



Z3Cam™

Expand Your Reach

*H.265 and H.264 IP Video
Camera Solutions*

www.Z3technology.com

Z3Cam-DX™

Dual Spectrum IP Camera



Details

Camera Features

- 1/2.3in 4K CMOS image sensor
- Image capture up to 8.51 mega pixels
- 30x zoom in 2160p30 using Sony's patented Super Resolution zoom, 40x zoom in 1080p
- Noise reduction algorithm for high frequency and high detail areas
- Visibility enhancer ICR (Day and Night)
- High sensitivity image processor and wide dynamic range
- Leverages Sony's FCB-ER8530 4K camera module

Thermal Camera Features

- High contrast thermal imaging camera
- Integrated Shutter for imaging calibration
- Supports 320 x 240 resolution
- Pass Tamarisk control commands over IP via Web GUI or SSH
- Image control Wht Hot, Blk Hot, Invert Revert
- Leverages DRS Tamarisk camera module

Streaming Features

- H.265, H.264 or MJPEG encoded video over IP with no distance limitations
- Supports 4K UHD and HD resolutions up to 30 fps (2160p, 1080p, 720p, and lower)
- Outputs RTP, RTSP, MPEG-2 TS or RTMP*
- Simultaneously stream and/or record in multiple resolutions and bitrates
- Compatible with Wowza Streaming Engine™* and You Tube Live*
- Dual Camera Streaming
- Dual monitor view optional; or visible with thermal overlay picture-in-picture mode

Decode

- Compatible with ZEUS® HE265-DEC (also available from Z3 Technology)
- PC decoding

Specifications

Interfaces Gigabit Ethernet, USB 2.0, Line Level Audio Input and Composite Video Output

Power 7.5W typical while encoding H.265 video

Mount 1/4 20 UNC tripod screw hole on bottom of unit

Dimensions 121 x 125 x 62 mm (4.8 x 4.9 x 2.4 in)

Weight 955 g (2.1 lb)

Z3Cam.LX™

Lowlight eXtreme H.265 4K IP Camera



Details

Camera Features

- 35mm full frame CMOS sensor
- ISO 409,600/0.004 LX
- Long Exposure and High ISO noise reduction
- High sensitivity image processor
- Easily mount to gimbal or tripod, top and bottom bracket mount
- Additional composite input for dual camera set-up with dual monitoring viewing or Picture in Picture display
- Interchangeable E-mount FE lenses

Streaming Features

- H.265, H.264 or MJPEG encoded video over IP
- Supports 4K UHD and HD resolutions up to 29.97/25 (2160p, 1080p, 720p, and lower)
- Outputs RTP, RTSP, MPEG-2 TS or RTMP*
- Simultaneously stream and/or record in multiple resolutions and bitrates
- Supports unicast and multicast streaming

Control

- IP Control and Configuration
- RS-485/422
- Z3 web interface
- RS-232/GPIO
- Supports ONVIF® Profile S

Recording

Compressed USB Recording

Decode

- Compatible with ZEUS® HE265-DEC (also available from Z3 Technology)
- PC decoding

Specifications

Interfaces

Gigabit Ethernet, USB 2.0, Microphone Input and Composite Output

Power

23W typical while encoding H.265/HEVC video

Mount

1/4 20 UNC tripod screw hole on bottom of unit, Top and Bottom bracket mount

Dimensions

145 x 142 x 89 mm (5.7 x 5.6 x 3.5 in)

Weight

1035 g (2 lb 28 oz)

Z3Cam.4K™

H.265/H.264 4K IP Video Camera

Model: Z8300



Details

Camera Features

- 20x zoom using Sony Super Resolution Zoom feature
- Noise reduction algorithm for high frequency and high detail areas
- Visibility enhancer ICR (Day and Night)
- High sensitivity image processor
- Easily mount to tripod or mounting bracket
- Leverages Sony's FCB-ER8300 4K camera module

Streaming Features

- H.265, H.264 or MJPEG encoded video + AAC audio over IP with no additional equipment and no distance limitations
- Supports 4K UHD and HD resolutions up to 30 fps (2160p, 1080p, 720p, and lower)
- Outputs RTP, RTSP, MPEG-2 TS or RTMP*
- Simultaneously stream and/or record in multiple resolutions and bitrates
- Supports unicast and multicast streaming
- Compatible with Wowza Streaming Engine™, YouTube Live and Facebook Live

Control

- IP Control and Configuration
- Z3 web interface
- Pass Sony VISCA™ Camera Control Commands over IP
- Supports ONVIF® Profile S with Media Services 2.0

Recording

Compressed USB Recording

Decode

- Compatible with ZEUS® HE265-DEC (also available from Z3 Technology)
- PC decoding

Specifications

Interfaces

Gigabit Ethernet, USB 2.0, Audio Input and Composite Output

Power

7.5W typical while encoding H.265 video

Mount

1/4 20 UNC tripod screw hole on bottom of unit

Dimensions

144 x 64 x 66 mm (5.6 x 2.5 x 2.6 in)

Weight

818 g (1.8 lb)

Z3Cam•HD™

H.265/H.264 HD IP Video Camera



Details

Camera Features

- Full HD 30x optical zoom
- 2D/3D noise reduction algorithm for high frequency and high detail areas
- Visibility enhancer auto ICR (Day and Night)
- High sensitivity image processor
- Spherical privacy zone masking
- Leverages Sony's FCB-EV7520 HD camera block

Streaming Features

- H.265, H.264 or MJPEG encoded video + AAC audio over IP with no additional equipment and no distance limitations
- Supports HD resolutions up to 60 fps (1080p, 720p, and lower)
- Outputs RTP, RTSP, MPEG-2 TS or RTMP*
- Simultaneously stream and/or record in multiple resolutions and bitrates
- Supports unicast and multicast streaming
- Compatible with Wowza Streaming Engine™ and YouTube Live*

Control

- IP Control and Configuration
- Z3 web interface
- Pass Sony VISCA™ Camera Control Commands over IP
- Supports ONVIF® Profile S with Media Services 2.0

Recording

Compressed USB Recording

Decode

- Compatible with ZEUS® HE265-DEC (also available from Z3 Technology)
- PC decoding

Specifications

Interfaces

Gigabit Ethernet, USB 2.0, Micro-HDMI Output, Audio Input and Composite Output

Power

7.5W typical while encoding H.265 video

Mount

1/4 20 UNC tripod screw hole on bottom of unit

Dimensions

128 x 62 x 62 mm (5.0 x 2.4 x 2.4 in)

Weight

650 g (1.4 lbs)

HE265-DEC

4K Ultra HD H.265 Decoder



Details

Interfaces	1x 4K HDMI Output 2 x 3G-SDI Output	1 x USB 2.0 1 x USB 3.0
Supported Resolutions	HD resolutions up to 2160p30 (4K UHD), 1080p30, 1080p/i at 60fps and 720p60	
Video Codecs	MPEG-2, H.265 & H.264	
Input Formats	UDP/TSRTP, SRT, RTMP, HLS, Zixi, RTSP Client	
Output Formats	UDP, RTP, SRT, RTMP Client, Zixi	
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	
Closed Captions	EIA708, DUP EN on screen display 300743	
Audio Codecs	MPEGIL2, AAC-LC, Dolby Digital Passthrough	

Specifications

Software Control	HTTP-Based GUI: Configuration and Software Update MUSB: Configuration	
Power	12VDC	
Dimensions (L x W x H)	260 x 130 x 27 mm (10.2 x 5.0 x 1.0 in)	
Weight	608 g (1.34 lb)	

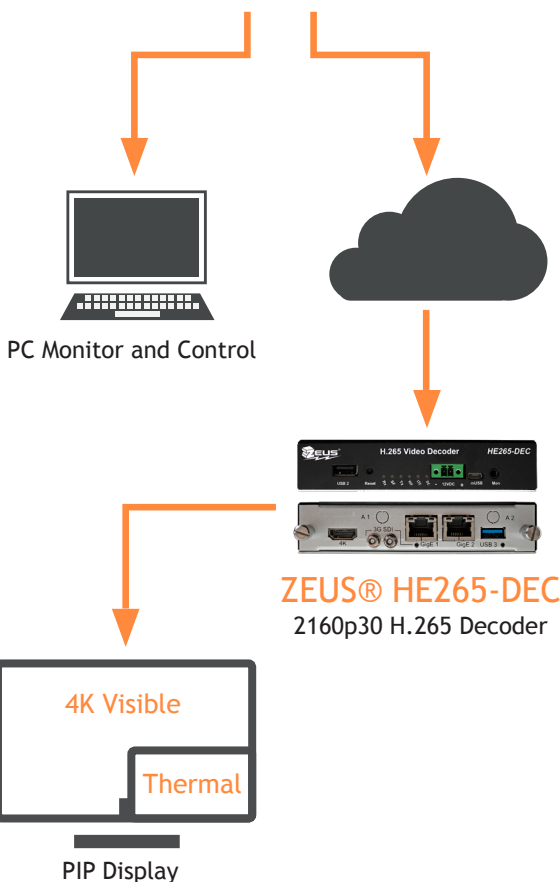
USE CASE

The use case below showcases how the Z3Cam-DX can be incorporated into an application. The Z3Cam-DX is capturing video from both the visible and thermal cameras and sending over IP to be decoded by the HE265-DEC and shown as a PIP display. The video is also available for monitoring by a PC over ethernet.



Z3CAM-DX

Visible & Thermal 4K Camera



PC Monitor and Control

ZEUS® HE265-DEC
2160p30 H.265 Decoder

PIP Display

DISTRIBUTORS

Aegis Electronic Group, Inc.

USA

Phone: +1.760.729.2026

Website: www.aegiselect.com

JMC Group

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Website: www.jmccomputers.it

Heartland Video Systems

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Phase1 Technology

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ABOUT Z3

Z³ Technology is an industry-leading, USA-based manufacturer of production-ready embedded multimedia solutions and IP camera systems. From our founders to our world-class engineers to our sales and customer service team, we understand your requirements and speak your language. Our experience allows us to provide cost-effective solutions to meet your product requirements. With the assistance of our robust worldwide distribution and sales networks, we can provide a simple solution for your multimedia needs.



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