

2111X™ HIGH-ALTITUDE, LONG-STANDOFF, ELECTRO OPTICAL INFRARED (EO/IR) IMAGING SYSTEM

Sensor 1 : HD MWIR Infrared Im	nager
Lens Type	SAS-11™
Primary Aperture	11" (275 mm)
Sensor	HD MWIR camera
Wavelengths	3.5 μm-to-5.0 μm
Fields of View (h) ¹	WFOV 17.9 ° MFOV 5.0 ° NFOV 0.8 °
Sensor 2A ² : HD Visible Continue	ous Zoom Imager
Lens Type	SAS-11™
Primary Aperture	11" (275 mm)
Sensor	HD visible camera
Field of View (h) ¹	0.12 °-to-0.32 °
Sensor 2B2: HD SWIR Continuo	us Zoom Imager
Lens Type	SAS-11™
Primary Aperture	11" (275 mm)
Sensor	HD SWIR camera
Wavelengths	1.0 μm-to-1.7 μm
Field of View (h) ¹	0.26 °-to-0.66 °
Sensor 3: HD Visible WFOV Imag	ger
Lens Type	12:1 continuous zoom
NFOV Aperture	2.75" (70 mm)
Sensor	HD visible camera
Field of View ¹	1.4 °-to-17.0 °
Sensor 4: Eye-Safe Laser Range	Finder
Range Finder Type	Erbium glass
Range Accuracy	< ± 5 m (1 sigma)
Max Range	20 km
Sensor 5: Laser Illuminator	
Wavelength and Power	860 nm, 800 mW
Divergence	0.7 mrad-by-1.3 mrad
¹ Less optional electronic zoom ² You may select either sensor 2A or 2B, but no	t both

Three simultaneous HD video channels via HD-SDI

Video Metadata per MISB RP 1107

Four simultaneous HD compressed video channels via H.264/H.265 via Ethernet

Command and Control per OMS/UCI, STANAG 4586, Sonoma Protocol and/or MX RCS



L3Harris' high-performance
EO/IR stabilized imaging systems
are optimized for high-altitude,
long-range surveillance and
reconnaissance on airborne platforms.
The 2111X™ combines world-class
X-MAST™ stabilization, long focal
length and multi-spectral SAS-11™
lens. The 2111X 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

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FEATURES:

- > High-definition, multi-spectral imaging with advanced 11-inch multi-spectral telescope (Mid-Wave IR (MWIR)/Short-Wave IR (SWIR) or MWIR/visible)
- > Patented X-MAST[™] precision stabilization provides five-axis stabilization to the entire optical bench
- > Integrated shock isolation reduces impact to sensors and systems
- > Inertial Measurement Unit (IMU) technology IMU Inside[™]— with integrated inertial navigation system and global positioning system receiver for precision geolocation and geopointing
- > Integrates with L3Harris' VPX-based next-generation video processing unit
- > Industry-compatible operator interface reduces learning curve
- > Road-following mode to support mosaic generation whether along a curving road or hot spot monitoring

DISPLAYS & MOVING MAP PLATFORM INTERFACE PLATFORM INTERFACE PLATFORM INTERFACE PUCONTROLLER & ADVANCED IMAGING PROCESSOR FROCESSOR SONOMA 2511X TURRET

BENEFITS:

- > Long focal length, multi-spectral telescope features are built on X-MAST to deliver crisp images in all bands at superior standoff ranges
- > Less than two µradians jitter under a variety of conditions
- > Increased reliability as shock loads are reduced to the optical hench
- > World-class precision geopointing and geoestimating, enabling geofocus and advanced step and area scan patterns
- Simultaneous coverage of visible, SWIR and MWIR channels ensure mission performance under a variety of atmospheric conditions
- > 360° 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

SYSTEM SPECIFICATIONS	
Turret	> ≤ 210 lb (all sensors), < 20.8" (D) x 29.98" (H) > 28 VDC per MIL-STD-704F, 310 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), 5.0 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, integrated IMU and GPS
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: continuous 360 ° LOS tilt range: -85 ° to +30 °

$\textbf{2111} \textbf{X}^{\text{TM}} \, \textbf{High Altitude, Long Standoff, Electro Optical Infrared (EO/IR) Imaging System}$

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