MX SERIES
ROCK SOLID
GROUND PROVEN
MX is a registered trademark of Wescam Inc.

MX™-RSTA

L3 WESCAM

WESCAM's MX-RSTA

A Multi-Sensor, Multi-Spectral Imaging System

Ideal for: Reconnaissance, Surveillance, Target Acquisition, Ground Combat and Force Protection missions

Ground Installations: Amphibious, Armoured Combat and Reconnaissance Vehicles, including mast-mounted

The MX-RSTA is a highly modular system that can be configured based on your mission, desired capability, and budget. Available solutions for Commander Independent Viewers, above-armor Gunner Sighting Systems, fixed/mobile Border Surveillance, and Mobile Reconnaissance applications.

FEATURES & BENEFITS: MX-RSTA

Fully Integrated System for Installation Simplicity

- Integrated electronics
- Built-in vibration and shock isolation – no external shock isolator
- Optional built-in GPS

Ruggedness

- Qualified to US military standards for environmental and electromagnetic compliance
- Ruggedized for both ground and shipboard use
- Survives 4 ft drop
- Reliability assured by accelerated life testing
- Supplementary mud and salt testing

Uncompromised Performance

- Fully active 4-axis steering and stabilization
- 6 degree-of-freedom internal passive isolator
- Precision large aperture, long focal length optics
- High definition (HD) color sensors
- High accuracy gimbal position feedback for target handoff applications

Multi-Sensor Imaging/Laser Payload Options

- Mid-wave large-format cooled thermal sensor
- Combined color and low-light EO sensor
- Dual-channel EO option, with separate color CMOS and low-light EMCCD cameras
- Laser rangefinder
- Two laser pointers – eyesafe and long-range

Digital Sensors / Advanced Image Processing

- Real-time image enhancement of all sensors / high performance haze penetration
- Improved feature recognition and ID
- Imaging blending between IR and EO sensors
- Video tracker
- Turbulence mitigation and super resolution (future growth)

Daylight, Wide FOV

Daylight, Very Narrow FOV

IR, Narrow FOV

WESCAM's EO/IR/Laser Systems

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PAYLOAD SPECIFICATIONS - Select up to 7 Imaging & Laser Sensors

Sensor #1 - **Thermal Imager:**
Type: 3-5µm staring array
Resolution: 640 x 512 pixel
Fields of View: 1.83°to 35.5° continuous zoom

Sensor #2a - **Daylight Color / Low-Light Imager:**
Type: CMOS
Resolution: 1 megapixel
Fields of View: 1.79° to 31.2° continuous zoom

or

Sensor #2b - **Daylight Color Imager:**
Type: CMOS
Resolution: 5 megapixel
Fields of View: 1.05° to 36.3° continuous zoom

Sensor #3 - **Low-Light Imager:**
(bundled with 2b)
Type: EMCCD
Resolution: 640x 480 pixel
Fields of View: 2.38° to 40.8° continuous zoom

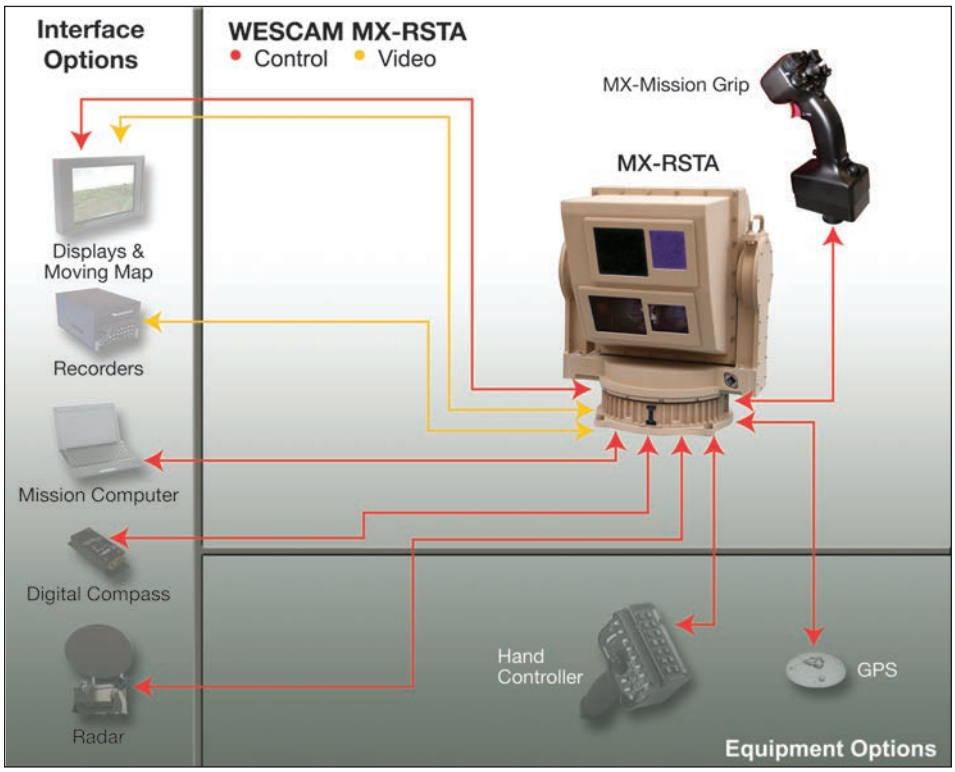
Sensor #4 - **Color Spotter:**
Type: CMOS
Resolution: 5 megapixel
Fields of View: 0.61° (1080p), 0.40° (720p)

Sensor #5 - **Laser Rangefinder (LRF):**
Laser Type: Erbium glass (Class 1), Eyesafe
Wavelength: 1.54µm
Range: 20km (range gate)

Sensor #6 - **Laser Pointer, Eyesafe:**
Laser Type: Diode - (Class 1), Eyesafe
Modes: Continuous, Pulsed
Range: 400m*
Wavelength: 852nm

Sensor #7 - **Laser Pointer, Long Range:**
Laser Type: Diode - (Class IIIb)
Modes: Continuous, Pulsed
Range: 1000m*
Wavelength: 852nm

* Viewed with NVG in accordance with curves in MIL-STD-3009



SYSTEM SPECIFICATIONS

MX-RSTA
70 lbs (max) / 31.8 kg (all sensors)
530 mm (21") D x 560 mm (22") H clearance envelope

Power
MIL-STD-1275D, 28VDC, 140 W steady-state

Environmental / EMC
MIL-STD-810G, MIL-STD-461E

Stabilization and Steering
4-axis, 2 inner (pitch/yaw) and 2 outer (azimuth/elevation)
6 degree-of-freedom passive isolator

Azimuth Travel: Continuous 360°

Elevation Travel: -75° to +84°

STANDARD INTERFACES:

Video Outputs: 2 digital (SMPTE292M) and 2 analog (NTSC or PAL)
Communication: MX-Mission Grip or Hand Controller

OPTIONS:

Interfaces Types:
Ethernet
RS-232/422

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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