

the i-Volution VSG5820-E SA Multi-Protocol Centralized Video Encoder

The i-Volution VSG5820-E SA Encoder supports H.264, MPEG-4, and MJPEG video compression along with serial data for streaming digital media over the network. The compressed video is delivered over a TCP/IP network via standard streaming protocols such as RTP/RTSP. Each input video can be streamed at D1 or encoded at different quality levels for recording and for live view.



Applications

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

Features

- Compact Enclosure
- 8 video and data channels
- Full D1 on each video
- Multi-Protocol support
- Multi-Streaming
- Extended temperature

High Resolution - Full Motion – Advanced Compression

The VSG5820-E SA (i.e. Standalone Encoder) provides high quality digitized video over standard IP Ethernet networks using H.264, MPEG-4 or MJPEG. Every image is encoded in real-time and transmitted up to 25/30 (PAL/NTSC) frames per second at D1 resolution. This provides full motion quality video for digital video surveillance applications using one of the most powerful video compression schemes available today.

VSG5000 System Compatible

The VSG5820-E SA is an integral part of the VSG5000 system and offers a convenient low cost solution for applications requiring up to 8 discrete videos. The VSG5820-E SA has the same management and encoding features as the VSG5000-E encoder card and interoperates with the VSG5000-D decoder.

High Density Compact Design

The compact VSG5820-E SA standalone encoder supports up to 8 video / 8 serial data channels digitizing & compressing video for transport over a standards-based IP network.

Multi-Protocol Support

The VSG5820-E SA supports multiple protocols including advanced H.264 and MPEG-4 and future optional MPEG-2.

Scalable H.264 Video

The VSG5820-E SA supports H.264, currently recognized as the most scalable compression available and capable of supporting video over a wide range of bandwidths from as low as 128kbps to full quality/full motion video at up to 4Mbps.

Multi- Streaming

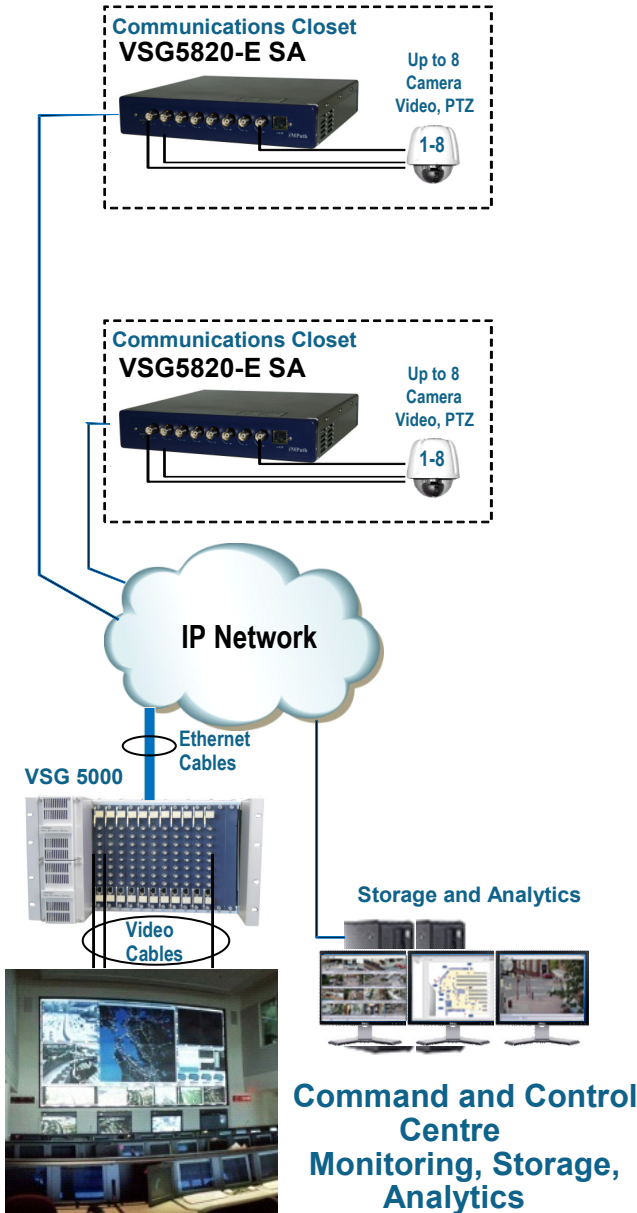
The VSG5820-E SA supports multi-streaming up to full D1 on each of its 8 channels. Full resolution video can be streamed to monitors for viewing high quality video while other streams are encoded at lower frame rate for servicing lower bandwidth applications such as recording, Internet Streaming and/or wireless.

Remote Management

The encoder and decoder modules can be managed locally or remotely via WEB Browser interface (HTTP).

i-Volution VSG5820-E SA Application

Video and Data Via VSG5820-E SA Multi-Protocol/Multi-Channel Encoder



Typical Application

Video

Compression Resolution	ITU H.264, MPEG-4, MJPEG and optional MPEG-2 D1, 4CIF, 2CIF, CIF, QCIF NTSC 720x480, 352x480, 352,240, 176x144 PAL 720x576, 325x576, 352x288, 176x144
Bit Rate	Constant and Variable, configurable 128kbps to 4Mbps (128kbps to 6Mbps MPEG-2)
Image Frame Rate	1 to 25/30 fps
Multi-Stream	Multi-Streaming up to D1, 25/30 fps
Network Connections	User Configurable Unicast and Multicast
Video Input	Composite Video, 1.0Vp-p, 75 ohm, 8 (eight) BNC Connectors Selectable On/Off
De-Interlace	

Serial Data

Format	Serial Asynchronous
Interface Protocol	RS232 and RS422/485 2W/4W
Data Rate	1200bps to 115kbps
Connectors	8 x RJ45

Audio (future)

Mode	Bi-Directional Mono
Encoding	G.711
Connectors	TBD

Management

Local Status	LED Status Display, Video and Link Status
Web Browser	Microsoft IE ver. 6.0 or higher
Security	Multi-level - User Name & Password
Firmware Maintenance	Remote Flash Upload via Supplied Utility
Alarms	Video notification via TCP, Multicast, HTTP

Live View / PTZ View

(*Via future interface card and video card)

Built-In viewing with PTZ control for common PTZ incl. Pelco and Vicon
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Environmental

Operating Temperature	-10 to +60C (14 to +140F)
Relative Humidity	5% to 95% Non-Condensing
RoHS Compliance	EU Directive 2002/95/EC

Power Requirements

Input Voltage	90 to 264 VAC
Power	Approx. 30W
Redundant PSU	Optional

Physical

Dimensions (WxHxD)	W 9.1" x H 1.72" L 9.1" (23.1 x 4.37 x 23.1)
Weight	Chassis and PSU Approx. 1.8Kg (4lbs)

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

Model	Features
VSG5820-E SA	Standalone 8 Video, 8 Data H264/MPEG4/MJPEG encoder , future optional H264/MPEG2/MJPEG

* MPEG-2, DIO and audio planned for future.

Command and Control Centre Monitoring, Storage, Analytics

Impath Networks Canada Corporation 42 Payzant Avenue, Suite 100, Halifax, NS Canada B3B 1Z6
T: 902-468-1010 F: 902-468-1044 impathnetworks.com



Impath Networks Ltd. 9 Camelot Drive, Suite 100, Ottawa, ON Canada K2G 5W6
T: 613-226-4000 F: 613-226-4602 impathnetworks.com

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