



SNT-EP104

A four channel stand-alone video surveillance encoder, utilising state of the art image transmission and enhancement technology.

Designed for use in applications requiring up to four analogue channels, the SNT-EP104 is a powerful, fully featured video encoder delivering a range of unique capabilities.

The SNT-EP104 delivers a unique four channel stand-alone camera encoding concept, which adds significant value and performance to existing small to medium-sized analogue systems.

Converting up to four traditional analogue video signals into multiple digital video streams for transmission via IP-based networks, the SNT-EP104 encoder offers unrivalled network flexibility. Sony's unique XDNR (Excellent Dynamic Noise Reduction) is also included within this encoder, together with VE (Visibility Enhancer) technology.

The combination of these powerful features and enhancements make the Sony SNT-EP series the obvious choice when migrating from an existing analogue camera system, to an IP based monitoring solution.

What's more, the SNT-EP104 comes with ONVIF (Open Network Video Interface Forum) compliance for easy interoperability with IP monitoring products from a variety of manufacturers.

1 year PrimeSupport is included as standard within the EU, Norway and Switzerland. This gives users access to an expert helpdesk and, in the unlikely event of a failure, will arrange for an advance replacement unit to be delivered within a target time of one working day. An additional 2 years support is also available as an option.

Features

Four channel stand-alone analogue to digital migration solution

Sony's SNT-EP104 encoders connect with up to four existing analogue cameras to deliver flexible IP integration solutions. Crisp and clear CCTV images are available with Sony's advanced image processing technology. The SNT-EP104 offers enhanced levels of security even in the most challenging lighting conditions.

Highly flexible network capability

Enjoy exceptional operational flexibility using the ideal compression format for differing image and network types (JPEG for high quality still images; MPEG-4 and H.264 for clear, moving images over bandwidth-limited networks). Maximise network and storage resources by utilising simultaneous dual-encoding of any two formats, from JPEG, MPEG-4 and H.264.

Optimum image quality when using traditional analogue cameras

By using Sony's SNT-EP range of encoders users can benefit from unrivalled image quality. State of the art image enhancing technology, that only Sony offers, will deliver clearer, brighter and higher quality images.

Simple to install, easy to maintain

Intelligent IP and MAC support for up to four address simplifies installation and reduces servicing and time and costs

ONVIF compliance offers the optimum in system flexibility

Compliance with ONVIF (Open Network Video Interface Forum) ensures interoperability and maximum flexibility between a wide range of manufacturers' network video products

Benefits

Enhanced performance and image quality in all conditions combined with D1 resolution support for up to four analogue cameras

Sony's unique XDNR (Excellent Dynamic Noise Reduction), VE (Visibility Enhancer) and DFI (Dynamic Frame Integration) Technology come as standard features within the SNT-EP series of encoders. This unique image enhancing technology delivers superior noise free images in the most challenging conditions. By utilising Sony's SNT-EP series with XDNR, VE and DFI technology high quality D1 resolution support, analogue cameras can now deliver superior imaging performance.

Triple codec operation

The SNT-EP series supports three compression formats: JPEG, the best choice of high-quality still images; MPEG-4, the format that provides clear moving images efficiently over limited-bandwidth networks; and H.264, the alternative for severely limited-bandwidth networks, providing twice the efficiency of MPEG-4. The camera can generate JPEG and MPEG-4 images simultaneously

Clear low-light images

XDNR (Excellent Dynamic Noise Reduction) technology virtually eliminates image blur in low-light conditions, enabling users to clearly capture images that have not been easy to portray in the past. It also overcomes the problems associated with many competitor camera models. What's more, when both XDNR and Visibility Enhancer are turned on, the cameras can achieve four times the sensitivity compared to when they are off. This technology is ideal for any outdoor surveillance monitoring, such as in a car park at night

Improved performance in challenging lighting conditions

VE (Visibility Enhancer) technology improves performance in challenging lighting conditions, for example high-contrast environments such as casinos and highways that had previously been difficult to monitor. The Visibility Enhancer's advanced system suppresses extreme whites and boosts dark areas in a scene simultaneously and dynamically, to produce clearer images on the screen.

Improved performance from dynamic scenes

DFI (Dynamic Frame Integration) technology produces superior images from scenes containing both still and moving objects. DFI technology detects moving objects and reduces motion blur, simultaneously detecting stationary objects and reducing jagged edges. DFI delivers an optimised image with superior clarity and can be added to any analogue system by utilising Sony's SNT-EP series.

Flexible streaming support

Video can be stored on optional USB memory media and then streamed using RTP/RTCP or RTSP protocols. This function is available with s/w version 1.1 or later.

Flexible recording and storage solutions

External storage is also possible using USB flash memory. Continuous, pre and post event video may be stored in a compressed format for later retrieval.

Support for IPv6

The SNT-EP series supports Internet Protocol Version 6 (IPv6).

ONVIF Compliant

The ONVIF (Open Network Video Interface Forum) defines a common protocol for the exchange of information between network video devices including automatic device discovery, video streaming and intelligence metadata. Allows interoperability between network video devices. By utilising Sony SNT-EP encoders, analogue systems can fully benefit from full ONVIF interoperability.

Technical Specifications

Encoder Features

Visibility Enhancer	Yes
XDNR	Yes
Coaxitron control	No

Interface

Analogue Ethernet	X4
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Image

Codec image size (HxV)	D1 (NTSC: 720 x 480, PAL: 720 x 576), VGA (640 x 480), CIF (384 x 288), QVGA (320 x 240)
Video compression format	H.264, MPEG-4, JPEG
Maximum frame rate	H.264/MPEG-4/JPEG: 30fps (NTSC: 720 x 480, PAL: 720 x 576)

Audio

Audio compression	G.711/G.726
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Scene analytics

Intelligent Motion Detection	No
Motion detection	Yes
Advanced audio detection	No

Network

Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
Number of clients	10
Authentication	IEEE802.1x
Number of IP/Mac address	X4

General

Mass	Approx. 1.3 kg (2 lb 3 oz)
Dimensions (WxHxD)	210 x 44 x 250 mm (8 3/8 x 1 3/4 x 9 7/8 inches)
Power requirements	DC12 V
Power consumption	12W max.
Operation temperature	0 to 45 °C
Storage temperature	-20 to 60°C

System requirements

Operating system	Microsoft Windows XP, Windows vista
Processor	Intel Core2 Duo, 1.8GHz or higher
Memory	1GB or more
Power requirements	PoE (802.af)
Power consumption	9.6W max.
Operating temperature	0 to 50 °C
Storage temperature	-20 to 60 °C

System requirements

Operating system	Microsoft Windows XP, Windows Vista
Processor	Intel Core2 Duo, 1.8GHz or higher
Memory	1GB or more
Web browser	Microsoft Internet Explorer Ver.6.0, Ver.7.0