Selex ES
A Finmeccanica Company

Optronics Systems

JANUS - N

Designed to deliver combined medium and long range panoramic sight, day/night , all weather in rugged, sealed, self contained, compact package. The JANUS -N is a fieldproven, high performance stabilised multi sensor naval suite selected by the Italian Navy as surveillance sensor for sea patrolling.

Janus incorporates Selex ES's high performance infrared staring focal plane array sensor technology for high resolution night vision and a high performance colour CCD TV, with optional Laser rangefinder.

APPLICATIONS

- Day and night surveillance
- Search and rescue
- Situational awareness
- Maritime navigation and Patrolling
- Harbour Surveillance and Protection.

KEY BENEFITS

- Air, ground and sea target tracking
- Ease of operation
- Enables target detection in rough seas
- Capable of stand alone or integrated operations

TECHNICAL SPECIFICATIONS

User interface	
Interfaces	RS/422, Ethernet 10/100, S-Video, CCIR, XGA
Controls	Manual via joystick or by host system

System performance	
Elevation	-20° to +70°
Azimuth coverage	360° continuous
Stabilisation	2 axes gyro stabilised
Stabilisation accuracy	< 0.3 mrad RMS
Maximum acceleration	2 rad/s 2
Rotation speed	Elevation 1.0 rad/s Traverse 1.5 rad/s
Built-in test equipment	autocalibration and functional test at start up, on demand
Optional user console	

CCD TV	
Horizontal resolution	460 TV lines
Zoom	Continuous ≤ 2.4° to ≥ 44° (Optical)
	Up to 10X (Digital)
Video Output	Standard PAL or RS 170

Laser rangefinder (optional)	
Eyesafe	1.54µm
Range	100m - 20,000m
Resolution	+/- 5m

Optional functions
Video Tracker
Digital Video Recorder
Washing kit
Safety unit

Thermal imager

	ERICA	ERICA Full Format
Detector type	HgCdTe (MCT) Staring focal plane array	HgCdTe (MCT) Staring focal plane array
Size	384 x 288	640 x 512
Pitch	20 µm	16 µm
Operating temperature	-32° to +44°	-32° to +49°
Operating voltage	28V DC (MIL-STD 1275 B)	28V DC (MIL STD 1275 B)
Resolution	MCT	MCT
Sensitivity	10 mK Typical	10 mK typical
Fields of viewWFOV	≥10° (H) x 7.5° (V)	≥ 10° (H) x 7.5° (V)
NFOV	≤ 2.4° (H) x 1.8° (V)	≤ 2.4° (H) x 1.9° (V)
Digital zoom		2x, 4x, 8x
Video output	European standard CCIR or American standard RS170	European standard CCIR or American standard RS170
Cooling system	IDCA	IDCA
LACE		YES

For more information please email **infomarketing@selex-es.com**
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