



DUAL CHANNEL HD ENCODING

# FEC

PRO-MPEG FEC



CLOSED CAPTIONING



RACK-MOUNT DESIGN

### VIDEO ENCODING

Interfaces	<ul style="list-style-type: none"> <li>1- 3G-SDI Input</li> <li>1- Component Input</li> <li>1- HDMI Input</li> <li>1- ASI Output</li> <li>1- GigE</li> </ul>
Supported Resolutions	H.264 up to 1080p60 Dual Channel Encode up to 2x 1080p60
Video Codecs	H.264 and MPEG-2*
Output Formats	MPEG-2 TS, RTP, RTMP, RTSP, TSRTSP, MPTS and TS File
Video Frame Rates (SD)	25i, 29.97i and 30i
Video Frame Rates (HD)	24p, 25p, 30p, 50p, 59.94i, 60i and 60p
Features	<ul style="list-style-type: none"> <li>•Pro-MPEG Forward Error Correction (FEC) for Encode and Decode</li> <li>•Closed Captioning (EIA-608, EIA-708)</li> <li>•Standard Definition Encoding for ISDB-T, DVB-H and Others*</li> <li>•Supports Unicast and Multicast</li> <li>•High Quality Deinterlacer</li> </ul>

### AUDIO ENCODING

Interfaces	Analog Jacks, Embedded HDMI and Embedded SDI 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 384 kbps

### SPECIFICATIONS

Dimensions	430 x 200 x 44 mm (16.93 x 7.87 x 1.73 in)
Weight	2.76 kg (6.08 lb)

### VIDEO DECODING

Interfaces	<ul style="list-style-type: none"> <li>1- ASI Input</li> <li>1- 3G-SDI Output*</li> <li>1- HDMI Output</li> <li>1- GigE</li> </ul>
Supported Resolutions	H.264 BP, MP and HP up to 1080p60
Video Codecs	H.264 and MPEG-2*
Input Formats	MPEG-2 TS, RTP and TS File
Video Frame Rates (SD)	25i, 29.97i and 30i
Video Frame Rates (HD)	24p, 25p, 30p, 50p, 59.94i, 60i and 60p

### AUDIO DECODING

Audio Codecs	AAC-LC ADTS and AAC-HE ADTS
Audio Bitrate	32 to 384 kbps

### OTHER

Network Management	Device IP, Subnet Mask, Gateway
Additional Interfaces	2x USB 2.0, SATA2 and RS-232
Software Control	<ul style="list-style-type: none"> <li>HTTP-Based GUI: Configuration and Software Update</li> <li>LCD Panel: Configuration</li> <li>RS-232: Configuration</li> </ul>
Power	<ul style="list-style-type: none"> <li>100-240 VAC</li> <li>25W Typical Power Consumption</li> </ul>
Temperature and Humidity	<ul style="list-style-type: none"> <li>Operating: 0 to 40 Degrees C at 20-80% Relative Humidity</li> <li>Storage: -10 to 65 Degrees C at 20-80% Relative Humidity</li> </ul>

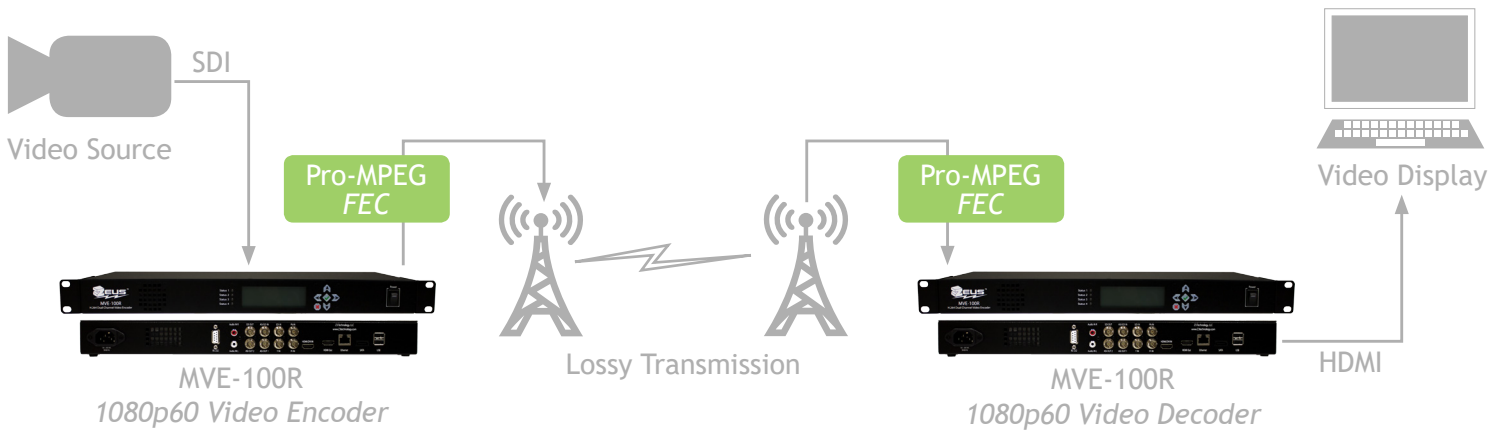
# FEC VIDEO STREAMING

## Z3-MVE-100R



Broadcasting ■ IP Streaming ■ Security and Surveillance ■ Remote Monitoring

The MVE-100R features Forward Error Correction (FEC) technology. This feature is especially helpful when streaming video over a lossy network. The diagram below illustrates a video source sending content via SDI to our MVE-100R. The SDI source is then encoded using H.264, after which the Pro-MPEG algorithm is applied to the encoded bit stream. The FEC coded bit stream is then sent over a lossy wireless network and received by another MVE-100R equipped with Pro-MPEG to correct network errors, decode H.264, and then present to a display for viewing.



## OPERATING CONTROLS

- ① Status LEDs
- ② LCD Display Panel
- ③ LCD Panel Controls
- ④ Power Switch
- ⑤ 100-240 VAC Power
- ⑥ RS-232
- ⑦ Analog Stereo
- ⑧ (Top to Bottom) -SDI Output, ASI Output
- ⑨ (Top to Bottom) -ASI/SDI Input, ASI Output
- ⑩ (Top to Bottom) -SDI Input, Y Input
- ⑪ (Top to Bottom) -Pb Input, Pr Input
- ⑫ HDMI/DVI Input
- ⑬ HDMI Output
- ⑭ GigE
- ⑮ SATA2
- ⑯ 2x USB 2.0

\*Contact Z<sup>3</sup> Technology for Customized Product Options



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