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THERMAL SIGHTING SYSTEM

INFRARED TARGET ACQUISITION SIGHT (IRTAS)

SIGHT	IRTAS 640 MWIR	IRTAS 640 LWIR
Camera System Parameters		
Sensor Type	InSb reticulated	MCT
Sensor Size	640 x 512 pixels, 20 µm pitch	640 x 512 pixels, 15 µm pitch
Cold Shield	f/4	f/4
Spectral Band	3.4 to 5.1 µm	8 to 9 µm
System Control	RS-422 serial interface CAN RS-485	RS-422 serial interface CAN RS-485
Video Format	PAL or NTSC (analog) HOTLink-II (digital) Camera Link (digital)	PAL or NTSC (analog) HOTLink-II (digital) Camera Link (digital)
Lens Parameters		
f/Number	4.0	4.0
Wide FOV	14.5° x 11.0°	14.5° x 11.0°
Narrow FOV	3.0° x 2.2°	3.0° x 2.2°
Electronic Zoom	2x - NFOV 1.5° x 1.1°	2x - NFOV 1.5° x 1.1°
FOV Change Time	< 0.75 sec	< 0.75 sec
Power Requirements		
Power Source	16 to 40 VDC	16 to 40 VDC
Power at Steady State	< 50 W	< 50 W
Mechanical/Environmental		
Weight	< 38 lb	< 38 lb
Size	Sensor/telescope unit 12.2" L x 7.0" W x 18.7" H Commander's front panel 2.9" L x 7.0" W x 3.9" H	Sensor/telescope unit 12.2" L x 7.0" W x 18.7" H Commander's front panel 2.9" L x 7.0" W x 3.9" H
Operating Temperature	-40 °C to +71 °C	-40 °C to +71 °C
Typical Performance		
Cool-Down Time	5 minutes	5 minutes



The Infrared Target Acquisition Sight (IRTAS) provides armored fighting vehicles with upgraded thermal imaging capability, dramatically improving target detection, recognition and identification ranges. Designed to fit a variety of turrets, the thermal sight embodies a leap forward in warfighter technology and delivers superior performance, reliability and enhanced functionality translating into actionable information for improved lethality, vehicle survivability and crew protection.

The IRTAS high-resolution, cooled, staring infrared sensor offers industry-leading performance at an affordable cost. Mid-wave and long-wave infrared sensor options are available offering ultimate flexibility for all missions and environments, adaptable to most turret fire control systems and compatible with legacy turret-mounting interfaces.

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Reduced size and weight makes the IRTAS drop-in compatible with virtually all one- and two-man turrets. Detachable sensor telescope translates to reduced repair times in the battlefield while maintaining precise boresighting for weapon accuracy. Laser protection for both day sight and direct view is compliant with military standards.



HIGH-RESOLUTION SENSOR OFFERS INDUSTRY-LEADING IMAGE QUALITY

These compact systems reduce size, weight and power and include autofocus and two optimized fields-of-view coupled with e-zoom. Patented image-enhancement processing enables the gunner to discriminate the target from background and clutter at longer ranges. Superior ruggedization extends operational life improving availability and reducing total life-cycle costs. Flat-panel and smart display options are available.

Additional features include local area processing, electronic stabilization, threshold-based averaging, adaptive temporal noise reduction, extended dynamic range and target tracking (additional hardware required).

Infrared Target Acquisition Sight (IRTAS)

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L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



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1025 W. NASA Boulevard
Melbourne, FL 32919
t 800-852-5105 | f 513-573-6290
InfraredSales.cin@L3Harris.com