



Z3-HE4K-01

4K Ultra HD Video Encoder

Stream One Source in 4K + 1080p30



4K ENCODING & DECODING MULTI-RESOLUTION ENCODE

COMPACT DESIGN

EASY-TO-USE CONTROLS

VIDEO ENCODING

Interfaces	1x 4K HDMI Input 1x GigE
Supported Resolutions	H.264 encode in resolutions up to 2160p30 (4K UHD) Simultaneous encode of one source in 4K + 720p30, 4K + 1080p29.97 and 4K + 1080p30
Video Codecs	H.264
Output Formats	MPEG-2 TS, RTP, RTMP, RTSP and TS File
Video Frame Rates (HD)	25p, 29.97p, 30p, 50p, 59.94p and 60p @ 720p 24p, 25p, 29.97p, 30p, 50p, 59.94p and 60p @ 1080p 50i, 59.94i and 60i @ 1080i
Video Frame Rates (UHD)	23.98p, 24p, 25p, 29.97p and 30p @ 2160p
Features	<ul style="list-style-type: none"> •Stream One Source in Multiple Resolutions (See Use Case on Next Pg) •Supports Sony VISCA camera control •Supports Unicast and Multicast •Seamless Bitrate and Frame Rate Changes

AUDIO ENCODING

Interfaces	Embedded HDMI Audio
Audio Codecs	AAC-HE ADTS, AAC-LC ADTS
Optional Audio Codecs	AAC-LC LATM, AAC-HE LATM, AAC-HE V2, G.711 and PCM

SPECIFICATIONS

Dimensions	145 x 130 x 34 mm (5.71 x 5.12 x 1.34 in)
Weight	608 g (1.34 lb)

VIDEO DECODING

Interfaces	1x 4K HDMI Output 1x GigE
Supported Resolutions	HD resolutions up to 2160p30 (4K UHD), 1080p30, 1080p/i at 60fps and 720p60
Input Formats	MPEG-2 TS, RTP, RTSP and TS File
Video Frame Rates (HD)	30p, 50p and 60p @ 1080p 25p, 29.97p, 30p, 50p, 59.94p and 60p @ 720p
Video Frame Rates (HD)	24p, 25p, 29.97p, 30p, 50p, 59.94p and 60p @ 1080p 50i, 59.94i and 60i @ 1080i
Video Frame Rates (UHD)	23.98p, 24p, 25p, 29.97p and 30p @ 2160p

AUDIO DECODING

Audio Codecs	AAC-HE ADTS, AAC-LC ADTS
Audio Bitrate	32 to 320 kbps

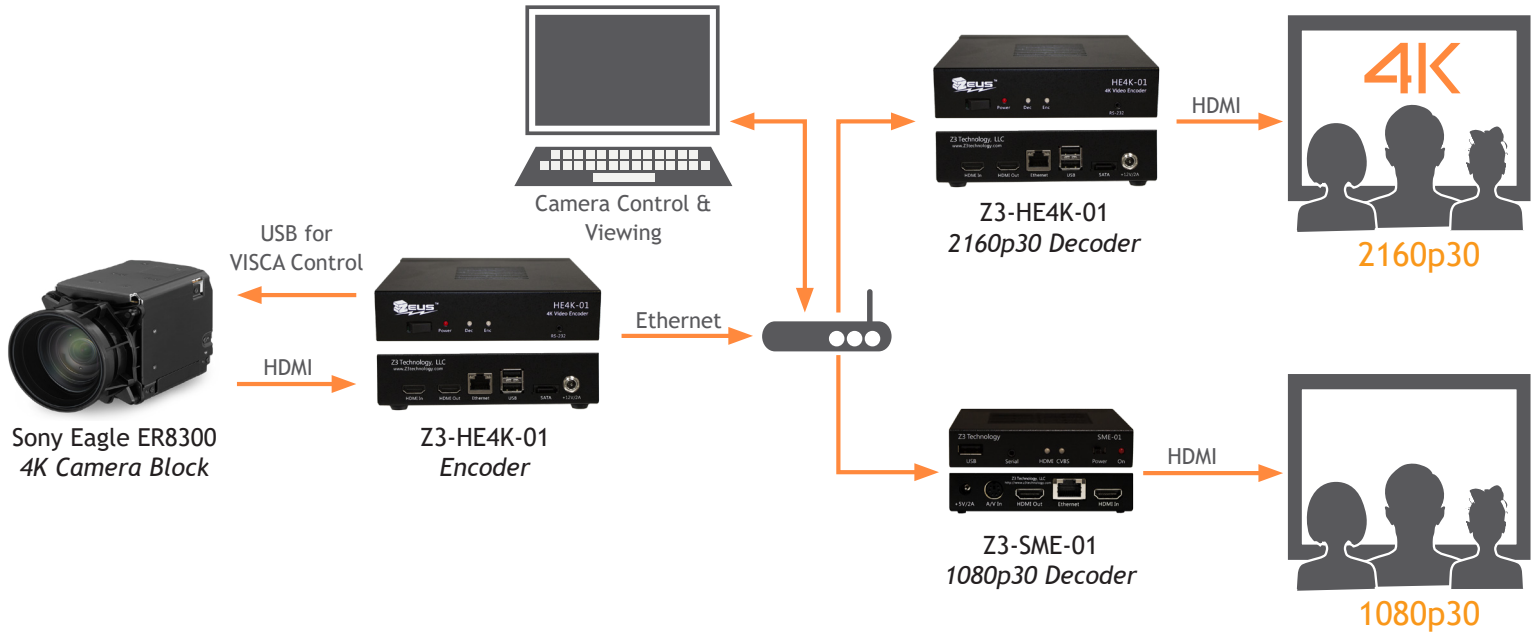
OTHER

Additional Interfaces	2x USB 2.0, SATA2 and RS-232
Software Control	HTTP-Based GUI: Configuration and Software Update RS-232: Configuration
Power	12V External Power Supply 15W Typical Consumption
Temperature and Humidity	Operating: 0 to 40 degrees C at 20-80% Relative Humidity Storage: -10 to 65 degrees C at 20-80% Relative Humidity

MULTI-RESOLUTION ENCODING WITH THE Z3-HE4K-01



The diagram below demonstrates a Sony Eagle FCB-ER8300 4K camera block capturing and sending 4K content over HDMI to our Z3-HE4K-01 encoder. Two streams are sent, one 2160p30 and one 1080p30, over a network to a decoding device and made available for display. In the example below, the 4K stream is decoded by a second Z3-HE4K-01 and the 1080p30 stream is decoded by our Z3-SME-01, an HD decoder.



OPERATING CONTROLS



- ① Power Switch
- ② Power Light
- ③ Status LEDs
- ④ Serial Port
- ⑤ HDMI Input
- ⑥ HDMI Output
- ⑦ Ethernet
- ⑧ 2x USB 2.0
- ⑨ SATA2
- ⑩ 12V 2A Power

*Contact Z³ Technology for Customized Product Options



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