The MX-15Di is a member of the MX Series of airborne imaging turrets. Together with the MX-15 and MX-20, the MX Series provides the best performance value in each class.

THE MX-15Di OFFERS UP TO 6 PAYLOAD SENSORS

Laser Target Designator
The MX-15Di Laser Designator utilizes a compact, efficient and reliable diode-pumped laser. The laser provides exceptional range through a small divergence high quality beam. Combined with IMU Inside technology and exceptional EO/IR sensor range, the system achieves unparalleled designating ranges. To minimize size and weight, the designator electronics package is incorporated into the turret payload.

Integrated MCU
The integrated MCU feature integrates, what once were considered external control electronics, into the top of the turret. The result:
- Up to 50lb/22.6 kg installed weight savings
- Reduced no. of Line Replaceable Units (LRU’s)
- Simplified installation & cabling

Modular Payload
The MX-15Di supports up to 6 payload sensors. Create an optimum match between system requirements and available budget:
- IR with high magnification 4 step zoom
- Color Daylight Camera with Zoom Lens
- Mono Daylight Camera with Spotter Lens
- Laser Designator with LRF
- Laser Illuminator
- Eyesafe Laser Rangefinder

MX-GEO
Utilizing IMU-Inside technology, the MX-Family delivers maximum target location accuracy. GEO-Pointing enables the turret to accurately track to an earth location. GEO-Location provides the ground coordinates of the image. Utilizing that range data, GEO-Focus automatically focuses EO/IR images on that location.

MX-Series Commonality
The expanded MX-Series of turrets maximizes the use of common components and common interior avionics, simplifying interchangeability with efficiencies in support and technology enhancements. This MX-Series commonality delivers low overall life-cycle costs.

Operational Availability
L-3 WESCAM has created a worldwide Service Center Network, providing parts, loaner equipment and trained personnel to customers worldwide.

Military Qualified

www.wescam.com
PAYLOAD SPECIFICATIONS - SELECT UP TO 6 SENSORS

Sensor #1 - High Magnification IR Thermal Imager
Type: 3rd gen., 3-5µm staring array
Resolution: 640 x 512
Fields of View: 26.7°, 5.4°, 1.09°, 0.36°

Sensor #2a - Color Daylight Camera with Zoom Lens:
Type: 1/2CCD Color
Resolution: 470 TVL
Fields of View: 4.4° - 20.0° optical
2.0° - 4.4° continuous digital

Sensor #2b - Color Daylight Camera with Spotter Lens:
Type: Megapixel Color
Resolution: ≥500 TVL
Fields of View: 1.83° - 21.3°

Sensor #3 - Daylight Mono Camera with Spotter Lens:
Type: 1/2CCD Mono
Resolution: 570 TVL
Field of View: 0.37°

Sensor #4 - Eye Safe Laser Rangefinder (LRF):
Laser Type: Erbium glass (ANSI Class 1)
Wavelength: 1540nm
Pulse Rate: 12 pulses/min.
Range: 20km
Range Resolution: ±5m

Sensor #5 - Laser Designator/Rangefinder:
Laser Type: Nd:YAG (ANSI Class 4)
Wavelength: 1064nm
Pulse Rate: Up to 20 pulses/sec.
Range: 20km
Range Resolution: ±5m

Sensor #6 - Laser Illuminator:
Laser Type: Diode - (ANSI Class 4)
Wavelength: 860nm
Modes: Continuous, Pulsed
Beam Power: 324mW or 680mW
Beam Divergence: 1.5 x 1 mrad

NOTE: When Sensor 2b is selected, Sensor 2a & 4 are not available.

SYSTEM SPECIFICATIONS

MX-15Di Turret with Integrated MCU
<108 lbs (all sensors), 16.5"(D) x 19.75"(H)
280W - 430W (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

TURRET SPECIFICATIONS

Line-of-sight Stabilization
Typically <6 µradians. Consult factory for performance under specific vibration condition

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

MCU STANDARD INTERFACES
4 EO/IR Analog Video channels
Hand Controller Interface

OPTIONS AVAILABLE
Moving Map Interface
Serial Remote Control
Radar Interface
MIL STD 1553B Interface
GPS Time Sync Interface
GPS Data Interface
INS Data Interface
NightSun II Slave Interface
Microwave Interface
GEO-Pointing

Operator Interfaces:
Operator Control Unit and Joystick
Autotracker
Moving Map system

Microwave Equipment:
MX-POD, Digital Transmitter
WISARD™ Handheld and AzTrack

NOTE: When Sensor 2b is selected, Sensor 2a & 4 are not available.