



**DRI-EO-12** is a stabilized optoelectronic system design for detection, recognition and identification. It is equipped with VIS day camera, MWIR or LWIR infrared surveillance camera, low light SWIR camera, laser designator for missile guidance and laser range finder. Target tracking, geo-pointing, a 30x optical continuous zoom, radiometry and isotherm functionality, robust 4 axis stabilization, integrated INS/GPS allow to use this system in wide range of military and industrial missions, including surveillance, reconnaissance, search and rescue. This system was designed for use onboard ground, sea and aircraft vehicles. With its 6DOF hybrid vibration damping system (active and passive), DRI-EO stabilizes all optical devices ensuring a stable image and laser beam at the micro-radian level.

### SENSORS SPECIFICATION

#### Thermal imager, continuous zoom

Type	MWIR (cooled)
Spectral band	3 ÷ 5 μm
Resolution	1280 x 1024 pixels, 8μm pitch
Field of view	38° to 1.9°

#### SWIR spotter

Type	SWIR
Spectral band	600 ÷ 1700 nm
Resolution	1280 x 1024 pixels, 10μm pitch
Focal length	250mm

#### Daylight, continuous zoom

Type	CMOS, color
Resolution	1920 x 1080 pixels, 8μm pitch
Field of view	58.1° to 2.3°

#### Laser designator

Laser type	Nd:YAG
Wavelength	1064 nm
Compatibility	NATO STANAG 3733
Range	up to 10 km

#### Laser rangefinder + pointer

Laser type	Fiber laser technology
Rangefinder wavelength	1550 nm
Pointer wavelength	830 nm
Repetition rate	10 Hz
Range	up to 30km
Accuracy	±1 m



### SYSTEM SPECIFICATION

#### Stabilization, Steering and Futures

Video tracker	YES	Azimuth range	360° continuous
GEO-pointing	YES	Elevation range	-20° ÷ +110°
Video outputs	2 x HD-SDI	Slew rate	60 °/s
Video streaming	RTSP	LOS stabilization	Based on FOG gyroscope
GNSS receiver	Integrated multi-band	Azimuth range	360° continuous
Outer axis	Azimuth and Elevation	Inner axis	Yaw, Pitch and Roll

#### Power, Weight and Vibration isolation

Power	24 ÷ 28VDC, < 180W	Dimension	Ø 290 mm
Vibration Isolation	Passive 6 DOF	Weight	~20 kg

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