

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, 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

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 Siquira'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 Siquira Programming Interface (SPI)

The EVE FOUR supports the international ONVIF standard 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 remote-control of the encoder over http.

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	<125 ms
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
Total max frames @ D1	175 fps (total of all inputs and streams.)
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
Connector type	Spring clamp plug
Management	
LED status indicator	Power on and operational

Specs



Management

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	10/100/1000Base-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

Environmental

Operating temperature	0 °C to +50 °C (+32 °F to +122 °F)
Relative humidity	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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