

WESCAM MX™-15D. FULLY DIGITAL. HIGH DEFINITION.

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 designator¹
- > SWIR camera images designator spot
- > Eye-safe laser rangefinder²
- > Laser illuminator³ 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



INTERFACE FLEXIBILITY

- > Built-in video switch matrix provides multiple HD-SDI and analog video outputs
- > 720p 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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