

## Features

- One-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
- 2x Digital I/O



## EVE ONE

### One-channel H.264 video encoder

#### Description

The Siqura EVE ONE is a compact, easy-to-use video encoder that converts an analogue camera to a virtual IP camera. 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 (960 x 576), the EVE series encoders deliver the highest detail, clarity, and brilliance at the lowest bit rates. EVE ONE 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 ONE 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 ONE gets its own address in the network and can be accessed by its device host name. Connect the camera and you are ready to go. The comprehensive web app guides you through the web interface as if child's play.

#### Picture enhancement

An EVE encoder 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 encoder range supports both the international ONVIF standard and Siqura OSA for remote control, configuration, video switching, and streaming. The camera has been approved for ONVIF Profile S for streaming, PTZ, and I/O. An alternative control interface is the Siqura OSA, a comprehensive HTTP- and RTSP-based API for remote control of the encoder that makes full integration easy.

#### 960H Support

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



## Edge recording

The EVE ONE offers edge recording. 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  $\mu$ SDHC card with a maximum capacity of 32 GB.

## Digital I/O contacts, and serial data

By combining digital I/O contacts and data with streaming video, Siqura EVE ONE provides all the interfaces necessary for any IP CCTV application. Per encoder you will find 1x PTZ/serial RS-485 data and 2x digital I/O.

## Technical Specifications

Video	
Video channels	1x CVBS (960H), PAL/NTSC autodetect
Input level	1 Vpp (+/- 3 dB) @ 75 $\Omega$
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
Video overlay	2x Text lines (fully configurable)
Connector type	BNC (with gold-plated centre pin)

Video enhancement	
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

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

# Technical Specifications

## EVE ONE

### Digital I/O

Number of I/O channels	2x Digital I/O
Output mode	Open collector, 24 V, 2 A max DC
Input mode	Internal pull-up 3.3 V, 2.2 k $\Omega$ threshold 1.2 V
Connector type	Spring clamp plug

### Management

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

### Transmission interface

Number of interfaces	1x RJ-45
Interface	10/100 Base-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	3.5 W

### Powering PoE model

PoE classification	IEEE 802.3af
Power consumption	4.5 W
Output voltage	12.5 Vdc (+/- 0.5 V) for powering camera
Max output power	5 W (0.4 A)

### Environmental

Operating temperature	0 °C to +50 °C (+32 °F to +122 °F)
Relative humidity	<95% No condensation
MTBF (Mean Time Between Failures)	>400,000 hours
Safety and EMC	IEC/EN 60950-1, IEC/EN 61000-6-3, IEC/EN 61000-6-2, EN 55022, FCC part 15

### Mechanical

Dimensions (h x w x d)	87 x 25 x 78 mm
Weight	150 g
Mounting	DIN rail or supplied bracket

### Ordering Information

Models	Description
EVE ONE v1	Compact 1-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 ONE-PoE v1	Compact 1-ch video encoder, dual stream H.264/MJPEG, 960H, PoE



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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