

# Minrray®

## HD Video Conference PTZ Camera

# UV510A

The UV510A is a small form factor (150mm x 150mm footprint), fully featured PTZ camera designed for boardrooms and teaching spaces requiring multiple signal interfaces. The USB 2 and 3 versions are perfect for video conference applications (soft codec to a PC or stand-alone appliance) requiring a high quality PTZ camera.

All video interfaces (physical and LAN) output a video signal at the same time. In the case of the ST model (HDMI, 3G-SDI and LAN) this is a true triple output camera. This feature allows you to send signal to a local

PC, VC Codec or matrix switcher and stream H.264 or H.265 at the same resolution and frame rate of the video outputs.







### Typical Applications

- Larger Boardrooms
- Huddle Spaces
- Lecture and Teaching Spaces

### Case Colour

- Matte Silver (Standard)
- Black (Available)

### Video Output Options

- HDMI 
- LAN 
- USB2 
- USB3 
- HD-BaseT 
- 3G-SDI 



## UV510A

### Optical Zoom Lens Options

- 5x (3.1mm - 15.5mm)
- 10x (4.7mm - 47mm)
- 12x (3.9mm - 46.8mm)
- 20x (5.5mm-110mm)

### Digital Zoom 10x

### Control

- RS232 / LAN / IR

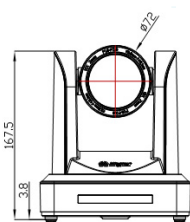
### Internal image rotation for inverted ceiling mounting

### Web browser setup tool

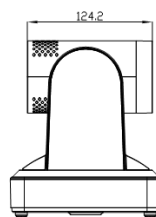
- On-site commissioning and maintenance

**Dimensions (W x D x H):**  
150mm x 150mm x 167.5mm

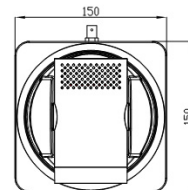
**Weight:**  
1.4KG



Front View



Side View



From Above

| INTERFACE TYPE                                                                                                                                                                                                                                                                                                                                                                                        | SUPPORTED OUTPUT RESOLUTIONS <sup>i</sup>                                                                                                                               |                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>ST Model</b><br><ul style="list-style-type: none"> <li><span style="color: #0070C0;">■</span> HDMI</li> <li><span style="color: #0070C0;">■</span> 3G-SDI</li> <li><span style="color: #0070C0;">■</span> LAN</li> <li><span style="color: #0070C0;">■</span> Audio In</li> <li><span style="color: #0070C0;">■</span> RS232 Loop</li> <li><span style="color: #0070C0;">■</span> RS485</li> </ul> | <b>1080p</b> 60/50/30/25/59.94/29.97<br><b>1080i</b> 60/50/59.94<br><b>720p</b> 60/50/30/25/59.94/29.97                                                                 |                                                                                                                       |
| <b>U2 Model</b><br><ul style="list-style-type: none"> <li><span style="color: #0070C0;">■</span> USB2</li> <li><span style="color: #0070C0;">■</span> LAN</li> <li><span style="color: #0070C0;">■</span> Audio In</li> <li><span style="color: #0070C0;">■</span> RS232 Loop</li> </ul>                                                                                                              | 1920x1080, 1280x720, 1024x768, 1024x576, 960x540,<br>800x600, 640x360, 720x576, 720x480, 640x480,<br>352x288, 320x180, 320x240, 176x144<br><br>All at P30/25/20/15/10/5 |                                                                                                                       |
| <b>U3 Model</b><br><ul style="list-style-type: none"> <li><span style="color: #0070C0;">■</span> USB3</li> <li><span style="color: #0070C0;">■</span> LAN</li> <li><span style="color: #0070C0;">■</span> Audio In</li> <li><span style="color: #0070C0;">■</span> RS232 Loop</li> </ul>                                                                                                              | <b>USB3 / LAN Resolutions</b><br><br><b>1080p</b> 60/50/30/25<br><b>720p</b> 30/25/15/10<br><br>960x540p30<br>640x360p30                                                | <b>USB2 Compatibility <sup>ii</sup></b><br><br>960x540p30<br>640x360p30<br>1280x720p15/10<br>720x576p30<br>720x480p30 |
| <b>HM Model</b><br><ul style="list-style-type: none"> <li><span style="color: #0070C0;">■</span> HDMI</li> <li><span style="color: #0070C0;">■</span> LAN</li> <li><span style="color: #0070C0;">■</span> RS232(No Loop)</li> <li><span style="color: #0070C0;">■</span> (No Audio In)</li> </ul>                                                                                                     | <b>1080p</b> 60/50/30/25/59.94/29.97<br><b>1080i</b> 60/50/59.94<br><b>720p</b> 60/50/30/25/59.94/29.97                                                                 |                                                                                                                       |
| <b>HD Model</b><br><ul style="list-style-type: none"> <li><span style="color: #0070C0;">■</span> HD-BaseT</li> <li><span style="color: #0070C0;">■</span> LAN</li> <li><span style="color: #0070C0;">■</span> Audio In</li> <li><span style="color: #0070C0;">■</span> (No RS232)</li> </ul>                                                                                                          | <b>1080p</b> 60/50/30/25/59.94/29.97<br><b>1080i</b> 60/50/59.94<br><b>720p</b> 60/50/30/25/59.94/29.97                                                                 |                                                                                                                       |

### Product Code

- ST** - Standard Interface
- U2** - USB 2.0
- U3** - USB 3.0
- HM** - HDMI
- HD** - HD BaseT

## UV510AS-xx-xx-IR

- 05** - 5X optical zoom
- 10** - 10X optical zoom
- 12** - 12X optical zoom
- 20** - 20X optical zoom

<sup>i</sup> Selected output resolution will apply to all output interfaces

<sup>ii</sup> Installations requiring USB2 only connection should be ordered with a USB2 camera, limited compatibility with some software when USB3 operating in USB2 mode.

## Video Output

| MODEL                              | UV510A-05                                                                                                                                               | UV510A-10                                 | UV510A-12                                   | UV510A-20                                  |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|--------------------------------------------|
| <b>Optical Zoom Lens</b>           | <b>5X</b><br>(3.1mm-15.5mm)<br>F1.8 - F2.8                                                                                                              | <b>10X</b><br>(4.7mm-47mm)<br>F1.6 - F3.0 | <b>12X</b><br>(3.9mm-46.8mm)<br>F1.8 - F2.4 | <b>20X</b><br>(5.5mm-110mm)<br>F1.6 - F3.5 |
| <b>View Angle</b>                  | 20° - 83.7°                                                                                                                                             | 6.43° - 60.9°                             | 6.3° - 72.5°                                | 3.3° - 54.7°                               |
| <b>Sensor</b>                      | 1/2.8 inch high quality HD CMOS sensor                                                                                                                  |                                           |                                             |                                            |
| <b>Digital Zoom <sup>iii</sup></b> | 10X                                                                                                                                                     |                                           |                                             |                                            |
| <b>Effective Pixels</b>            | 16:9 2.07 megapixel                                                                                                                                     |                                           |                                             |                                            |
| <b>Minimum Illumination</b>        | 0.5Lux (F1.8, AGC ON)                                                                                                                                   |                                           |                                             |                                            |
| <b>Focus</b>                       | Auto / Manual / A key focus                                                                                                                             |                                           |                                             |                                            |
| <b>Video Adjustment</b>            | Brightness, Colour, Saturation, Contrast, Sharpness, B/W mode, Gamma curve                                                                              |                                           |                                             |                                            |
| <b>SNR</b>                         | >55dB                                                                                                                                                   |                                           |                                             |                                            |
| INPUT/OUTPUT INTERFACE             |                                                                                                                                                         |                                           |                                             |                                            |
| <b>Video Compression Format</b>    | H.264, H.265                                                                                                                                            |                                           |                                             |                                            |
| <b>Control Protocol</b>            | VISCA/PELCO-D/PELCO-P Baud Rate :115200/9600/4800/2400bps                                                                                               |                                           |                                             |                                            |
| <b>Audio</b>                       | A-IN 3.5mm stereo. Codecs supported AAC/MP3/G.711A                                                                                                      |                                           |                                             |                                            |
| <b>Network Interface</b>           | 100M IP port (100BASE-TX) 5G WIFI (optional)                                                                                                            |                                           |                                             |                                            |
| <b>Power Adaptor</b>               | Input: AC110V-AC220V. Output: DC12V/2A                                                                                                                  |                                           |                                             |                                            |
| <b>Input current</b>               | 1A (Maximum)                                                                                                                                            |                                           |                                             |                                            |
| PTZ PARAMETER                      |                                                                                                                                                         |                                           |                                             |                                            |
| <b>Pan/Tilt Rotation</b>           | +/- 170°, 30° ~ +90°                                                                                                                                    |                                           |                                             |                                            |
| <b>Pan Control Speed</b>           | 0.1-60°/sec                                                                                                                                             |                                           |                                             |                                            |
| <b>Tilt Control Speed</b>          | 0.1-30°/sec                                                                                                                                             |                                           |                                             |                                            |
| <b>Preset Speed</b>                | Pan: 60°/sec, Tilt: 30°/sec                                                                                                                             |                                           |                                             |                                            |
| <b>Preset Number</b>               | 255 presets (10 presets by remote controller)                                                                                                           |                                           |                                             |                                            |
| OTHER PARAMETERS                   |                                                                                                                                                         |                                           |                                             |                                            |
| <b>Weight</b>                      | 1.4KG                                                                                                                                                   |                                           |                                             |                                            |
| <b>Dimension (W x D x H)</b>       | 150mm x 150mm x 167.5mm                                                                                                                                 |                                           |                                             |                                            |
| ACCESSORIES                        |                                                                                                                                                         |                                           |                                             |                                            |
| <b>Included</b>                    | 12V/2A power supply, RS232 control line, USB3.0 connection line (U3 model), USB2.0 connection line (U2 model), remote controller, Manual, Warranty card |                                           |                                             |                                            |

<sup>iii</sup> Digital zoom is enabled/disabled via internal menu