



IndigoVision

Complete IP Video Security Solutions

9000 RANGE



20 Channel Encoder

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

Part of IndigoVision's 9000 range, the 20 Channel Encoder 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

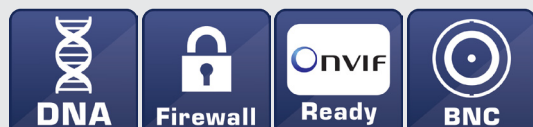
COMPRESSION



INTELLIGENCE



OTHER



PHYSICAL



Product Codes

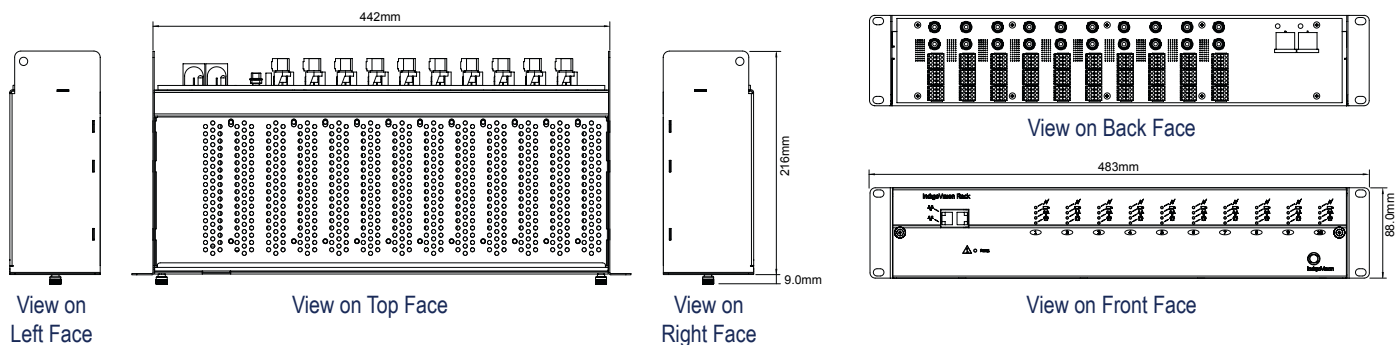
20 Channel Encoder	9000E
Standard with Audio	769916
Chassis with Network Card only	980088
Dual Channel Encoder Card with Audio	769106

The 9000E product allows full frame rate video, at full 4SIF resolution.

For more information:



Dimensions



Specification

Dual Channel Encoder 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 (ISO 14496-10); 25fps guaranteed
Video Bit Rate	User-configurable bit rates from 32Kbps up to 6Mbps per video channel
Video Multi-Streaming	Up to 16Mbps total video output per channel; Up to 2Mbps 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
Audio Compression	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 Input, Mono Output
Audio Input	2 Line in / Mic in with terminal block connector. Nominal voltage: 1V p-p, Mic 30mV p-p. Mic type: dynamic or electret
Audio Output	2 Line out with terminal block connector. 1V p-p, Minimum load impedance: 16 Ohms
Binary Input/Output	2 opto-isolated input, 2 solid state relay output per card
Data Input/Output	1 Data port: RS422/RS485 up to 115.2 Kbps; 1 Data/Console port: RS232 up to 115.2 Kbps
Network Security	Embedded Linux firewall
Time	Embedded real-time clock, NTP client with battery backup
ONVIF**	ONVIF Ready
20 Channel Chassis Specification	
Video Multi-Streaming	Up to 320Mbps total video output including up to 40Mbps multicast video output
Video Input	20 PAL video; 75 Ohms 1V p-p, standard BNC connector
Audio Input	20 Line in / Mic in with terminal block connector
Audio Output	20 Line out with terminal block connector
Binary Input/Output	20 inputs; 20 outputs (2 input, 2 output per card)
Data Input/Output	10 Data port: RS422/RS485 up to 115.2 Kbps; 10 Data/Console port: RS232 up to 115.2 Kbps
Network Interface	IEEE802.3 and IETF standards: 10/100/1000 Base-T Ethernet, TCP, UDP, RTP, ICMP, IGMP, SNMP, HTTP, HTTPS, SSH, TELNET
Dimensions/Weight	216mm (d)x 483mm (w) x 88mm (h) and 3.6Kg
Regulatory	EN 55022 (2010) – Class A, EN 55024 (1998) +A1:2000 +A2:2003, CFR47(2011) Part 15 subpart B - Class A (US federal code of regulations), EN 60068-2-1 & 2 Low & High temp, EN 60068-2-6 & 64 Sinusoid & Random vibration, EN 60068-2-29 Bump, EN 60068-2-30 Humidity up to 95% Non Condensing
Electrical	3.5V DC @ 11A; 30W typical, 35W max
Operating Temperature	0°C to 50°C
Power Supplies	Power supply included, redundant power supply ordered separately (Product code: 110003)
Redundancy	Dual redundant power connectors, Dual redundant ethernet switch ports
Physical Form Factor	Rack mount chassis with 10 dual channel Encoder cards

* Advanced Video Analytics require a licence.

** Firmware upgrade is required for ONVIF Conformance.