

ThermoVision Security[®] HD

High-Resolution Thermal and Daylight Camera System for Security Applications



APPLICATIONS

- Deployable Security
- Border Security
- High Value Site Protection
- Industrial Security
- Perimeter Security
- Force Protection
- Forward Area Line of Defense

Daylight TV



ThermoVision



ThermoVision 2x Electronic Zoom



ThermoVision Security HD (S-HD) is a complete day and night security camera system designed for outdoor installation. This extremely compact multi-sensor camera system includes an integrated pan/tilt and plug and play compatibility, and supports legacy interfaces and emerging IP-based standards. In addition, S-HD includes state-of-the-art detectors and image processing technologies.

The system features a highly sensitive thermal imager, which allows operators to detect and monitor events from long distances with an uncooled thermal camera. Events can be detected through smoke, fog, rain, and total darkness. The system includes a visible daylight TV camera that provides color imagery. And, because the S-HD has a true thermal imager that doesn't require illumination, you get true covert security.

High Performance Daylight TV Camera

S-HD delivers viewing capability from far distances, with a 25x optical zoom and 12x digital zoom. The camera also features a low light mode. Electronic image stabilization helps to deliver a clear image at full zoom.

Pan/Tilt Mechanism

The camera features a reliable, small, lightweight pan/tilt enclosure designed specifically for the security market. Controlled by computer or joystick display unit, it easily integrates with new or existing security solutions.

Broad Integration Capability

S-HD gives you three options for integration: Display Control Unit with built in LCD monitor and joystick control panel; a software development kit with a Lab View GUI; or over an IP network using ThermoVision Nexus System Architecture. S-HD also supports legacy command protocols.

High Value, Cost Effective Solutions

FLIR controls the entire supply chain, from detector fabrication to components and software, and offers a broad spectrum of solutions, price points, performance specifications, and configuration options. Combine this with rapid service and support, and you get the highest value, most cost-effective security solutions.



ThermoVision Security® HD

Thermal Imaging Performance

Sensor type	320 x 240 VOx microbolometer
Field of view 30 mm	23° x 17°
Field of view 50 mm (optional)	14° x 10°
Spectral band	7.5-13 µm

Daylight Imaging Performance

Resolution	Approx 680k pixels, 0.7 lux
FOVs	45° (wide end) to 2° (tele end)
Lines of resolution	470 television lines NTSC, 460 PAL
Zoom	18x optical, 12x digital zoom
Automatic features	Auto Infrared Cut filter Removal (ICR), auto focus, electronic stabilization

Pan/Tilt

Az range	+/- 200°, 1-160°/sec
EI range	+/- 60°, 1-80°/sec

Outputs

Video	NTSC RS-170A or PAL Ethernet real-time MPEG (with Nexus option)
Connector types	Mil-C-32

Power

Power requirements	24 VDC
Power consumption	<50 W nominal at 25 °C

Environmental

Mil-spec	MIL-STD-810E
IP rating	IP65
Operating temp	-32 °C to 55 °C (-25.6 °F to 131 °F)

Dimensions, Weights and Mounting

Dimensions	305 d x 229 h mm (12 d x 9 h in.)
Weight	<4.6 kg (<10 lb.)
Mounting	Tripod (1/4 - 20) and quick connect shoe

Interfaces

Command and Control	RS-232 or optional RS-422; optional Ethernet or joystick display unit
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Options

Nexus command and control system	Provides networked control and streaming video with a variety of alarming and automated functions
Joystick display unit	Allows for full control of the system and displays video on an integrated 6.4" display (well suited to portable applications)



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