

IndigoVision Complete IP Video Solutions

IndigoVision Transmitters/Receivers

IndigoVision transmitters and receivers form part of a complete IP Video solution

6000 1-input Transmitter/Receiver

- MPEG-4-based codec ensures smooth migration from analog to digital technology: converts existing analog-based CCTV to digital remote monitoring systems without equipment obsolescence.
- Lower cabling cost: the same CAT5 UTP cable is used for real-time video, two-way audio, management of PTZ functions and binary I/O alarm triggers.
- Unlimited viewing: multicasting allows limitless numbers of users to access video and audio streams using the same bandwidth as a single user.
- Removes geographical barriers: enables co-ordinated remote monitoring and communication across multiple locations using standard network interfaces including LANs, WANs, wireless networks and internet communication links.
- Ensures the correct video quality for each application: configurable bandwidths from 32Kbps to 1Mbps provide the choice of constant video quality or capped bandwidth utilization.

Video Compression

- Full frame rate, full color: ITU-standard MPEG-4-based: Up to 30fps at SIF resolution

Audio Compression

- G.728

Video Bit Rate

- User-configurable bit rates from 32Kbps up to 1Mbps

Resolution

- PAL SIF: 352 x 288 pixels
- NTSC SIF: 352 x 240 pixels

Data Input/Output

- Serial 1: Selectable EIA-574 RS232 or EIA-422 RS422 115.2Kbps
- Serial 2: RS232 Console Port

Binary Input/Output

- Two opto-isolated inputs
Current: 10mA (min), 20mA (max)

- One solid state relay output. Maximum load: 50Vdc @100mA

Network Interface

- IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, ICMP, IGMP

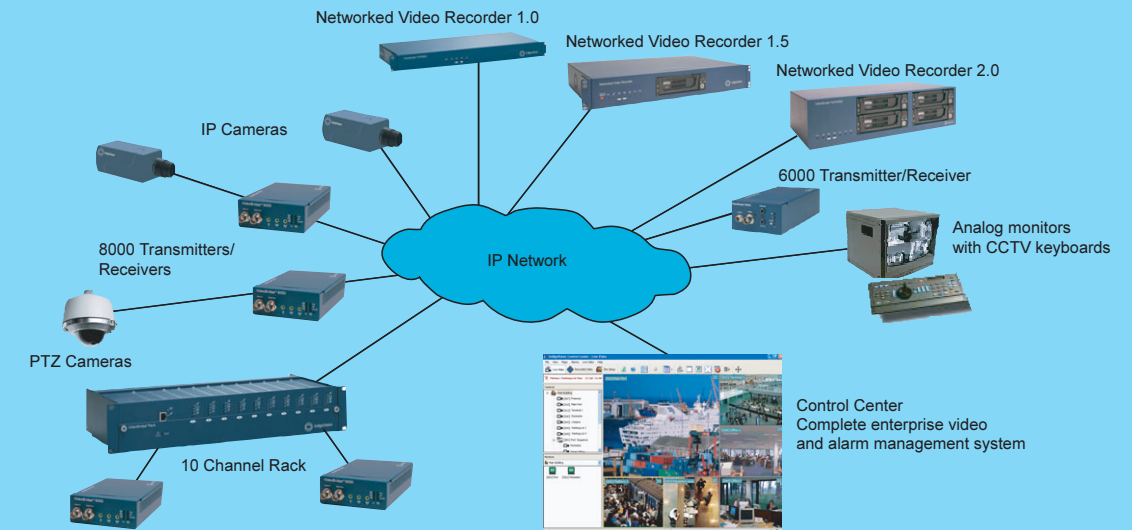
Dimensions

- 167mm x 80mm x 45mm, 0.5Kg (excluding power supply)

10 Channel Rack

Starting from just one rack assembly, the 10 Channel Rack can scale from an entry level solution right up to accepting hundreds of cameras. In addition, other functionality can be integrated at any time. These extra functions include PTZ, audio, event and video management.

- **Future proof:** upgrade existing analog systems and infrastructure to an IP-based solution. Other modular IP-based products and services can then be added, thus protecting current and future investment.
- **Ease of installation and configuration:** each Rack is shipped in a 2U 19" rack format and includes setup software.
- **Individual cards:** the Rack's backplane design allows each video transmitter/receiver to be hot-swapped. This makes service, maintenance and capacity upgrades easier.
- **Additional systems:** the Rack is fully interoperable with IndigoVision's other market-leading products.
- **Interface to existing equipment:** the programmable serial channels and binary I/O interfaces can be used to monitor and control third party products including PTZ, multiplexor and matrix systems.
- **Ultimate solution:** contains transmitter, receiver and configuration software.
- **Supports industry standards:** PAL/NTSC video input or output together with bi-directional full duplex audio, alarm (binary I/O) and RS232/RS422 serial comms.
- **Unique application for each video stream:** each of the ten channels housed within the Rack can be customized. Bandwidth, frame rate and video quality can be individually tailored to meet your needs.



IndigoVision transmitters/receivers form part of IndigoVision's complete IP Video product suite. This suite also includes a comprehensive range of Networked Video Recorders (NVRs) and Control Center Enterprise IP video and alarm management software.



8000 1-input Transmitter/Receiver



6000 1-input Transmitter/Receiver

The 8000 1-input transmitter/receiver supports one camera or one monitor. This next generation MPEG-4 technology offers analog quality at a choice of resolutions for the most demanding applications such as surveillance, identification and high speed movement.

The 6000 1-input transmitter/receiver supports one camera or one monitor and is supplied as a single source solution for the transmission, reception, encoding and decoding of video, audio and data over IP networks.



10 Channel Rack

The 10 Channel Rack allows up to 10 analog cameras or 10 analog monitors (or a combination of these) to be connected and accessed by other products in the IndigoVision range. These include Control Center, the Windows Networked Video Recorder software and Standalone NVRs. This modular software can be added at any stage during the system's lifetime.

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8000 1-input Transmitter/Receiver

Transmitters and receivers are used in conjunction with other IndigoVision products including Control Center, the 8000 Windows NVR Software and Standalone NVRs.

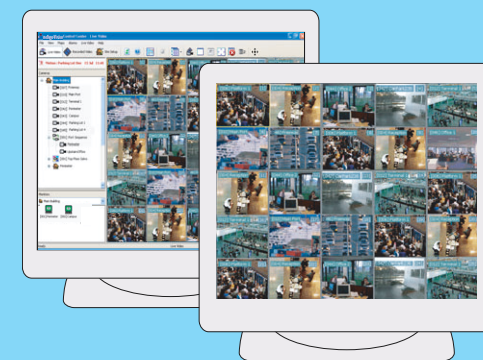
- Exceptional video and audio quality: 8000 1-input transmitters introduce high quality and high compression MPEG-4 video and audio to CCTV applications.
- High Resolution / High Frame Rate Video: 8000 1-input transmitters **guarantee** 25/30 frames per second at any resolution or bit rate including SIF, 2SIF and 4SIF resolutions.
- MPEG-4 Advanced Audio Coding (AAC) brings new levels of fidelity and frequency response to CCTV applications.
- IndigoVision technology ensures smooth migration from analog to digital technology: converts existing analog-based CCTV to digital remote monitoring systems simply and cost-effectively without equipment obsolescence.
- The same CAT5 UTP cable is used for real-time video, two-way audio, management of PTZ functions and binary I/O alarm triggers.
- Multicast technology allows limitless numbers of users to access video and audio streams using the same bandwidth as one user.
- IP-based video removes geographical barriers thus enabling co-ordinated remote monitoring and communication across multiple locations using standard network interfaces including LANs, WANs, wireless networks and internet communication links.
- Network security: 8000 1-input transmitters / receivers have a built-in firewall which can be configured to restrict communication to specific users.
- Synchronized clocks: use of the Network Time Protocol (NTP) allows for central maintenance and synchronization of real-time clocks inside IndigoVision 8000 devices.
- Web administration: all administrator settings can be configured through a built-in, password-protected web interface.



8000 1-input Transmitter/Receiver: supports one camera or one monitor

Activity Controlled Frame Rate

This is a powerful feature, unique to IndigoVision's MPEG-4 products. When enabled, the unit constantly monitors the amount of motion between frames. When there is no motion in the scene, the frame rate is reduced to one frame per second. When motion occurs, the frame rate is increased to the maximum specified by the user. This can reduce data rates by up to 50-fold, which increases the amount of video which can be stored on an NVR.



IndigoVision's Control Center displaying 50 video panes

Motion Detection

- User-configurable object size
 - Size-based detection
 - Direction-based detection
 - Museum mode
- Motion detection is carried out by the transmission unit itself. Sensitivity, region of interest and object size can all be selected using the Motion Detection Configuration web page.
- Offers significant reductions in false alarm rates, as it can be configured to ignore environmental light changes, rain and snow, foxes, cats, moving trees, etc.
 - Offers motion detection at source, no need to stream until motion is detected.
 - Easy configuration, with a user-friendly web page.

Product Specifications

Video Compression

- Full frame rate, full color: MPEG-4 (ISO 14496-2): 25/30fps **guaranteed**

Audio Compression

- MPEG-4 Advanced Audio Encoding at 16 KHz sample rate and 16 bit resolution

Video Bit Rate

- User-configurable bit rates from 32Kbps up to 4Mbps

Resolution

- SIF: 352 x 288 pixels (PAL)
352 x 240 pixels (NTSC)
- 2SIF: 704 x 288 pixels (PAL)
704 x 240 pixels (NTSC)
- 4SIF: 704 x 576 pixels (PAL)
704 x 480 pixels (NTSC)

Multi-streaming

- SIF: 3 streams
- 2SIF: 2 streams
- 4SIF: 1 stream

Video Input

- NTSC/PAL video, 75 Ohms 1V p-p, standard BNC connector

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 condenser and dynamic

Audio Output

- Line out 3.5mm jack. 1V p-p, Minimum load impedance: 32 Ohms

Data Input/Output

- Data port: RS232/RS422/RS485 channel up to 115.2 Kbps
- Console port: RS232 channel up to 115.2 Kbps

Binary Input/Output

- Four opto-isolated inputs
- Two solid state relay outputs

Network Interface

- IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, ICMP, IGMP, SNMP, HTTP
- Embedded Linux firewall
- Up to 17 simultaneous unicast video users or unlimited multicast users

Time

- Embedded real-time clock

Dimensions

- 167(l) x 110(w) x 45(d) mm, 0.6Kg (excluding power supply)

Onboard Diagnostics

- Serial
- Network
- Video
- Events

Electrical

- Operating voltage: 5V DC @ 1.2A
- Power consumption: 5W (typical) 6W (max)

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
- Extended temp. Option B: -30 to +50°C/-22 to +122°F

Regulatory

- EN 55022(1994) ITE - Class B
- 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 B



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