



PRODUCTS

Sixarms provides highly specialized Airborne Radio Measurement Systems (ARMS) and associated consultancy for rapid assessment of critical RF (wireless) infrastructure, inclusive of:

- // High Performance Airborne Platforms (UAV) with cm resolution positioning
- // Integrated RF Receiver/RF Signal Generator with embedded PC
- // Calibrated Antennas (VLF to mmWave)
- // Custom Ground Control Software for instant analysis and reporting
- // Training and support for Standalone Self-Managed Systems
- // Full characterization of antenna system radiation patterns (elevation, azimuth and effective radiated power)

Premier provider of automated airborne RF Infrastructure assessments.

CAPABILITIES

Our team of RF, Electrical and Software engineers and certified UAV pilots provide fully customized airborne RF Test and Measurement products and services within the broadcast, telecommunications, aeronautical, satcom and defense RF environments covering the 9kHz to mmWave frequencies, including:

- // Antenna Radiation Pattern Characterization (VLF, MF, HF, VHF, UHF, OTHR)
- // Cellular KPI and coverage measurements (GSM, UMTS, LTE, 5G)
- // Beyond Visual LOS RF connectivity assessments (BVLOS)
- // Instrument Landing Systems and Glide Path Analysis
- // Pulsed Radar pattern and analysis
- // General Antenna Proof of Performance Measurements (Land, Sea, Air)
- // Direction Finding / Spectrum Analysis / Roving RF Target
- // In-house design and manufacture of custom airborne RF measurement systems
- // Regulatory RF emissions compliance checks

DISCRIMINATORS

- // Autonomous airborne measurements as opposed to ground based and other types.
- // Collected data validated live and reports produced automatically
- // Seamless integration of measurement and control software with cutting edge unmanned aerial vehicle technology.
- // Offer both self-managed turnkey systems and service-based consultancy.
- // On-site training

KEY CUSTOMERS

- // US Navy (SPAWAR / NIWC)
- // Ireland Government (RTE)
- // UK Public Service Broadcaster (BBC)
- // Spectrum Regulators (CONATEL)
- // Multiple Broadcasters Worldwide
- // Multiple Independent RF Consultants
- // Defense Force Maintenance Contractors
- // Antenna Manufacturers (Dielectric, Kathrein, RFS, etc)
- // Defense Science Technology Group (AU)
- // Babcocks, BAE Systems, Ventia (AU)
- // Australian Government (AU)

KEY PARTNERSHIPS

- // Syndetic (Australia)
- // Broadband Propagation Systems (Global)
- // Protea Electronics (South Africa)
- // Cavell, Mertz and Associates (US)
- // UAV Manufacturers (Aeronavics, DJI, Acecore, Freeflysystems, etc)
- // Certified Operator Network (Worldwide)
- // BAI International (Australia)
- // Spectrum Hardware Manufacturers

QUALITY ACCREDITATIONS AND AWARDS

- // Based on ITU Recommendations ITU-R SM.2056-1 "Airborne verification of antenna patterns of broadcasting stations" and ITU-R SM.2486-0 "Use of commercial drones for ITU-R spectrum monitoring tasks"
- // Industry consultation and peer review
- // Federal Communications Commission (FCC) standards compliant
- // ISO9001 (in progress)
- // Worldwide Operation

CONTACT DETAILS

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SIX  **ARMS**®

AIRBORNE RADIO MEASUREMENT SYSTEMS