

**Freedom to
make isolated
Comb Generator
Measurements
and test
Quasi-Peak
Detectors at
Last!!**

NEW
Comb Generator
with Low Frequency Pulsed Output for
Quasi-Peak Detector Verification

introducing

Universal Spherical Dipole Source

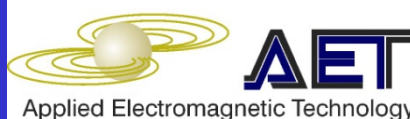
A unique electromagnetically-isolated and broadband Electric field source with Quasi-Peak (QP) detector test functionality.

Ideal for

- Verification of RF Emission Measurements
 - Any RF Test Laboratory Site, or Complex RF Test Environment
- Quasi-Peak Detector Verification
- Verify Laboratory Turn-table Integrity

Features

- Radiating Spherical Dipole Frequency Ranges:
 - 10 MHz to 12 GHz
 - Selectable Fundamental Frequencies of 10 MHz, 64 MHz, 100 MHz and 133 MHz¹
- Low Frequency Pulsed RF for Quasi-peak Testing
- Rechargeable Battery-Powered Dipole Antenna
- Useable harmonics at least 10 dB above noise floor to at least 10 GHz²



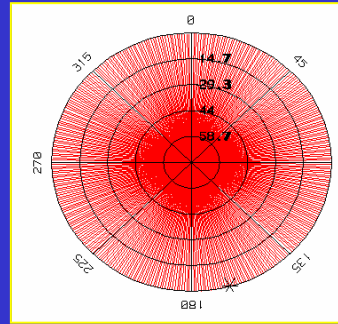
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Advanced technology for accurate electromagnetic measurements

Universal Spherical Dipole Source

Universal Source

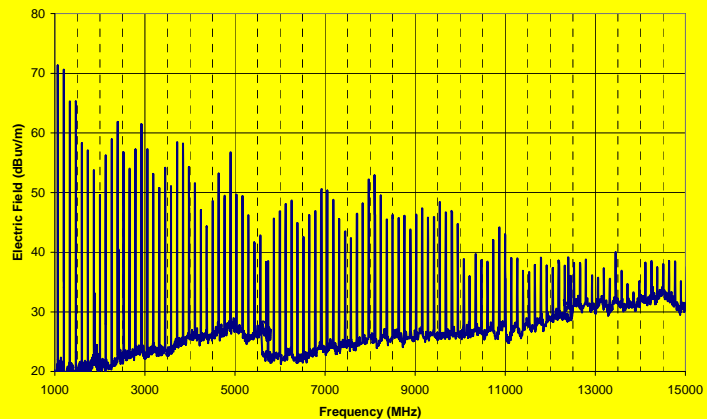
- Broad CG RF Output Frequency Range
- Quasi-Peak Detector Verification
- Output Above 35 dBuV/m at 1 m.
- Highly Uniform Radiation Pattern



Spherical Dipole Antenna

- Spherical Dipole Emission Pattern Highly Predictable
- Small, 10 cm, Spherical Dipole Shape Easy to Use
- RF Isolation with Batteries; 6-8 Hours of Operating Time
- Internal SMB RF Connector
- Tripod Mountable

Typical USDS Radiated Electric Field Levels
133 MHz Clock



Batteries

- Up to two AAA Ni-MH Rechargeable Battery Cards Inside the Sphere
- Designed to Provide Spherical Dipole a Long Operating Time
- Easy In-Sphere & External Charging for Real-World Applications



The Universal Spherical Dipole System (USDS) was designed to provide real-world RF laboratory and field measurement teams a versatile broad-band electric field source!

The USDS is a unique product, a radiated E-field source that addresses many requirements in both the research and test community. This RF signal is internally generated by a stable Comb Generator (CG) and amplified to create a highly repeatable RF source. The fundamental frequency of the CG is factory set at 10 MHz, but can be selected by the operator to any of 4 fundamental frequency settings (10, 64, 100 and 133 MHz). The USDS is typically used to generate radiated uniform E-field levels using the spherical dipole antenna. [Note: custom frequencies are available.]

Equipment Verification

Ideal as a RF source for daily emission measurement equipment checks, and is especially unique to provide laboratory assessment of equipment Quasi-Peak detector performance. Applicable to OATS, GTEMs, semi-anechoic or shielded rooms, and any standard or complex RF test environment.

Shielding Effectiveness Testing

The small radiating element (10cm. in diameter) makes the USDS source ideal for inside very small (or large) enclosures for quick-look shielding effectiveness measurements.

¹ Other frequencies available upon request

² Spectrum Analyzer Resolution Bandwidth = 10 KHz

NOTE: Specifications subject to change without prior notice