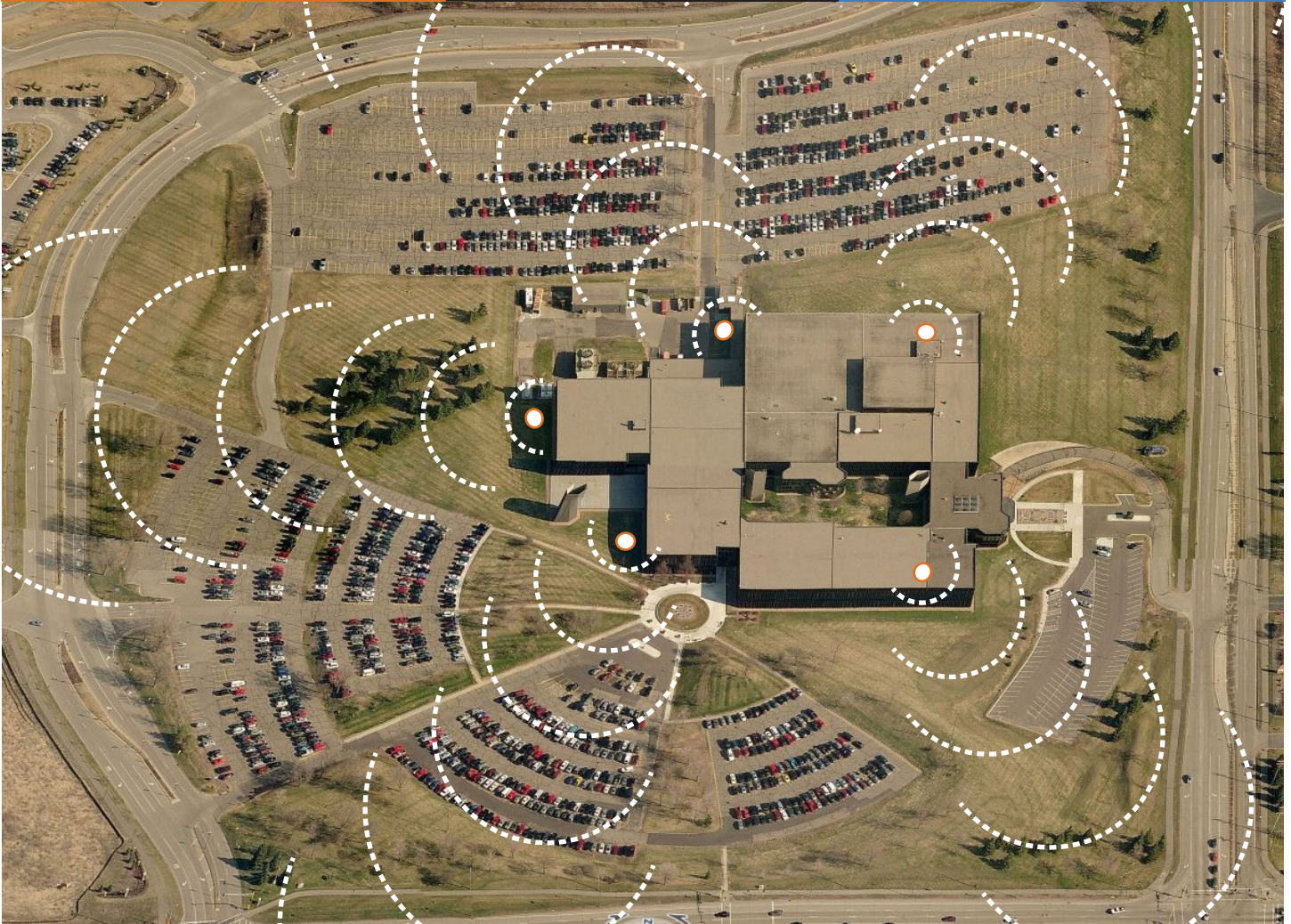
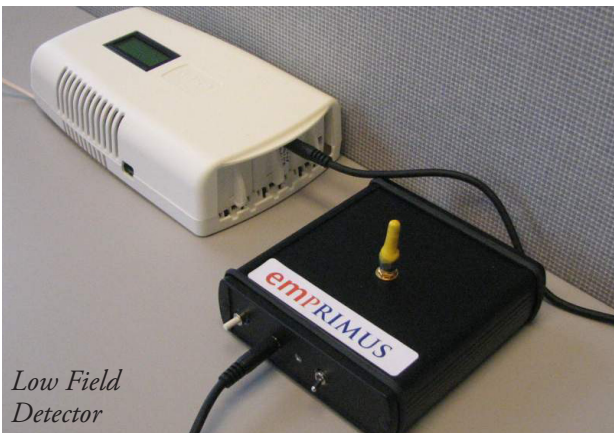


THREAT DETECTION SYSTEM

Detect a wide range of radio frequency threat intensities, ranging from nuisance levels to those that damage electronics and cause data integrity issues with the Emprimus High and Low Field Detectors.

The logo for Emprimus, featuring the word "emPRIMUS" in a sans-serif font. The "em" is in orange, "PRIMUS" is in blue, and there is a trademark symbol (TM) to the right.

Placement of High Field Detectors



*Low Field
Detector*



*High Field
Detector*

THREAT DETECTION SYSTEM

Overview Information

A new, proprietary, low cost architecture is the key to the Emprimus line of affordable electromagnetic field detection systems. Detect a wide range of radio frequency threat intensities, ranging from nuisance levels to those that damage electronics and cause data integrity issues. The Emprimus approach employs very high speed signal processing of the extremely wide bandwidth waveforms to obviate the need for expensive sampling systems. Tailored central control provides alerts, threat identification, direction, magnitude, signature analysis, and data logging at a very low bandwidth. System output can be integrated into systems dashboards to enable appropriate security and disaster recovery team responses.

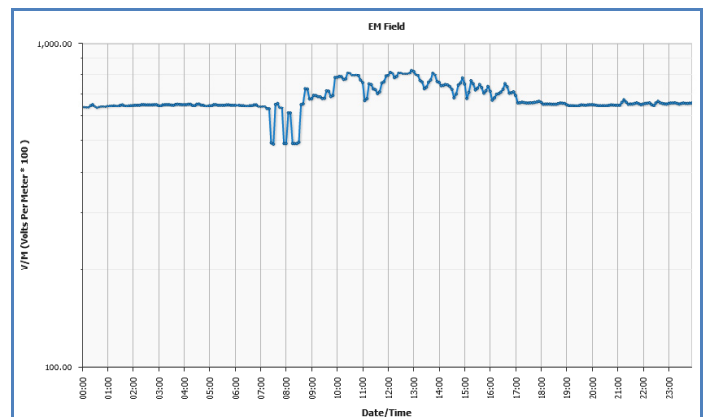
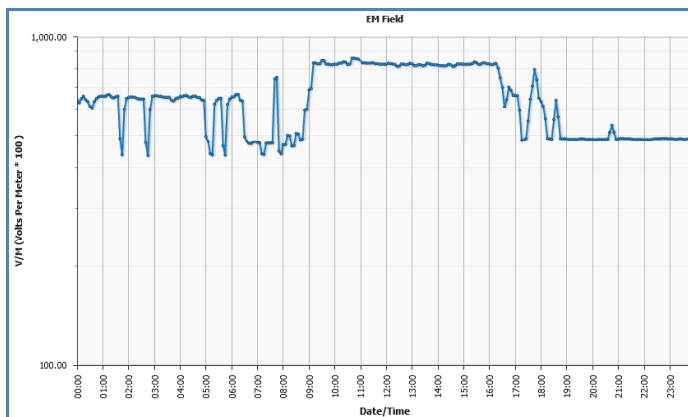
Detector Uses

- Inside of protected enclosures or facilities for real-time assurance that shielding and filtering technology is working properly
- Near sensitive medical or laboratory equipment to measure any potential outside energy that could affect instruments or measurements
- Perimeters of buildings and campuses to measure threat levels and determine direction of source
- Support disaster recovery operations by affirming the threat source and facilitating the correct response
- Understand influence of “noisy” equipment, such as large electric motors, transformers, and industrial production lines, that are located nearby other electronic systems

Specifications	High Field Detector	Low Field Detector
Frequency Response Range	10 MHz to 10- GHz	100 MHz to 3 GHz
Pulse Rise Time	<10 ns	<10 ns
eField Amplitude	100 v/m to 100,000 v/m	.01 v/m to 100 v/m
User-Definable Alerts	Every Second	Every Second
Remote Data Access	Yes	Yes
Antenna Type	Patented Loop	Monopole
Source Directionality	Yes*	N/A
EMP/IEMI Hardened Enclosure	Yes	N/A

* To determine direction of the threat, multiple detectors are required

SAMPLE DATA REPORTS



emPRIMUS™

1660 S Hwy 100, Suite 130 • Minneapolis, MN 55413
T: 952.545.2051 • F: 952.545.2216

www.emprimus.com

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