



# TV/GUARD EOS-U18

## UNCOOLED OBSERVATION SYSTEM

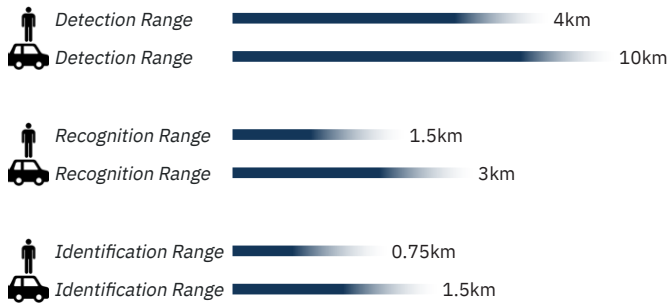


### EOS-U18 UNCOOLED OBSERVATION SYSTEM

#### General Features

EOS-U18 is a multi-sensor camera with automatic target detection and moving target tracking.

The device is integrated with LWIR Uncooled thermal camera, low light day camera, laser range finder, laser pointer, GPS and digital magnetic compass.



*\*Standard lens values. Values may differ with optional lenses.*

- Multiple Target Detection and Moving Target Tracking.
- LWIR Uncooled Thermal Camera with Optical and Digital Magnification.
- Automatic Thermal gain / pallet / gain area selection / detailing.
- Low Light Daylight Camera with Optical and Digital Magnification.
- Low Light Camera day-night modes / electronic-optical fog correction / contrast / saturation / detailing.
- Laser range finder measurement in meters/yards/feet.
- Target vertical and horizontal distance, spot elevation, heading and elevation angles and coordinate display.
- Geographic, UTM and GRID coordinate detection of the device and target location.
- Does not require zeroing and calibration settings.
- Pan-Tilt Unit It can move n x 360 ° continuously in horizontal (pan) and +/- 40 ° in vertical (tilt) axis.
- Pan-Tilt unit speed and position control is done with a command control unit.
- Automatic target detection and automatic target tracking.
- Programmable Sector Scan Mode



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Technical Specifications			
TECHNICAL FEATURES	Detector Resolution	Uncooled 640x512, 12µm	
	Spectral Range	8~12µm (LWIR Uncooled)	
	F/#	1.0	
	Electronic Zoom	8x	
	Field of View	Wide fov: 17.5 ° x 14.0 °	
		Narrow fov: 3.5 ° x 2.8 °	
	Gain Adjustment	Automatic / Manual	
	Brightness / Contrast	Automatic / Manual	
Polarity	White-Hot / Black-Hot		
WORKING DISTANCES <i>(*DRI data are theoretical values calculated according to Johnson criteria and may vary depending on weather conditions. Temperature differ between target and background: 10°C with %90 probability in good weather conditions.)</i>		1.8mx0.5m Human	2.3mx2.3m NATO
	Detection Distance	≤ 4000m	≤ 10000m
	Orientation Range	≤ 3000m	≤ 7000m
	Recognition Distance	≤ 1500m	≤ 3000m
	Identification Distance	≤ 750m	≤ 1500m
VISIBLE CAMERA	Resolution	2 Mp. 1920x1080	
	Electronic Zoom	8X	
	Optical Magnification	35X	
	Field of View	2.3°~ 56°	
GPS	Position Accuracy	≤15m	
DIGITAL MAGNETIC COMPASS	Resolution	0.1°	
	Orientation Accuracy	1° (RMS)	
LASER RANGE FINDER	Spectral Band	1.54 µm µm eyesafe	
	Distance	Up to 15km	
	Distance Accuracy	≤5m	
LASER TARGET POINTER	Wavelength	840 nm	
	Beam divergence	1.5 mrad	
	Distance <i>(At night and in open weather conditions)</i>	10km	
SCREEN	External Monitor	Colored, 1920 x1080	
INTERFACE	Video Interface	HDMI	
	Communication Interface	Ethernet	
POWER	Power Input	External Power Supply: DC24V ±0.5V; AC220 V	
ENVIRONMENTAL PARAMETERS	Operating temperature	-30°C~+50°C	
	Tightness	IP67	
PHYSICAL PROPERTIES	Weight	20 kg	