



CREATIVE DIGITAL SYSTEMS INTEGRATION

FLEX-EW

Compact, Wideband Electronic Warfare Systems

The FLEX-EW is a flexible, compact, wideband Electronic Warfare system capable of stimulating Radar Warning Receiver (RWR) systems on aircrafts, ships and vehicles. An operator can stimulate the system-under-test while receiving its responses on the FLEX-EW which has integrated capabilities from 500 MHz to 40 GHz and includes a laser pulse generator with range-finding capabilities. The FLEX-EW locks onto targets using a powerful optical tracking system or slaves to other tracking devices. Constant illumination power is provided to the system under test by choosing to automatically adjust ERP based on target range.

Key Capabilities

- Stimulate RWR Systems via RF and Laser
- Automatic ERP Adjustment to Target Range
 - Stable & Controlled RF Illumination
- 500MHz Through 40GHz Simulated Radar
- Emulates Phased Array and Reflector Radars using a wide range of waveforms
- Compact Pedestal Mounted High Power RF Sources
- High Precision, Zero Backlash Drive
- μ Wave Transmit & Receive on Single System
 - High Tx/Rx Isolation
- Gridded TWT Option Allows Sensitive RF Collection Cycle
- ELINT Capability
- Controllable from a Single User Interface
- Optical or Slave Tracking Capabilities





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Specifications

μWave Antenna

- Frequency Band..... 6 to 18GHz as shown - Extended Bands Available
- Typical EIRP..... 90dBm @ 10GHz
- Amplifier Type..... TWTA - Grid Option Available
- Number of Emitters..... 8 Simultaneous
- PW Resolution..... 50ns
- PRI Range..... 1μs to 200ms
- Frequency Accuracy..... +/- 0.001% (for single output)
- Amplitude Range..... 55dB
- Frequency & PRI Type..... Dwell, Jitter, PAttern Agile, Random, Stable, Staggered
AZ/EL: SinX/X, Parabolic, Coscant Squared (EL)
- Beam Shape..... Circular, Conical, Electronic, Height Finder, Helical,
- Antenna Scan..... Lock, Raster, Section, Spiral, User Defined

mmWave Antenna:

- Frequency Range..... 35 to 38GHz as shown - Extended Bands Available
- Typical EIRP..... 110dBm
- Source Type..... Magnetron

Optical Tracking:

- Max Tracking Rate..... 25°/second in AZ and EL
- Type..... HD-SDI Video Output @ 1080p30, Infrared
- Zoom Lens..... D60x16.7 1000/2000mm
- Camera Enclosure..... Weatherproof