



Z3Cam™

Expand Your Reach

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

www.Z3technology.com



EXPAND YOUR REACH

Z3's Camera Solutions bring you the latest video compression technology to solve the dilemma of high quality video requiring too much bandwidth. Never before has integrating H.265 video in resolutions up to 4K been so simple and cost-effective.

H.265 H.264

H.265/H.264 Encoded Video

Choose to output highly efficient H.265 compressed video or industry standard H.264 video.



Display Features

Resize your video into lower resolutions while maintaining full field of view. View multiple cameras with PIP display.



ONVIF Profile S Compliant

ONVIF® Profile S adds additional remote camera control options and easy integration into existing surveillance infrastructures.



Remote Camera Control

Our Camera Solutions feature remote control via VMS, webserver, SSH or API. PTZ via RS-485 and integrated control/configuration support for cameras including Sony VISCA®, DRS, FLIR® and others over the IP network.

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.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)	145 x 130 x 34 mm (4.08 x 10 x 0.625in)	
Weight	608 g (1.34 lb)	

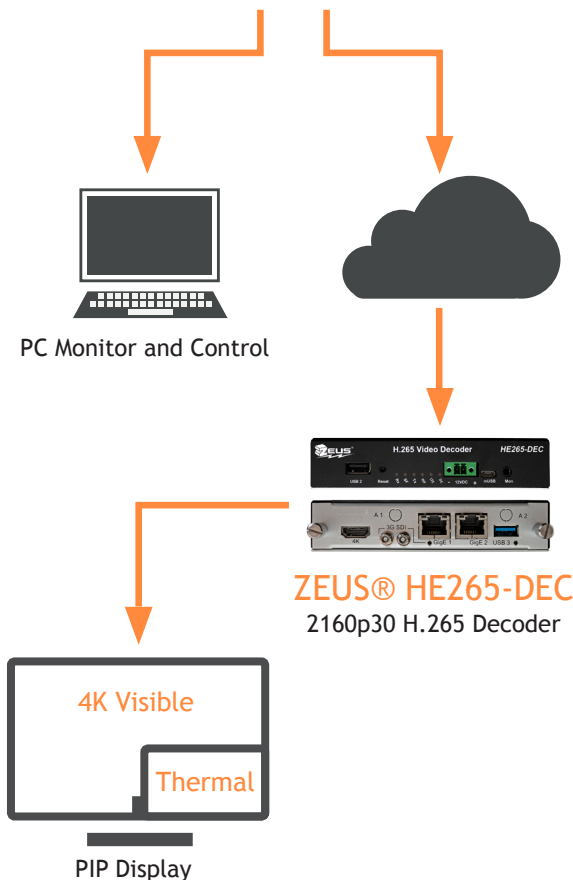
USE CASE

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



4K Visible

Thermal

PIP Display

DISTRIBUTORS

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Phone: +1.760.729.2026
Website: www.aegiselect.com

Phase1 Technology **USA**

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Heartland Video Systems **USA**

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Markertek **USA**

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JMC Group **Italy**

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Videoset **Israel**

Phone: +972.54.2424240
Website: www.videoset.com

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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