



# IndigoVision

Complete IP Video Security Solutions



## Four Channel Encoder/Decoder

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

Part of IndigoVision's 9000 range, the Four Channel Encoder/Decoder delivers powerful and cost-effective migration from analogue to IndigoVision's renowned world class IP solution. With highly optimised H.264 compression and ACF+ technology, storage costs are reduced by up to 95% and video quality is greatly improved.

Completely integrated with IndigoVision's Control Center software and Network Video Recorders (NVRs), HD and Megapixel cameras can be added easily, giving the same world class IP video solution that's trusted by some of the most demanding security installations in the world.

### Key Features

PHYSICAL	<b>1U Height</b>	<b>19" Rack</b>	
	<b>DNA</b>	<b>Firewall</b>	<b>Ready</b>
	<b>ACF</b>	<b>ACF+</b>	<b>Analytics</b>
	<b>Intelligence</b>	<b>Motion Detection</b>	<b>Other</b>
<b>Compression</b>	<b>H.264</b>	<b>GUARANTEED 25fps</b>	<b>FPGA</b>
	<b>AAC</b>		

### Product Codes

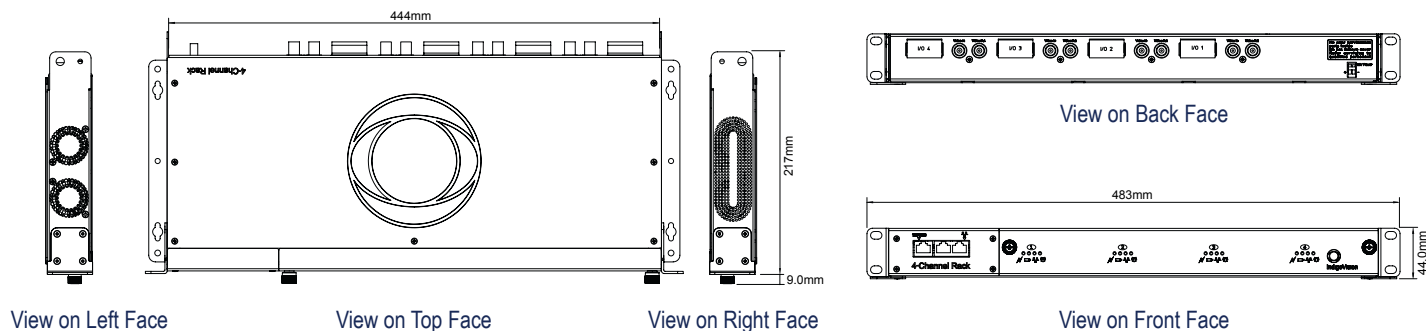
Four Channel Encoder/Decoder		9000E
Standard		769915
Standard with Audio		769914
Additional Rack Card		769102
Additional Rack Card with Audio		769101
Four Channel Decoder		9000E
Standard		729947
Standard with Audio		722947
Additional Rack Card		729117
Additional Rack Card with Audio		729107

The 9000E product allows full frame rate video, at full 4SIF resolution. For a Four Channel Encoder/Decoder Chassis with Network Card only please use order code: 980193.

For more information:



## Dimensions



## Specification

Single Channel Encoder/Decoder Card Specification	
Video Resolution	4SIF: 704 x 576 pixels 2SIF: 704 x 288 pixels SIF: 352 x 288 pixels
Video Compression	Full frame rate, full colour: H.264 (ISO14496-10); 25fps guaranteed
Video Bit Rate	User-configurable bit rates from 32Kbps up to 6Mbps per video channel
Video Multi-Streaming	Up to 32Mbps total video output per channel; Up to 4Mbps multicast video output per channel; Up to sixteen 1Mbps unicast connections per channel
Video Multi-Encoder	Up to two simultaneous resolutions with guaranteed 25fps frame rate including: 4SIF, 2SIF, SIF
Video Analytics	Standard: ACF, ACF+, Motion Detection, Hooded. Advanced: Dual Tripwire, Congestion, Counterflow, Museum
Video Decode <sup>^</sup>	Decode IndigoVision MPEG-4 and H.264 video streams
Audio Compression <sup>*</sup>	AAC-LC (ISO 144496-3)
Audio Bit Rate	User-configurable bit rates from 32Kbps to 160Kbps per channel
Audio Protocol	RTP (RFC 3640)
Audio Dual Encoder	Encoder A: 1 Stream Configuration plus Encoder B: 1 Stream Configuration
Audio Resolution	Full Duplex 16 Bit, 16kHz sample rate Mono/Stereo Input, Mono Output
Audio Input <sup>*</sup>	Line in 3.5mm jack. Nominal voltage: 1V p-p, 16bit, 16kHz sampling; Mic 30mV p-p. Mic types: support for condenser and dynamic
Audio Output <sup>*</sup>	Line out 3.5mm jack. 1V p-p, Minimum load impedance: 16 Ohms
Binary Input/Output	1 opto-isolated input, 1 solid state relay output per card
Data Input/Output	1 Data port: RS232/RS422/RS485 up to 115.2 Kbps; 1 Console port: RS232 up to 115.2 Kbps
Network Security	Embedded Linux firewall. Salted passwords, with MD5 encryption
Time	Embedded real-time clock, NTP client with battery backup
ONVIF <sup>**</sup>	Profile S
Four Channel Chassis Specification	
Video Multi-Streaming	Up to 320Mbps total video output including up to 40Mbps multicast video output
Video Input	4 PAL video; 75 Ohms 1V p-p, standard BNC connector
Video Output	PAL composite video, 75 Ohms; 1V p-p, standard BNC connector. Software decode for display to PCs
Audio Input <sup>*</sup>	4 Line in / Mic in with terminal block connector
Audio Output <sup>*</sup>	4 Line out with terminal block connector
Binary Input/Output	4 inputs; 4 outputs (1 input, 1 output per card)
Data Input/Output	4 Data ports: RS232/RS422/RS485 up to 115.2 Kbps; 4 Console ports: RS232 up to 115.2 Kbps
Network Interface	IEEE802.3 and IETF standards: 10/100/1000 Base-Tx Ethernet, TCP, UDP, RTP, ICMP, IGMP, SNMP, HTTP, HTTPS, SSH, TELNET
Dimensions/Weight	226mm (d) x 445mm (w) x 44mm (h) and 3.4Kg
Regulatory	EN 55022 (1994) ITE - Class A, EN 61000-3-2 (1995) - Class A, EN 55024 (1998) ITE immunity standard, EN 61000 3-3 (1995) voltage fluctuation, CFR47 (1995) Part 15 subpart B -Class A, Railway Standards: EN 50121-3-2: 2006, EN 50121-4: 2006, EN50155: 2007
Electrical	12V DC @ 3A; 16W typical, 18W max
Operating Temperature	0°C to 55°C
Power Supplies	Power supply included
Redundancy	Dual redundant switch ports plus third switch port for local NVR
Physical Form Factor	Rack mount chassis with four single channel Encoder/Decoder cards

<sup>\*</sup> Audio capability is an order option on all Encoder/Decoder modules.

<sup>\*\*</sup> Firmware upgrade is required for ONVIF Conformance. Specification for IndigoVision Encoder Card Only.

<sup>^</sup> Specification for IndigoVision Decoder Card Only.