

# EVE ONE

## One-channel IP video encoder

### DESCRIPTION

The Siqura EVE ONE is a compact, easy-to-use video encoder that encodes analogue video to an H.264 IP stream. It makes the migration to IP affordable by converting the existing analogue camera to IP. By combining advanced picture enhancement, efficient H.264 encoding at full frame rate, the EVE series encoders deliver the highest detail, clarity, and brilliance at the lowest bit rates. EVE ONE is fully compatible with video management systems by utilizing the strength of ONVIF profile S.

### FEATURES

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One-channel H.264 video encoder

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Click & Go compact DIN rail mounting

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Advanced picture enhancements

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Image quality monitoring

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Tamper detection

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Edge storage on SDHC card

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ONVIF Profile S

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## Description

### 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: DHCP assigns the EVE ONE its own IP-address 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 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.

### ONVIF profile S and Siquira Programming Interface (ISP)

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

### 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.

Video	
Video channels	1x CVBS, PAL/NTSC auto detect
Input level	1 Vpp (+/- 3 dB) @ 75
Video compression	MJPEG, H.264 HP
Encoding latency	
Resolution	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

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 threshold 1.2 V
Connector type	Spring clamp plug

Management	
LED status indicator	Power on and operational
Network management and control	Siqura programming Interface, 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

## Specs

### Transmission interface

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
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### 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	
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

EVE ONE v1	Compact 1-ch video encoder, dual stream H.264/MJPEG,
Power adapter	PSA-UN12DC WITH CABLE FERRULES (not included)
EVE ONE-PoE v1	Compact 1-ch video encoder, dual stream H.264/MJPEG, PoE