Features

- Four-channel H.264 video encoder
- Click & Go – compact DIN rail mounting
- High resolution: 960H support (960x576 px)
- Advanced picture enhancements
- Image quality monitoring
- Tamper detection
- Edge storage on µSDHC card
- ONVIF Profile S
- 8x Digital I/O
- 4x Audio in, 1x Audio out

VIDEO
H.264

AUDIO

DATA

CC

SUPPORT
Onvif

EVE FOUR
Four-channel H.264 video encoder

Description

The Siqura EVE FOUR is a compact, easy-to-use video encoder that transforms four analogue cameras to IP. It makes the migration to an IP-based video network affordable by using the already existing and operational analogue cameras. By combining advanced picture enhancement, efficient H.264 encoding at full frame rate, and the highest resolution possible (960H), the EVE series encoders deliver the sharpest detail and the best clarity and picture quality at the lowest bit rates. The EVE FOUR is fully compatible with the DIVA video management system (VMS) and, by utilising the strength of ONVIF, with all other major video management systems.

Click & Go

Out of the box, the EVE FOUR is ready for operation and can be mounted in one click. The only thing it needs is a bit of space on a DIN rail. Set-up is made easy: the EVE FOUR gets its own address in the network and can be accessed by its 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 FOUR 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 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 Open Streaming Architecture (OSA)

The EVE FOUR 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 OSA, a comprehensive HTTP- and RTSP-based API for remote control of the encoder that makes full integration easy.

960H Support

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

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EVE FOUR

Edge recording

The EVE FOUR offers edge recording for each video input. A recording is activated when the connection with the network recorder is lost. The missing images are 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.

Audio, I/O contacts, and serial data

By combining audio, digital I/O contacts, and data with streaming video, the Siqura EVE FOUR provides all the interfaces necessary for any IP CCTV application. Per encoder (4 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	4x 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; Automatic (mist) 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	4 channels in (line level) or 2 channels line level and 2 channels mic level (with bias)
Audio out	1 channel out (line level)
Interface	G.711 (U-law or A-law selectable)

Technical Specifications
EVE FOUR

Data/PTZ

PTZ channels / Serial data	1x
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 I/O channels	8x Digital I/O
Output mode	Open collector, 24 V, 2 A max DC
Input mode	Internal pull-up 3.3 V, 2.2 kΩ threshold 1.2 V
Connector type	Spring clamp plug

Management

LED status indicator	Power on and operational
Network management and control	Siqura OSA, ONVIF Profile S
Security	HTTPS, three-level user access, digest authentication

Transmission interface

Number of interfaces	1x RJ-45
Interface	10/100/1000Base-TX, autonegotiation
Protocols	IPv4, IPv6 ready, H.264 HP, H.264 MP, (M)JPEG, RTP, RTSP, RTCP, TLS(SSL), DHCP, DNS, IGMPv2, NTP, HTTP(s), SAP, UPnP, DiffServ, FTP

Powering

Input voltage	9-15 Vdc
Power consumption	6 W

Powering PoE model

PoE classification	IEEE 802.3af
Power consumption	7 W

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 ready, IEC/EN 60950-1, IEC/EN 61000-6-3, IEC/EN 61000-6-2, EN 55022, FCC part 15
Vibration and shock	EN50155 ready

Mechanical

Dimensions (h x w x d)	120 x 40 x 94 mm
Weight	360 g
Mounting	DIN rail or supplied bracket

Technical Specifications
EVE FOUR

Ordering information

Models	Description
EVE FOUR v1	Compact 4-ch video encoder, dual stream H.264/MJPEG, 960H (Included: Power adapter 110-230 Vac, 60/50 Hz to 12 Vdc 1.5 A; ferrules, with US/EU/UK adapters)
EVE FOUR-PoE v1	Compact 4-ch video encoder, dual stream H.264/MJPEG, 960H, PoE