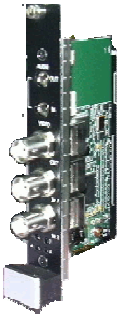
the i-Volution 5210-E
Dual Video Standalone Encoder

The 5210-E is a compact, two (2)-channel intelligent video server employing H.264 and MPEG-4 video compression with advanced video analytics from the leading vendors. As a standalone leading Edge Solution or part of a multi-blade rack-mounted 19 inch 4U system, the 5210-E transforms standard analog video surveillance cameras into proactive sentinels that deliver reliable high performance video streaming and content analysis. This video server is equipped with PTZ control, TTL inputs and relay outputs and is available in two build configurations, industrial (-ET) or commercial grade (-E).



Applications

- Security Surveillance
  - Airports
  - Seaports
  - Military
  - Industrial Complexes
  - Unattended Sites
- Transportation
  - City Intersection Monitoring
  - Highways
  - Rail/Metro/Subway

Features

- Extended temperature range
- Standalone and Rack mount versions
- Dual video channel
- Multi-streaming
- Optional ObjectVideo® OnBoard® video analytics
- Up to full D1, 25/30 fps per stream
- Stereo Bi-Directional Audio
- Contact Sense / Contact Closure

High Resolution - Full Motion – Advanced Compression

The 5210-E provides high quality digitized video over standard IP Ethernet networks using MPEG-4 or H.264. Every image is encoded in real-time and transmitted up to 25/30 (PAL/NTSC) frames per second. This provides full motion quality video for digital video surveillance applications using one of the most the most powerful video compression schemes available today.

Multi-Streaming and Optional Protocols

The 5210-E multi- streams assuring that a high quality video can be streamed to large monitors for optimal viewing while another stream is encoded at lower frame rate and resolution for lower bandwidth applications such as recording, wireless or Internet Streaming. Optionally, the i5210 can stream H.264 or MPEG-4 video.

Dual Video Streams, Data, and Audio

The 5210 encodes two video inputs up to full resolution and full frame rate (i.e. up to DVD quality). The card is also equipped with RS232 and RS422/485 serial port and bi-directional audio.

Optional OnBoard® Video Analytics

Optional OnBoard® module with powerful industry leading ObjectVideo® analytics with configurable detection zones and tripwires. Implement object detection and tracking with response control manager for start/stop streaming, TTL Output, and markup of JPEG images.

Network Managed

The 5210-E can be managed locally or remotely using the integral WEB Browser interface (HTTP) device manager.

Extended Temperature Range

The 5210-ET is designed to provide high availability. This industrial unit is environmentally rugged for operating over extended temperature ranges and is conformal coated to ensure maintenance free operation.

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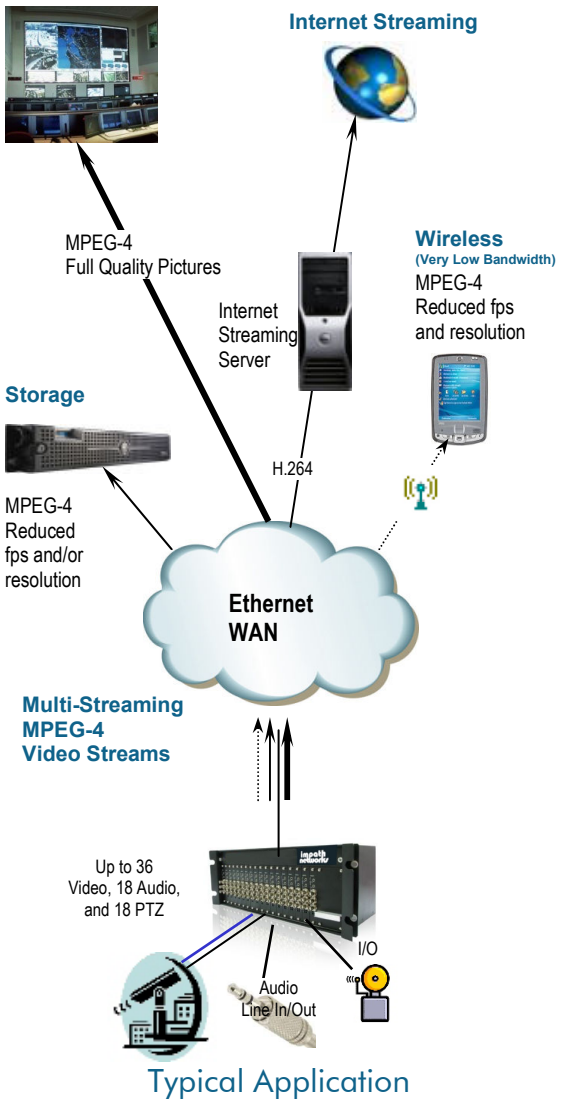

Typical Application

Model	Features
5210-E-C	H.264 + MPEG-4 + MJPEG card
5210-ET-C	H.264 + MPEG-4 + MJPEG card (Ext. temp)
5210-E-S	H.264 + MPEG-4 + MJPEG standalone
5210-ET-S	H.264 +MPEG-4 + MJPEG standalone (Ext. temp)
5000-RM	4U Card Cage for 5210 cards

Video

Protocol	MPEG-4(SP), and MJPEG ITU H.264 (ISO MPEG-4 AVC Baseline)
Resolution (D1/2CIF/CIF/QCIF)	NTSC 720x480, 704x240, 352x240, 176x120 PAL 720x576, 704x288, 352x288, 176x144
Frame rate/Bit Rate	Constant and Variable to 30/25 fps 30kbps to 6Mbps
Multi-Stream	Multi- Streaming up to D1, 30/25fps
Network Connections	User Configurable Unicast and Multicast
Video Input	2 x Composite Video, 1.0Vp-p, 75 ohm, via BNC
Video Output	1 x Composite Video, 1.0Vp-p, 75 ohm, via BNC

Network Interface

LAN Interface	IEEE 802.3 Ethernet RJ-45, 10/100Base-T, Auto-Sensing
Protocols	TCP, UDP, IPv4, IGMPv2, RTP, RTSP, NTP/SNTP

Serial Data

Format	Serial, Asynchronous
Connectors	1 Ports via DB9
Interface Protocol	RS232 and RS422/485
Data Rate	300bps to 115kbps

Audio

Interfaces	Line In/Out via 3.5mm mini-jacks
Audio Standard	G.711, MP1/2 L2, MP3 selectable
Mode	Bi-Directional Single Stereo or Dual Mono

I/O

4x TTL IN / 4 x Relay Out via TB

Time Synchronization

NTP/SNTP

On-Board Analytics

(Optional)

Video Analytics Events and Response Handling	Multi-rule detection with response control manager for start/stop streaming, TTL Output, and markup of JPEG images.

Management

Factory Reset	External Reset Button
Local Status	LED Status Display
Console	Local via serial port
Web Browser	Microsoft IE ver. 6.0 or higher
Security	User Name & Password
Firmware Upgrade	Remote Flash Upload

Environmental

Operating Temperature	Industrial-40 to +85ºC (-40 to +185ºF) Commercial 0 to +50ºC (32 to +122ºF)
Relative Humidity	5% to 95% Non-Condensing
RoHS Compliance	EU Directive 20002/95/EC

Power Requirements

Input Voltage	5 to 12 VDC / Approx 15W (Max)

Physical

Dimensions (WxHxD)	S - 10.8 x 4.17 x 16.65 cm (4.25" x 1.64" x 6.55") C -10.0 x 3.9 x 16.0 cm (3.93" x 1.5" x 6.29")
Weight	Approx. 0.3 Kg (10.6 oz)

Regulatory Approvals

Emissions - EU	EN55022:1998 Class A, EN6100-3-2:1995 & EN6100-3-3:1995
North America	FCC47 CFR Part 15, Subpart B:1999 Class A
Australia/NZ	AS/NZS 3548:1995 Class A
Immunity	EN55024

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