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EOTS II

Stabilised panoramic electro-optical targeting system

The EOTS II is a ITAR-free, fully stabilised and ruggedised 24-hour day and night observation and targeting system for tanks and anti-aircraft applications. Targets can be immediately engaged at long range with high precision.

The modular system accommodates three powerful sensors: a 3rd generation thermal imager, a highly sensitive daylight camera and an eyesafe laser rangefinder. The mission tested reconnaissance and targeting capabilities of the EOTS II are further enhanced by the integrated automatic tracking system. Due to its modularity this small and lightweight targeting system can be easily integrated into any new or existing vehicle or anti-aircraft system.



The **new** Sensor House

HENSOLDT
Detect and Protect.

EOTS II

Applications		Key Features		
<ul style="list-style-type: none"> • Observation and targeting • Target identification and tracking • Anti-aircraft fire control 		<ul style="list-style-type: none"> • Modular sensor configuration • Compact and lightweight • Fully panoramic stabilised line of sight • Easy integration into vehicles and weapon systems • Ruggedised according MIL-STDs 		
Performance Data				
Thermal camera				
Wavelength	Long Wave (LWIR)		Mid Wave (MWIR)	
Resolution (pixel)	768 x 576 (video)	1280 x 1024 (video)	640 x 512 (SD)	1280 x 1024 (HD)
Field of view* (horizontal)	2.6° to 21.6°	1.75° to 26° (continuous)	1.3° to 13,5° (continuous)	2.6° to 27° (continuous)
Daylight camera				
Detector	Color CMOS			
Resolution (pixel)	768 x 576		1920 x 1080	
Field of view* (horizontal)	0,75° to 30°		1.5° to 30°	
Laser		Rangefinder		Designator
Transmitter	Nd:YAG; OPO shifted			
Wavelength	1570 nm		1064 nm	
Pulse rate	up to 25 Hz		8-20 Hz	
Safety class	1M acc IEC 60825-1		4 acc IEC 60825-1	
Range gate	50 to 40,000m			
Range resolution	1 m			
Range accuracy	±2m up to 5000m			
Multiple target separation	<20 m			
Electrical Data		Environmental Conditions		
Power supply	28V DC nominal (18 to 32V DC iaw. MIL-STD 1275)	Operating temperature	-32° C to +63° C	
Power consumption	400 W typical	Environmental tests	MIL-STD 810 MIL-STD 461 STANAG 2895	
Interface	CAN; RS422; Ethernet; HD/SD-SDI (more interfaces on request)			
Mechanical Data				Options
Dimensions (W x H x L)	approx. 500 x 400 x 500 mm			<ul style="list-style-type: none"> • Ballistic protection cover • Tracking • Multi-target indication • Control and display unit
Weight	≤65 kg			
Azimuth range	n x 360°			
Elevation range	-15° to +75°			
Stabilisation quality (1σ)	≤50 μrad (RMS)			
Positioning	speed: > 1 rad/s acceleration: >4 rad/s ²			

* depending on configuration and application

