

ThermoVision[®] 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

FEATURES

Mid and large format, high sensitivity Quantum Well Infrared Photodetector (QWIP)

Three 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

STACE™ digital detail enhancement 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 standalone 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® 3000 Multi-Sensor

THERMAL IMAGING PERFORMANCE

Sensory type	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 (55 lbs)
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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 annunciator communications for use with PTZ functions
Eye safe laser rangefinder	
Type	LP-16 erbium glass
Range	20 km

STACE™
Digital Image Enhancement

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