

## OPTIX MS ONE-V

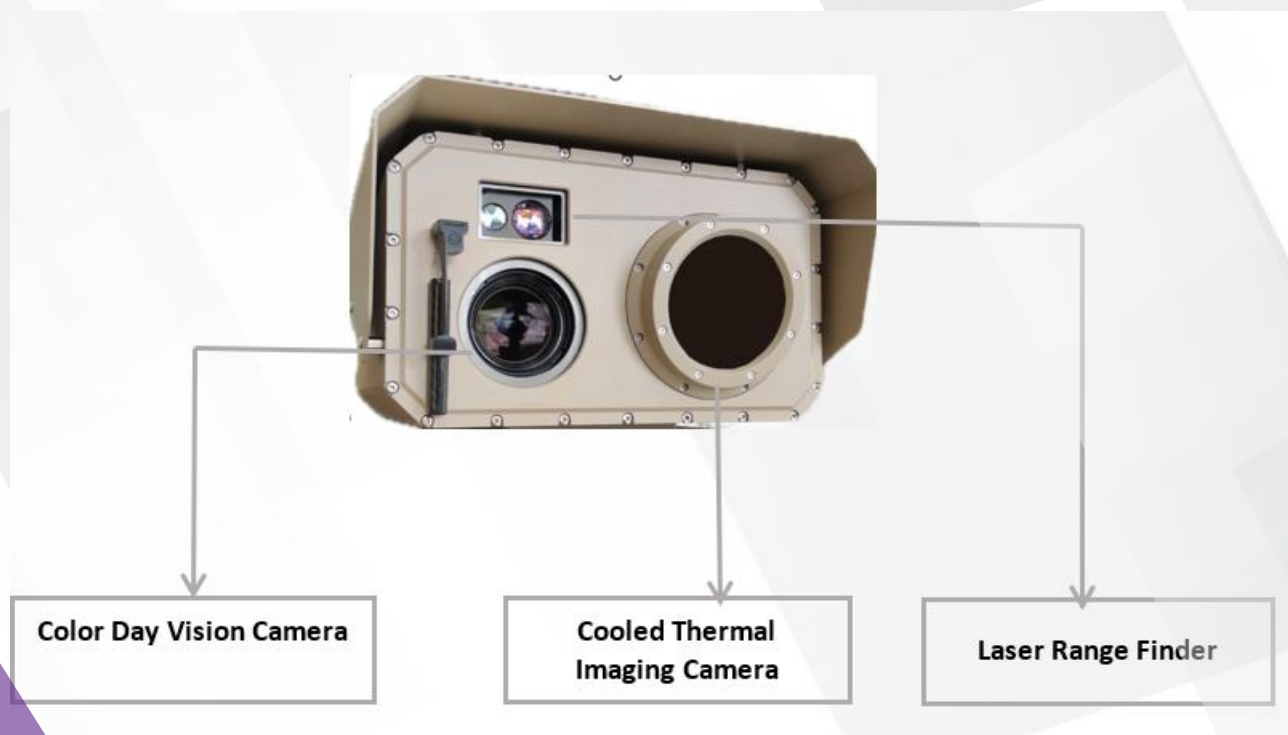
### Portable surveillance system

**APPLICATIONS:**  
Border control & observation

**OPTIX MS ONE-V** is a multi-sensor system capable of detecting intruders, vehicles and different objects of interest in adverse weather conditions and difficult terrain over more than 10 km. Regardless of the type of installation, the intelligent surveillance package allows day and night observation with simple controls for effortless operation. **OPTIX MS ONE-V** can operate continuously without failure while exposed to direct sunlight, precipitation (snow, light rain) and when is coated with ice for a period of at least 10 hours. Penetration of rain, snow and so on is prevented.

**OPTIX MS ONE-V** consists of the following equipment:

- Color Day Vision Camera
- Cooled Thermal Imaging Camera
- Laser Range Finder



Color Day Vision Camera

Cooled Thermal Imaging Camera  
(based on MWIR sensor Galatea MW)

Laser Range Finder

<b>Image Sensor</b>	1/2.8" Progressive CMOS with 8 megapixels resolution	<b>Detector resolution</b>	640x512	<b>Laser Safety Class</b>	Class 1
<b>Resolution</b>	3840 x 2160 pixels	<b>Spectral response</b>	3 - 5 $\mu$ m	<b>Accuracy</b>	$\pm$ 1 m
<b>Focal Length</b>	5.1 – 153 mm	<b>I FOV 15-330</b>	1 - 0.032 mRad		
<b>Focus</b>	Automatic, Manual	<b>Focal Length</b>	15-330 mm	<b>Measurement range</b>	10 000 m
<b>Optical Zoom</b>	30x continuous	<b>Image Polarity</b>	White Hot / Black Hot		
<b>FOV range (horizontal)</b>	58° to 2.3°	<b>NUC</b>	Automatic / Manual		
<b>Video output interface</b>	Ethernet, 3840 x 2160 @60fps, H.264, /H.265/MJPEG	<b>Digital Zoom</b>	10x		
		<b>Optical zoom</b>	20x continuous		
		<b>Brightness / Contrast</b>	Automatic, Image processing and enhancement		
		<b>FOV (continuous)</b>	35°-1.7°		
<b>Total Weight</b>					11 kg
<b>DRI distances:</b>					
<b>*Human Detection Range 1.8 m x 0.5 m</b>					Minimum 9 km
<b>*Human Recognition Range 1.8 m x 0.5 m</b>					Minimum 3 km
<b>*Vehicle Detection Range 2.3 m x 2.3 m</b>					Minimum 16 km
<b>*Vehicle Recognition Range 2.3 m x 2.3 m</b>					Minimum 7 km
<b>Voltage</b>					24 VDC (18-32 VDC)
<b>Power consumption at 20°C</b>					< 50 W
<b>Operating temperature</b>					-25°C to +55°C
<b>Storage temperature</b>					-25°C to +55°C
<b>Relative humidity</b>					up to 95%
<b>IP rating</b>					IP67

\* Actual range may vary depending on camera set-up, environmental conditions, user experience and type of monitor or display used.

\* Assumptions: - 50 % probability of achieving target.

- Target size: human (1.8 m x 0.5 m), vehicle (2.3 m x 2.3 m).

Note:

Images are for illustrative purposes only.