



JANUS

Joint Agile Non-Kinetic
Upgradeable System

AGILE DUAL-TONE HPM SOURCE SYSTEM TO MEET VARIED TEST NEEDS.



CREATING SOLUTIONS THAT MATTER



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AGILE DUAL-TONE HPM SOURCE SYSTEM TO MEET VARIED TEST NEEDS.

KEY FEATURES

- Agile HPM Parameters
- Single or Dual Tube to produce dual tone environments
- Dual L-Band capable
- Readily upgradeable to S-Band
- Fully self-contained (including power)
- Weather and RF resistant

SYSTEM USE CASES

As an indoor/outdoor source, JANUS provides experimentalists with an agile test capability suitable for both vulnerability and effects testing. JANUS can be tuned to provide L-band RF environments specified in MIL-STD-464 Effects Requirements. Because tubes are swappable, expansion to other bands to address more of 464 is a low-cost endeavor. Not limited to the 464 Use Case, JANUS also provides the RF agility to test the susceptibility of Blue Systems at specific single or dual-tone frequencies. It is also suitable for evaluation of RF environments for missions such as Counter UAS.

The Joint Agile Non-Kinetic Upgradeable System (JANUS) is a self-contained Test and Evaluation (T&E) source designed to support organizations performing both indoor and outdoor effects and vulnerability testing. JANUS utilizes a robust high-energy pulser to drive single or dual Coupled Cavity Oscillator (CCO) tubes to provide 50-megawatt class High Power Microwave RF output. The system is enclosed in a Shielded Environmental enclosure suitable for outdoor operations in moderately fair-weather conditions and operating off an internal generator power if needed. The distinguishing feature of JANUS is the ability to tune a number of output parameters to simulate a variety of known and future HPM threats including those delivering dual tone signatures.

KEY PERFORMANCE SPECIFICATIONS

SPECIFICATIONS	VALUE
HPM Frequency Range • Frequency Expansion Upgradeable:	L-Band; ± 10% tunability S-Band
Output Power (varies with frequency)	10 to 50 MW
Pulse Width (Settable Range)	30 to 150 ns
Pulses per Burst	3-5
Pulse Repetition Rate	2 Hz (2-3 shots)

Features:

- RF Resistant - for in-chamber testing
- Weather Resistant - for outdoor testing
- Self-Powered (shore or onboard power)

CONTACT INFORMATION

J. Mark DelGrande, Ph.D.
j.mark.delgrande@verusresearch.net

