

Omnifield Antenna®



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A unique broadband active **E- field isotropic (omni directional) antenna** for RF spectrum monitoring. Connects to **any spectrum analyzer**, and has frequency response practically independent of antenna orientation or electric field direction. Offers high sensitivity and broad dynamic range for the variety of RF regulatory, safety, EMC, wireless and telecommunications applications.

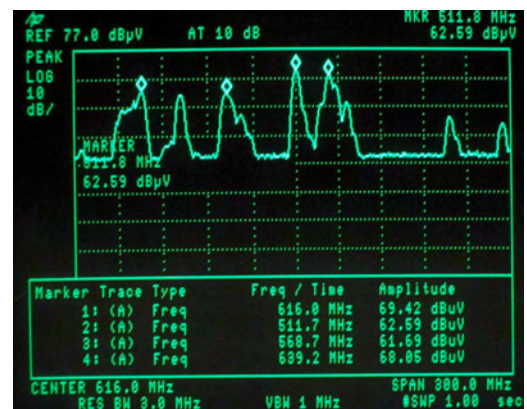


Omnifield Antenna® consists of three parts: antenna head, handle and power unit. Antenna head and handle comprise a single module while power unit is detachable from the handle to allow convenient storage in the supplied rugged plastic case. For normal operation handle must be connected to the power unit to provide power to the antenna head.

Antenna head has 3 antennas positioned normal to each other. Signals from each antenna are combined and amplified to allow output signal of **Omnifield Antenna®** to be proportional to the absolute value of the field regardless of the field direction.

Power unit contains the rechargeable battery and connectors for the antenna and output cable.

Ferrite beads, located on this cable, decouple the antenna from spectrum analyzer and reduce the effects of this analyzer on measured field. This cable also allows operator to have freedom to place the antenna in right position either on non-metal table tripod (supplied with every system) or onto optional 5 feet adjustable tripod.



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Specification

Omnifield Antenna® Model: OFA-S

- **Antenna Sensor: Isotropic 3-Axis.**
- **Frequency range: 30 MHz - 3 GHz.**
- **Dynamic range: 3 mV/m - 300 V/m.**
- **Dimensions of the Antenna:**
Antenna Unit (LxD) 9.0"x2.75".
Power Unit: (LxWxD) 3.75x2.25x1.25.
- **Rechargeable battery operation time: 8 hours.**
- **Warranty and Calibration Period - 1 year.**
- **CE Mark.**
- **US NIST/UK NPL traceable calibration certificate with measured **Antenna Factors** and **Rotational Isotropy** is supplied with every unit.**

Standard Antenna Set Includes:

- **Antenna unit OFA-S.**
- **Power unit PU-5S.**
- **Custom 5 ft. ferrite beaded RF cable.**
- **AC/DC plug-in charger.**
- **Table tripod, mounting accessories.**
- **Users Manual with documentation.**
- **Rugged plastic storage case.**



Accessories

- **Extendable 5 ft. tripod.**
- **Custom length RF cables.**
- **Extended maintenance contract.**

Purchasing the Omnifield Antenna®

To inquire about **Omnifield Antenna®** send us an e-mail exid@emctd.com, or give us a call: **508-292-1833** and look at our web site: www.emctd.com.

We can arrange the demonstration of **Omnifield Antenna®** by our distributor in your country.

Our mail address:

EMC Test Design, LLC® P.O. Box 600532, Newton, MA 02460, USA.

