



L3HARRIS™
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WESCAM MX™-15. FULLY DIGITAL. HIGH DEFINITION.

PAYLOAD SPECIFICATIONS

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

Sensor #1a - Thermal Imager:

Type: MWIR, cooled
Resolution: 640 x 512 Pixels
Fields-of-View: 26.7° to 0.54°

Sensor #1b - HD Thermal Imager:

Type: MWIR, cooled
Resolution: 1280 x 1024 Pixels
Fields-of-View: 35.5° to 1.2°

Sensor #2 - HD Daylight Zoom:

Type: Color
Resolution: 1920 x 1080 Pixels
Fields-of-View: 31.2° to 1.2° - 720p, 31.2° to 1.8° - 1080p

Sensor Options for Low-Light Continuous Zoom and SWIR Continuous Zoom (Select #3a or #3b)

Sensor #3a - Low-Light Continuous Zoom:

Fields-of-View: 40.8° to 2.4°

Sensor #3b - SWIR Imager Continuous Zoom:

Fields-of-View: 40.8° to 2.4°

Sensor #4 - HD Daylight Spotter:

Type: Color
Resolution: 1920 x 1080 Pixels
Fields-of-View: 0.72° to 0.29° - 720p, 1.1° to 0.43° - 1080p

Sensor Options for MX-Day/Night Spotter (Select #5a or #5b)

Sensor #5a - HD Low-Light Spotter: (Used with Sensor #4)

Resolution: 1920 x 1080 Pixels
Fields-of-View: 0.72° to 0.29° - 720p, 1.1° to 0.43° - 1080p

Sensor #5b - HD SWIR Spotter: (Used with Sensor #4)

Sensor #6 - Laser Illuminator (LI)¹:

Wavelength: 860nm (near IR)
Beam Power: 700mW
Beam Divergence: Wide, Narrow or Ultra Narrow

Sensor #7 - Secondary Laser Illuminator (LI)¹:

Wavelength: 860nm (near IR)
Beam Power: 150mW
Beam Divergence: Narrow

Sensor #8 - Laser Rangefinder²

Wavelength: 1.54µm
Range: 20km

Additional WESCAM MX-15 Features and Embedded Options:

- > Optical Bench IMU
- > AutoTracker
- > GPS Receiver
- > Moving Target Indicator
- > LDDT (SWIR tracking of multiple 3rd party designator spots)

Notes: All FOVs are for digital outputs: Consult factory for FOVs for analog outputs up to 4x Ezoom available.

TURRET SPECIFICATIONS

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

SYSTEM SPECIFICATIONS

WESCAM MX-15 Turret <95 lbs / 43.2 Kg (all sensors), 15.5"(D) x 18.95"(H), 393.7mm (D) x 481.33mm (H)
Power MIL-STD-704F, 280W (Avg.)



FEATURES AND BENEFITS

- > Multi-Sensor Imaging/Lasing Payload Options
- > Short-Wave Infrared (SWIR) Imaging
- > High-Performance Gimbal
- > Advanced Image Processing
- > Interface Flexibility
- > Ruggedness
- > Simplified Aircraft Integration

The WESCAM MX-15 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 medium 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,

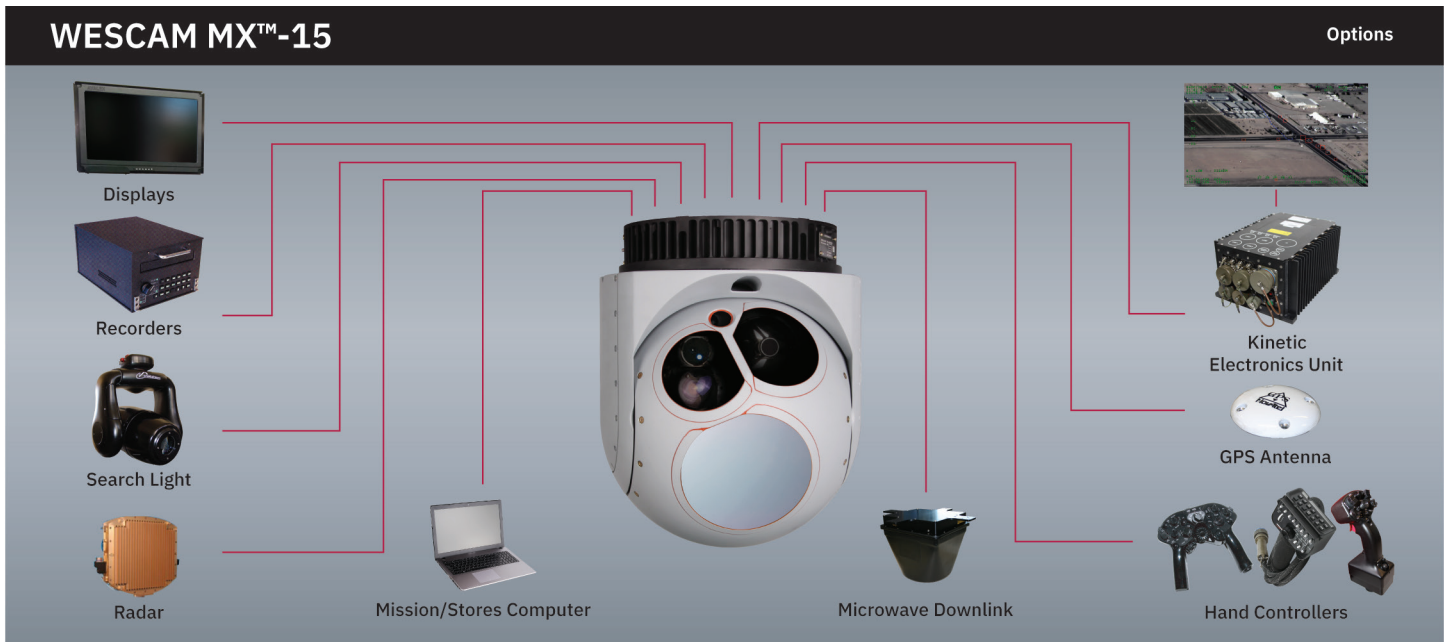
sharpening, and local area contrast enhancement that aid feature recognition.

Superior stabilization is the key to achieving the maximum target detection, recognition, and identification range performance from the imagers. The WESCAM MX-15 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-15 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.



VIDEO INTERFACES
Built-in video switch matrix
6 independent HD-SDI output channels available
5 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.

WESCAM MX-15

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²Consult factory for specific environmental and target conditions



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