FAETS

Fast Acquisition
Effects Testing System

COMMERCIAL HIGH-SPEED DATA ACQUISITION PACKAGED FOR HPM ENGAGEMENTS.

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FAETS | Fast Acquisition Effects Testing System

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Fast Acquisition Effects Testing System (FAETS) is a field-mobile, rugged, and environmentally shielded HPM instrumentation suite capable of capturing and digitizing real-time HPM signals specific to the stakeholder's data acquisition needs. FAETS equipment can operate in challenging outdoor environments, designed to handle both high temperatures and dusty operating conditions. The equipment is accessible both locally and remotely as needed per the testing environment.

Two independent systems have been developed with the ability to implement remote data collection for: Ultra-Wideband (UWB) RF testing and High Frequency Narrow-Band (HF NB) RF testing.

KEY FEATURES

- Easily and quickly deployable on a day-to-day basis
- Ruggedized for deployment in hot and dusty conditions
- Large sensor and horn suite
- Real-Time data collection (both local and remote)
- Live HD video of effects on target
- Customizable for stakeholder's needs
- Shielded enclosure

SYSTEM USE CASES

Immediate use in testing solid state inductive storage pulse generators combined with:

- Pulse forming networks (monopolar or bipolar, Non-Linear Transmission Lines (NLTL) or Inductive Capacitor (LC) resonators)
- Wideband antennas
- MIL-Standard testing

Can be used for other UWB or NB systems

- L-Band and S-Band NLTLs
- Customized wideband systems
- Engine stopping systems

KEY PERFORMANCE SPECIFICATIONS

SPECIFICATIONS	VALUE
Data Acquisition Bandwidth	0 – 50 GHz
Sample Rate	40 Gsamp/sec
Weight	<600lbs
Number of Data Acquisition Channels	Up to 48
Operating Temperature	32° F – 115° F
Sensor Polarization	Horizontal, Vertical, Circular
Sensor Bandwidth	Narrowband and Wideband
Data Retrieval/Processing	Remote, Real-Time Data Acquisition, Processing, and Archiving
Set-up/Take Down Time	<2 hrs
Environmental	Ip 6.2

Sensor Array

DUT

NB Outdoor Test Scenario

FAETS

CONTACT INFORMATION

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