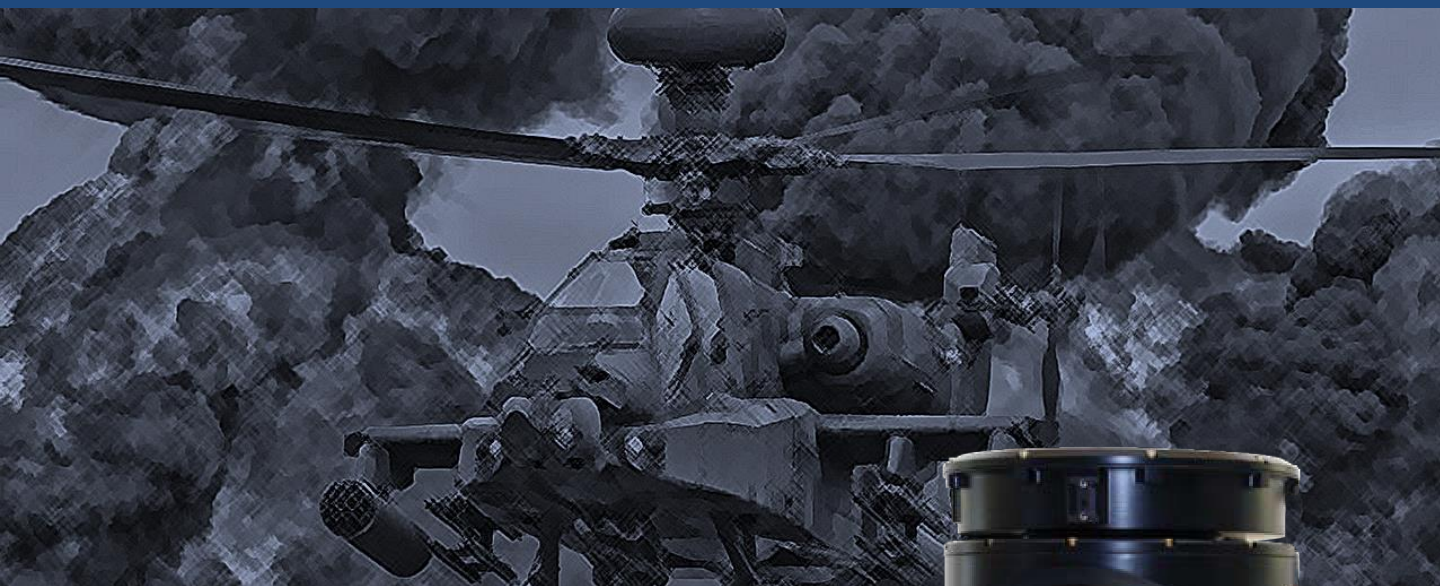


DEFENSE & SECURITY





WESCAM MX™-10 FULLY DIGITAL HIGH DEFINITION

The WESCAM MX-10 is an advanced, industry-leading stabilized multi-sensor, multi-spectral imaging system that is renowned for high performance, operator ease-of-use, and reliability. It's ideal for a wide range of missions, including low altitude covert intelligence, surveillance, and reconnaissance, armed reconnaissance, search and rescue.

The system provides imagers for optimal performance in a wide range of conditions; bright sunlight, overcast/dusk, smoke, and complete darkness.

That is supported by a suite of advanced image processing algorithms for noise reduction, sharpening, and local area contrast enhancement that aid feature recognition.

Superior stabilization is the key to achieving the maximum target detection, recognition, and identification range performance from the imagers.

The WESCAM MX-10 achieves this with a hybrid active and passive jitter suppression system.

This proven architecture stabilizes all devices on the optical bench equally. In addition, stable and accurate target geolocation ensures that the crosshairs stay on a stationary target, regardless of changes to aircraft position, attitude, and heading. This significantly reduces the operator burden in keeping eyes on target.

Advanced processing features such as object tracking, image blending, and moving target indication further serve to automate the search and tracking process, allowing the operator to focus on the target versus the equipment.

To ensure that the WESCAM MX-10 is fit for the mission, it is fully qualified to MIL-STD-810 for environmental withstanding, MILSTD-461 for electromagnetic compatibility, and MIL-STD-704 for power quality.



L3HARRIS™
FAST. FORWARD.



WESCAM MX™ - 10 FULLY DIGITAL / HIGH DEFINITION

A Small, Multi-Sensor, Multi-Spectral Imaging System
in a Single Line Replaceable Unit (LRU)

The WESCAM MX-10 is ideal for low-altitude, tactical
surveillance & search and rescue (SAR) missions
requiring low-weight installation flexibility

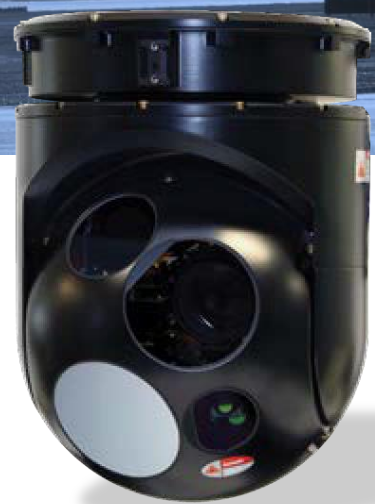
FEATURES AND BENEFITS

- Multi-sensor Imaging/Lasing Payload Options
- High-Performance Gimbal
- Advanced Image Processing
- Interface Flexibility
- Ruggedness
- Simplified Aircraft Integration

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L3HARRIS™
FAST. FORWARD.



VIDEO INTERFACES

Built-in video switch matrix

3 independent HD-SDI output channels available

4 analog video (NTSC or PAL) output channels available

DATA INTERFACES

Interface Types: RS-232/422, Ethernet, MIL-STD-1553B, ARINC 429

Functional Interfaces: Aircraft GPS/INS, Remote Control, Moving Map, Microwave / Data Link, Searchlight, Radar, Metadata / Status

HMI Options: Moving Map, Mission Console

Compatible with WESCAM Microwave Communications Equipment.





L3HARRIS™
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INTERFACE FLEXIBILITY

- > Built-in video switch matrix provides multiple HD-SDI and analog video outputs
- > 720p or 1080p HDvideo
- > Wide range of data ports: RS-232/422, Ethernet, MIL-STD-1553B, ARINC429
- > All standard WESCAM MX-Series command and control, moving map, searchlight, and radar interfaces

RUGGEDNESS

- > Rugged aerospace grade aluminum structure
- > MilSpec environmental, EMC, and power quality qualification
- > Built-in vibration isolator protects internal payload components
- > Rigorous environmental stress screening (ESS)
- > Designed to minimize maintenance requirements and simplify repair

SIMPLIFIED AIRCRAFT INTEGRATION

- > 38 lbs turret
- > Electronics unit inside the turret
- > Built-in vibration isolation
- > Built-in GPS receiver
- > <14" turret height for better ground clearance
- > Compatible with standard quick disconnect mounts
- > Side mounted connectors for recessed installations
- > No calibration required for LRUswapout



L3HARRIS™
FAST. FORWARD.

MULTI-SENSOR IMAGING/LASING PAYLOAD OPTIONS

- > Supports six payload items simultaneously
- > HD thermal, HD daylight and low-light cameras provide 24/7 imaging
- > Continuous zoom IR and EO
- > High-magnification spotter
- > High-sensitivity color low-light imaging
- > Eye-safe laser rangefinder
- > Laser illuminator¹ in choice of narrow or wide divergence

HIGH-PERFORMANCE GIMBAL

- > 4-axis stabilized turret with internal passive isolator for excellent stabilization performance
- > Sharp optics and superior stabilization performance results in industry leading target detection, recognition and identification range performance in the 10" class
- > Inertial Measurement Unit (IMU) mounted to optical bench for high target location accuracy
- > Inertial Navigation System (INS) auto-align to aircraft



L3HARRIS™
FAST. FORWARD.

ADVANCED IMAGE PROCESSING

- > Real-time image enhancement on all sensors
 - High-performance haze penetration
 - Improved feature recognition and ID
 - 2x, 4xEzoom
 - Advanced video tracker
 - Imaging blending
 - Embedded Moving Target Indication
 - Pseudo-color IR

WESCAM ADVANCED VIDEO ENGINE (WAVE)

- > A high-performing embedded computing engine engineered to support advanced image-processing capabilities
- > WAVE architecture includes a state-of-the-art graphics processing unit (GPU) - enabling future advancements in image processing & surveillance automation

WESCAM MX™ - 10

FULLY DIGITAL / HIGH DEFINITION



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PAYLOAD SPECIFICATIONS

Sensor Options for Thermal Imager (Select #1a or #1b)

Sensor #1a - Thermal Imager:

Type: 3-5µm staring array
Resolution: 640 x 512 Pixels
Fields-of-View: 30.0° to 1.8°, Continuous Zoom

Sensor #1b - HD Thermal Imager:

Type: 3-5µm staring array
Resolution: 1280 x 720 Pixels
Fields-of-View: 30.2° to 2.8°, Continuous Zoom

Sensor #2 - HD Daylight Continuous Zoom:

Type: CMOS
Resolution: 1920 x 1080 Pixels
Fields-of-View: 31.2° to 1.2°

Sensor #3 - Low-Light Continuous Zoom:

Fields-of-View: 40.8° to 2.4°

Sensor #4 - HD Daylight Spotter:

Type: CMOS
Resolution: 1920 x 1080 Pixels
Fields-of-View: 0.61°

Sensor #5 - Laser Rangefinder (LRF):

Wavelength: 1.54µm
Range: 20km max.

Sensor #6 - Laser Illuminator¹:

Mode: Continuous, Pulsed
Wavelength: 852nm
Beam Divergence: Wide or Narrow

Additional WESCAM MX-10 Features:

IMU: Mounted on optical bench
AutoTracker: Embedded (option)
GPS Receiver: Embedded (option)
Moving Target Indicator: Embedded (option)
Notes: 2x, 4x Ezoom is available to increase magnification 720p FOVs. Consult factory for 1080p and analog FOVs All FOVs are horizontal

TURRET SPECIFICATIONS

Stabilization and Steering	(4) Axis + (6) DoF Isolator Azimuth Range: Continuous 360° Elevation Range: +90° to -120°
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SYSTEM SPECIFICATIONS

WESCAM MX-10 Turret	<38 lbs / 17.3 Kg (all sensors), 10.24"(D) x 13.98"(H), 260mm (D) x 355mm (H)
Power	MIL-STD-704E, 28 VDC, 10 Amps max., 4 Amp steady state

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