

# Survey Key - Spectrum Analyzers

## MODEL

Product name or model number

## SPECTRUM ANALYZER TYPE

- FFT = fast Fourier transform

## OPERATING FREQUENCY RANGE

Operating frequency or center frequency

## CENTER FREQUENCY AND SPAN OPTIONS

The center frequency and span of the spectrum analyzer unit

- CF = center frequency

## RESOLUTION BANDWIDTH

Bandwidth of the filter (swept or digital) used for signal processing

## DETECTOR

The technique used to determine the signal amplitude

- avg. = average
- CISPR = International Special Committee on Radio Interference
- EMI = electromagnetic interference
- RMS = root mean square
- VRMS = root mean square voltage

## MIN. EVENT DURATION

Minimum event duration for 100% probability of intercept

- IBW = instantaneous bandwidth
- POI = probability of intercept

## SFDR

Spurious Free Dynamic Range (SFDR)

## TRIGGER TYPES

Options for starting measurement of a specific signal

## APPLICATIONS

Uses of the spectrum analyzer

- DF = direction finding
- EW = electronic warfare
- Rx = receiver
- SATCOM = satellite communications
- TSCM = technical surveillance countermeasures
- Tx = transmitter

## FORM FACTOR

Suitable operating environments (lab or field) for the spectrum analyzer

## SIZE

Length, width and depth in inches or millimeters.

## WEIGHT

Unit weight in pounds or kilograms

## OTHER ABBREVIATIONS

- BW = bandwidth
- freq. = frequency
- IF = intermediate frequency

\* Indicates answer is classified, not releasable or no answer was given.

### JUNE 2016 PRODUCT SURVEY: COMMUNICATIONS JAMMERS AND IED JAMMERS

This survey will cover communications jammers and improvised explosive device (IED) jammers. Please e-mail JEDEditor@naylor.com to request a survey questionnaire.

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Advertorial

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RUAG Aviation is your global partner for military aviation providing effective and affordable self-protection technologies to customers around the world. Through reliable collaboration and visionary thinking, RUAG Aviation offers self-protection solutions focused on your mission requirements. There is no room for compromise: military aircraft and helicopter fleets must be available at all times. With a proven reputation for reliability and efficiency, RUAG Aviation delivers self-protection systems to meet EW needs for superior performance, maximized availability, and the lowest life cycle cost.

From integrated self-protection systems to innovative test equipment, RUAG Aviation provides mission confidence through a broad range of products and services. The company's comprehensive portfolio is based on the unique know-how of their specialists, state-of-the-art technology, and decades of experience supporting numerous air forces worldwide. Their solutions feature life cycle support services including fleet management, engineering support, and nose-to-tail maintenance, repair, and overhaul. Their product portfolio enhances your benefits with airborne self-protection systems, associated flight-line test equipment, laser-based UAV landing support systems, and cutting-edge software products. Their highly committed specialists bring over 70 years of experience integrating military processes to help you fulfill your needs by focusing on your unique operational requirements.

### The most reliable self-protection system solution on the market

The Integrated Self-Protection System Solution provides aircrews with essential situational awareness of their surrounding radio frequency, ultraviolet and laser environment. It alerts helicopter crews to imminent threats and deploys effective countermeasures against both ground- and air-based attacks. It supports custom user-programmed threat libraries and its high-performance EW subsystems provide multiple threat recognition. The integrated Self-Protection System Solution is available in different sensor configurations and either as a fully integrated solution or as an adapted Plug-on-Device (POD) version.

### A global first: RUAG's unique 4-in-1 sensors testing solution

To ensure maximum performance of any system, RUAG Aviation offers unique and innovative systems, such as their 4-in-1 testing solution called "missim", which enables crews to verify the optimum functionality of their self-protection system before take-off. It is the only 4-in-1 testing solution available on the market for all laser, missile, radar, and Hostile Fire Indication warning sensors. This all-in-one solution has secure erasable memory and an application range of 0-20 meters. The handheld tester is fast and easy to use, allowing testing to be conducted anytime and anywhere.

To further optimize and complete your airborne self-protection system, RUAG Aviation's portfolio also features CAST-easy, a unique, fast, cost-efficient electronic chaff and flare simulator to test the functionality of the dispenser unit. The system is maintenance-free with an unlimited shelf life making it an effective, affordable way to confidently assure protection. Furthermore, CAST-easy is airworthy on rotary as well as fixed wing aircraft, and it enables aircrews to train on their self-protection systems without the need for releasing expensive pyrotechnic chaff or flares.

In addition to proven quality and innovative industrial solutions, RUAG has an international presence and partners network to bring their solutions closer to you. They have the skills and experience to provide maximum availability and reliable solutions to meet your mission requirements. When safety and security matter, RUAG Aviation's self-protection technologies mean the difference between success and failure.

Get more info at: [www.ruag.com/self-protection](http://www.ruag.com/self-protection)



Self-Protection System Solution Plug-on-Device (POD)



4-in-1 testing solution "missim"



Integrated Self-Protection System Solution



Together ahead. **RUAG**

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