

EVE 4X4 V2

Modular 16-channel H.264 video encoder

DESCRIPTION

Siqura EVE 4x4 v2 is a modular 16-channel video encoder offering high-quality video streaming performance for many video surveillance applications and CCTV. It is based on 4x 4-channel blades fitted into a single 19-inch rack. Easy snap-latch securing allows the blades to be hot-swapped. The encoder provides two GBE ports for daisy chaining multiple EVE 4x4 encoders. The encoders provides dual streaming per camera in full frame rate at best-quality H.264 high profile. With 16 channels in a rack-mountable 1HU form factor, EVE 4x4 v2 offers the highest port density at this quality of video.

FEATURES

Modular 4x four-channel H.264 encoder

Click and Go: works out of the box

Advanced picture enhancement

Image quality monitoring

Tamper detection

Edge storage on µSDHC card per 4-ch

ONVIF Profile S



Click and Go

Out of the box, the EVE 4x4 is ready for operation and can be mounted straight or reversed in a 19" rack. Set-up is made easy: the EVE 4x4 blades get their own addresses in the network and can be accessed by their device host name. Connect the cameras and you are ready to go. The comprehensive web app guides you through the web interface as if child's play.

Picture enhancement

The EVE 4x4 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 TKH Security/Siqura's 3D adaptive noise reduction and interlacing artifacts are removed by motion adaptive deinterlacing (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 the 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.

ONVIF and Siqura Programming Interface (SPI)

The EVE 4x4 supports the international ONVIF standard 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 SPI, a comprehensive programming interface for remote-control of the encoder over http.

Video	
Video channels	16x CVBS (960H), PAL/NTSC autodetect
Input level	1 Vpp (+/- 3 dB) @ 75 Ohm
Video compression	MJPEG, H.264 HP (ISO/IEC 14496-10)
Encoding latency	125 ms
Resolution	960H, D1, 1/2 D1, 4CIF, 2CIF, CIF, QCIF, VGA, QVGA
Frame rate	1 to 30 fps
GOP structure	I, IP
Dual streaming	2x Full frame rate at D1 resolution
Total max frames @ D1	175 fps (total of all inputs and streams.)
Output data rate	56 kb/s up to 6 Mb/s (per input)
Video overlay	2x Text lines (fully configurable)
Connector type	BNC (with gold-plated centre pin)

Video enhancement per input	
Deinterlacing	Motion Adaptive Deinterlacing (M.A.D.)
Noise filter	3D Adaptive noise reduction
Image enhancement	Adjust contrast, brightness, saturation, hue, and sharpness; fog correction

Video analytics per input	
Video motion detection	Based on movement detection in free-drawn ROI
Image quality monitor	Monitors focus, exposure, contrast, and noise
Tamper detection	Blocked or moved field of view

Audio	
Audio in	4x 4 channels in (line level) or 2 channels line level and 2 channels mic level (with bias)
Audio out	4x 1 channel out (line level)
Interface	G.711 (U-law or A-law selectable)

Data/PTZ	
PTZ channels / Serial data	4x
Interface	RS-485 (2-wire) half duplex; RS-422 simplex
PTZ protocols	Pelco P, Pelco D, Bosch, Vicon, Samsung, Panasonic, etc.
Serial interface	TCP/IP
Data rate	300 b/s to 115.2 kb/s

Digital I/O	
Number of channels	4x 8 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

Management	
LED status indicator	Power on and operational

Specs



Management

Network management and control	Sigura OSA, ONVIF Profile S
Security	HTTPS, three-level user access, digest authentication

Environmental

Operating temperature	0 °C to +50 °C (+32 °F to +122 °F)
Relative humidity	200,000 hours
Safety and EMC	EN50155, EN50121-3-2, conform CE regulations
Vibration and shock	EN50155, EN61373

EVE 4x4 v2-R empty rack

Expansion slots	4x for EVE 4x4 v2-B
Ethernet connection	2x RJ-45, 100/1000 Mbps autosensing
Power	110 to 240 Vac, 50/60 Hz external power supply
Power consumption	<33 W, fully loaded

Dimensions

Height	44.45 mm (1 rack unit)
Width	447 mm (19" rack without mounting ears)
Depth	175 mm (+ 15 mm with inserted blades)

Ordering information

EVE 4x4 v2	16-channel modular H.264 video encoder, 1U 19-inch rack, dual stream H.264/MJPEG, 960H, PSU
EVE 4x4 v2-R	1U video encoder rack, 4 EVE blades, 19-inch, 2 GBE ports
EVE 4x4 v2-B	4-channel video encoder blade, dual stream H.264/MJPEG, 960H
EVE 4x4 v2-PSU	Power supply adapter for EVE 4x4 v2-R