

FirstView® Encoder/Server-DVR

VIDEO ENCODER, SERVER AND DIGITAL VIDEO RECORDER SYSTEM



Feature Highlights

- **Features of Encoder/Server System plus built-in DVR**
- **Record from any local or IP-enabled video source**
- **Variety of video storage options for on-or-off site recording (DAS/NAS/SAN)**
- **Streaming playback using Windows Media Player™**
- **Video motion detection and event management system**
- **Supports 3rd party video intelligence modules**
- **Secure using SSL with AES encryption**

FirstView® ES-DVR is an industrial network video encoder, server system and video recorder system. Smiths Detection's real-time PTZ camera control and video systems deliver high quality images over IP – live, event-based or on-demand.

The ES-DVR provides a secure, decentralized platform for user, camera, sensor, recording and network management through a simple and intuitive browser-based interface. View, control and manage all network devices on standard PCs and laptops, even handheld PCs.

Technical Data **FirstView® Encoder/Server DVR**

Additional Features

- 8 video channels per server
- Industrial rackmount or compact units
- Hierarchical Interoperable Visual Communications System™
- Digital video compression, recording & playback – high-quality Motion-JPEG or MPEG-4
- Low-latency video distribution and camera controls with variable speed PTZ of robotic camera systems
- Recording at 30fps per channel!
- PTZ Camera control supports most CCTV, industrial, broadcast cameras and robotics - 45+ protocols supported
- Access camera higher level functions and menus, set presets, tours and scans
- Secure access through standard web browsers - no downloads or plug-ins required
- Supports 200 simultaneous users (clients)

Chassis Specifications

Chassis Type	2U Rack
Material	Heavy-duty cold-rolled steel
Enclosure Color	Black
Dimensions (WxDxH)	19"x27"x3.5"
Power Supply	RD 460W
Built-in SCA Bays	6x Hot Swap
Regular 5.25" Bays	1
Regular External 3.5" Bays	1
Motherboard I/O Expansion Slots	Up to 7
2U Riser	PCIX PCIE
Intrusion Switch	No
Front Ports	N/A
LEDs	Power/HD
Cooling System	6x Fan

Motherboard Specifications

Server Board	Intel Entry SE7230NH1-E
CPU	Pentium Dual Core PD-840, 3.2Ghz, 2 X 1MB L2 Cache, 800MHZ FSB
Chipset	Intel E7230 chipset
RAM	2 X Dataram 1GB DDRII 533 ECC
Parallel ATA	Single-channel ATA 100
Serial ATA	Four SATA II (3 Gbps) connectors
RAID Support in BIOS	RAID 0, 1, and 10 for SATA disks
Video	ATI ES1000 graphics controller
Ethernet	Intel 82573E and 8254PI Gb, 1000BASE-T; two RJ45 connectors
PCI	6 independent bus segments
IDE	Single-channel EIDE
USB	two external, one internal USB header with two ports
Serial	one external 9-pin connector
Keyboard/Mouse	Two external PS/2 ports, 8240A-compatible
Operating Temperature	10°C to 35°C
Non-operating/storage	-40°C to +70°C ambient
Relative Humidity	Non-operating: 95%, non-condense at 30°C
Safety/EMC Regulatory Compliance	Class A

Drive Specifications

Standard HDD	1 x Seagate 80GB SATA
Optical Drive	1 x Sony DVD-RW
Server Software	Windows Standard Server 2003®

Video Specifications

Video Sources	8 channels per server
Video Capture Channels	4 x 2, aggregate 240 fps
Video Compression	Motion-JPEG and MPEG-4 ASP compliant
Image size	32x24 to 640x480 NTSC (32 to 704x576 PAL)
Digital I/Os	8 port TTL I/O with interrupt/event signaling
Video Capture	up to 640x480 at 30fps per chnl NTSC (up to 704x576 fps per channel for PAL)
Frame Rates	Motion-JPEG and MPEG-4 up to 30/25fps at 4CIF per channel
Resolutions	4CIF, 2CIFExp, 2CIF, CIF, QCIF (MIN 160x120 NTSC, 176x144 PAL – MAX 704x480 NTSC, 768x576 PAL)
Video Streaming	Controllable frame rate and bandwidth, constant and variable bit rate with MPEG-4
Analog composite video	NTSC/PAL auto-sensing inputs
BNC inputs	8 per server
Ethernet	Ethernet x 2 (10/100/1000)
D-Sub	For RS-232 port

System Integration and Support

API/SDK	Available in Java and HTTP/TCP
Cameras	Over 45 PTZ/dome camera protocols supported

Technical Data **FirstView® Encoder/Server DVR**

Security

Multiple-user, role-based security access with password protection
IP address filtering, HTTPS Encryption (SSL), AES and Triple DES

Accessories and Additional Services

Digital Video Recorder	DVR/NVR for live recording/playback of Motion-JPEG and MPEG-4
Mobile PC	Control robotic cameras and view high-quality video images in real-time via wireless Pocket PCs.
Joystick Controller	Industrial 3-axis hardware controller for client PC access using USB
Device Control Software	Integrated control for growing selection of video switchers, routers and multiplexers
Custom Development/Engineering	Services available for integration or OEM

¹See FirstView® NVR datasheet for details on available recording and playback features. Product specifications subject to change

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