



# TRK-101 Encoder with Analytics

Single-Channel Video Analytic Encoder  
with H.264 Compression

The TRK-101 is a small, self-contained video encoder that does not rely on additional components for video analysis.

The TRK-101 analyzes the captured video signal to send alarms and notify of people, vehicles and objects that cross a perimeter line, enter a pre-defined region, are left behind or are removed from a scene. Users can set customizable rules and criteria to define the perimeter and what to detect.

Part of the ioibox intelligent video encoder series, the TRK-101 features analog and IP streaming video outputs (H.264, MPEG-4 SP and MJPEG), which enable hybrid connectivity to both legacy and IP-based CCTV networks. The unit can be configured via a standard web browser and takes less than five minutes to setup.

## 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
- Unattended baggage detection
- Object removal detection
- Stopped vehicle detection
- Loitering detection
- Camera tampering detection





### Specifications

Channels											
Number of Intelligent Video Analysis Channels	1										
Analog Video Output											
TV Standard	Composite 1Vp-p – NTSC or PAL										
Physical Connector	1x BNC 75Ω										
Digital Video Output											
IP Video Streaming	H.264, MPEG-4 SP, MJPEG										
H.264 Frame Rate (PAL/NTSC)	<table border="0"> <tr> <td>D1</td> <td>4CIF</td> <td>VGA</td> <td>2CIF</td> <td>CIF</td> </tr> <tr> <td>12/15 FPS</td> <td>12/15 FPS</td> <td>18 FPS</td> <td>25/30 FPS</td> <td>25/30 FPS</td> </tr> </table>	D1	4CIF	VGA	2CIF	CIF	12/15 FPS	12/15 FPS	18 FPS	25/30 FPS	25/30 FPS
D1	4CIF	VGA	2CIF	CIF							
12/15 FPS	12/15 FPS	18 FPS	25/30 FPS	25/30 FPS							
MPEG-4 SP Frame Rate (PAL/NTSC)	Up to 25/30 FPS for all resolutions										
Bit Rate	CBR (128Kbps – 4Mbps), VBR										
Network											
Ethernet (IEEE 802.3/802.3u)	2x RJ45 interfaces										
Services and Protocols	TCP/IP, UDP/IP, HTTP, SMTP, DHCP, DNS, SNMP										
Video Streaming	RTP/RTSP										
Alarms/Commands	TCP/IP, HTTP										
I/O Interface											
IN - Alarm Input	1x dry contact										
OUT - Relay Output	1x relay output (rated load 0.3A@12VDC; 1A@30VDC; 0.25A@24VAC, 50/60Hz)										
Power Source											
Voltage	12VDC (+/-10%), 24VAC										
Power Consumption	DC: 3.6W, AC: 6W										
Physical Dimensions											
Dimensions (mm)	88 x 64.5 x 31.5 mm (W x H x D)										
Dimensions (inches)	3.46 x 2.54 x 1.24" (W x H x D)										
Mounting	Shelf/optional rack-mounting (single-unit or 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 15, Subpart B, Class A; CE Class A										
Environmental	RoHS										