SONY

SNT-EX101E

A fully featured single POE channel video surveillance encoder, utilising state of the art image transmission and enhancement technology.

Overview

Designed for use in single channel applications, the SNT-EX101E is a powerful, fully featured video encoder delivering a range of unique features.

The SNT-EX101E delivers a unique encoding concept which adds significant value and performance to existing systems.

Converting traditional analogue video signals into digital video streams for transmission via IP-based networks, the SNT-EX series offers unrivalled network flexibility. Sony's unique XDNR (Excellent Dynamic Noise Reduction),VE (Visibility Enhancer) technology and DEPA Advanced (Distributed Enhanced Processing Architecture) combine with RS-485 and Coaxitron telemetry support to deliver superior image quality, a powerful video and audio analytics capability and advanced telemetry support to existing analogue systems.

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

ONVIF (Open Network Video Interface Forum) compliance for easy interoperability with IP monitoring products from a variety of manufacturers.

The perfect analogue to digital migration solution from Sony

Sony's SNT-EX series encoders connect with 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-EX101E 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).

Optimum image quality when using traditional analogue cameras

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

Simple to install, easy to maintain

Intelligent IP and MAC address support 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

Features

Enhanced performance and image quality in all conditions combines with D1 resolution support

Sony's unique XDNR (Excellent Dynamic Noise Reduction) and VE (Visibility Enhancer) and DFI (Dynamic Frame Integration) Technology come as standard features within the SNT-EX series

of encoders. This unique image enhancing technology delivers superior noise free images in the most challenging conditions. By utilising Sony's SNT-EX 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-EX series supports three compression formats: JPEG, the best choice of high-quality still images

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 optimized image with superior clarity and can be added to any analogue system by utilizing Sony's SNT-EX series.

Powerful Intelligent Video Analytics

Sony's SNT-EX series encoders include a complete IP surveillance solution based on its Distributed Enhanced Processing Architecture (DEPA™) platform. Intelligent video analytics automatically identify critical events for a high-level of security and to provide streamlined workflows. Unlike conventional monitoring solutions, the DEPA solution provides added intelligence to assist the surveillance operator in taking quick action. Users can precisely refine parameters for use in conjunction with the Intelligent Motion Detection and Intelligent Object Detection functions. By utilising the SNT-EX series encoders, analogue camera's can now deliver the significant benefits offered by Sony's DEPA Advanced analytics.

Tamper Alarm

When an attempt is made to tamper with the camera, such as spray-painting the lens, the SNT-EX Series detects this and triggers an alarm. This event can also be used to activate the camera relays, or even to start the Voice Alert function.

Advanced Audio Detection

Unlike conventional audio detection where an alarm is triggered based on a preset audio level, the SNX-EX Series triggers its alarms based on ambient sound conditions as the threshold. The camera stores and updates ambient audio levels and frequencies, and when the threshold level based on this data, is surpassed, an alarm is triggered. (Available with version 1.1 or later software.)

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Voice Alert

The encoder can store up to three pre-recorded audio alert messages which may be played via an active speaker upon manual or automatic initiation.

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 stored in compressed format for later retrieval.

Support for IPv6

The SNT-EX 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-EX encoders, analogue systems can fully benefit from full ONVIF interoperability.

Specifications

Camera Features
VE (VE)

Tone Correction	
Noise Reduction	XDNR

Video Server Features

Coaxitron Control	Yes

Video

Resolution	720 x 576, 720 x 470, 640 x 480, 384 x 288, 320 x 240
Compression Format	H.264, MPEG-4, JPEG
Maximum Frame Rate	30 fps
Multi Streaming Capability	Dual streaming
Number of Clients	10

Intelligent Video/Audio Analytics

Intelligent Motion Detection	Yes
Advanced Audio Detection	Yes

Audio

Compression Format	G.711, G.726

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 IP Address/Mac ADDRESS	1
Wireless Network	No
Authentication	IEEE 802.1x

Interface

Analog Video Input	x1
Composite Buffered Through Out	No
Microphone Input	Mini jack (monaural), MIC IN/LINE IN: over 2.2 kΩ, DC 2.45 V plug-in power

Audio Interface (IN/OUT)	IN: x1 OUT: x1
Line Output	Mini jack (monaural), Max output level: 1.5 Vp-p
Network Port	10BASE-T/100BASE-TX (RJ-45)
Alarm Input (Sensor Input)	x2
Alarm Output	x2
Serial Interface	RS-422, RS-485
USB Slots	x1

General

Power Requirements	IEEE 802.3af compliant (PoE)
Power Consumption	9.6 W max.
Operating Temperature	0°C to +50°C +32°F to +122°F
Storage Temperature	-20°C to +60°C -4°F to +140°F
Dimensions (W x H x D)*1	73 x 34 x 155 mm 2 7/8 x 1 3/8 x 6 1/8 inches

Mass	Approx. 0.4 kg
	Approx. 14 oz

Notes	
*1	The values for dimensions are approximate.

Gallery