WESCAM MX™-RSTA
A MULTI-SENSOR, MULTI-SPECTRAL SIGHTING SYSTEM

PAYLOAD SPECIFICATIONS

Sensor Options for Thermal Imager (Select #1a or #1b)

Sensor #1a - Thermal Imager:
Type: 3-5μm staring array
Resolution: 640 x 512 Pixels
Fields-of-View: 30.0° to 1.8°, Continuous Zoom

Sensor #1b - HD Thermal Imager:
Type: 3-5μm staring array
Resolution: 1280 x 720 Pixels
Fields-of-View: 30.2° to 2.8°, Continuous Zoom

Sensor #2 - HD Daylight Continuous Zoom:
Type: CMOS
Resolution: 1920 x 1080 Pixels
Fields-of-View: 31.2° to 1.2°

Sensor #3 - Low-Light Continuous Zoom:
Fields-of-View: 40.8° to 2.4°

Sensor #4 - Daylight Spotter:
Type: CMOS
Resolution: 1920 x 1080 Pixels
Fields-of-View: 0.61°

Sensor #5 - Laser Rangefinder (LRF):
Wavelength: 1.54μm
Range: 20km max.

Sensor #6 - Laser Illuminator:
Mode: Continuous, Pulsed
Wavelength: 852nm
Beam Divergence: Wide or Narrow

Additional WESCAM MX-RSTA Features:
IMU: Mounted on optical bench
AutoTracker: Embedded (option)
GPS Receiver: Embedded (option)
Moving Target Indicator: Embedded (option)
Notes: 2x, 4x Ezoom is available to increase magnification
720p FOVs. Consult factory for 1080p and analog FOVs
All FOVs are horizontal

FEATURES AND BENEFITS
> Multi-sensor Imaging/Lasing Payload Options
> High-Performance Gimbal
> Advanced Image Processing
> Interface Flexibility
> Ruggedness
> Simplified Vehicle Integration

TURRET SPECIFICATIONS

Stabilization and Steering
Azimuth Range: Continuous 360°
Elevation Range: -90° to +110°

SYSTEM SPECIFICATIONS

WESCAM MX-RSTA
<43.3 lbs / 19.6 Kg (all sensors): 32.2”(D) x 15.3”(H)
310mm (D) x 388.5mm (H)

Power
MIL-STD-704E, 28 VDC, 10 Amps max.
The WESCAM MX-RSTA is an advanced, industry-leading stabilized multi-sensor, multi-spectral imaging system that is renowned for high performance, operator ease-of-use and reliability. It’s ideal for forward observer roles, such as directing artillery fire (forward observation officer), directing close air support (forward air controller) and observation post vehicle (OPV). The sensor can either be hard-mounted to the vehicle or mast-mounted for an elevated perspective.

The key in this role is target detection, recognition and detection range performance. Superior stabilization is the key to achieving the maximum target detection, recognition and identification range performance from the imagers. The WESCAM MX-RSTA achieves this with a hybrid active and passive jitter suppression system. This proven architecture stabilizes all devices on the optical bench equally.

That is also aided by advanced image enhancement algorithms that aid feature recognition. Advanced processing features, such as object tracking, future serve to enhance the search and tracking process, allowing the operator to focus on the target versus the equipment.

### VIDEO INTERFACES

- Built-in video switch matrix
- 3 independent HD-SDI output channels available
- 4 analog video (NTSC or PAL) output channels available

### DATA INTERFACES

**Interface Types:** RS-232/422, Ethernet, MIL-STD-1553B

**Functional Interfaces:** Remote Control, Moving Map, Microwave / Data Link, Radar, Metadata / Status

**HMI Options:** Moving Map, Mission Console

Compatible with Microwave Communications Equipment.