IP Video Transmitters & Receivers

A family of IP Video Transmitters and Receivers incorporating IndigoVision's class-leading compression technology

IndigoVision's range of Transmitter and Receiver modules are designed to be used with the company's complete end-to-end IP Video solution and have class-leading MPEG-4 or H.264 compression technology built-in.

The units allow traditional analog CCTV cameras and video monitors to be integrated into an IP network. The standalone unit is available as either a Transmitter only or as a Transmitter/Receiver. The 10-Channel and 4-Channel Racks can take any combination of Receiver or Transmitter cards. Two levels of compression technology are available - the 9000 Series provides H.264 and the 8000 Series provides MPEG-4.

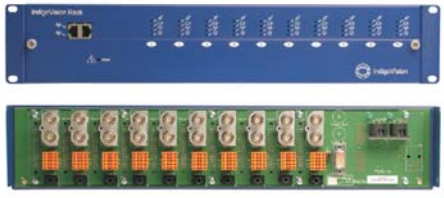
Full duplex audio is available as an oder option on all Transmitter/Receiver modules.

All modules have a range of digital I/O for PTZ control and alarm integration.

IndigoVision's IP Video solution allows advanced features such as Activity Controlled Framerate (ACF) and real-time analytics, available as an order option, to be deployed in the Transmitters. 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.

- Standalone or rack mounted versions
- Class-leading MPEG-4 or H.264 compression
- Full frame rate, full colour, 25/30fps guaranteed
- Optional full duplex audio
- Optional built-in real time analytics

Standalone Transmitter/Receiver



10-Channel Rack

4-Channel Rack

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Datasheet

Specification

Common Features	
Video Performance	Full frame rate, full color: 25/30fps **guaranteed**
9000 Series	H.264 (ISO14496-10) video compression
8000 Series	MPEG-4 (ISO14496-2) video compression
Audio Compression*	MPEG-4 Advanced Audio Encoding at 16 Khz sample rate & 16 bit resolution
Video Bit Rate	User-configurable bit rates from 32Kbps up to 4Mbps
Resolution	SIF: 352 x 288 pixels (PAL) 2SIF: 704 x 288 pixels (PAL) 4SIF: 704 x 576 pixels (PAL) 352 x 240 pixels (NTSC) 704 x 240 pixels (NTSC) 704 x 480 pixels (NTSC)
9000 Multi-streaming	**A** **B** **4SIF** 1 stream 1 stream **2SIF** 2 streams 2 streams **SIF** 3 streams 3 streams You can combine one selection from column A plus one selection from column B: e.g. 2x2SIF streams plus 3xSIF streams e.g. 1x4SIF stream plus 1x4SIF stream
8000 Multi-streaming	SIF: 3 streams; 2SIF: 2 streams; 4SIF: 1 stream
Video Output	NTSC/PAL composite video, 75 Ohms; 1V p-p, standard BNC connector. Software decode for display to PCs
Audio Input*	Line in 3.5mm jack. Nominal voltage: 1V p-p, 16bit, 16kHz sampling; 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
Network Interface	TCP, UDP, ICMP, IGMP, SNMP, HTTP; Embedded Linux firewall; Up to 16 simultaneous unicast video users plus unlimited multicast users
Video Bit Rate	User-configurable bit rates from 32Kbps up to 4Mbps
Time	Embedded real-time clock, NTP client
Onboard Diagnostics	Serial; network; video; events
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

Standalone Transmitter & Transmitter/Receiver	
Binary Input/Output	4 opto-isolated inputs; 2 solid state relay outputs
Dimensions	167 x 110 x 45 mm, 0.6Kg (excluding power supply)
Electrical	Operating voltage: Power over Ethernet (802.3AF - Class 0); 24V AC/DC @ 0.25A; Power consumption: 5W (typical) 6W (max); Power supply separately orderable
Ethernet	IEEE802.3 and IETF: 10/100 Base-T Ethernet
Video Input	NTSC/PAL video; 75 Ohms 1V p-p, standard BNC connector; S-Video
Data Input/Output	1 Data port: RS232/RS422/RS485 up to 115.2 Kbps; 1 Data/Console port: RS232 up to 115.2 Kbps
Environmental	Operating temp.: 0 to +50°C/+32 to +122°F; Storage temp.: -20 to +70°C/-4 to +158°F; Extended Temp. Option A: 0 to +65°C/+32 to +149°F; Option B: -30 to +65°C/-22 to +149°F

Racks	10-Channel	4-Channel
Binary Input/Output	10 opto-isolated inputs; 10 solid state relay outputs	4 opto-isolated inputs; 4 solid state relay outputs
Dimensions	88 x 218 x 483 mm; 3.6Kg	44 x 226 x 445 mm; 3.4Kg
Electrical	Operating voltage: 3.3V DC @ 20A; Power consumption: 55W (typical) 66W (max); Dual redundant power connectors	Operating voltage: 12V DC @ 3A; Power consumption: 30W (typical) 36W (max);
Ethernet	10/100/1000 Base-T Ethernet; Dual redundant switch ports	10/100/1000 Base-T Ethernet; Dual redundant switch ports plus third switch port for local NVR
Video Input	NTSC/PAL video; 75 Ohms 1V p-p, standard BNC connector	NTSC/PAL video; 75 Ohms 1V p-p, standard BNC connector
Data Input/Output	10 Data ports: RS232/RS422/RS485 up to 115.2 Kbps 1 Console port: RS232 up to 115.2 Kbps	4 Data ports: RS232/RS422/RS485 up to 115.2 Kbps; 4 Console ports: RS232 up to 115.2 Kbps
Environmental	Operating temp.: 0 to +50°C/+32 to +122°F Storage temp.: -20 to +70°C/-4 to +158°F	Operating temp.: 0 to +55°C/+32 to +131°F Storage temp.: -20 to +70°C/-4 to +158°F

* Audio capability is an order option on all Transmitter/Receiver modules.

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