

» IRTS-L

Infrared Threat Simulators – Laser based



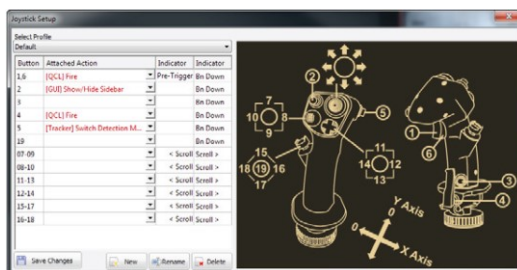
The IRTS-L is a laser based modular, fully integrated, long-range electro-optical missile approach threat simulator for testing missile approach warning systems and training air crews in the operation of these systems.

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.

» FEATURES

- ▶ Designed for field use
- ▶ Modular design. Each sub-unit packed in its separate purged housing with high repeatability mechanical interfaces
- ▶ Factory boresight (Alignment of line of sight) of all optical units, test and calibration support equipment available
- ▶ Configurable joystick and pedestal for easy alignment at field operation (see image below)
- ▶ Built-in optical zoom CCD and optional FLIR for target acquisition and tracking
- ▶ Included software for building and executing parametric simulations
- ▶ Easily deployable – fully integrated and ergonomic operator's station
- ▶ Exceptional flatness of field of the radiating unit
- ▶ Integrated LRF and video tracker
- ▶ Optional – UV band



» SPECIFICATIONS:

Lasers Specifications:

	Single Laser, IR	Dual Lasers, IR	Comments:
Laser Beam Divergence, mrad	>34 H x 14 V		Other FOV available upon request
Wavelength range (*)	MWIR "Red"	MWIR "Red" & "Blue"	Typical waveband of 100 nm
Max Radiant Intensity	1.2 KW/str	"Red" : 1.2 KW/str "Blue" : 0.8 KW/str	
Power Resolution	100 Hz		
Output window diameter	25.4 mm		
Pulse Width	200 nsec		
Pulse Repetition Rate: Power Modulation: Signal Modulation:	2 MHz 5 KHz		

Other Specifications:

	Specifications:	Comments:
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° to 30°	Continuous optical zoom, auto-focus, auto-gain
Motorized Pedestal Range	Azimuth : ±102° 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 IR Imager
- ▶ Optional, UV band

Distribution in the UK & Ireland



**Characterisation,
Measurement &
Analysis**

Lambda Photometrics Limited
 Lambda House Batford Mill
 Harpenden Herts AL5 5BZ
 United Kingdom
E: info@lambdaphoto.co.uk
W: www.lambdaphoto.co.uk
T: +44 (0)1582 764334
F: +44 (0)1582 712084