ARIEL Photonics Assembly LTD, a subsidiary of ARIEL Photonics Inc.

4 Ha'Ma'ayan St. · LIGAD Center2 Bldg. · Lobby Floor · Modi'in 71700 ·



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## CITRON Laser Threat Simulator for Aviation Safety





The CITRON is a short to long range electro-optical missile threat simulator for testing missile approach warning systems (MAWS) and for training crew in the operation of these systems.

CITRON provides fast and safe testing against various types of missiles. It simulates the MWIR radiation profile of an approaching missile, based on input parameters such as: missile signature, missile speed, missile range, atmospheric conditions and more.

CITRON includes video tracker with motorized pedestal, laser rangefinder, MWIR programmable laser simulator, computer, tripod and a portable battery. CITRON records data and video backlog of events for post analysis

The CITRON is available for MWIR, SWIR, LWIR, UV or newer generation dual-band MW MAWS systems. Integrated detectors to measure the IR countermeasure of the threatened platforms, ability to sync between several units to create a true "missile – field" simulations are optional.

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Proven in field use. One man portable Affordable cost. Cost effective Low Maintenance. Passive cooled Withstands field environmental conditions

## **APPLICATIONS**

Airborne Protection Testing Testing of detectors/MAWS Training of crew

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LASER THREAT SIMULATOR MAIN PAR	RAMETERS, MODEL : CITRON			
Wavelength range	MWIR (UV, NIR, SWIR, LWIR – optional)			
Beam divergence (deg)	1-2			
On-Axis Radiant Intensity (Watt/str) max	500 - 1,000			
IR rise/fall time (msec)	0.1			
IR programming step (msec)	1			
Single engagement dynamic range	> 800			
Standoff range (m)	5 - 6,000			
Gimbal Travel Range Azimuth / Elevation	360° (+/-180°) / 60° (+50°/-10°)			
Gimbal Travel Rate / Follow Aim Rate (°/sec)	30 / 15			
Gimbal Position Resolution, mrad	0.1			
Tracker Camera	Color 2/3 CCD HD 1920 x 1080, 60 fps			
Tracker Zoom	x30 optical, (x3 digital)			
FOV horizontal	$45^{\circ} - 1.5^{\circ} \ (15^{\circ} - 0.5^{\circ})$			
Rangefinder Repetition rate	1pps			
Rangefinder Range, m	100 - 10,000			
Rangefinder Eye safety category	Class 1M IEC 825-1 2001-08			
Clear aperture, mm	Laser transmitter < 30 x 150			
	Rangefinder < 40 x 100			
	Tracker camera < 70 x 70			
Warm-up time (min)	< 2			
Environmental	5 - 45°C			
Weight (kg)	Optical assembly -20			
	Tripod – 10			
	Control unit – 10			
Power input from Battery or AC/DC adapter	DC 24V ( 3 - 10A)			

Specifications in this document are subject to change without notice.







