

# » IRTS-L

## Infrared Threat Simulators – Laser based



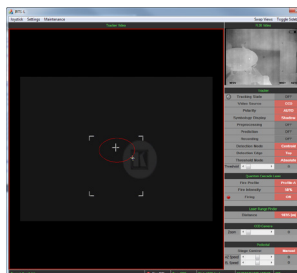
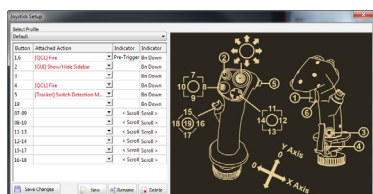
The IRTS-L is a laser based modular, fully integrated, long-range electro-optical missile approach threat simulator for testing missile approach warning systems and training air crews in the operation of these systems.

The IRTS-L simulates the IR radiation profile of an approaching missile and is available as a single or dual wavelength MWIR system.

The IRTS-L is an addition to CI's line of long-range threat simulators that include broadband MWIR, SWIR and UVC versions along with multiple short-range testers

### » HIGHLIGHTS

- ▶ Built-in optical zoom CCD and optional FLIR for target acquisition and tracking
- ▶ Integrated LRF and video tracker
- ▶ Software for building and executing parametric simulations
- ▶ Exceptional flatness of field of the radiating unit
- ▶ Easily deployable – fully integrated and ergonomic operator's station
- ▶ Configurable joystick for field operation



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### » FEATURES

- ▶ Highly modular design, each sub-unit packed in its separate purged housing with high repeatability mechanical interfaces
- ▶ Designed for field use
- ▶ Factory boresight of all optical units, test and calibration support equipment available from CI

### » LASER SPECIFICATIONS

	Va	Remarks
Laser Beam Divergence (deg)	34 H x 14 V (mrad)	Other FOV available upon request
Wavelength range	MWIR "Red" and "Blue"	Typical waveband of 100 nm
Max Radiant Intensity	1.5 KWatt/str	
Power Resolution	100Hz	
Output window diameter	25.4 (mm)	
Pulse Width	200 (nsec)	
Pulse Repetition Rate	2 (MHz) Power Modulation 5 5 (KHz) Signal Modulation	

### » ADDITIONAL SYSTEM SPECIFICATIONS

	Va	Remarks
LRF Range	Up to 8 Km	Wavelength 1550 nm
LRF Beam Divergence	0.4 x 0.7 mrad	Class 1 Eye safe
CCD FOV	5°-30°	Continuous optical zoom, auto-focus, auto-gain
Motorized Pedestal Range	Azimuth : $\pm 102^\circ$ Elevation: - 20° to + 60°	
Motorized Pedestal Velocity	Azimuth: > 30°/sec Elevation: > 10°/sec	

### » OPTIONS

- ▶ Support equipment for Boresight testing, GPS time stamping, Data backup
- ▶ Integration of customer furnished FLIR