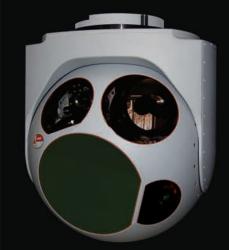


MX⁻25/25D









WESCAM's MX-25. Fully Digital. High Definition.

Ultra Long-Range Multi-Sensor, Multi-Spectral Imaging and Targeting Systems.

Ideal for: High-altitude, Long-endurance Intelligence, Surveillance

and Reconnaissance, and Target Designation missions (MX-25D)

Airborne Installations: Aerostat, Fixed-Wing, UAV

FEATURES & BENEFITS: MX-25 and MX-25D

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 with small divergence beam for maximum range
- SWIR camera images designator spot
- · Eyesafe laser rangefinder
- Laser illuminator in choice of wide, narrow or ultra narrow divergence
- Laser spot tracker (designator version only)

High Performance Gimbal

- 5-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 large turret 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

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

- 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

Simplified Aircraft Integration

- Built-in vibration isolation
- GPS receiver built into electronics unit
- No calibration required for LRU swapout

See our products in action on You Tube Search:

- MX-25 Product Video
- · MX Targeting Family

New for 2017:

- High sensitivity color cameras
- Advanced Video Tracker (AVT)

System Offerings: MX-25

Base offering with 1080p HD Resolution

MX-25D

1080p HD Resolution and Designating capability



WESCAM's EO/IR/Laser Systems



MX-25 / 25D



PAYLOAD SPECIFICATIONS

MX-25 Select up to 7 Sensors

Sensor Options for Thermal Imager

Sensor #1 - HD Thermal Imager:

Type: 3-5µm staring array **Resolution:** 1280 x 1024 **Fields-of-View:** 21.7°, 4.4°, 0.88°, 0.58°

720p & 1080p

Sensor #2 - Daylight Continuous Zoom:

Type: 5 Megapixel Color HD Fields-of-View: 5 Megapixel Color HD 36.3° to 1.1° - 1080p

27.6° to 1.6° - 720p

Sensor #3 - Low-Light Continuous Zoom:

(Requires Sensor #2)

Type: Electron Multiplied CCD (Mono)

Fields-of-View: 40.8° to 2.38°

Sensor Options for Spotter

Sensor #4 - Daylight Spotter:

Type: 2 Megapixel Color HD or Mono HD Fields-of-View: 1.07°, 0.54°, 0.34°, 0.2° - 1080p 0.72°, 0.36°, 0.23°, 0.13° - 720p

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

Fields-of-View: Matched to daylight

or

Sensor #5b - SWIR Spotter: (Requires Sensor #4)

Sensor #6 - Laser Rangefinder (LRF)1:

Laser Type: Erbium glass (ANSI Class I), Eyesafe

 Wavelength:
 1540nm

 Pulse Rate:
 12 pulses/min.

 Range:
 30km

 Range Resolution:
 ±5m

Sensor #7/8 - Laser Illuminator (LI)2:

Laser Type: Diode - (ANSI Class 4)

Wavelength: 860nm

Modes: Continuous, Pulsed

Beam Divergence: Wide, Narrow or Ultra Narrow

PAYLOAD SPECIFICATIONS

MX-25D Select up to 9 Sensors

Sensor Options for Thermal Imager

Sensor #1 - HD Thermal Imager:

 Type:
 3-5µm staring array

 Resolution:
 1280 x 1024

 Fields-of-View:
 21.7°, 4.4°, 0.88°, 0.58°

720p & 1080p

Sensor #2 - Daylight Continuous Zoom:

Type: 5 Megapixel Color HD **Fields-of-View:** 36.3° to 1.1° - 1080p 27.6° to 1.6° - 720p

Sensor #3 - Low-Light Continuous Zoom:

(Requires Sensor #2)

Type: Electron Multiplied CCD (Mono)

Fields-of-View: 40.8° to 2.38°

Sensor Options for Spotter

Sensor #4 - Daylight Spotter:

0.72°, 0.36°, 0.23°, 0.13° - 720p

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

Fields-of-View: Matched to daylight

or

Sensor #5b - SWIR Spotter: (Requires Sensor #4)

Sensor #6 - Laser Illuminator (LI)²: Laser Type: Diode - (ANSI Class 4)

Wavelength: 860nm

Modes: Continuous, Pulsed

Beam Divergence: Wide, Narrow or Ultra Narrow

Sensor #7/8 - Laser Designator/Rangefinder:

(ANSI Class 4)3

Laser Type: Diode Pumped Nd:Yag
Wavelength: 1064nm/1570nm Selectable
Code Compatibility: US & NATO Laser Guided Munition

Rangefinding: Up to 20km Rangefinding: ±2m

Sensor #9 - Laser Spot Tracker

Type: Quadrant Detector

Wavelength: 1064nm

Code Compatibility: US & NATO Laser Guided Munition

Notes:

 All FOV's are for Digital outputs. Consult factory for FOV's for Analog Outputs.

PAYLOAD SPECIFICATIONS

MX-25 & MX-25D

MX-25 Turret

MX-25: \leq 260lbs (all sensors), 25.7"(D) x 30.2"(H) MX-25D: \leq 260lbs (all sensors), 25.7"(D) x 30.2"(H)

Powe

MIL-STD-704E, 320W (Avg.); 1000W (Max.)

Digital Master Control Unit

<20 lb

7.5"(W) x 12.13"(H) x 16.7"(D) 50W (Avg.); 100W (Max.)

Autotracker

Hand Controller Unit (HCU)

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-461E, MIL-STD-810F

TURRET SPECIFICATIONS:

Line-of-sight Stabilization

Typically <3 μradians. Consult factory for performance under specific vibration conditions

Stabilization and Steering

(3) Axis Inner (pitch/yaw/roll)(2) Axis Outer (azimuth/elevation)

Vibration Isolation

(6) Axis Passive (x/y/z/pitch/roll/yaw)

AZ/EL Slew Rate: 40 degrees / sec maximum

LOS Pan Range: Continuous 360° LOS Tilt Range: +90° to -120°

STANDARD INTERFACES:

5 Simultaneous EO/IR Digital and Analog Video channels; 1080p configurable for 720p,1080i, 525i & 625i digital options

MX-Hand Controller

OPTIONS AVAILABLE

MCU Interfaces: Operator Interfaces:

Moving Map Interface Operator Control Unit & Joystick
Serial Remote Control Moving Map system
Radar Interface GEO-Pointing

MIL STD 1553B GPS Time Sync GPS Data INS Data Searchlight Microwave Metadata

Microwave Equipment:

MX-POD, Digital Transmitter

Diversity Rx

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.









