

S-60 E V2

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

ONVIF and Siquira 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 µSDHC 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 Siquira'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 Siquira'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

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.

PTZ drivers

To control different type of PTZ cameras, the encoder supports different PTZ control protocols. The most used is Pelco-D, but it also supports special PTZ protocols, like Pelco-P, RX400, Vicon, American Dynamics, and many more. The required PTZ drivers can be loaded to support that special PTZ camera.

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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 Ω or Hi-Z
Connector type	BNC (with gold-plated center pin)
Video enhancement	
De-interlacing	Motion Adaptive De-interlacing (M.A.D.)
Noise filter	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 version)	
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)
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, RX400, 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	
RTSP and HTTP access authentication	None, Basic, and Digest authentication
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-negotiation
Protocols	IPv4, IPv6 ready, H.264 HP, H.264 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 encoder
S-60 E v2-XT /SA	Single channel H.264 video encoder ext. temp, stand-alone
MC 11 AC-230	Power supply cabinet, 19/3RU
MC 11 AC-115	Power supply cabinet, 19/3RU
MC 10 AC-230	Dual power supply cabinet 19/3RU
MC 10 AC-115	Dual power supply cabinet 19/3RU
PSR-12 DC v2	Power supply, rail-mount, 85-265 Vac, 12Vdc, 1.5 A