WESCAM’s MX-10. Fully Digital. High Definition.
A Small, Multi-Sensor, Multi-Spectral Imaging System in a single LRU configuration.

Features & Benefits: MX-10

Multi-Sensor Imaging/Lasing Payload Options
- Supports up to 6 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
- Eyesafe laser rangefinder
- Laser illuminator in choice of narrow or wide divergence

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

High Performance Gimbal
- 4-axis stabilized turret with internal passive isolator for excellent stabilization performance
- Sharp optics and excellent stabilization performance results in industry leading target detection, recognition and identification range performance in the 10" class
- IMU mounted to optical bench for high target location accuracy
- INS auto-align to aircraft

Ruggedness
- Rugged aerospace grade aluminum structure
- MIL spec 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

Advanced Image Processing
- Real-time image enhancement on all sensors
  - High performance haze penetration
  - Improved feature recognition and ID
  - 2x, 4x Ezoom
  - Advanced video tracker with automatic target detection
  - Imaging blending

Simplified Aircraft Integration
- 38 lb 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 LRU swapout

See our products in action on YouTube
Search:
- MX-10 Product Video
- Homeland Security

wescam.com
### PAYLOAD SPECIFICATIONS - SELECT UP TO 6 IMAGING & LASER SENSORS

**Sensor #1a - Thermal Imager:**
- **Type:** 3-5µm staring array
- **Resolution:** 640 x 512
- **Fields of View:** 30.0° to 1.8°, Continuous Zoom

**Sensor #1b - HD Thermal Imager:**
- **Type:** 3-5µm staring array
- **Resolution:** 1280 x 720
- **Fields of View:** 30.2° to 2.9°, Continuous Zoom

**Sensor #2 - Daylight Continuous Zoom:**
- **Type:** CMOS
- **Resolution:** 1920 x 1080
- **Fields of View:** 31.2° to 1.2°

**Sensor #3 - Low Light Continuous Zoom:**
- **Type:** Electron-multiplied CCD (Mono)
- **Resolution:** 640 x 480
- **Fields of View:** 40.8° to 2.38°

**Sensor #4 - Daylight Spotter:**
- **Type:** CMOS
- **Resolution:** 1920 x 1080
- **Fields of View:** 0.61°

**Sensor #5 - Laser Rangefinder (LRF):**
- **Laser Type:** Diode Pumped (Class 1), Eyesafe
- **Wavelength:** 1.54µm
- **Range:** 20km max.

**Sensor #6a - Laser Illuminator*, Narrow:**
- **Laser Type:** Diode - (Class 3B)
- **Modes:** Continuous, Pulsed
- **Wavelength:** 852nm

**Sensor #6b - Laser Illuminator* Wide:**
- **Laser Type:** Diode - (Class 3B)
- **Modes:** Continuous, Pulsed
- **Wavelength:** 852nm

### Additional 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

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**SYSTEM SPECIFICATIONS**

**MX-10 Turret**
- <38 lbs / 16.8 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

**Hand Controller Unit (HCU)**
- 2.2 lbs / 1.0 Kg
- 4.25” (W) x 8.97” (L) x 3.00” (D)
- 108mm (W) x 228mm (L) x 76mm (D)
- Powered by turret, 5 W max.

**Cables**
- Consult factory for available variants

**Environmental**
- MIL-STD-461F, MIL-STD-810FG

**TURRET SPECIFICATIONS:**
- **Line-of-sight Stabilization**
  - Typically < 15 µrad, fixed wing
  - < 20 µrad, rotary wing
  - Consult factory for performance under specific vibration conditions

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

- **Vibration Isolation**
  - (6) Axis Passive (x/y/z/pitch/roll/yaw)

- **Azimuth Coverage:** Continuous 360°
- **Elevation Coverage:** +90° to -120°

**STANDARD INTERFACES:**
- **Video Outputs:** 3 Digital & 4 Analog simultaneously
- **Digital Video:** SMPTE 292M, 720p or 1080p
- **Analog Video:** NTSC or PAL
- **Communication:** MX-Hand Controller

**OPTIONS:**
- **Interfaces Types:** Functional Interfaces:
  - RS-422
  - RS-232
  - MIL-STD-1553B
  - Ethernet
  - Microwave/Data Link
  - Aircraft INS/GPS
  - Metadata

- **Other:**
  - Autotracker
  - Service Stand
  - Dovetail Adaptor
  - Quick Release Adaptor
  - Controller: MX Mission Grip

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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.**