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# Z3-HE4K-01

## 4K Ultra HD Video Encoder



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"> <li>•Stream One Source in Multiple Resolutions (See Use Case on Next Pg)</li> <li>•Supports Sony VISCA camera control</li> <li>•Supports Unicast and Multicast</li> <li>•Seamless Bitrate and Frame Rate Changes</li> </ul>

### 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

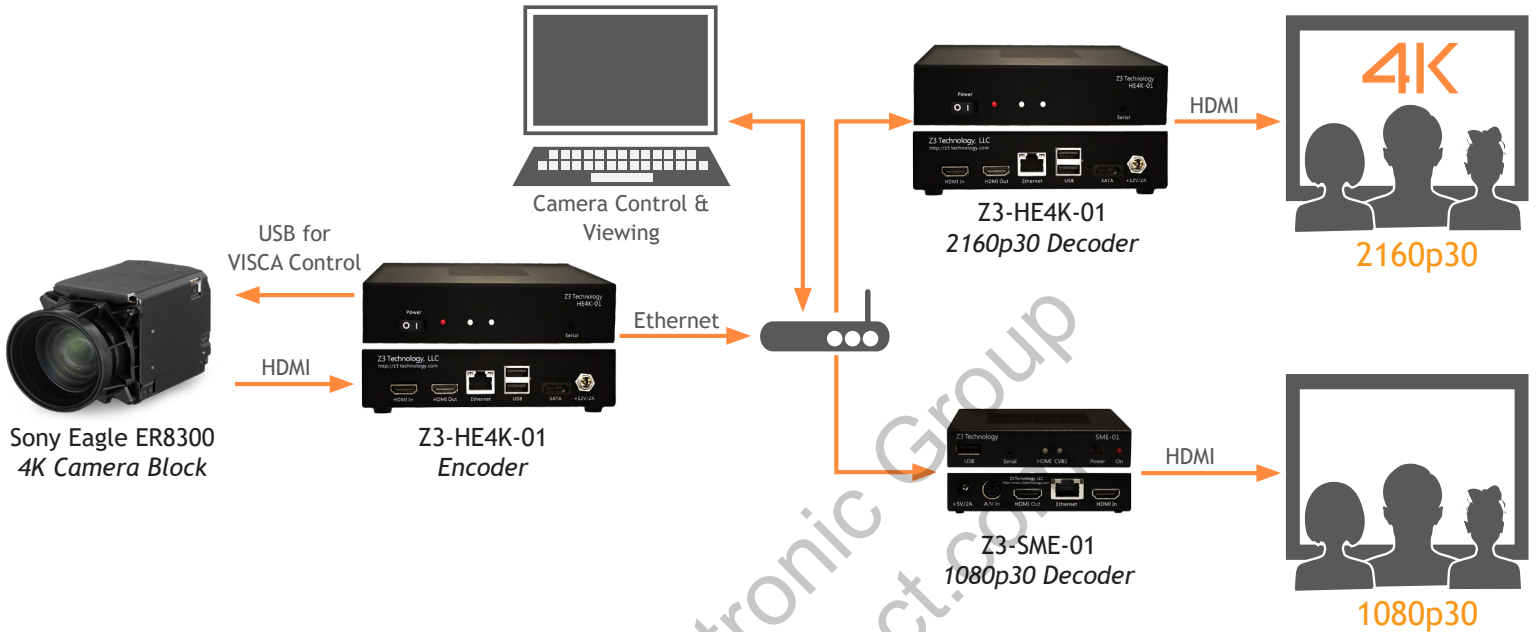
### OTHER

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: -1and0 to 65 degrees C at 20-80% Relative Humidity

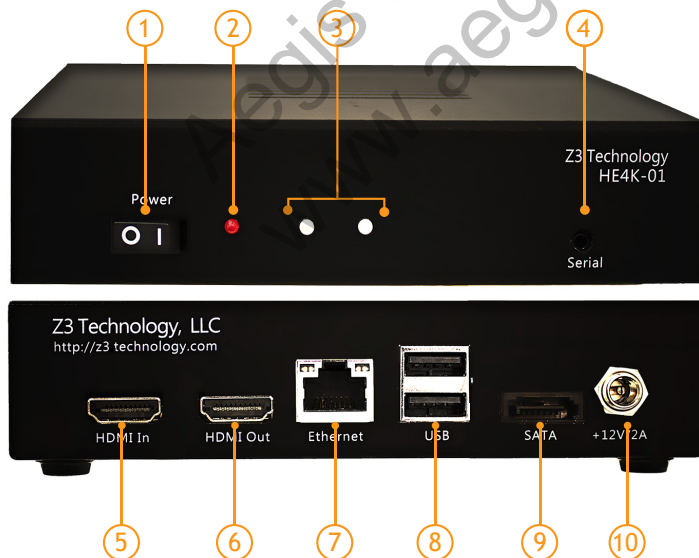
# MULTI-RESOLUTION ENCODING WITH THE Z3-HE4K-01



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