



HBET

HPM Beam Evaluation Tool

REMOTE RF MEASUREMENT WITH VISUAL FIELD STRENGTH INDICATOR.



CREATING SOLUTIONS THAT MATTER



HBET | HPM Beam Evaluation Tool

REMOTE RF MEASUREMENT WITH VISUAL FIELD STRENGTH INDICATOR.

KEY FEATURES

- Visual feedback of peak incident field strength
- 8 detection levels reported as
 - LED colors, or
 - LED Flashes (user adjustable)
- When sensors are arrayed, provides HPM pattern and pointing assessment
- Environmentally ruggedized for outdoor use
- Operate for 7 days on a single charge
- Customizable for customer needs

SYSTEM USE CASES

HBET is ideally suited to compliment more expensive high fidelity HPM instrumentation by providing a peak field strength sensor that can be placed virtually anywhere in and around the test location. Users can use a single HBET sensor for field strength measurement at a single point, or array multiple sensors to provide beam pattern, or wide-area pointing information. Their small size allow them to be placed virtually anywhere to include off-beam locations, useful for fratricide or beam safety measurements.

The HPM Beam Evaluation Tool (HBET) test capability includes small, ruggedized HPM detectors that provide immediate, multi-color, visual feedback of the incident HPM field strength. The battery powered detectors lasts for 7-days without charge and, when arrayed in a set on the tower system, provide a visual indicator of the HPM beam pattern. The HBET capability includes multiple detectors, a 40' x 40' tower system with a net on which they are mounted, and a hardened image capture and processing capability to provide the user with detailed HPM field strength analysis.

KEY PERFORMANCE SPECIFICATIONS

SPECIFICATIONS	VALUE
HPM Frequency Range	500 MHz – 6 GHz
Sensitivity (envelope detection - peak field strength)	0.5 – 300 W/cm ²
Minimum Detectable Pulse Duration	10 nsec
Sensor Polarization	Orientation dependent
Operating Temperature	32°F – 120°F
# of Reportable Power Levels (user adjustable)	8
Sensor Bandwidth	Narrowband only
Data Retrieval/Processing	Automatic photo capture Post-retrieval download
Set-up/Take Down Time	40 node net array: <2 hrs
Environmental	Sustained Outdoor

CONTACT INFORMATION

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