

# ThermoVision® 2000/3000 Multi-sensor

PORTABLE, LONG RANGE MULTI-SENSOR SYSTEM  
WITH ADVANCED GEO MAPPING AND VIDEO  
MOTION DETECTION



## APPLICATIONS

- TARGETING
- RECONNAISSANCE
- FORWARD AREA LINE OF DEFENSE
- FORCE PROTECTION
- BORDER SECURITY
- COASTAL SURVEILLANCE

## FEATURES

- Mid and large format, high sensitivity Quantum Well Infrared Photodetector (QWIP)
- 3 fields of view
- Resists laser aggression weapons
- Advanced image processing algorithms
- Powerful daylight imaging
- Advanced GPS based geo- mapping and target positioning
- Programmable search pattern
- Eye safe laser rangefinder option
- Video motion detection software
- Integrated pan/tilt with precise positioning and variable control
- Gyro-stabilization option
- Configurations for portable, fixed, or legacy installations
- It's all FLIR inside

## BENEFITS

- Get extreme long range detection and excellent image quality, even through smoke and dust (> 20 km in large format)
- Provides fast situational awareness, with lens changes at a fraction of a second
- Ensures operation in hostile locations
- Digital Detail Enhancement (DDE) ensures clear, properly contrasted imagery even in scenes with hot targets and low contrast backgrounds where blooming can be a problem (battlefield conditions)
- Enhances 24 hour operation with 26x daylight color camera
- Pinpoint suspect locations in real time on a mapping display
- Reduces operator workload
- Acquire precision target range and location when integrated with mapping software
- Automatic alarms, triggered when movement is detected in a scene, reduce workload
- Provides repeatable position feedback and both fast and slow slew rates, critical for control at full zoom
- Delivers steady imagery in unstable conditions
- A stand alone package allows for fast deployment with PC control; a universal protocol converter allows integration in to an existing network of fixed sensors
- FLIR controls the entire supply chain for the critical technology inside ThermoVision systems, ensuring fast service and long term support



Crisp thermal imagery regardless of scene dynamics (above: image of an explosion)



Windows® based software interface displays thermal, visible, and mapping information





# ThermoVision® 2000/3000 Multi-Sensor

## THERMAL IMAGING PERFORMANCE

Sensor type	
ThermoVision 2000	320 x 240 QWIP
ThermoVision 3000	640 x 480 QWIP
Number of fields of view	3
Wide FOV	25° x 19°
Medium FOV	6° x 4.5°
Narrow FOV	0.99° x 0.74°
Wide FOV (640 x 480)	25° x 19°
Medium FOV (640 x 480)	7.8° x 5.8°
Narrow FOV (640 x 480)	1.3° x 0.96°
E-zoom	2x, 4x
Spectral band	8-9.2 µm

## DAYLIGHT IMAGING PERFORMANCE

Sensor type	Sony FCB EXSP 980
FOVs	42° to 1.6° continuous
E-zoom	12x
Automatic features	Image stabilization

## SYSTEM FEATURES

Geo-positioning	Internal GPS
Programmable search	Search multiple preset locations

## PAN/TILT

Az range	n x 360°
El range	-40° to 40°
Slew rate	0.03 to 70°/sec azimuth

## OUTPUTS

Video	NTSC or PAL video
Connector types	BNC

## POWER REQUIREMENTS

Power requirements	18-35 VDC
Power consumption	31 W (140 W with heater)

## ENVIRONMENTAL

Mil-spec	EMI/EMC 461D
IP rating	IP 65 IEC 530
Operating temp	-32°C to 55°C (-26°F to 131°F)

## DIMENSIONS, WEIGHT & MOUNTING

Weight	25 kg
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## INTERFACES

Command and Control	RS 232,485, ethernet TCP/IP
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## STANDARD PACKAGE

Includes – Windows based mapping software: turret control, mapping, geo pointing, motion detection, alarming, digital recording, programmable search

## OPTIONS

Gyro-stabilized pan/tilt	2 axis gyro-stabilization
Universal protocol converter box	Converts industry standard innunciator communications for use with PTZ functions
Eye safe laser rangefinder	
Type	LP-16 erbium glass
Range	20 km

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