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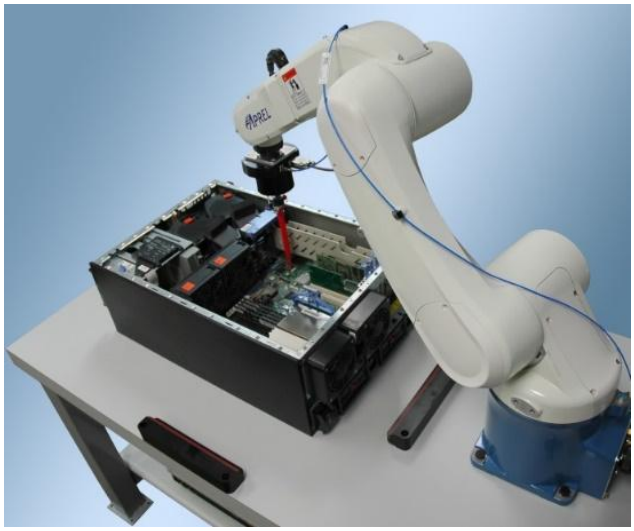
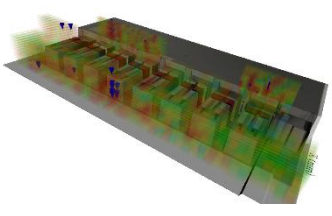
EM-ISight Extended Reach

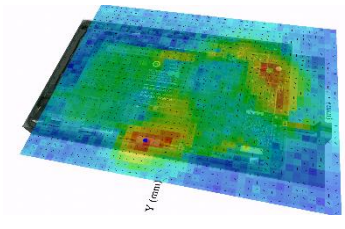


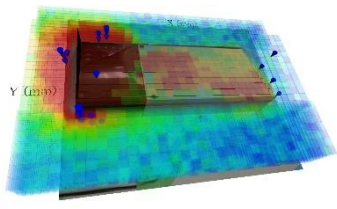
The EM-ISight-ER is a fully flexible EMI/EMC measurement system built on a Factory grade 6 axis articulated robotic platform designed to support multiple applications and industries. System can be applied to the test of networking, automotive, IC, aviation, defense, and electronics. Used as compliance system for IEC-61967-1-6 or a development tool, the abundance of features meet most requirements for research, design and analytical needs. This platform allows for the full suite of upgrades to be applied post delivery and is ideal for assessment of larger test subjects.

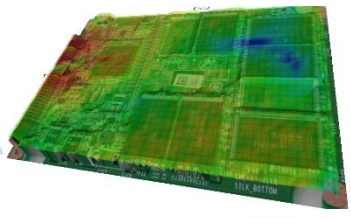
Integration of vector probes with 360 degree rotation allows users to measure phase and wavefront of a complex signal. Customizable features allow users to have complete control of the measurement process employing the fully automated software and hardware. The footprint of the system means that it can be introduced to shielded enclosures easily with multiple options for frequency, hardware and software upgrades. The system has an assessed noise floor (sensitivity) of below -145 dBm* when used with high end spectrum analyzers and in a controlled environment.

System Software **Windows 10/11 Pro 64 Bit**	Data Visualization: 2D/3D/4D heatmaps with layers, vector rotation, and frequency distribution. Search and Noise Removal: Automated/user live peak search with delta and digital noise elimination. Probe Calibration: Dimension scan, vision system GUI teaching, and probe positioning in X/Y/Z and Phi. 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.
Applications	Integrated Circuit 20um (10um pitch upgrade)/Printed Circuit Board: Wireless modules : De-Sense testing (receiver circuits) : Automotive Subsystems including infotainment, environmental Tesla Fields including Battery and Exposure : Medical devices : Electronic device emissions and Susceptibility : Telecommunication Systems medium scale network equipment, routers, switches, and base stations Pre-Compliance testing (emissions/susceptibility) : Quality control/audit : Consumer products cell phone/computer devices : Security Systems & Cryptologic Subsystems : Signal and Power Integrity : Sall scale satellite communications systems : High speed data interconnects
Frequency Options	9kHz-6GHz: 9kHz-20GHz: 9kHz-40GHz DC-200kHz: 8GH: 26GHz: 44GHz: 70GHz: 110GHz: 220GHz
Measurement Units	dBm; dBuV; dBuA; dBuV/m; V/m ; dBuT
Reach and Movement	NO. of axes: 6 (X, Y, Z and θ) Built on Denso RC8 Controller Typical reach*: Along X & Y axes: 600 x 600 mm : Along Z axis: 500 mm (Cartesian) Rotation θ axis: 360° Resolution: X and Y axes: 0.02mm (upgrade to 0.01mm) Z axis: 0.02mm (upgrade to 0.01mm) θ axis: 0.1°: Vision Calibrated using Vision Plate and VCS
Probe Options	Fully Calibrated & Characterized Vector Probes - Hxy, Exy, : Hz, Ez 1mm Exy, 2mm Hxy Standard Options
Operating Voltage	220V AC Robotics: 5V USB Vision System
Upgrade Highlights	Far-Field Approximation: ESD Test Suite: Electromagnetic Susceptibility: Multi-Span: RF-ISight advanced analysis tool for Import/Export of Simulation data.









Available Upgrades on Next Page

System Options

Available Options	EM-ISight-SR	EM-ISight-ER	EM-ISight-LR	EM-ISight-ESD
DC-200MHz Low Frequency Module includes Tesla Field Strength Measurement Function for Battery and Vehicles Includes Hxy/Hz Probe and LNA	•	•	•	•
10GHz to 72GHz Frequency Option	•	•	•	
10GHz to 110GHz Frequency Option		•	•	
Vector Probes (standard for all XY types)	•	•	•	•
Full Probe Rotation 360° (standard)	•	•	•	•
2mm Hxy & Exy Vector Probe (standard)	•	•	•	•
2mm Ez (optional)	•	•	•	•
2mm Hz (optional)	•	•	•	•
1mm Exy & Hxy Vector Probe (optional)	•	•	•	•
1mm Ez (optional)	•	•	•	•
Scan Volume 300 x 300 x 200mm	•	•	•	•
Scan Volume 500 x 500 x 400mm		•	•	•
Scan Volume 1,050 x 1,050 x 900mm			•	
Vision System for DUT Capture, Device Teaching and Measurement Parameters (standard)	•	•	•	•
Off Axis (horizontal scanning) includes 5 Scanning locations 2 x Horizontal & 3 x Cartesian		•	•	
Far Field Approximation		•	•	•
Ubiquitous Server Module	•	•	•	•
Advanced Measurement Suite Option, Includes Phase, s11/s22, Vector Network Analyser and Multi Span Support for Analysers	•	•	•	•
Active Phase Module, Supports the measurement of digital devices operating in normal conditions, includes Contact Probe and optional Exy/Ez/Hxy/Hz Characterized probes	•	•	•	•
RF-ISight Advanced measurement module, Power Density, Poynting Vector, Phase Passive/Active, Wavefront, Vector and Antenna Assessments and Backscatter: Includes Module for Import and Export of Simulation Data	•	•	•	•
ESD Measurement Upgrade		•	•	
ESD Launch Pad kit Option, includes probes, contact discharge, air discharge and ESD immunity measurement suite				•
Hearing Aid Compatibility for C63.19 20013 & 2019	•	•	•	•
Modular Workstation Options		•	•	
Mobile Isolation Chamber (shield)	•			
Shielded Enclosure	•	•	•	•
Advanced Device Positioner	•	•	•	•
ESD Extended Ground Plane				•
ESD 61000 workstation and ground plane				•
Calibration set for High frequency, includes horn, MSL and LNA (50-72GHz/50-110GHz)		•	•	
Electromagnetic Susceptibility Measurement Suite Includes 3V/m or 10V/m Support, RF Amplifier, DVM and Ez Probe	•	•	•	•
Extended Maintenance Program (software/hardware) Includes software updates and support beyond first 12 months	•	•	•	•