MX SERIES
ROCK SOLID
FLIGHT PROVEN

MX™-15

L3 WESCAM

WESCAM's MX-15. Fully Digital. High Definition.

A Multi-Sensor, Multi-Spectral Imaging System
in a single LRU configuration.

Ideal for: Medium-Altitude; Covert ISR, SAR missions, Homeland Security

Airborne Installations: Aerostat, Fixed-Wing, Rotary-Wing, UAV

FEATURES & BENEFITS: MX-15

True HD Cameras
- Superior imaging resolution from EO and IR cameras
- 2 mega-pixel EO zoom and spotter cameras
- True HD Digital Imaging
  - No image degradation due to compression

Image Blending
- Multi-spectral imaging blends matched images from multiple sensors - uncovering greater detail in each frame
- Reduces operator burden and improves surveillance efficiency

Enhanced Local Area Processing: (ELAP):
- Real-time image enhancement for EO Day, EO Night & IR enhances contrast
- Increases stand-off range
- Improves feature detection & recognition
- High performance haze penetration
- Provides up to 4x electronic zoom

Solid-State IMU-Inside Technology
- All sensors share highest level of stabilization
- No calibration required for LRU swapout
- Auto align to aircraft

Multi-Format
- Meets the needs of new & legacy platforms through multiple Digital & Analog output formats
- Simultaneous digital & analog outputs

Integrated Electronics
- Installed weight reduced by up to 50lbs/22kg
- Eliminates 1 LRU
- Reduced install and support costs

Lowlight and Short Wave IR Imaging
- 24/7 EO imaging
- Lowlight wide and EMCCD spotter options
- Long range subject ID (ship names, vehicles, faces) in low-light conditions
- Superior resolution to I^2 technology
- High resolution short wave IR option provides outstanding range performance

Multiple Laser Payloads
- Long Range Target Illumination, Laser Pointing and Range-Finding

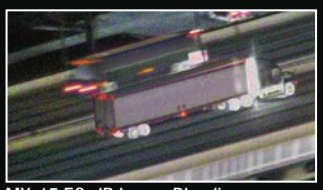
MX-GEO Software Suite
- Achieves highest target location accuracy
- AVGT marries Video and GEO-Tracking to provide robust target tracking

MX-Series Commonality
- Common operator interfaces and hand controllers (HCL's)
  - ease & familiarity of use
  - simplified interchangeability
  - efficiencies in support & technology enhancements

See our products in action on YouTube
Search:
- MX-15 Product Video
- MX-Series Product Video

Product Enhancements:
- **Color low-light zoom**
- **Step-zoom spotter**
- **Short wave IR**

MX-15 1080p EON



MX-15 EO+IR Image Blending

WESCAM's EO/IR/Laser Systems

wescam.com

Previous Description, MX-15HDi

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PAYLOAD SPECIFICATIONS - SELECT UP TO 6 IMAGING & LASER SENSORS

Sensor Options for Thermal Imager

Sensor #1a - **Thermal Imager:**
Type: InSb, cooled mid-wave staring array
Fields of View: 26.7° to 0.36°

or

Sensor #1b - **High Definition Thermal Imager:**
Type: InSb, cooled mid-wave staring array
Fields of View: 35.5° to 1.2°

Sensor #2 - **Color Low-Light Continuous Zoom:**
Type: 2 Megapixel color low-light HD
Fields of View: 2.9° to 40.0° - 1080p
1.9° to 37.6° - 720p

Sensor #3 - **Daylight Step-Zoom Spotter:**
Camera Type: 2 Megapixel Color HD
Fields of View: 0.92° to 0.37° 1080p
0.61° to 0.24° 720p

Sensor Options for MX-Day/Night Spotter

Sensor #4a - **Low-Light Spotter:**
(Used with Sensor #3)
Camera Type: Electron multiplied CCD

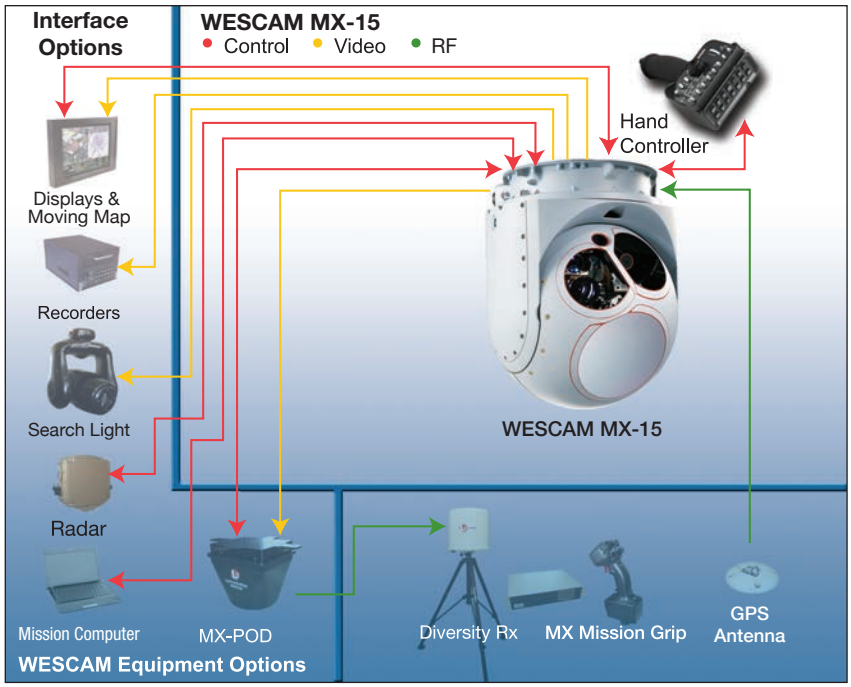
or

Sensor #4b - **SWIR Spotter:**
(Used with Sensor #3)
Camera Type: InGaAs

Sensor #5 - **Laser Rangefinder (LRF)[1]:**
Laser Type: Eyesafe
Wavelength: 1.54µm
Pulse Rate: 12 pulses/min.
Range: 20km
Range Resolution: ±5m

Sensor #6 - **Laser Illuminator (LI)[2]:**
Laser Type: Diode - (ANSI Class 4)
Wavelength: 860nm
Modes: Continuous, Pulsed
Beam Power: 350mW or 700mW
Beam Divergence: Wide, Narrow, Ultra Narrow

Notes:
- All FOV's are for Digital outputs: Consult factory for FOV's for Analog Outputs.
- Up to 4x Ezoom available.



SYSTEM SPECIFICATIONS

MX-15 Turret
≤100 lbs (all sensors) 15.5"(D) x 18.95"(H)

Power
MIL-STD-704E,
MX-15HDi - 280W (Avg), 900W (Max)

Hand Controller Unit (HCU)
2.2 lbs, 4.25"(W) x 8.97"(L) x 3"(D)
3.5W (Avg.); 5W (Max.)

Cables
Consult factory for available variants

Environmental
MIL-STD-461, MIL-STD-810, RTCA/DO-160

TURRET SPECIFICATIONS

Line-of-sight Stabilization
Typically <5 µradians
Consult factory for performance under specific vibration conditions.

Stabilization and Steering
(2) Axis Inner (pitch/yaw)
(2) Axis Outer (azimuth/elevation)

Vibration Isolation
(6) degree-of-freedom passive isolation

AZ/EL Slew Rate: 0-60°/sec

LOS Pan Range: Continuous 360°

LOS Tilt Range: +90° to -120°

STANDARD INTERFACES

5 independent analog and digital output video channels.
Digital channel options are 1080p, 1080i, 720p, 525i, 625i
Hand Controller Interface

OPTIONS AVAILABLE

MCU Interfaces:

Moving Map Interface	GPS Data Interface
RS-422 Serial Remote Control	INS Data Interface
Radar Interface	Searchlight Interface
MIL STD 1553B Interface	Microwave Interface
GPS Time Sync Interface	Metadata

Performance Enhancement:

Operator Control Unit & Joystick	GEO-Pointing
Autotracker (AVT) Embedded	GPS Embedded
Moving Map system	

Controller:
MX Mission Grip

Microwave Equipment:
MX-POD, Digital Transmitter
Diversity Rx

ISO 9001 AS 9100 BUREAU VERITAS Certification

[1] Consult factory for specific environmental and target conditions

[2] DANGER

WESCAM has a policy of continuous product improvement. Specifications are therefore subject to change without notice.

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Equipment described herein may require Canadian and/or U.S. Government authorization for export purposes. Diversion contrary to Canadian and/or U.S. law is prohibited.

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