WESCAM’s MX-15D. Fully Digital. High Definition.
An Extreme Multi-Sensor, Multi-Spectral Targeting System in a single LRU configuration.

Ideal for: Medium-Altitude; Covert Intelligence, Surveillance & Reconnaissance, Armed Reconnaissance, CSAR, Target Designation
Airborne Installations: Fixed-Wing, Rotary-Wing, UAV

FEATURES & BENEFITS: MX-15D

Multi-Sensor Imaging/Lasing Payload Options
• Supports up to 9 payload items simultaneously
• HD thermal, HD daylight and HD low-light cameras provide 24/7 imaging
• Continuous wide-angle zoom
• High-magnification step-zoom spotter
• High-sensitivity color low-light imaging
• Compact, efficient, reliable laser target designator
• SWIR camera images designator spot
• Eyesafe laser rangefinder
• Laser illuminator in choice of narrow or ultra narrow divergence
• Laser spot tracker

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 15” class
• IMU mounted to optical bench for high target location accuracy
• INS auto-align to aircraft
• Full laser stabilization minimizes spot jitter

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
  - Embedded Moving Target Indication (EMTI)
  - 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

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 functional interfaces

Ruggedness
• Rugged aerospace grade aluminum structure
• MIL spec environmental, EMC, and power quality qualification
• Built-in vibration isolator protects internal payload components and minimizes vibration-induced boresight shifts
• Rigorous environmental stress screening (ESS)
• Designed to minimize maintenance requirements and simplify repair
• High fielded reliability for intense op tempo ISRT applications

Simplified Aircraft Integration
• Electronics unit inside the turret
• Built-in vibration isolation
• Built-in GPS receiver
• <20° 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-15D Product Video
• MX Targeting Family

wescam.com
## PAYLOAD SPECIFICATIONS

### Sensor Options for Thermal Imager

**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 Options for MX-Day/Night Spotter

**Sensor #5a - 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 - SWIR Spotter:**  
(Used with Sensor #4)

### Laser Illuminator (LI)

**Type:** Diode - (ANSI Class IV)  
**Wavelength:** 860nm (near IR)  
**Modes:** Continuous, Pulsed  
**Beam Power:** 350mW or 700mW  
**Beam Divergence:** Narrow, Ultra Narrow

### Laser Designator/Rangefinder

**Type:** Diode pumped – Nd:YaG/OPo, ANSI Class IV  
**Wavelength:** 1064 / 1570nm selectable  
**Range:** Up to 20 km  
**Code compatibility:** US and NATO laser guided munitions  
**Range resolution:** ±2m

### Laser Spot Tracker

**Type:** Quadrant detector  
**Wavelength:** 1064nm  
**Code compatibility:** US and NATO laser guided munitions

**Notes:**  
- Consult factory for Analog Video specifications.

### TURRET SPECIFICATIONS:

- **Line-of-sight Stabilization:** Typically <5 µradians  
- **Stabilization and Steering:**  
  (2) Axis Inner (pitch/yaw)  
  (2) Axis Outer (azimuth/elevation)  
- **Vibration Isolation:**  
  (6) Axis Passive (x/y/z/pitch/roll/yaw)  
  AZ/EL Slew Rate: 0-60°/sec  
  Azimuth Field of Range: Continuous 360°  
  Elevation Field of Range: +90° to -120°

### 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

- MX Standard Handcontroller  
- MX Mission grip  
- Moving map, mission console

**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.**