

# SmartSight S1600e

## HIGH RESOLUTION VIDEO SERVER



Designed for point-to-point applications (including Web access)

### PRODUCT OVERVIEW

SmartSight® S1600e is designed for video monitoring and surveillance over IP networks. The S1600e delivers high-quality, MPEG-4-based video at 30 frames (60 fields) per second in NTSC (25 frames in PAL, or 50 fields), over 10/100Base-T networks using cat 5, fiber optic, and wireless media. It can be extended over Local and Wide Area Networks (LANs and WANs) or the Internet using ISDN, PSTN, or xDSL routers, and is built on open standards to provide long-term investment protection.

The S1600e includes a video encoder (S1600e-T) with one analog video input, and a video decoder (S1600e-R) with one analog video output (NTSC/PAL). Together, these modules enable you to extend your analog CCTV system using the enterprise LAN/WAN, without adding costly cables.

The S1600e provides secure Web access capabilities using Internet Explorer. Up to five simultaneous users can monitor a live video stream and configure various unit settings using the Web interface.

Configuration and management are made easy using SConfigurator™ from your Telnet session or the configuration interface from Internet Explorer 6.0.

### KEY FEATURES

- ✓ Industrial-strength CCTV solution enabling cost-effective migration of analog CCTV cameras to IP networks
- ✓ Point-to-point analog extension with Web access (configuration and viewing)
- ✓ Dual-stream, MPEG-4-based video, with one stream dedicated to Web access
- ✓ High-resolution, "all lines" (352 x 480 NTSC pixels, or 352 x 576 PAL pixels) video streaming at 60 fields per second in NTSC (50 fields in PAL)
- ✓ Scalable resolution to 480 vertical lines in NTSC (576 in PAL) for MPEG-2 video quality at a much lower data rate
- ✓ All firmware upgradeable via the network (including the video codec)
- ✓ User selection of RTP/IP, UDP/IP, TCP/IP, or multicast streaming
- ✓ RS-232 serial port for integration to access control systems
- ✓ RS-422/485 serial port to support motorized domes and cameras
- ✓ 3 discrete alarm inputs and 1 relay output
- ✓ Optional bidirectional audio interface
- ✓ SSL-based user authentication

DIGITAL.  
ENCRYPTED.  
NETWORKED.



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### NETWORK

Interface	Ethernet 10/100Base-T
Connector	RJ-45 jack
Protocols	Transport: RTP/IP, UDP/IP, TCP/IP, or multicast IP Others: DNS and DHCP client
Security	SSL-based authentication

### VIDEO

Input	1 composite, 1 Vpp into 75 ohms (NTSC/PAL)
Output	1 composite, 1 Vpp into 75 ohms (NTSC/PAL)
Connectors	BNC female
Compression	MPEG-4-based
Resolution	Scalable from 176 x 128 to 720 x 480 NTSC pixels (176 x 144 to 720 x 576 PAL pixels)
Frame rate	Up to 30 frames or 60 fields per second in NTSC (25 frames or 50 fields in PAL), programmable (full motion)
Bandwidth	Configurable between 30 kbps and 4 Mbps

### SERIAL PORT

Electrical levels	Port 1: RS-232 (max. 230 kbps) Port 2: RS-422/485 2/4 wires (max. 230 kbps)
Connectors	Port 1: DB-9 Port 2: pluggable screw-terminal strip
Operating mode	Transparent serial port supporting any asynchronous serial protocol

### ALARM AND AUDIO

Alarm	Input: 3 dry contact inputs Output: 1 relay contact output (48V AC/DC at 100 mA max.)
Bidirectional audio (optional)	Input: -46 to -3 dBV into 1 kOhm Output: -46 to -3 dBV into 16 ohms min.
Audio connectors	0.14 in (3.5 mm) input and output stereo jacks Input: -46 to -3 dBV into 1 kOhm

### POWER

Supply voltage	12V DC +/- 10%
Consumption	7.5W (up to 625 mA at 12V DC)

### PHYSICAL

Enclosure	Metal case with flange-mount (black color)
Size	4.5L x 5.6W x 1.25H in. (115L x 142W x 32H mm)
Weight	0.84 lb (0.38 kg)
Environmental	32°F to 122°F (0°C to 50°C)
Humidity	95% non condensing at 122°F (50°C)

### MANAGEMENT

Configuration	Remote: via SConfigurator, Internet Explorer 6.0, or Telnet Local: via the serial port using any ASCII terminal
Firmware upgrade	Flash memory for upgrade of video codec and application firmware over the network

### CERTIFICATION AND REGULATION

USA and Canada	FCC part 15 (subpart B, class A), ICES-003/NMB-003
Europe	CE marked, EN 55022:1998 class A,
EN	55024

### WARRANTY

	2-year limited warranty, covering parts and labor 3-year limited warranty, covering parts and labor on S1600e-T-XT, S1600e-R-XT, S1600e-T-A-XT, S1600e-R-A-XT
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### ORDERING

Part number	S1600e-T
Description	High resolution video server encoder
Part number	S1600e-R
Description	High resolution video server decoder
Part number	S1600e-T-A
Description	High resolution video server encoder and audio
Part number	S1600e-R-A
Description	High resolution video server decoder and audio
Part number	S1600e-T-XT
Description	High resolution video server encoder with extended temperature range of -22°F to 144°F (-30°C to 60°C)
Part number	S1600e-R-XT
Description	High resolution video server decoder with extended temperature range of -22°F to 144°F (-30°C to 60°C)
Part number	S1600e-T-A-XT
Description	High resolution video server encoder with extended temperature range of -22°F to 144°F (-30°C to 60°C) and audio
Part number	S1600e-R-A-XT
Description	High resolution video server decoder with extended temperature range of -22°F to 144°F (-30°C to 60°C) and audio

### OPTIONAL ACCESSORY

Part number	SRM10
Description	Standard black anodized 19-inch (48-cm) rackmount panel (for 10 modules)

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