An Extreme Multi-Sensor, Multi-Spectral Targeting System in a Single Line Replaceable Unit (LRU)

The WESCAM MX-15D is ideal for medium-altitude; covert intelligence, surveillance & reconnaissance, armed reconnaissance, combat search and rescue (CSAR) and target designation.

**MULTI-SENSOR IMAGING/LASING PAYLOAD OPTIONS**

- Supports nine 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
- SWIR camera images designator spot
- Eye-safe laser rangefinder
- Laser illuminator in choice of narrow or ultra narrow divergence
- Laser spot tracker

**HIGH-PERFORMANCE GIMBAL**

- 4-axis stabilized turret with internal passive
- Sharp optics and superior stabilization performance results in industry leading target detection, recognition and identification range performance in the 15” class
- Inertial Measurement Unit (IMU) mounted to optical bench for high target location accuracy
- Inertial Navigation System (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
  - Imaging blending
  - Embedded Moving Target Indication
  - Pseudo-color IR

**WESCAM ADVANCED VIDEO ENGINE (WAVE)**

- A high-performing embedded computing engine engineered to support advanced image-processing capabilities
- WAVE architecture includes a state-of-the-art graphics processing unit (GPU) - enabling future advancements in image processing & surveillance automation

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INTERFACE FLEXIBILITY

> Built-in video switch matrix provides multiple HD-SDI and analog video outputs

> 72p or 1080p HD video

> Wide range of data ports: RS-232/422, Ethernet, MIL-STD-1553B, ARINC429

> All standard WESCAM MX-Series functional interfaces

RUGGEDNESS

> Rugged aerospace grade aluminum structure

> MilSpec 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

> High fielded reliability for intense op tempo ISRT applications

SIMPLIFIED AIRCRAFT INTEGRATION

> Electronics unit inside the turret

> Built-in vibration isolation

> Built-in GPS receiver

> <20” turret height for better ground clearance

> Side mounted connectors for recessed installations

> No calibration required for LRU swapout

WESCAM MX-15D
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