PAYLOAD SPECIFICATIONS

Sensor #1 - Thermal Imager:
Type: 3-5μm staring array, cooled
Resolution: 640 x 512 Pixels
Fields-of-View: 2.75° to 28.4°

Sensor #2 - HD Color Low-Light Continuous Zoom:
Type: CMOS
Resolution: 1280 x 720
Fields-of-View: 1.53° to 43.6°

Sensor #3 - Laser Rangefinder (LRF):
Type: Class 1 (Eye-safe)
Diode-Pumped

Sensor #4 - Laser Illuminator:
Type: Class 3b
Wavelength: 852nm
Power: 150mW

Additional WESCAM MX-8 Features:
AutoTracker: Embedded
Image Blending: Embedded
GPS Receiver: Embedded
Notes: 2x, 4x Ezoom is available
720p FOVs. Consult factory for 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°

SYSTEM SPECIFICATIONS

WESCAM MX-8 Turret
Weight: <15 lbs / 6.8 Kg (all sensors), 8.3”(D) x 10.3”(H), 211mm (D) x 262.5mm (H)
Power: 16 – 32 VDC, 65 W avg, 180 W max

FEATURES AND BENEFITS

> Weight-Optimized System
> Installation Flexibility
> Interface Flexibility
> Ruggedness
> Uncompromised Design
> Multi-sensor Imaging/Lasing Payload Options
> High-Performance IMU & MX-GEO Software Suite
> Digital Sensors/Advanced Image Processing

L3Harris.com
The WESCAM MX-8 is an advanced, industry-leading stabilized multi-sensor, multi-spectral imaging system that features 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. 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-8 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 and image blending, 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-8 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
- 3 independent HD-SDI output channels available
- 3 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.