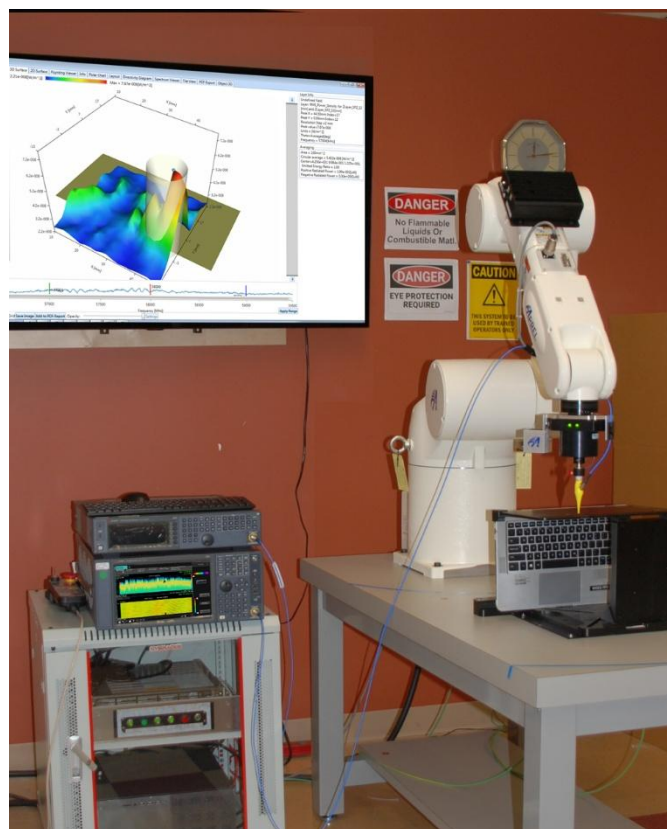


## EM-ISight 70GHz Scanning System



Fully automated near-field solution with report generation and multiple viewing options for measurement results.

70 GHz scanning system equips engineers with circuit- and system-level visibility to pinpoint and isolate electromagnetic interference across an ultra-wide frequency range. Ideal for early-stage prototyping, it accelerates development cycles and ensures cleaner, more reliable designs from the start.

The 360-degree probe rotation feature delivers a precise vector distribution plot for enhanced noise and crosstalk analysis of high-speed designs to optimize signal and power integrity.

Our methodology makes it possible to perform a comprehensive assessment of phase-array antennas operating at frequencies up to 70 GHz transmitting/receiving an ultra wide-bandwidth (up to 2 GHz) modulated signal.

Volumetric scan enables engineers to verify the efficiency of the beam-forming processes for phase-array antennas.

Spatially-averaged power density function provides a solution for 5G devices.

Probe Type	Frequency	Connector	
H-Field XY Vector H-Field Z Vector E-Field XY Vector E-Field Z Vector	Broadband 100MHz – 70GHz	1.87 mm	Integrated circuits/packages
			PCB fixtures
			Memory modules
			Automotive and avionics cockpit dashboards
			Streaming devices
			Printed antenna modules
			Wi-Fi and 5G mobile devices
			High-speed switches (Gigabit & beyond)
			Quality control
			Phase array antennas
			Telecommunication systems
			Signal and power integrity testing

## Features:

**Data Export:** Integration with tools like Ansys; automated reports to MS Word.

**Topology and Scanning:** Dynamic touch detection, multi-meshing, and real-time sweep updates.

**Performance Analysis:** Limit exceed searches for peak, average, band power, theta max, RMS, and power signatures.

**Visualization Modes:** AVI plotting in 3D/4D; vector probe alignment for phase/wavefront analysis.

<b>6-axis Robot Platforms</b>	Standard Reach	300 x 300 x 200 mm workspace
	Extended Reach	500 x 500 x 400 mm with 3 available workspace options
	Long Reach	700 x 700 x 700 mm with 3 available workspace options
<b>Frequency</b>	100 MHz – 70 GHz	
<b>Components</b>	Runs on Windows 11 64Bit 360 Degree Probe Rotation function Workstation for robot integration and safety Vision system for robot control and calibration Boundary detection unit for surface detection and emergency stop RF-ISight-Light data processing software	
<b>Accessories</b>	70GHz microstrip line for system validation 6GHz low noise amplifier (LNA) RF cables; optional phase-matching cables for phase-magnitude measurements	
<b>Optional Modules</b>	Far Field Approximation (FFA) Ubiquitous Server Module (USA) Complex Fields	
<b>Hardware Integration</b>	Electrostatic Discharge (ESD)* Electromagnetic Susceptibility (EMS) Active Phase	

\*Not applicable to Standard Reach platform

