

SIQURA

S-60 E V2 (NA)

Single channel H.264 video encoder

DESCRIPTION

Take your analogue CCTV network to the digital realm of IP with our S-series video encoders. The single channel S-60 E v2 converts analogue video into two independant H.264 IP streams. This video encoder delivers crystal clear, low-bandwidth video and proven interoperability by ONVIF Profile S and Sigura's SPI.

FEATURES

Single-channel H.264 video encoder
Edge recording
960H Support
Advanced tamper detection
Image quality monitor
NEMA TS 2 compliant
NTCIP protocol support
Audio, Digital I/O
ONVIF Profile S





Description

The Siqura S-60 E v2 is a versatile and cost-effective H.264 video encoder, featuring multistreaming, low-latency, and crystal-clear highly detailed video. The "no audio" version (-NA) has been temporarily been introduced to overcome the component crises causing severe shortage of audio chips.

ONVIF and Siqura Programming Interface (SPI)

The S-64 E v2 supports both the international ONVIF standard and SPI for remote control, configuration, video switching, and streaming. The encoder has been approved for ONVIF Profile S

for streaming, PTZ, and I/O. An alternative control interface is the SPI, a comprehensive HTTP- and RTSP-based API for remote control of the encoder that makes full integration easy.

Edge recording

The S-60 E v2 offers edge recording for each video input. A recording is activated when the connection with the network recorder is lost. The missing footage is available as AVI, which can easily be downloaded from the device. The recordings are stored on a single μ SDHC card with a maximum capacity of 32 GB or NAS.

Picture enhancement

The S-60 E v2 connects to every analogue camera, even if it is not of the best quality. With a range of tools it enhances the video to a crisp, clear image. Camera noise can be eliminated by Siqura's 3D adaptive noise reduction and interlacing artifacts are removed by motion adaptive de-interlacing (M.A.D.). Brightness, contrast, hue, and sharpness of the image can be adjusted for the best result.

Image quality monitor and tamper detector

When the image from the camera becomes too poor, even for the encoder to enhance, an Image Quality alert is raised. The image is continuously monitored on contrast, exposure, focus, and noise by Siqura's unique Image Quality Monitor. In addition, the built-in tamper detector monitors changes in the position or field of view of the camera. The instant a camera's position is changed a Tamper Detect alert is raised.

960H Support

The S-60 E v2 supports 960H enhanced definition SD cameras. 960H Analogue cameras



produce a stunning, 650 TVL resolution in PAL/NTSC or a standard definition image in an aspect ratio of 16x9 (widescreen). Ordinary encoders cannot handle 960H and will reduce horizontal resolution to standard PAL/NTSC. With this feature, S-60 E v2 encoders are able to use 960H technology for any standard PAL or NTSC camera. This means that the S-60 E v2 uses 33% more samples to encode a normal TV line, thus producing the sharpest image possible.

Audio, I/O contacts, and serial data

By combining audio, digital I/O contacts, and data with streaming video, the S-60 E v2 provides all the interfaces necessary for any IP CCTV application. The S-60 E v2 supports 1x audio in- and output, 1x PTZ (RS485) and serial RS232 data, and 4x digital I/O.



Video	
Number of channels	1x PAL/NTSC auto-detect
Input level	1 Vpp (3 dB)
Compression algorithm(s)	H.264 (MP, HP), MJPEG
Encoding latency	less than 125 ms
Resolution	960H, D1, 2/3D1, 1/2D1, 2CIF, CIF, VGA
GOP structure	I, IP Frame rate 1 to 30 fps
Dual streaming	2x Full frame rate at D1 resolution
Local recording	Micro SD/SDHC up to 32 GB; NAS (Support NFS, SMBv1/CIFS)
On-screen display	3x Text lines (fully configurable), 1x graphical image (BMP, GIF or JPEG)
Input impedance	75 or Hi-Z
Connector type	BNC (with gold-plated center pin)
Video enhancement	
De-interlacing	Mation Adaptive Do interlacing (MAD)
Noise filter	Motion Adaptive De-interlacing (M.A.D.)
	3D Adaptive noise reduction
Image enhancement	Adjust contrast, brightness, saturation, hue, and sharpness; Automatic (mist) correction
Video analytics	
Video motion detection	Based on movement detection in free-drawn ROI
Image quality monitor	Monitors focus, exposure, contrast, and noise
Advanced tamper detection	Blocked or moved field of view; multiple reference images per video input
Audio (Not supported by the -NA versi	(en)
Audio in	1 channels in (line level/mic level with phantom power)
Audio out	1 channel out (line level)
Interface	G.711 (U-law or A-law selectable)
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Data	
Number of channels	2 full-duplex
Interfaces	1x RS-422/485 (2- or 4-wire), 1x RS-232
Network interface	TCP or UDP
PTZ protocols	Pelco P, Pelco D, Bosch, and others
Data rate	1200 b/s to 115.2 kb/s
Connector type	Spring clamp plug (24-pin to RJ-45 cable included as accessory)
Digital I/O	
Number of I/O channels	4x Digital I/O
Output mode	Open collector, 24 V, 2 A max DC
Input mode	Internal pull-up 3.3 V, 2.2 k threshold 1.2 V
Connector type	Spring clamp plug
Security	
User authentication	three-level user access - indication of password strength

Specs



Security

Security			
RTSP and HTTP access authentication	None, Basic, and Digest authent	tication	
Port authentication	IEEE 802.1x (EAP or MD5)		
Secure Socket	TLS1.2 protocol with 256 bit AES		
HTTPs streaming	Yes		
HTTPs control	Yes		
Management			
LED status indicator	Power on and operational; identify		
Network management and control	HTTP API (SPI), ONVIF Profile S	·	
Transmission interface			
Number of interfaces	1x RJ-45		
Interface	10/100/1000Base-TX, auto-nego	otiation	
Protocols	IPv4, IPv6 ready, H.264 HP, H.26	64 MP, (M)JPEG, RTP, RTSP, RTCP, TLS1.2, DHCP, DNS	
	IGMPv3, NTP, HTTP(s), SAP, UPnP, DiffServ, FTP, SNMP, SSM,		
	NTCIP-1205, SMBv1/CIFS, NFS, ONVIF		
Powering			
Input voltage	9-15 Vdc		
Power consumption	6.7 W		
Environmental			
Operating temperature	S-60 E v2	-10 °C to +60 °C (+14 °F to +140 °F)	
	S-60 E v2-XT /SA	-40 °C to +75 °C (-40 °F to +167 °F)	
Relative humidity	5% to 95%, noncondensing		
MTBF	200,000 hours		
Safety and EMC	IEC/EN 60950-1, IEC/EN 61000-6-3, IEC/EN 61000-6-2, EN 55022, FCC part 15		
NEMA Standard	NEMA TS 2 compliant (S-60 E v2 XT/SA)		
Mechanical			
Dimensions (h x w x d)	128 x 34 x 190 mm (5.04 x 1.34 x 7.5 in)		
Weight	450 g (15.80 oz)		
Housing	Rack-mount or stand-alone		
Ordering information			
S-60 E v2			
	Single channel H.264 video enco	oder	
S-60 E v2-XT /SA	Single channel H.264 video enco Single channel H.264 video enco		
S-60 E v2-XT /SA S-60 E v2 NA	-	oder ext. temp, stand-alone	
	Single channel H.264 video enco	oder ext. temp, stand-alone oder	
S-60 E v2 NA	Single channel H.264 video enco Single channel H.264 video enco	oder ext. temp, stand-alone oder	
S-60 E v2 NA S-60 E v2-XT NA /SA	Single channel H.264 video enco Single channel H.264 video enco Single channel H.264 video enco	oder ext. temp, stand-alone oder	
S-60 E v2 NA S-60 E v2-XT NA /SA MC 11 AC-230	Single channel H.264 video enco Single channel H.264 video enco Single channel H.264 video enco Power supply cabinet, 19/3RU	oder ext. temp, stand-alone oder oder ext. temp, stand-alone	





Ordering information

PSA-UN12-CF	Power Adapter, 110-230Vac 60/50Hz, 12Vdc, 2A, ferrules univ.
PSR-12 DC v2	Power supply, rail-mount, 85-265 Vac, 12Vdc, 1.5 A