

- Defence Vision Systems

Long Range Surveillance System

A unique surveillance system ideally suited for long range border and coastal surveillance. The system provides the ultimate in long range surveillance by combining visible and thermal with high powered zoom lens to provide a full 24-hour operation.



System Specifications

Visible Channels	Contextual camera – Standard resolution CCD colour camera Option: High resolution sCMOS colour HD camera Option: High resolution EMCCD colour HD camera	
Thermal Channel	Standard resolution (320 x 256) 3-5 micron camera Option: Medium resolution (640 x 512) 3-5 micron camera Option: High resolution (1280 x 1024) 3-5 micron camera	
Environmental Data	Temperature range Operating: -20°C to+ 60°C Storage: -40°C to+ 72°C	
System Mechanical Dimensions	820mm long x 890mm wide x 780mm high Pan and tilt providing 360 degree rotation 70 degrees elevation	
System Weight	80Kg Sealed housing dry nitrogen filled.	
	Contextual Camera	X10 optical zoom X12 digital zoom
Optical Data	Visible Channels	Powered zoom – 500mm to 3,500mm focal length (with presets) Powered 5 stage filter for highlight and haze conditions.
	Thermal Channel	Powered Zoom – 100mm to 500mm focal length (with presets)
Electrical Data	Power: 120W	
Manual Control	Manual control of system via control unit	

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Viewing Range Data

	Visible	MWIR
Target (Detection)		
Vehicle	76 km	15 km
Human	25 km	5 km
Target (Recognition)		
Vehicle	19 km	4 km
Human	6 km	1.25 km
Target (Identification)		
Vehicle	4.6 km	1 km
Human	1.5 km	0.3 km

Typical ranges based on the Johnson Criteria.

Options

- 20km 1550nm Laser Range Finder.
- Skeleton tower in one metre sections providing variable height upto 10m.
- Maintenance control units in weather proof housing
- Full skeleton shipping frame – houses vision block and skeleton tower.
- Mobile control room integrates with tower (see images below).



Recognising vessels using Thermal imager Camera (Targets ~10km)

