Z3Cam™
Expand Your Reach

H.265 and H.264 IP Video Camera Solutions

www.Z3technology.com
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)

*May be subject to export control
## 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

<table>
<thead>
<tr>
<th>Interface</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Interfaces</strong></td>
<td>Gigabit Ethernet, USB 2.0, Microphone Input and Composite Output</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>23W typical while encoding H.265/HEVC video</td>
</tr>
<tr>
<td><strong>Mount</strong></td>
<td>1/4 20 UNC tripod screw hole on bottom of unit, Top and Bottom bracket mount</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>145 x 142 x 89 mm (5.7 x 5.6 x 3.5 in)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>1035 g (2 lb 28 oz)</td>
</tr>
</tbody>
</table>
**Details**

**Camera Features**
- 30x optical 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**

<table>
<thead>
<tr>
<th>Interfaces</th>
<th>Gigabit Ethernet, USB 2.0, Audio Input and Composite Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>7.5W typical while encoding H.265 video</td>
</tr>
<tr>
<td>Mount</td>
<td>1/4 20 UNC tripod screw hole on bottom of unit</td>
</tr>
<tr>
<td>Dimensions</td>
<td>144 x 64 x 66 mm (5.6 x 2.5 x 2.6 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>818 g (1.8 lb)</td>
</tr>
</tbody>
</table>
H.265/H.264 4K IP Video Camera
Model: Z8530/Z8550

Details

Camera Features
- 30x optical zoom using Sony’s Super Resolution Zoom, 40X optical zoom in 1080p30 mode using SRZ
- Genlock multiple cameras with External Sync on the Z3Cam-4K model Z8550
- Noise reduction algorithm for high frequency and high detail areas
- Visibility enhancer ICR (Day and Night)
- High sensitivity image processor
- Small 4K camera body footprint similar in size to the HD camera body
- Easily mount to tripod or mounting bracket

Streaming Features
- H.265, H.264 or MJPEG encoded video 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™, Facebook Live and YouTube Live

Control
- Z3 web interface for control and configuration
- 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, Composite Output, MMCX Composite Input* and RS-485 Input*

Power
- 7.5W typical while encoding H.265 video

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

Dimensions
- 130 x 61 x 62 mm (5.1 x 2.4 x 2.4 in)

Weight
- 682 g (1.5 lb)

*Z3Cam-4K Model Z8550 Only
### 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

<table>
<thead>
<tr>
<th>Interfaces</th>
<th>Gigabit Ethernet, USB 2.0, Micro-HDMI Output, Audio Input and Composite Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>7.5W typical while encoding H.265 video</td>
</tr>
<tr>
<td>Mount</td>
<td>1/4 20 UNC tripod screw hole on bottom of unit</td>
</tr>
<tr>
<td>Dimensions</td>
<td>128 x 62 x 62 mm (5.0 x 2.4 x 2.4 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>650 g (1.4 lbs)</td>
</tr>
</tbody>
</table>
## Details

<table>
<thead>
<tr>
<th>Interface</th>
<th>1x 4K HDMI Output</th>
<th>2 x 3G-SDI Output</th>
<th>1 x USB 2.0</th>
<th>1 x USB 3.0</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Supported Resolutions</th>
<th>HD resolutions up to 2160p30 (4K UHD), 1080p30, 1080p/i at 60fps and 720p60</th>
</tr>
</thead>
</table>

**Video Codecs**

- MPEG-2, H.265 & H.264

**Input Formats**

- UDP/TSRT, 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

<table>
<thead>
<tr>
<th>Closed Captions</th>
<th>EIA708, DUP EN on screen display 300743</th>
</tr>
</thead>
</table>

**Audio Codecs**

- MPEGIL2, AAC-LC, Dolby Digital Passthrough

## Specifications

<table>
<thead>
<tr>
<th>Software Control</th>
<th>HTTP-Based GUI: Configuration and Software Update</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MUSB: Configuration</td>
</tr>
</tbody>
</table>

**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)
DISTRIBUTORS

Aegis Electronic Group, Inc.  
USA  
Phone: +1.760.729.2026  
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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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