

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



**Freedom to
make isolated
Comb Generator
and
Quasi-Peak
measurements
at Last!!**

introducing

Universal Spherical Dipole Source

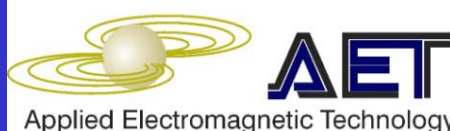
A unique electromagnetically-isolated and broadband Electric field source with Quasi-Peak (QP) source functionality.

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 5 GHz, 10 MHz Frequency Steps
 - Selectable Fundamental Frequencies of 10 MHz, 20 MHz and 50 MHz
- Low Frequency Pulsed RF for Quasi-peak Testing
- Antenna Isolated Using Rechargeable Batteries
- Output Levels above FCC/CISPR Limits at 10 m.



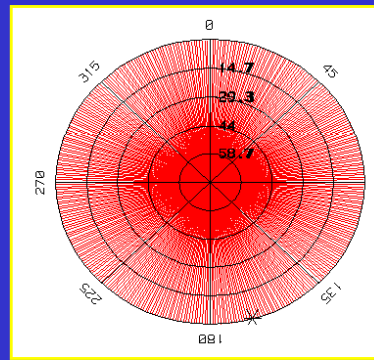
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Advanced technology for accurate electromagnetic measurements

Universal Spherical Dipole Source

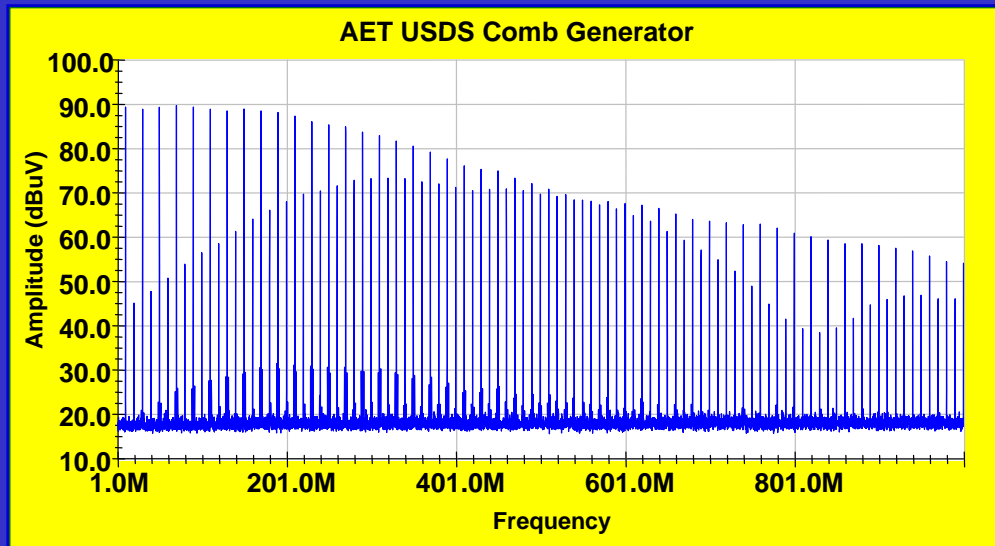
Universal Source

- Broad CG RF Output Frequency Range
- Quasi-Peak Detector Verification
- Output Above FCC/CISPR Limits at 10 m.
- Highly Uniform Radiation Pattern
- Direct RF Output Using SMB Coax Connection



Spherical Dipole Antenna

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



Batteries

- 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 adjusted by the operator to any of 3 fundamental frequency settings (10, 20 and 50 MHz). The USDS is typically used to generate radiated uniform E-field levels using the spherical dipole antenna. Alternatively, direct injection of the CG RF signal can be achieved simply by removing a hemisphere and connecting directly to the SMB coaxial connector.

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.

Antenna Calibration

Highly stable and repeatable E-field source, and also electrically small, providing an accurate "point source" for antenna calibration. Battery isolation allows a repeatable test set-up, removing unwanted effects from coaxial cables, power cables, and ground loops.

