



Combat Proven Technology



EOS Integrated Camera and Sensor Systems (ICSS)

ICSS is designed for integration into Weapon Systems (land and naval) as well as into surveillance, reconnaissance and target acquisition and tracking systems.

ICSS integrates day and night imaging with laser distance measuring and environmental sensors into one ruggedized compact case.

FEATURES

- High performance day camera
- Cooled thermal imager options with different range performances
- Eye-safe Laser Rangefinder
- Cant-/elevation sensors (optional)
- In a compact single case

ICSS provides 24 hours/day situational awareness for all weather conditions.

Depending on customer's requirements ICSS offers five different options for thermal imaging to match your performance requirements:

Sensor Resolution	320 x 256 pixels		480 x 384 pixels		640 x 512 pixels
FoV/Optical Zoom	DFoV	x 10 cont	DFoV	x 10 cont	x 10 cont
Detection	> 5750 m	> 6900 m	> 8600 m	> 10350 m	> 13800 m
Recognition	> 1900 m	> 2300 m	> 2850 m	> 3450 m	> 4600 m
Identification	> 1000 m	> 1150 m	> 1450 m	> 1725 m	> 2300 m

Compared to using several discrete devices, ICSS provides the following advantages to the user:

- Quick and easy replacement in field as single LRU
- No realignment needed, boresighting and zeroing are performed electronically
- One single software / electrical interface
- Easy mechanical integration and mounting
- Easy ballistic protection
- Easy wipe-solutions available

EOS Integrated Camera and Sensor Systems (ICSS) Technical Data

COMMON FEATURES

Daylight Camera (colour CCD)

Zoom range	x 30 continuous
FoV	< 1.2° to > 34° on the display
Focus range	30 m to ∞
DRI (2.3 m x 2.3 m NATO target)	
Detection range	> 8000 m
Recognition range	> 4700 m
Identification range	> 2900 m

Laser Rangefinder

Type	Eye Safe Class 1 (ANSI Z136.1)
Wavelength	1.54 µm
Laser measurement rate	0.1 Hz
Laser range compatibility ¹	50 - 7500 m
Range accuracy	± 2.5 m
Range resolution	± 2.5 m
System	
Weight	12.5 kg
Dimensions (h x w x d)	181 x 244 x 367 (mm)
Voltage input	18 - 32 V dc - nom 28 V dc

THERMAL IMAGER OPTIONS

Type	InSb cooled
Spectral band	3 - 5 µm
Focus range	30 m to ∞

Sensor Resolution	320 x 256 pixels		480 x 384 pixels		640 x 512 pixels
	DFoV	x 10 cont	DFoV	x 10 cont	x 10 cont
FoV/Optical Zoom	DFoV	x 10 cont	DFoV	x 10 cont	x 10 cont
FoV (H) min (°)	3.7	3.1	3.7	3.1	3.1
FoV (H) max (°)	11.0	30.6	11.0	30.6	30.6
DRI²					
Detection	≥ 5750 m	≥ 6900 m	≥ 8600 m	≥ 10350 m	≥ 13800 m
Recognition	≥ 1900 m	≥ 2300 m	≥ 2850 m	≥ 3450 m	≥ 4600 m
Identification	≥ 1000 m	≥ 1150 m	≥ 1450 m	≥ 1725 m	≥ 2300 m

1) 2.3 m x 2.3 m NATO tank target, visibility 23.5 km, target reflection = 0.25, target oriented at right angle to laser line of sight

2) Optical DRI; TRM3 standard model, 2.3 m x 2.3 m NATO tank target, 50 % probability

Europe

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