

» IRTS - II

Infrared Threat Simulators

Distribution in the UK & Ireland



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The IRTS-II is a medium to long-range electro-optical missile threat simulator for testing missile approach warning systems and training crew in the operation of these systems. It simulates the IR radiation profile of an approaching missile, based on input parameters such as: missile signature, atmospheric conditions, missile speed, missile range and more.

The IRTS-II is available as MWIR broadband or spectral selective source for testing MWIR single-band or newer generation dual-band MWS systems.

» ENHANCEMENTS TO THE BASIC SYSTEM INCLUDE:

- ▶ The ability to synchronize between several IRTS's to create a true "Missile-Field" simulation
- ▶ The ability to install and operate the IRTS-II from a moving platform (land or sea) to enable testing and training of fixed wing platforms.
- ▶ Optional integrated radiometers to measure the IR countermeasure performance of the threatened platform
- ▶ Optional motorized pedestal with video tracker
- ▶ Multiple units working in sync to increase simulation range



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» FEATURES

- ▶ Fully computer-controlled including operation from a host PC
- ▶ Simulation of fast phenomena (eject and boost)
- ▶ Customized missile profiles
- ▶ Withstands field environmental conditions
- ▶ Rugged and reliable

» SPECIFICATIONS

Specification	Value	Remarks
Beam Divergence (deg)	2.9	FWHM, high flatness of field
Wavelength range	Broadband MWIR	
On-Axis Radiant Intensity (KWatt/str/μm)	Broadband in relevant bands from MWIR will be provided per request	Crosstalk of spectral units is < 1% Full open to close
IR rise/fall time (msec)	< 15	
Stand off range (m)	500 - 5,000 500 - 5,000	
Single engagement dynamic range	> 800	For optical unit
Warm-up time (min)	< 10	For optical unit
Environmental	10 - 40°C, no direct rain or snow	
Weight (kg)	100	
Clear aperture diameter (cm)	50	

» OPTIONS

- ▶ Integrated Radiometer - 1 to 4 spectral channels in the MWIR
- ▶ Motorized pedestal with video tracker
- ▶ Dual / Single color configurations