

darkEye

A Fully Integrated, IP Rated Day / Night Optical & Thermal Camera



- ✓ Fully Integrated PTZ
- ✓ IP Rated
- ✓ Flir Tau 2 640 x 512 Thermal Imager
- ✓ 30 x Optical Zoom
- ✓ 12 x Digital Zoom
- ✓ Full HD Optical Camera (1080p @ 60fps)
- ✓ Small Size (212 mm)
- ✓ Light Weight (2.5 kg)

darkEye supports parallel full HD (1080p 60fps) optical video and 640x512 thermal video. The thermal camera is fitted with a 35mm lens, providing NATO target detection out to 1.6km.

The optical payload as standard is the Sony HD FCB-EV7500 30 x optical zoom (12 x digital) block camera. This camera block operates under several low light modes with built in image stabilisation.

Both the Sony camera block and the Flir Tau 2 can be fully configured using the manufacturer's software.

Camera control is supported using the Pelco-D protocol giving the full range of pan, tilt and zoom functions, presets and control over a wide range of camera parameters.



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Optical Sensor

Sensor	1/2.8-type Exmor™ CMOS
Resolution	1080p (60fps)
Min Illumination	0.35 lumens
Zoom Ratio	30 x Optical, 12 x Digital

Thermal Sensor

Core type	Tau 2 640 (640 x 512 17u)
Spectral Band	7.5 - 13.5um
Performance	<50mK @ f/1.0
Frame Rate	9/25/30fps (PAL/NTSC)*
Pixel pitch	17µ

Physical

Pan & tilt range	306° tilt, continuous pan
Pan & tilt drive train	Low noise stepper
Dimensions	212 mm x 138 mm x 128 mm
Weight	2.5 kg
Enclosure	IP rated
Casing	Machined aluminium

Electrical

Input voltage	11 - 24VDC
Power consumption	9.8W
Recommended PSU	12V, 2A

Telemetry

Protocol	Pelco D/Visca
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Accessories & Compatible Products

External Battery
RapidNet
R1000
PodNode
H.264 Encoder
R1000 HD

*Subject to export control

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