

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

Ideal for: Ground Combat & Force Protection missions

Ground Installations: Armed Vehicle - Mast Mounted



FEATURES & BENEFITS: MX-10GS

Weight-Optimized System

- 43 lb turret
- Electronics unit inside the turret
- Built-in vibration isolation
- Built-in GPS receiver

Installation Flexibility

- <14" turret height
- Compatible with standard quick disconnect mounts

Interface Flexibility

- Simultaneous SMPTE HD digital video and NTSC or PAL analog video outputs
- 720p or 1080p HD video
- All standard MX-Series command and control, moving map & radar interfaces
- Wide range of electrical interfaces: MIL-STD-1553B, ARINC 429, RS-232/422, Ethernet

Ruggedness

- MIL spec environmental and EMC qualification
- Internal vibration isolation

Uncompromised Performance

- Fully active 4-axis MX-Series stabilization with internal vibration isolation
- Precision optics provide wide-angle context through to high magnification
- 5 megapixel EO camera

Multi-Sensor Imaging/Lasing Payload Options

- IR, Color and Electron-Multiplied CCD (EMCCD) imaging sensors
- Laser rangefinder, narrow illuminator
- Inertial Measurement Unit (IMU) standard

High Performance IMU & MX-GEO Software Suite

- IMU mounted on the optical bench
- IMU & MX-GEO for accurate target location

Digital Sensors/Advanced Image Processing

- Simultaneous real-time image enhancement on all sensors
 - High performance haze penetration
 - Improved feature recognition & identification



MX-10GS Daylight, Wide



MX-10GS Daylight, Very Narrow



MX-10GS IR

wescam.com



WESCAM's EO/IR/Laser Systems

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PAYLOAD SPECIFICATIONS - Select up to 6 Imaging & Laser Sensors

Sensor #1 - Thermal Imager:

Type: 3-5µm staring array
Resolution: 640 x 512
Fields of View: 30.0°, 7.0°, 1.8°

Sensor #2 - Daylight Continuous Zoom TV:

Type: 5 Megapixel Color HD
Fields of View: 36.3° to 1.0°

Sensor #3 - Low Light Continuous Zoom TV:

Type: Electron-multiplied CCD (Mono)
Resolution: 640x 480
Fields of View: 40.8° to 2.38°

Sensor #4 - Laser Rangefinder (LRF):

Laser Type: Erbium glass (Class 1), Eyesafe
Wavelength: 1.54µm
Range: 20km max.

Sensor #5 - Laser Illuminator, Narrow: (NVG Compatible)

Laser Type: Diode - (Class 1), Eyesafe
Modes: Continuous, Pulsed
Wavelength: 852nm

Additional MX-10 Features:

IMU: Mounted on optical bench
AutoTracker: Embedded (option)
GPS Receiver: Embedded (option)

Notes:

- 2x, 4x eZoom is available to increase magnification
- 720p FOVs. Consult factory for 1080p and analog FOVs
- All FOVs are horizontal

SYSTEM SPECIFICATIONS

MX-10 Turret

<43.3 lbs / 19.6 Kg (all sensors)
10.24"(D) x 14.88"(H)
260mm (D) x 378mm (H)

Power

MIL-STD-704F, 28 VDC, 10 Amps max.

Hand Controller Unit (HCU)

4.8 lbs / 2.2 Kg
3.34"(W) x 9.17"(L) x 5.39"(D)
85mm (W) x 233mm (L) x 137mm (D)
Powered: 10 W max.

Cables

Consult factory for available variants

Environmental

MIL-STD-461E, MIL-STD-810F

TURRET SPECIFICATIONS:

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 Mission Grip Hand Controller

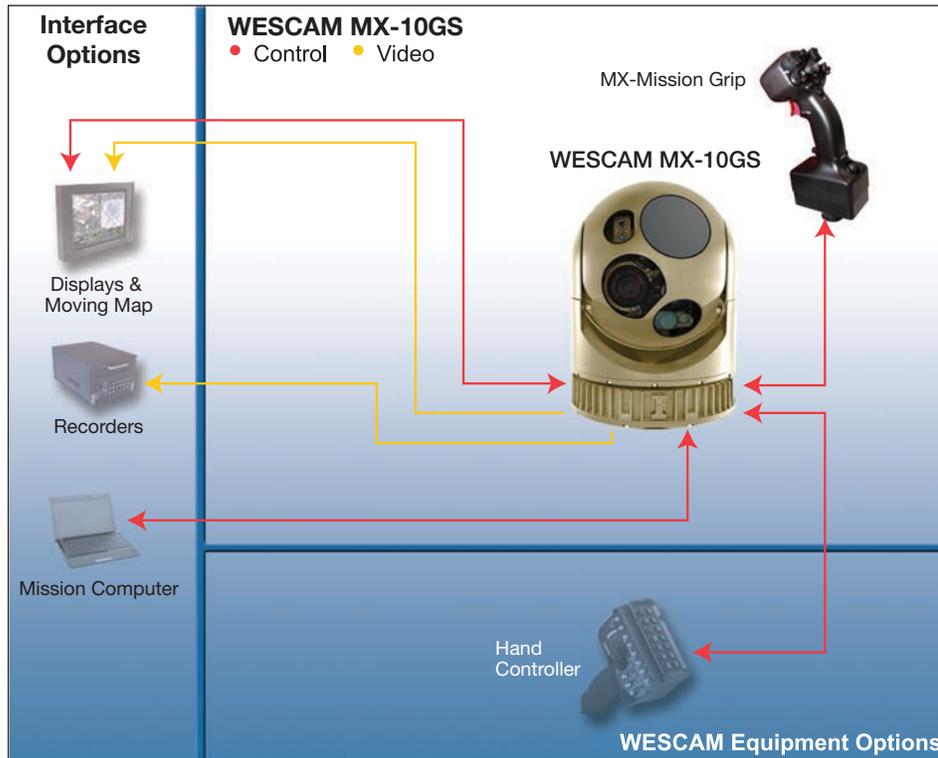
OPTIONS:

Interfaces Types:

RS-422
RS-232
MIL-STD-1553B
ARINC 429
Ethernet

Functional Interfaces:

Moving Map
Remote Control
Radar
Microwave/Data Link
Metadata



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.



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

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