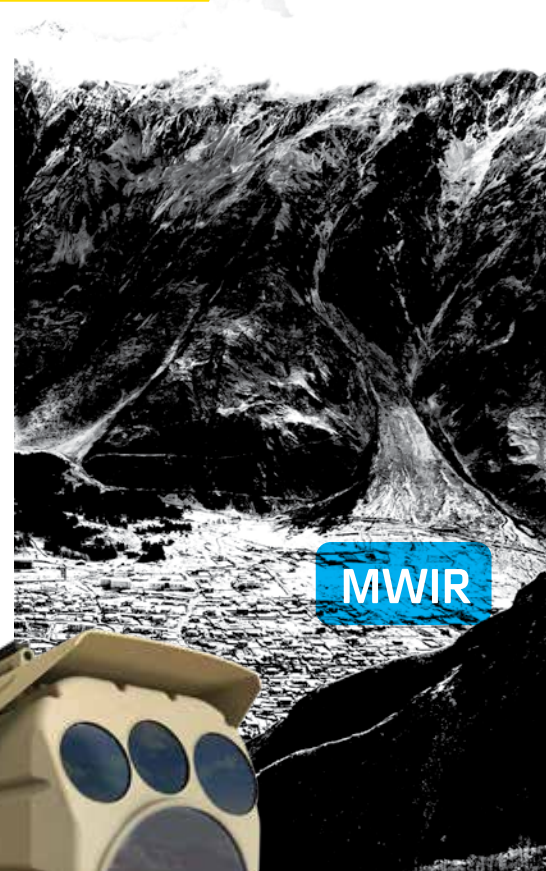


# Long View Multi Spectral (LV-MS)

High Definition (HD) Multi Spectral Integrated Solution  
for Long-Range Reconnaissance & Targeting





MWIR

SWIR

VIS

# Long View Multi Spectral (LV-MS)

High-Definition (HD) Multi Spectral Integrated Solution  
for Long-Range Reconnaissance & Targeting

Elbit Systems' LV-MS is a long-range, high-definition day/night, multi-spectral electro-optical imager. The integrated solution enables clear observation for detection, recognition and identification (DRI) or classification of targets at very long distances, in all weather and atmospheric conditions.

The all-in-one LV-MS features a large-aperture multi-spectral imaging complex that combines multiple cameras into one, significantly improving performance without increasing size and weight. The imager incorporates up to nine advanced and fully digital observation sensors, including high definition medium wavelength infrared (MWIR), high definition visible and near infrared (VNIR) and shortwave infrared (SWIR), as well as laser modules, such as LRF, designator and illuminator. The modular design enables users to select the configuration best suited to their needs, both in terms of performance and cost.

## High performance imaging

The high-definition sensors provide early-warning, abnormal activity monitoring and comprehensive observation capabilities. The LV-MS' multi-sensor configurations, with the addition of the SWIR channel, provides excellent observation capabilities and ultra-long DRI performance in even the most adverse weather conditions, such as fog, haze and smoke.

## Advanced image processing

The LV-MS utilizes advanced algorithms for image enhancement, turbulence correction, image stabilization, automatic target detection and advanced video tracking.

## Compact and versatile

The LV-MS' small form factor makes the imager suitable for a wide range of applications, such as fixed, mobile or deployed platforms; land border surveillance; coastal surveillance and long-range air protection.



DAY

DETECTION 16 KM

RECOGNITION 9 KM

SWIR

DETECTION 27 KM

RECOGNITION 14 KM

MWIR

DETECTION 25 KM

RECOGNITION 9 KM



DAY

DETECTION 19 KM

RECOGNITION 14 KM

SWIR

DETECTION 40 KM

RECOGNITION 25 KM

MWIR

DETECTION 38 KM

RECOGNITION 19 KM



DESIGNATION / MARKING

DESIGNATION 18 KM

MARKING 10 KM

## Key Features

- HD thermal imaging and full HD VIS-VNIR
- Short Wave IR (SWIR) Channel
- Combination of continuous zoom optics and large aperture spotter
- Geo-location capability
- Outstanding DRI performance
- Long-range laser designation with see-spot capability
- IR pointing for NVG
- Automatic target detection (ATD)
- Target tracking
- Turbulence correction
- Image stabilization
- Integrated with different P&T systems
- Precise target acquisition

## Key Benefits

- High performance in adverse weather conditions
- Long-range multi-spectral observation
- Small form factor for ease of deployment
- Modular design for customized configurations
- Suitable for multiple applications



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## High-definition thermal imaging channel

Configuration	Spotter and continuous zoom optics combination
Sensor	1280x1024 InSb (standard)
	640x512 InSb (optional)
	1920x1080 InSb (optional)
Wavelength	3÷5µm
FOVs	1.0°, 3.7°±25°

## High-definition visible channel with low light capabilities

Configuration	Dual camera: Dual FOV spotter and continuous zoom
Sensor	1920x1080 backside illuminated CMOS
Wavelength	Visible (color), Near IR (black/white)
FOVs	0.36°, 0.72°, 2.4°±25°
Operational Modes	Color, Haze penetration, Low Light

## Short Wave IR (SWIR) channel

Configuration	Dual FOV spotter
Sensor	640x512 InGaAs (standard)
	1280x1024 InGaAs (optional)
Wavelength	1.2µm÷1.7µm, 1.064µm (See-spot)
FOVs	0.25°, 0.57°

## Laser Payloads

Rangefinder	Nd:YAG, 1064nm, up-to 22Hz, Class 4
Designator (option)	Nd:YA/OPO, 1570nm, up-to 3Hz, Class 1M
	Erbium Glass, 1534nm, up to 1Hz, Class 1
Illuminator	Diode, 808nm, 2W, Continuous / Pulsed, Class 4
Laser Spot Tracker	Quadrant Detector
Pointer	Diode, 830nm, 50mW, Continuous / Pulsed, Class 3B



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