ThermoVision® 2000™

APPLICATIONS

- Perimeter Security
- Coastal Surveillance
- Border Patrol
- Government Facilities
 Security
- Force Protection
- Training Range
- Fire Control
- Drug Interdiction
- Vessel Traffic Monitoring

PORTABLE LONG-RANGE INFRARED SURVEILLANCE SYSTEM

ThermoVision 2000 is a state-of-the-art long-range, platform-mounted thermal imaging system, offering unmatched performance with its long-wave Gen-III QWIP sensor and internal three field-of-view optical system. Designed with field-hardened enclosures and long-life components, ThermoVision 2000 withstands the most severe environmental conditions. With an operating range in excess of 10 kilometers, ThermoVision 2000 has the power to bring even the most distant targets to light.

PROVEN IN THE FIELD

ThermoVision systems have been installed at over 700 mobile and fixed bases around the world, conducting critical multi-role missions that include force protection, surveillance, and tactical awareness. The U.S. Air Force TASS (Tactical Automated Security System) program depends on ThermoVision's rugged design, crystal clear imagery, and networkability to keep its installations safe around the clock.

RESULTS ORIENTED

ThermoVision 2000's long-wave, narrow-band QWIP 320x240 FPA delivers high thermal sensitivity in both warm and cold climates and makes the system resistant to existing laser aggression weapons. Three fields of view ensure mission flexibility and effectiveness. Pan out for situational awareness or zoom in tight to identify targets. A powerful on-board processing capability provides innovative features such as infrared auto-focus, automatic image optimization, and network communication.

BUILT FOR RAPID DEPLOYMENT

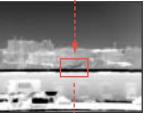
The military-qualified COTS
ThermoVision 2000 is designed with robust components in a field-hardened enclosure, allowing it to readily withstand virtually any atmospheric or environmental condition. The entire system consists of four main — parts tripod, pan and tilt unit, display control unit, and power supply. A single operator can set up the system in minutes, making it ideal for mobile operations and quick deployments.

BACKED BY THE FLIR NAME

FLIR is the world's leading supplier of infrared imaging systems for military, paramilitary, and law enforcement applications. FLIR's global network of service and training centers assures customers the experience, resources, and commitment they demand.



Wide FOV 25°



Medium FOV



Narrow FOV



Distance: 2.3 km





IMAGING PERFORMANCE WITH A 320 X 240 DETECTOR	
Number of Fields of View	3
Wide	25° x 19°
Middle	6.0° x 4.5°
Narrow	0.99° x 0.74°
IFoV Wide	1.37 mRad
IFoV Middle	0.33 mRad
IFoV Narrow	0.054 mRad
Min. Focus Distance	20-100 m
Thermal Sensitivity	0.03 ℃
Image Frequency	50/60 Hz
Electronic Zoom Function	Up to 4 times in real time
Image Freeze	Yes
	DETECTOR
Туре	GaAs, Quantum Well Infrared Photondet (QWIP), 320x240 pixels
Spectral Range	8-9 μm
Cooling	Integrated Stirling
Start-up Time	<6 minutes
	IMAGE PRESENTATION
Video Output	RS170 EIA/NTSC or CCIR/PAL, composite and/or S-video
Presentation	2 color palettes/B&W or W&B selectable 14-bit digital serial link
	RANGE PERFORMANCE
Nato Tank, STANAG 4349 Detectio	n >17 km
	DIGITAL IMAGE
Туре	Full dynamic, 14-bit digital image data
	OPTICS
Field of View/Min Switch Time	<0.5 s
Lens Identification	Automatic, refocused when switched
Coating	High efficiency. Optional, hard carbon
Focus	Auto or manual
	POWER INPUT
Voltage	18-35 V DC
Power Consumption	20 watts
ENVIRONMENTAL SPECIFICATION	
Operating Temperature Range	-32° C to +55° C
Storage Temperature Range	-40° C to +70° C
Humidity	Operating and storage: 10% to 95%, non-condensing
Encapsulation	Metal, IP 65 IEC529
Bump	Operational: 25 g IEC 68-2-29
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Vibration	Operational: 2 g IEC 68-2-6
EMI/EMC	MIL-STD 461 D, US FCC 15 J Class A, EN5008-1, EN50082-1
	PHYSICAL CHARACTERISTICS
Weight	18 kg (7 kg, module only)
Size	503 x 312 x 267 mm (303 x 240 x 188 mm, module only)
	INTERFACES
Remote Control	RS 232 , RS 485 and Ethernet (USB optional)
Ext. Sync	Gen. lock input (optional)
-7.1. 5/110	Com lock input (optional)

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited.
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