

# Unique RF Sources; Radiated Electric Fields and Direct Connection

Allows Testing of EMC/RF Equipment and Gives  
You the Freedom to Make Accurate Measurements!



## PRECISION SPHERICAL DIPOLE SOURCE (PSDS)

Extremely repeatable Electric fields from a 10 cm (4 inch) spherical dipole antenna the over broad frequency range of 50 MHz – 4 GHz. The PSDS is controlled from any computer using a Graphical User Interface, features battery operation with smart power features for extended operating time and optical isolation.



## UNIVERSAL SPHERICAL DIPOLE SOURCE (USDS)

Highly stable comb generator with frequency range from 10 MHz to 16 GHz contained inside a 10 cm (4 inch) spherical dipole antenna. Four selectable fundamental frequencies: 10 MHz, 64 MHz, 100 MHz, & 133 MHz adjust the harmonic frequency content. A unique selectable pulsed RF feature allows the comb signals to be used to test Quasi-peak detectors and Peak detectors!



## DIRECT RF SOURCE (DRFS)

Same features as the USDS except packaged for direct RF connection to any RF equipment using a standard SMA connector.



## USB SOURCE (USB-S)

A pocket-sized highly stable RF comb generator powered by a standard USB port. Available with fundamental frequencies of 1.8, 10, 64, 100, 133, 200 MHz. A unique selectable pulsed RF feature for Quasi-peak testing is optionally available.

*Advanced technology for accurate electromagnetic measurements*



## Unique RF Sources; Radiated Electric Fields and Direct Connection

### **These unique Radiated Electric Fields and Direct Connection RF sources provide real-world RF laboratory and field measurement teams a versatile broad-band electric field source!**

These products address many RF requirements in both the research and test community with applicable to OATS, GTEMs, semi-anechoic or shielded rooms, and any standard or complex RF test environment. Each product provides RF signals that are stable and highly repeatable. The products with battery and optical fiber isolation allow a repeatable test set-up, removing unwanted effects from coaxial cables, power cables, ground loops, and other test environment artifacts. Newly designed Li-Ion battery cells and smart power circuitry extend operating time beyond 12 hours with under voltage protection and alarm. And a new external battery charging port on the ring and Internationally rated power supply with interchangeable blades are provided for simple and fast battery charging in any country.

### **Equipment Verification**

Antennas/Baluns/Cables/Receivers can all develop problems that may go unnoticed, requiring expensive and time consuming re-testing. These products are ideal as easy to use RF sources for daily emission measurement equipment checks. Many of these products offer unique capability to quickly verify receiver Quasi-Peak detectors and Peak detectors performance separately.

### **Shielding Effectiveness Testing**

The spherical dipole antenna is a small radiating element (10cm. in diameter) which makes an ideal source for use inside nearly any size enclosure for shielding effectiveness measurements. The USDS and PSDS are battery operated so the spherical dipole antenna is isolated, thus eliminating issues from cables fed through the enclosure. Additionally, the PSDS provides optically isolated feedback so the output RF level can be adjusted to create an accurate and highly repeatable E-field source (0.2 - 0.5 dB). This ensures the same radiating E-field as in an open site characterization in spite of the near field effects of the enclosure.

### **Calibration Standard**

The PSDS is also Ideal as a ultra-repeatable reference source for daily equipment checks, and as an inter-laboratory and/or a multiple site transfer standard.

### **Antenna Calibration**

The PSDS is an extremely stable and repeatable E-field source, and also electrically small, providing an accurate "point source" for antenna characterization.