L3HARRIS™
FAST. FORWARD.

2511X™ HIGH-ALTITUDE, LONG STANDOFF, ELECTRO OPTICAL INFRARED (EO/IR) IMAGING SYSTEM WITH ENHANCED GEOPOINTING

PAYLOAD SPECIFICATIONS

Sensor 1 : HD MWIR Infrared Imager	
Lens Type	SAS-11™
Primary Aperture	11” (275 mm)
Sensor	HD MWIR camera
Wavelengths	3.5 µm-to-5.0 µm
Field of View (h)[1]	0.82 °
Sensor 2 : HD Visible Continuous Zoom Imager	
Lens Type	SAS-11™
Primary Aperture	11” (275 mm)
Sensor	HD visible camera
Wavelengths	450 nm-to-650 nm
Field of View (h)[1]	0.10 °-to-0.33 °
Sensor 3 : HD NIR Continuous Zoom Imager	
Lens Type	SAS-11™
Primary Aperture	11” (275 mm)
Sensor	HD NIR camera
Wavelengths	720 nm-to-900 nm
Field of View (h)[1]	0.10 °-to-0.33 °
Sensor 4 : WFOV HD Visible Continuous Zoom Imager	
Lens Type	22:1 continuous zoom
Primary Aperture	2.5” (63.5 mm)
Sensor	HD visible camera
Wavelengths	450 nm-to-650 nm
Field of View (h)[1]	2.3 °-to-13.0 °
Sensor 5: WFOV HD NIR Continuous Zoom Imager	
Lens Type	22:1 continuous zoom
Primary Aperture	2.5” (63.5 mm)
Sensor	HD NIR camera
Wavelengths	720 nm-to-900 nm
Field of View (h)[1]	2.3 °-to-13.0 °
Sensor 6: WFOV HD MWIR Infrared Imager	
Lens Type	SAS-3W™
Primary Aperture	2.5” (63.5 mm)
Sensor	HD MWIR camera
Field of View (h)[1]	WFOV 13.0 °, MFOV 4.8 °

[1]Less optional electronic zoom

L3Harris’ high-performance EO/IR stabilized imaging systems are optimized for high-altitude, long-range surveillance and reconnaissance on airborne platforms. The 2511X™ combines world-class X-MAST™ stabilization, long focal length and multi-spectral SAS-11™ lens. The 2511X ensures mission success through increased standoff, excellent image clarity and peerless geopointing.

APPLICATIONS:

- High-value target detection and tracking
- Covert observation — can be used in fully enclosed bays
- Tactical situational awareness
- Littoral and maritime surveillance
- Surveillance and reconnaissance
- Full-motion video
- Counter-improvised explosive device/homemade explosive detection with optional optical change detection capability

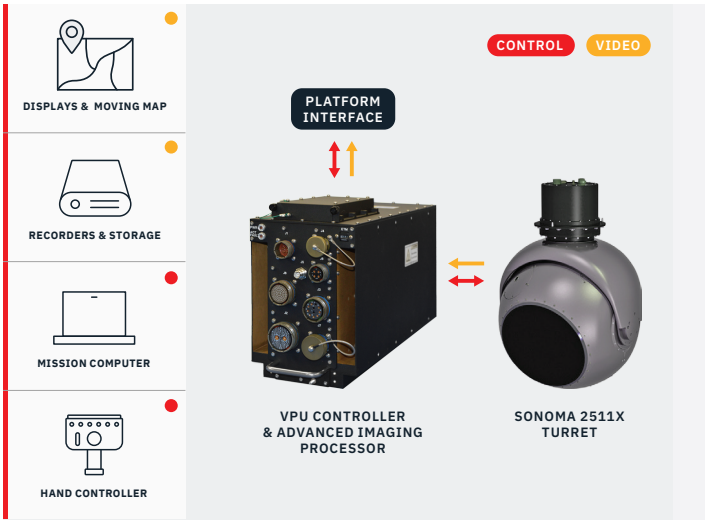
L3Harris.com

KEY FEATURES:

- High-definition, multi-spectral imaging with advanced 11-inch multi-spectral telescope (Mid-Wave (MWIR)/Near-IR (NIR)/visible)
- Matched wide-field-of-view, high-definition SAS-3W™ multi-spectral telescope provides context in MWIR, NIR and visible bands
- Patented X-MAST™ precision stabilization provides five-axis stabilization to the entire optical bench
- Integrated shock isolation reduces impact to sensors and systems
- Navigation-grade Inertial Measurement Unit (IMU) technology - IMU Inside™ - with integrated inertial navigation system and global positioning system receiver for precision geolocation and geopointing and three times improved geopointing/geoestimating over previous systems
- Integrates with L3Harris' VPX-based next-generation Video Processing Unit (VPU)
- Industry-compatible operator interface reduces learning curve
- Road-following mode to support mosaic generation whether along a curving road or hot spot monitoring
- Shared-aperture sensors grouped along turret centerline to optimize field of regard

BENEFITS:

- Long focal length, multi-spectral telescope features built on X-MAST to deliver crisp images in all bands at superior standoff ranges
- Boresighted context cameras provide simultaneous coverage of the field of view
- Six channels of video guarantee situational awareness and high resolution — no detail is lost
- Less than two µradians line-of-sight jitter delivers incredible image clarity
- Increased reliability as shock loads are reduced to the optical bench
- World-class precision geopointing and geoestimating, enabling geofocus and advanced step and area scan patterns, now three times better than fielded systems
- Simultaneous coverage of Visible, Near-IR and Mid-Wave IR channels ensure mission performance under a variety of atmospheric conditions
- Turreted package provides hemispherical coverage, eliminates bow-tie blind spots
- Shared-aperture sensors are mounted low in the turret minimizing penetration into the airstream for reduced drag and covert operations



STANDARD INTERFACES (WITH VPU)
Three simultaneous HD video channels via HD-SDI
Four simultaneous HD compressed video channels via H.264/H.265 via Ethernet
Video Metadata per MISB RP 1107
Command and Control per OMS/UCI, STANAG 4586, Sonoma Protocol and/or MX RCS

SYSTEM SPECIFICATIONS	
Turret	> ≤ 275 lb (all sensors), < 25.0" (D) x 36.3" (H) > 28 VDC per MIL-STD-704F, 400 W (typical)
Video Processor Unit	> 35 lb, 6.4" (W) x 9.0" H x 16.0" (D) > 250 W (typical), 350 W (max)
Hand Controller	> 2.2 lb, 4.25" (W) x 8.97" (L) x 3" (D) > 3.5 W (typical), 5 W (max)
Cables	> Consult factory for available variants
Environmental	> MIL-STD-461, MIL-STD-810, RTCA/DO-160
TURRET SPECIFICATIONS	
INS/Geo Capabilities	> Geopointing, geolocation, GPS and integrated navigation-grade IMU > LOS pitch altitude accuracy: consult factory > LOS heading altitude accuracy: consult factory
Stabilization	> Typically < 2 µradians RMS
Stabilization and Steering	> (3) axis inner (pitch/yaw/roll) > (2) axis outer (azimuth/elevation)
Vibration and Movement	> Vibration isolation: (6) axis passive (x/y/z/pitch/roll/yaw) > AZ/EL slew rate: 0-to-60 degrees/second > LOS pan range: ±97 ° > LOS tilt range: -76 ° to +42 °

2511X™ High-Altitude, Long Standoff, Electro Optical Infrared (EO/IR) Imaging System With Enhanced Geopointing

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.

L3HARRIS™
FAST. FORWARD.

1025 W. NASA Boulevard
Melbourne, FL 32919
t 707 568 3000| f 707 568 3300
Sales.Sonomaeo@L3Harris.com