



Single Channel Encoder/ Decoder

9000 Range

installation costs

A family of Video Encoders and Decoders incorporating IndigoVision's class-leading compression technology

IndigoVision's range of Single Channel Encoder/Decoder products are designed to be used with our Complete IP Video Security Solution and have class-leading H.264 compression technology built-in.

IndigoVision's Complete IP Video Security Solution allows advanced features such as Activity Controlled Framerate (ACF) and real-time analytics, available as an order option, to be deployed in the Encoders. These features reduce the bandwidth and NVR storage requirements during periods of scene inactivity and allow the user to deploy advanced analytics to identify events as they occur in real-time.

- Class-leading H.264 compression
 Optional full-duplex audio
- ☐ Full frame rate 25/30fps guaranteed
 ☐ Optional built-in real time analytics

The IndigoVision Single Channel Encoder/Decoder allows traditional analogue CCTV cameras to be integrated into an IP network to give you a complete security solution. The small form factor Single Channel Encoder/Decoder can be located close to the camera enabling flexibility in system design. Built-in Power-over-Ethernet support allows the camera to be powered directly from the network, simplifying installation and reducing costs.

The Single Channel Encoder is available as either an Encoder only or as an Encoder/Decoder providing 1 video input or output in a small footprint reducing power and cooling cost. All products have a range of digital I/O for ultra-low latency PTZ control and alarm integration.

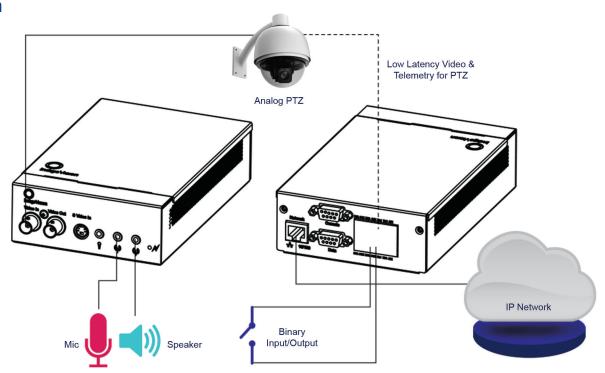
Product Codes

Single Channel Encoder/Decoder	Encoder Only		Encode	Decoder Only	
	9000S	9000E	9000S	9000E	
Standard	749116	769116	N/A	N/A	N/A
Extended Temp. 0°C to +65°C	749128	769128	N/A	N/A	N/A
Extended Temp30°C to +65°C	749130	769130	N/A	N/A	N/A
Standard with Audio	N/A	N/A	749103	769103	729103
Extended Temp. with Audio 0°C to +65°C	N/A	N/A	749126	769126	N/A
Extended Temp. with Audio -30°C to +65°C	N/A	N/A	749129	769129	N/A

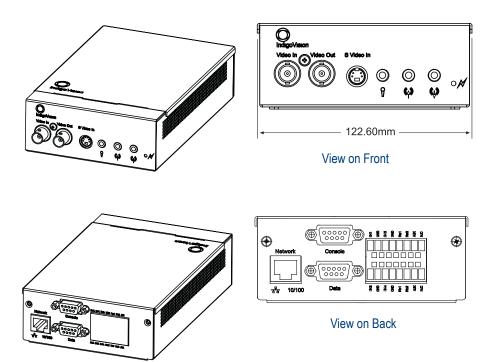
The 9000E product allows full frame rate video, at full 4SIF resolution. The 9000S product allows the camera to be recorded at full frame rate at SIF resolution, half frame rate at 2SIF and one third frame rate at 4SIF resolution.

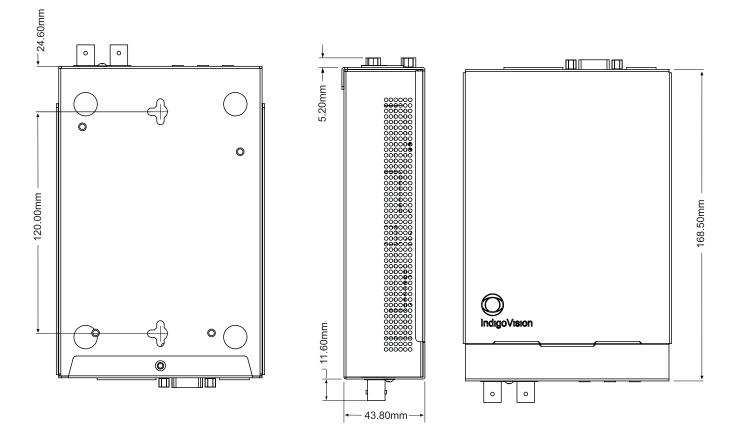
The 9000 Encoder/Decoder decodes IndigoVision H.264 and MPEG-4 video streams.

Diagram



Dimensions





View on Side

View on Top

View on Underside

Specification

General Specifications							
Video Performance	Full frame rate, full color: 25/30fps guaranteed						
Video Resolution	4SIF: 704 x 576 pixels 2SIF: 704 x 288 pixels SIF: 352 x 288 pixels (PAL) 4SIF: 704 x 480 pixels 2SIF: 704 x 240 pixels SIF: 352 x 240 pixels (NTSC)						
Video Compression	Full frame rate, full color: H.264 (ISO 14496-10); 25/30fps guaranteed						
Video Bit Rate	User-configurable bit rates from 32Kbps up to 6Mbps						
Video Multi-Encoder		Α	В	You can c	You can combine one selection from column		
	SIF	3 streams	3 streams		e selection from column B per		
	2SIF	2 streams	2 streams	video cha e.g. 2x2S	IF streams plus 3xSIF streams;		
	4SIF	1 stream	1 stream		IF stream plus 1x4SIF stream		
Video Input	NTSC/PAL video; 75 Ohms 1V p-p, standard BNC connector; S-Video						
Video Output	NTSC/PAL composite video, 75 Ohms; 1V p-p, standard BNC connector. Software decode for display to PCs						
Video Decode	Decode IndigoVision MPEG-4 and H.264 video streams						
Audio Compression*	MPEG-4 Advanced Audio Encoding at 16 Khz sample rate & 16 bit resolution						
Audio Input*	Line in 3.5mm jack. Nominal voltage: 1V p-p, 16bit, Mic 30mVp-p. Mic types: support for condensor and dynamic						
Audio Output*	Line out 3.5mm jack. 1V p-p, Minimum load impedance: 32 Ohms						
Binary Input/Output	4 opto-isolated inputs; 2 solid state relay outputs						
Data Input/Output	1 Data port: RS232/RS422/RS485 up to 115.2 Kbps; 1 Data/Console port: RS232 up to 115.2 Kbps						
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, ICMP, IGMP, SNMP, HTTP, RTP Embedded Linux firewall. Salted passwords, with MD5 encryption; Up to 16 simultaneous unicast video users plus unlimited multicast users						
Time	Embedded real-time clock, NTP client						
Dimensions	167mm (depth) x 110mm (width) x 45mm (height) and 0.6Kg (excluding power supply) / 6.58in (depth) x 4.34in (width) x 1.78in (height) and 1.323lb (excluding power supply)						
Regulatory					0 3-3 (1995) voltage fluctuation 995) Part 15 subpart B -Class A		
Electrical	Power over Ethernet (802.3af Class 0); 14/35V DC, 24V AC						
	Star	ndard	Extended Temp A		Extended Temp B		
Electrical	7	V max	8W max		8W (unit) + 30W (heater) max		
Operating Temperature		(32°F to 122°F)	0°C to 65°C (32°F to 149°F	1	-30°C to 65°C (-22°F to 149°F)		
Storage Temperature	-20°C to 70°0	C (-4°F to 158°F)	-20 $^{\circ}$ C to 70 $^{\circ}$ C (-4 $^{\circ}$ F to 158 $^{\circ}$	°F)	-30°C to 70°C (-22°F to 158°F)		
Power Supplies	Power supplies are separately orderable. Extended Temp. Option B comes with an internal heater and 24V AC/DC heater power supply included. The heater consumes 30W of power.						

^{*}Audio capability is an order option on all Encoder/Decoder modules.