



The ioimage trk1 is an intelligent video encoder whose powerful built-in video analytics enhance security and reduce surveillance workload. This small unit connects to any surveillance camera, enabling automated detection of intruders, burglars, and other threats.

The trk1 supports both analog and IP-based infrastructures. It provides detection, real-time alert notifications and on-alarm events for recording and visual verification. With browser-based configuration and out-of-the-box detection capability, the trk1 can be up and running in less than five minutes. Its robust analytic capabilities provide highly accurate and reliable detection indoors and outdoors, even in severe weather.

Supporting Power over Ethernet, the trk1 is designed and packaged for simple setup and operation. With proven video analytics that outperform conventional motion detectors and point sensors, the trk1 is a cost-effective solution that is ideal for small sites and for supplementing larger installations.

Key Features

- Fully integrated and self-contained video analysis and encoding - no additional hardware or software required
- DSP-based real-time video analysis
- High probability of detection, low false alarm rate
- Five-minute setup time
- Multiple detection rules
- Automatic actions can be triggered upon detection
- Integrated scheduler
- Hybrid video output (analog and IP streaming)
- Integrates with existing fixed analog cameras for retrofitting existing installations
- Supports B/W, color, IR and thermal cameras (PAL/NTSC)



Detection Types

- Intrusion detection:
 - Regional entrance
 - Tripwire
 - Fence trespassing
- Camera tampering detection



Specifications

Channels	
Number of Intelligent Video Analysis Channels	1
Analog Video Input	
TV Standard	Composite 1Vp-p (PAL or NTSC)
Physical Connector	1x BNC 75Ω
Analog Video Output	
TV Standard	Composite 1Vp-p (PAL or NTSC)
Physical Connector	1x BNC 75Ω
Digital Video Outputs	
IP Video Streaming	MPEG-4 SP, MJPEG (two separate, independent, configurable video streams per channel)
Maximum Resolution per Channel	CIF
Frame Rate	Up to full frame rate
Bit Rate	CBR (128Kbps – 4Mbps), VBR
Network	
Ethernet (IEEE 802.3/802.3u)	1 x Ethernet RJ45 interface
Services and Protocols	TCP/IP, UDP/IP, HTTP, SMTP, DHCP, DNS, SNMP
Video Streaming	RTP/RTSP
Alarms/Commands	TCP/IP, HTTP
I/O Interface	
Serial (RS-232/RS-485)	None
IN - Alarm Input	1x dry contact
OUT - Relay Output	1x relay output (rated load 1A @ 24VDC)
Power Source	
Voltage	12VDC
Power over Ethernet (IEEE 802.3af)	Supported
Power Consumption	5W
Physical Dimensions	
Dimensions (mm)	88 x 26 x 130 mm (W x H x D)
Dimensions (inches)	3-7/16 x 1 x 5-3/32" (W x H x D)
Mounting	Camera Housing/Shelf/Optional rack-mounting (multiple-unit accessory)
Environmental Specifications	
Operating Temperature	0° to 50°C (32° to 122°F)
Operating Humidity	5% to 95% (non-condensing)
Certifications	
Safety	UL, CE
Electromagnetic Interference (EMC)	FCC 47 CFR part 14, subpart B, Class A, CE Class A
Environmental	RoHS