

COMPANY OVERVIEW

Spectra Lab, LLC designs, manufactures, and sells unique RF and microwave test instruments.

We design instruments for niche applications in wireless test and measurement. Our typical customer has a specialized test need which cannot be met by standard RF instruments available from traditional RF test equipment companies. We welcome special feature requests and customizations to any instrument in our product line.

SPECTRUM DEFENDER IS OUR FLAGSHIP RF INSTRUMENTATION PLATFORM.



FACILITIES

Spectra Lab's design and manufacturing facility is in Dumfries, Virginia, adjacent to MCB Quantico. The facility is optimized for software development, inbound parts management, light mechanical manufacturing (e.g. rack assembly), RF sub-assembly integration, and RF Factory Acceptance Tests. Our RF test labs are equipped with the latest technology to ensure that each manufactured instrument meets or exceeds our high standards for quality and performance.

MARKETS SERVED

Spectra Lab instruments are found in the laboratories of defense contractors and U.S. Dept of Defense agencies across the United States. Our customer base also includes consumer electronics and semiconductor manufacturers pushing the boundaries of wireless technology.

KEY PARTNERS

Spectra Lab instrumentation products are built on a foundation of technology developed by National Instruments (NI), a key business partner. Spectra Lab is a member of the NI Alliance Partner program. Spectra Lab leverages the substantial technology resources of NI to develop turnkey, low-risk solutions for focused RF applications. Spectra Lab's focus on multi-channel RF capture & emulation combines with NI's corporate resources to provide customers with unique measurement solutions that would not otherwise exist in the market.

SPECTRA LAB has proudly served our U.S. defense industry customers since 2012.

Mr. Sean Wallace founded the company with a mission to build a new class of RF test instrumentation not available anywhere else. Mr. Wallace leveraged his 13 years of experience building custom instruments for the television industry to bring new agile manufacturing techniques and instrument architectures to the defense marketplace.



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Registrations

CAGE: 7JV04
DUNS: 061768659
NAICS: 334515,
511210, 541511
Small Business



**PRIOR PERFORMANCE
PROJECT EXAMPLES**

**Spectra Lab
RF instruments
are typically
based on our
proprietary
Spectrum
Defender®
platform.**

This platform can be quickly adapted and customized to meet the unique needs of each customer. The photos shown here illustrate just two of the many Spectrum Defender adaptations we've delivered to satisfied defense industry customers.



SPECTRUM DEFENDER® MODEL SD-CST-3819



Customer	Major Defense Prime US Naval Research Lab (NRL)
Application	R&D; 3-D Geolocation of RF signals with vehicle in motion
System Features	Four channels of phase coherent RF acquisition and recording Integration with Inertial Measurement Unit (IMU) Touchscreen Graphical User Interface
Spectra Lab Provided Components	Data sharing architecture Spectrum Defender® Software Platform and Documentation Custom User Interface Integration with 3rd party geolocation algorithms on separate compute platform

SPECTRUM DEFENDER® MODEL SD-BTO-3829



Customer	Major Defense Prime
Application	Design Validation Test Classified Satellite Program
System Features	Eight channels of phase coherent arbitrary waveform generation and indefinite IQ streaming at 100MHz/chan 4 dimensional calibration lookup table for inter-channel phase alignment at varied center freqs Integration with customer test executive through TCP/IP API
Spectra Lab Provided Components	System engineering, design, and documentation Manufacturing and assembly Acceptance test program design and execution Spectrum Defender® software platform and API