



FOUR 4K ENCODERS/ DECODERS

# H.264

H.264 ENCODING



RACK-MOUNT DESIGN



EASY-TO-USE CONTROLS

### VIDEO ENCODING

|                         | Encoder 1   | Encoder 2                   |
|-------------------------|---|-----------------------------|
| Interfaces              | 1x 4K HDMI Input<br>1x GigE   | 1x 4K HDMI Input<br>1x GigE |
|                         | Encoder 3   | Encoder 4                   |
|                         | 1x 4K HDMI Input<br>1x GigE   | 1x 4K HDMI Input<br>1x GigE |
| Supported Resolutions   | Each encoder supports H.264 video in resolutions up to 2160p30 (4K UHD)   |                             |
| Video Codecs            | H.264   |                             |
| Output Formats          | MPEG-2 TS, RTP and TS File*   |                             |
| Video Frame Rates (HD)  | 60p and 60i @ 1080p   |                             |
| Video Frame Rates (UHD) | 23.98p, 24p, 25p, 29.97p and 30p @ 2160p  |                             |
| Features                | <ul style="list-style-type: none"> <li>• Supports Unicast and Multicast</li> <li>• Seamless Bitrate and Frame Rate Changes</li> </ul> |                             |

### VIDEO DECODING

|                         | Decoder 1   | Decoder 2                    |
|-------------------------|---|------------------------------|
| Interfaces              | 1x 4K HDMI Output<br>1x GigE  | 1x 4K HDMI Output<br>1x GigE |
|                         | Decoder 3   | Decoder 4                    |
|                         | 1x 4K HDMI Output<br>1x GigE  | 1x 4K HDMI Output<br>1x GigE |
| Supported Resolutions   | Each decoder supports H.264 video in resolutions up to 2160p30 (4K UHD) |                              |
| Input Formats           | MPEG-2 TS, RTP and TS File*   |                              |
| Video Frame Rates (HD)  | 60p and 60i@ 1080p  |                              |
| Video Frame Rates (UHD) | 23.98p, 24p, 25p, 29.97p and 30p @ 2160p                                |                              |

### AUDIO DECODING

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

### AUDIO ENCODING

|                       |  |
|-----------------------|--|
| Interfaces            | Embedded HDMI Audio                                |
| Audio Codecs          | AAC-LC ADTS and AAC-HE ADTS                        |
| Optional Audio Codecs | AAC-LC LATM, AAC-HE LATM, AAC-HE V2, G.711 and PCM |
| Audio Bitrate         | 32 to 320 kbps                                     |

### SPECIFICATIONS

|            |   |
|------------|---|
| Dimensions | 430 x 410 x 42 mm (16.93 x 16.14 x 1.65 in) |
| Weight     | 5.56 kg (12.25 lb)                          |

### OTHER

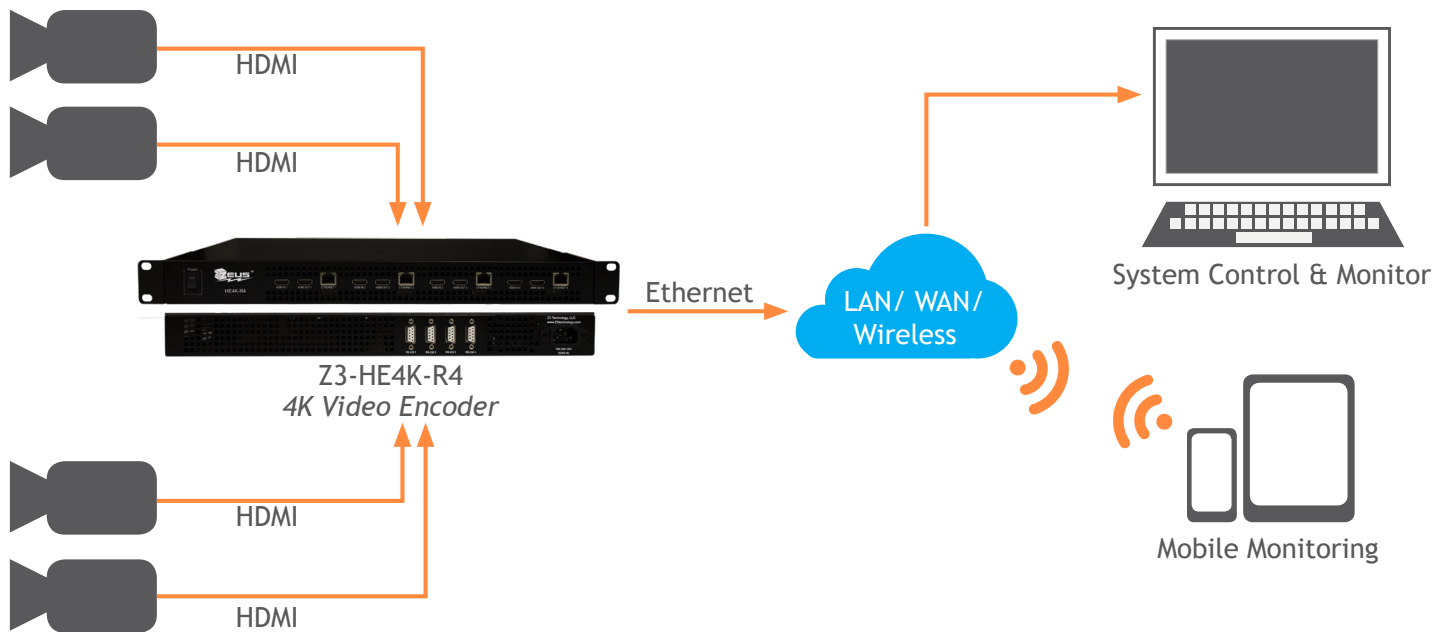
|                          |  |
|--------------------------|--|
| Additional Interfaces    | Encoder 1- 1x RS-232<br>Encoder 2- 1x RS-232<br>Encoder 3- 1x RS-232<br>Encoder 4- 1x RS-232                           |
| Software Control         | HTTP-Based GUI: Configuration and Software Update<br>RS-232: Configuration   |
| Power                    | 100-240 VAC  |
| Temperature and Humidity | Operating: 0 to +50 degrees C at 20-80% Relative Humidity<br>Storage: -10 to +65 degrees C at 20-80% Relative Humidity |

# FOUR CHANNEL 4K SECURITY ENCODING

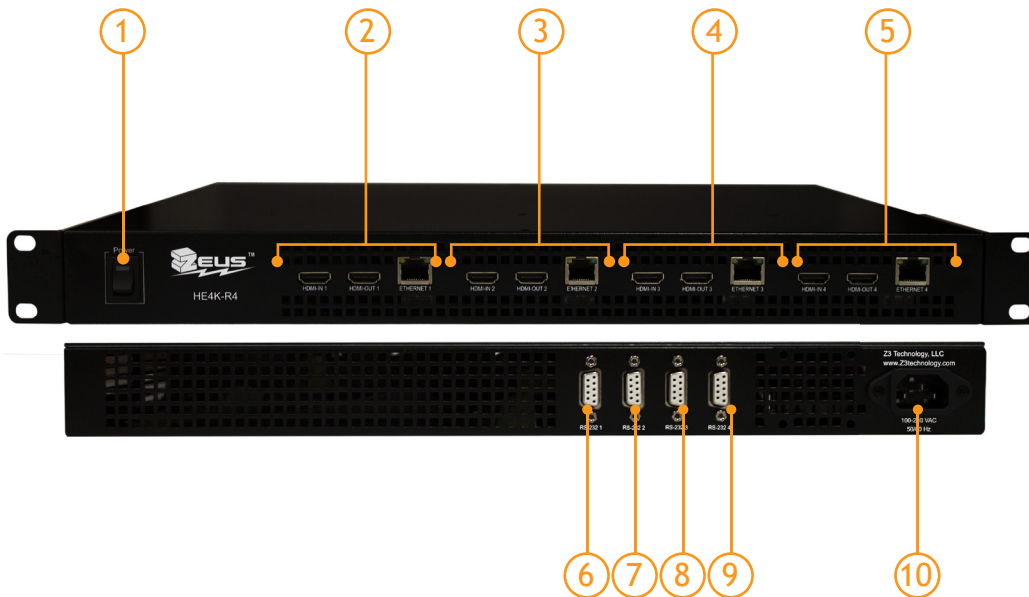
## Z3-HE4K-R4



The diagram below demonstrates a four channel 4K security solution utilizing the Z3-HE4K-R4. Four 4K sources are sending content via HDMI to the Z3-HE4K-R4 where it is encoded and sent over a private LAN/WAN or Wireless network to be made available for decoding and viewing in a control room or on a mobile device connected to the same network.



### OPERATING CONTROLS



- ① Power Switch
- ② Encoder 1  
1x HDMI In, 1x HDMI Out, 1x GigE
- ③ Encoder 2  
1x HDMI In, 1x HDMI Out, 1x GigE
- ④ Encoder 3  
1x HDMI In, 1x HDMI Out, 1x GigE
- ⑤ Encoder 4  
1x HDMI In, 1x HDMI Out, 1x GigE
- ⑥ RS-232 Port 1
- ⑦ RS-232 Port 2
- ⑧ RS-232 Port 3
- ⑨ RS-232 Port 4
- ⑩ 100-240 VAC Power

\*Contact Z3 Technology for Customized Product Options



sales@Z3technology.com • www.Z3technology.com • +1.402.323.0702

