

Features

- Modular 4x four-channel H.264 encoder
- Click & Go: works out of the box
- High resolution: 960H support (960x576 px)
- Advanced picture enhancements
- Image quality monitoring
- Tamper detection
- Edge storage on µSDHC card (4x)
- ONVIF Profile S
- 4x 4 Audio in; 4x 1 audio out
- 4x 8 Digital I/O



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 four-channel blades fitted into a single 1HU 19-inch rack, each with one Ethernet port to the network. Easy snap-latch securing allows the blades to be hot-swapped. The encoder provides two internally switched GBE ports for flexibility. EVE 4x4 v2 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.

Click & Go

The EVE 4x4 v2 is operational out of the box. Each four-channel module sets up its own position in the network and can be accessed by its device name. Click your camera cable onto the BNC connector and ... it works. The comprehensive web app guides you through the web interface as if child's play.

Picture enhancement

The EVE 4x4 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 artefacts 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 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.

ONVIF and Open Streaming Architecture (OSA)

The EVE 4x4 v2 supports both the international ONVIF standard and OSA 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 OSA, a comprehensive HTTP- and RTSP-based API for remote control of the encoder that makes full integration easy.

960H Support

The EVE 4x4 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, EVE 4x4 v2 encoders are able to use 960H technology for any standard PAL or NTSC camera. This means that the EVE 4x4 v2 uses 33% more samples to encode a normal TV line, thus producing the sharpest image possible.



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Edge recording

The EVE 4x4 v2 offers edge recording for each video input. The recordings are triggered when the connection with the NVR is lost. The recorded images are available as AVI, which can easily be downloaded from the device. Per 4-channel blade, the recordings are stored on a single μ SDHC card with a maximum capacity of 32 GB.

Audio, I/O contacts, and serial data

By combining audio, digital I/O contacts, and data with streaming video, the EVE 4x4 v2 provides all the interfaces necessary for any IP CCTV application. Per blade (four video inputs), you will find 1x audio output, 4x audio inputs, 1x PTZ/serial RS-485 data, and 8x digital I/O.

Technical Specifications



Video

Video channels	16x CVBS (960H), PAL/NTSC autodetect
Input level	1 Vpp (+/- 3 dB) @ 75 Ω
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
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

Technical Specifications

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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 Ω threshold 1.2 V
Connector type	Spring clamp plug

Management

LED status indicator	Power on and operational
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	<95% No condensation
MTBF (Mean Time Between Failures)	>200,000 hours
Safety and EMC	EN50155, EN50121-3-2, conform CE regulations
Vibration and shock	EN50155, EN61373

EVE 4x4 v2-R Extension 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)

Technical Specifications

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Ordering information

Models	Description
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



The quality management system used in the development, production, sales, and support of this product is ISO 9001:2008 certified by LRQA.

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