

SmartSight S1500e

ETHERNET VIDEO SERVERS



DIGITAL.
DISTRIBUTED.
NETWORKED.

PRODUCT OVERVIEW

SmartSight® S1500e is designed for video monitoring and surveillance over IP networks. The S1500e delivers high-quality MPEG-4-based video over 10/100Base-T networks using cat 5, fiber optic, and wireless media. The S1500e can be extended over Local and Wide Area Networks (LANs and WANs) or the Internet using ISDN, PSTN, or xDSL routers. These Ethernet video servers are built on open standards and are entirely firmware upgradeable to provide long-term investment protection.

The S1500e video servers come in three versions: a video encoder (S1500e-T) with one analog video input at 30 frames per second (fps); a video encoder (S1502e-T) with two analog video inputs at 15 fps; and a video decoder (S1500e-R) with one analog video output (NTSC/PAL).

Configuration and management are made easy with the nDVR®, Loronix Video Manager™, or SConfigurator™ software.

KEY FEATURES

- ✓ Industrial-strength CCTV solution that allows cost-effective migration of analog CCTV cameras to IP networks
- ✓ All firmware upgradeable via the network (including the video codec)
- ✓ User selection of RTP/IP, UDP/IP, TCP/IP, or multicast streaming
- ✓ Dual-stream, MPEG-4-based video for each input
- ✓ High resolution, "all lines" (352 x 480 pixels) video streaming at 30 frames per second
- ✓ Scalable resolution from 176 x 128 pixels to 704 x 480 NTSC pixels (176 x 144 to 704 x 576 PAL pixels)
- ✓ 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 supporting microphone or line-level input, and headphone or line-level output
- ✓ Video loss alarm
- ✓ SSL-based user authentication

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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	S1500e-T: 1 composite, 1 Vpp into 75 ohms (NTSC/PAL) S1502e-T: 2 composites, 1 Vpp into 75 ohms (NTSC/PAL)
Output	S1500e-R: 1 composite, 1 Vpp into 75 ohms (NTSC/PAL)
Connectors	BNC female
Compression	MPEG-4-based
Resolution	Scalable from 176 x 128 to 704 x 480 NTSC pixels (176 x 144 to 704 x 576 PAL pixels)
Frame rate *	S1500e: 1-30 fps programmable (full motion) S1502e: 2 at 1-15 fps programmable
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

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 lbs (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 nDVR, Loronix Video Manager, SConfigurator, 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	FCC part 15 (subpart B, class A)
Canada	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 S1500e-T-XT and S1500e-T-XT

ORDERING

Part number	S1500e-T
Description	Ethernet video server encoder
Part number	S1500e-R
Description	Ethernet video server decoder
Part number	S1500e-T-A
Description	Ethernet video server encoder with audio
Part number	S1500e-R-A
Description	Ethernet video server decoder with audio
Part number	S1502e-T
Description	Ethernet video server encoder with 2 video inputs
Part number	S1502e-T-A
Description	Ethernet video server encoder with 2 video inputs and audio
Part number	S1500e-T-XT
Description	Ethernet video server encoder with extended temperature range of -22°F to 144°F (-30°C to 60°C)
Part number	S1500e-T-A-XT
Description	Ethernet video server encoder 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)

* The S1500e offers two independent programmable streams per video input.
** Product capabilities are enabled through software.

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