

FirstView® Encoder/Server

DIGITAL VIDEO ENCODER AND SERVER SYSTEM



Feature Highlights

- **Video management with legacy CCTV support**
- **Web-browser based (clientless)**
- **Secure using SSL with AES encryption**
- **Low-latency video distribution and camera control**
- **Hierarchical user management for interoperable communications**
- **Variable speed PTZ controls for precision-based object tracking**
- **Supports 200 simultaneous users**

FirstView® Encoder/Server is a professional, turnkey network video encoder and server system.

Smith Detection's real-time camera control and video systems deliver high-quality images over IP.

The Encoder/Server provides a secure, decentralized platform for user, camera 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 with FirstView®'s MobilePC software.

Technical Data **FirstView® Encoder/Server**

Additional Features

- 8 video channels per server
- Industrial rackmount or compact units
- Digital video compression – high quality Motion-JPEG or MPEG-4 (160x120, 320x240, 640x480 up to 30 fps)
- Camera control supports most CCTV, industrial, broadcast cameras and robotics – more than 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

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
Operating System	Windows XP Pro

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 (32x24 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
Server Software	Windows XP Pro DSP®

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**

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 Network 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

Product specifications subject to change

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