

EVE FOUR

Four-channel IP video encoder

DESCRIPTION

The 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 without swapping the existing 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, the best clarity, and the highest picture quality at the lowest bit rates. The EVE FOUR is fully compatible with the Sense video management system (VMS) and, being conformant with ONVIF profile S, with all other major video management systems.

FEATURES

Four-channel H.264 video encoder

Click & go: compact DIN rail mounting

High resolution: 960H

Advanced picture enhancement

Image quality monitoring

Tamper detection

Edge storage on μ SDHC card

ONVIF Profile S



Description

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 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 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 SPI, a comprehensive programming interface for remotecontrol of the encoder over http.

960H Support

The EVE FOUR supports 960H enhanced definition SD cameras, producing a stunning, 650 TVL resolution in PAL/NTSC with an aspect ratio of 16x9 (widescreen). EVE FOUR encoders are use 960H technology to sample 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.

Video	
Video channels	4x CVBS (960H), PAL/NTSC autodetect
Input level	1 Vpp (+/- 3 dB) @ 75
Video compression	MJPEG, H.264 HP (ISO/IEC 14496-10)
Encoding latency	
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

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)

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 k threshold 1.2 V

Specs

Digital I/O

Connector type	Spring clamp plug
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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	
MTBF (Mean Time Between Failures)	>200,000 hours
Safety and EMC	IEC/EN 60950-1, IEC/EN 61000-6-3, IEC/EN 61000-6-2, EN 55022, FCC part 15, EN50155 Vibration and shock ready

Mechanical

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

Ordering information

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

Ordering information

EVE FOUR-PoE v1

Compact 4-ch video encoder, dual stream H.264/MJPEG, 960H, PoE
