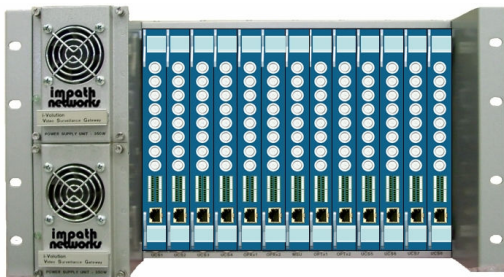


the i-Volution VSG 5000-E and VSG 5000-D Multi-Protocol Video Encoder and Decoder for VSG 5000 System

The i-Volution VSG 5000-E and VSG 5000-D are encoder and decoder modules for the VSG 5000 system. The VSG 5000-E is a multi-channel / multi-protocol video encoder module and the VSG 5000-D complements the encoder as a multi-channel / multi-protocol decoder module. The modules each occupy a single slot in the VSG 5000 for supporting up to 104 video channels in a fully equipped VSG 5000. This solution provides one of the highest density concentrators available on the market with up to 104 video channels each supporting up to D1 video quality.



Applications

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

Features

- Extended temperature range
- Triple H.264 streaming
- Up to full D1, 25/30 fps
- Constant and Variable frame rate
- Contact Sense / Contact Closure
- Multi-Protocol support
- Bi-Directional audio
- Unrestricted combinations of VSG 5000-E and VSG 5000-D within the VSG 5000 chassis

High Resolution - Full Motion – Advanced Compression

The VSG 5000-E (encoder) and VSG 5000-D (decoder) modules provide high quality digitized video over standard IP Ethernet networks using H.264, MPEG-2 or MPEG-4. 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 powerful video compression schemes available today.

Scalable H.264 Video

The VSG 5000-E uses 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 32kbps to full quality/full motion video at 2Mbps.

Triple Encoding H.264 Streaming

The VSG 5100-E supports triple 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 second and third streams can be encoded at lower frame rate for servicing lower bandwidth applications such as recording, Internet Streaming and/or wireless.

Extended Temperature Range

The VSG 5100 modules are designed to provide high availability with environmentally rugged rating for operating over extended temperature ranges from -20C to +60C.

High Density

Within a compact 7RU VSG 5000 chassis, up to 104 video / 104 serial data / 13 audio channels can be digitized & compressed using H.264, MPEG-4 or MPEG-2 for transport over a standards-based IP network.

Reliability

The VSG 5000 modules operate independently. Network interface and management functions are self-contained in each module relying on no other common modules. This architecture results in one of the most reliable video concentrator systems available.

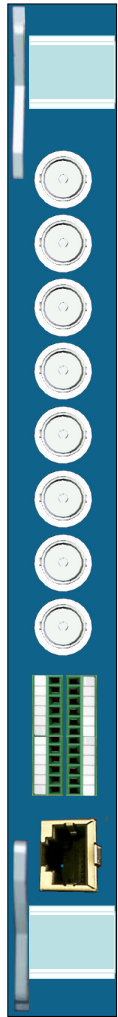
Remote Management

The VSG 5000 modules can be managed locally or remotely using Telnet, WEB Browser interface (HTTP) and/or via 3rd Party SNMP network management systems.

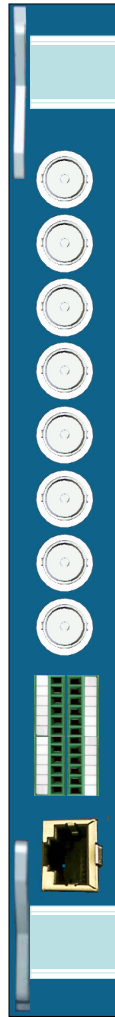
i-Volution

VSG 5000-E and -D

Multi-Protocol Encoder and Decoder



VSG 5000-E



VSG 5000-D

Video

Compression ITU H.264, MPEG-4, MPEG-2 and MJPEG
 Resolution Full (4CIF), 2CIF, CIF, QCIF
 NTSC 720x480, 352x480, 352,240, 176x144
 PAL 720x576, 325x576, 352x288, 176x144
 Bit Rate 32kbps to 2Mbps (128kbps to 6Mbps MPEG-2)
 Image Frame Rate Constant and Variable 1 to 25/30 fps
 Multi-Stream Triple H.264 Encoding up to D1, 25/30 fps
 Network Connections User Configurable Unicast and Multicast
 Video Input Eight Composite Video, 1.0Vp-p, 75 ohm, via BNC Connector

Network Interface

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

Serial Data

Format Serial, Asynchronous
 Interface Protocol RS232/RS422/485
 Data Rate 300bps to 115kbps
 Connectors 8 Ports via Terminal Block

Audio

Mode Bi-Directional
 Encoding Ogg Vorbis
 Connectors 1 Ports via Terminal Block

Contact Sense & Closure

Contact In / Out 1 x TTL IN / 1 x Relay Out via Terminal Block

Management

Local Status LED Status Display
 Web Browser Microsoft IE ver. 6.0 or higher
 Security Admin configured User Name & Password login

Environmental

Operating Temperature -20 to +60C (-5 to +130F)
 Relative Humidity 5% to 95% Non-Condensing
 Protection EU Directive 20002/95/EC
 RoHS Compliance

Power Requirements

Power Consumption Approx. 15W

Physical

Dimensions Single Slot within VSG 5000 chassis
 Weight Approx. 0.6 Kg (1.32 lbs)

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 |
|------------|--|
| VSG 5000 | 13 Slot Chassis for VSG 5000 encoder and decoder |
| VSG 5000-E | 8 Video/8 Data/1 Audio Single Slot Encoder |
| VSG 5000-D | 8 Video/8 Data/1 Audio Single Slot Decoder |

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