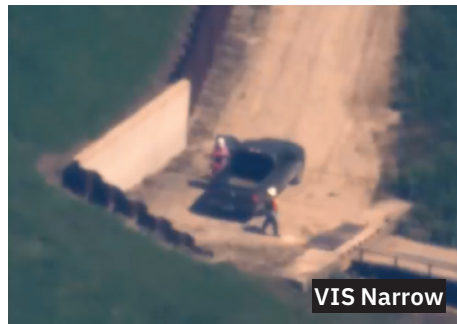# L3HARRIS™
FAST. FORWARD.

ARIES-25 SENSOR SYSTEM

The Next Generation of High-Resolution Performance

The Advanced Real-time Imaging and Exploitation System, or ARIES-25 sensor system, provides premiere surveillance capabilities. The system is designed to passively conduct long-standoff, real-time, full motion video and data collection. ARIES-25 provides precise pointing for C2ISR; customs and border patrol; land and maritime search-and-rescue; and special operation mission needs. The turret-based ARIES-25 system is adaptable to various platform configurations and its robust metadata-embedded imagery offers targeting and tracking precision. ARIES-25 is a Technology Readiness Level 9 system that offers image processing in real-time and provides high-resolution performance. ARIES-25 customers can see farther, know more and act first.
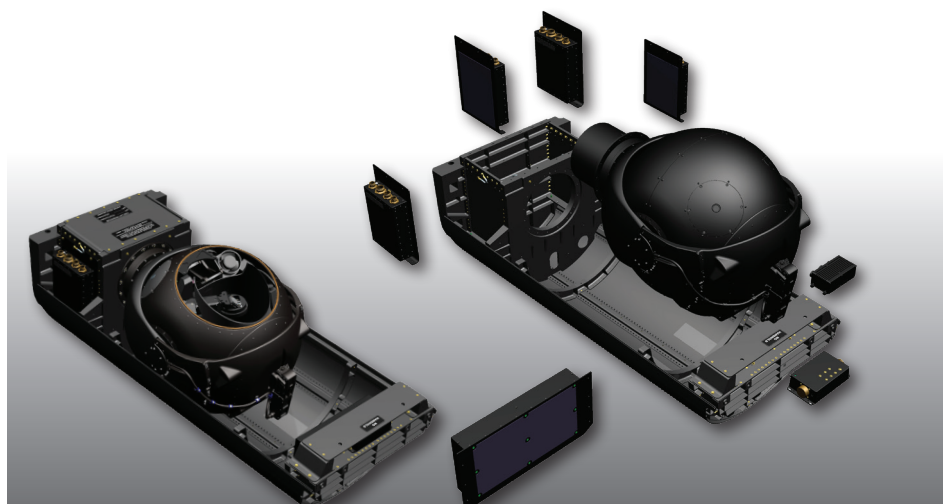

VIS Wide

VIS Narrow

NIR Wide

NIR Narrow

MWIR Wide

MWIR Narrow

ARIES-25 SENSOR SYSTEM FEATURES:

> Six simultaneous cameras

> Advanced image processing for auto-detect and tracking up to 10 targets at once with closed-loop tracking

> Dual inertial navigation systems provide sub-pixel, frame-to-frame stabilization and precision pointing

> Features static or dynamic host configuration protocol

> Network-enabled automatic configuration supports transmission control/internet protocol for command and control and video streaming, supporting multi-cast and UDP

> Optional data recording systems enable the use of either raw or streamed video for post-mission analysis

> ARIES-25 offers packaging flexibility and configurability to meet host platform interfaces

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ADVANCED FEATURES

SYSTEM SPECS

> Intel® Quad Core Xeon® E3

> Video outputs UHD Plus 1080p and Analog

> NVIDIA Quadro P3000 6GB Graphics Card

> Frame to frame jitter < 5µrad

> LOS knowledge < 400µrad residual error

> Co-aligned optics

> Simultaneous FOVs in all bands

QUALIFIED TO MIL-STD-810, MIL-STD-461

> Operating temperature: -30°C to 50°C

> Storage temperature: -40°C to 85°C

> Shock: operating 6 g

> Shock: non-operating 20 g

> Electro Static Discharge per RTCA DO-160 Section 25

MISP 6.4/6.5 COMPLIANT

> Produces meta data fields required for NITF 2.1 - SENSRB generation

COMMAND & CONTROL

> Individual camera control (zoom, integration time, and frame rate, etc.)

> Persistent staring (LLH)

> Relative LOS control (Slewing)

> Persistent multi-target detection and tracking

> Auto-tracking

> Closed-loop track

> Enhanced image processing

> 12 video streams (2 Mbps - 40 Mbps)

		HIGH-RESOLUTION			SITUATIONAL AWARENESS		
SENSOR		1	2	3	4	5	6
CAMERA		Color	NIR	MWIR	Color	NIR	MWIR
BANDPASS (µM)		.48 to .65	.7 to 1.0	3.5 to 5.1	.48 to .65	.7 to 1.0	3.5 to 5.1
PIXELS		1080p	1080p	720p	720p	720p	720p
EFL (MM)	**WIDE**	1500	1500	1340	18	18	50
	MODE	continuous	continuous	1340	continuous	continuous	discrete
	NARROW	4500	4500	1340	150	150	150
FOV (DEG)	**WIDE**	.19 x .33	.19 x .33	.66 x .82	10.4 x 18.5	10.4 x 18.5	10.4 x 18.5
	NARROW	.06 x .11	.06 x .11	.66 x .82	1.2 x 2.2	1.2 x 2.2	4.9 x 6.1
GSD (IN) 40 KFT ALT	**WIDE**	1.44	1.44	5.38	121	121	120
	NARROW	.48	.48	5.38	14	14	40

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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