

ThermoVision® Sentinel™

24-HOUR PERIMETER SURVEILLANCE CAMERA SYSTEM



FEATURES

High-sensitivity, long wave thermal imaging sensor

New 5/20 degree dual field of view optics

Auto focus

Digital Detail Enhancement (DDE)

Powerful daylight/low light TV

Pelco D compatible

Built In Test (BIT)

Rugged, sealed enclosure

Built in defrost

Object Video compliant

All FLIR inside

BENEFITS

Detect targets at range, in total darkness, through smoke and most battlefield obscurants

Obtain fast situational awareness and detect man size targets at 2.6 km

Produces sharp imagery between zoom settings, reduces operator workload

Provides crisp thermal imagery regardless of scene dynamics

Provides additional tactical advantage and long range observation during daylight operation

Allows for easy adaptation to existing Pelco network installations

Intelligent self test confirms that the system is operating optimally

Take confidence in ThermoVision, with hundreds of systems fielded with TASS and in other harsh climates

Keeps the lens clear in cold climates

Supports intelligent video motion detection with Object Video software products

FLIR controls the entire supply chain for the critical technology inside ThermoVision. This ensures fast service and long term, world class support

APPLICATIONS

Force Protection

Perimeter Security

Night Observation



Powerful daylight/low light camera



Crisp imagery in narrow field of view



Fast situational awareness in wide field of view

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THERMAL IMAGING PERFORMANCE

Sensor Type	Long Wave microbolometer, 320 x 240
Number of "fields of view"	2
Wide FOV	20° x 15°
Narrow FOV	5° x 3.75°
E Zoom	Continuous 1X to 4X
Spectral band	7.5-13 μ m
Automatic Features	Auto Focus, Digital Detail Enhancement, color palettes, built in defrosting system

DAYLIGHT IMAGING PERFORMANCE

Sensor type	1/4" CCD 48° to 2.7° Continuous
Lines of resolution	460 television lines NTSC, 470 television lines PAL
Automatic Features	Auto focus, advanced image processing enhancements

SYSTEM FEATURES

Remote Control	On/off power save feature
Automatic Heater	Separate power supply supports arctic climate use
Built in Test (BIT)	Intellegent self diagnostics tests vital functions
Pelco D [®] Compliance	Supports Pelco D [®] communication protocol for camera control

OUTPUT

Video	NTSC (RS-170) or PAL (CCIR), 14 bit digital thermal image data transfer via serial interface
Connector types	RS-232, BNC (2)

POWER

Power Requirements	18-32 VDC
Power Consumption	10 W (average)

ENVIRONMENTAL

EMI/EMC	MIL-Std 461D
IP Rating	IP 65, NEMA 4
Operating Temp	-32°C to 55°C (-26°F to 122°F)
Storage Temp	-40°C to 70°C (-40°F to 158°F)

DIMENSIONS, WEIGHTS AND MOUNTING

Dimensions	270 x 230 x 180 mm (11" x 9" x 7")
Weight	6 kg (13 lb.)
Mounting	2 @ 1/4-20 mounting holes

INTERFACES

Command and Control	RS 232
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