

## MegaView® 2

H.264 All-in-One Motorized P-Iris Lens Day/Night IR Indoor/Outdoor Bullet-Style IP Cameras with Optional Wide Dynamic Range (WDR)

### Camera Models

| 1080p        | 1080p WDR   | 3 Megapixel | 3 Megapixel WDR | 5 Megapixel  | 10 Megapixel |
|--------------|-------------|-------------|-----------------|--------------|--------------|
| AV2225PMIR   | AV2226PMIR  | AV3225PMIR  | AV3226PMIR      | AV5225PMIR   | AV10225PMIR  |
| AV2225PMIR-A | AV2226PMTIR | AV3225PMTIR | AV3226PMIR-A    | AV5225PMIR-A | AV10225PMTIR |
| AV2225PMTIR  |             |             | AV3226PMTIR     | AV5225PMTIR  |              |



MegaView® 2 multi-megapixel cameras provide ample resolution to zoom-in for details in live or recorded video. These indoor/outdoor all-in-one solutions integrate a 1080p, 3-, 5-, or 10-megapixel camera with fast frame rates and an IR corrected motorized wide angle or telephoto, P-iris lens into an IP66 environmental rated, tamper-resistant bullet-style housing. H.264 compression reduces bandwidth and storage requirements while delivering full frame rates and full resolution without sacrificing image quality.

**Integrated Motorized Lens with Remote Focus and Zoom**

**P-Iris Control for Best Depth of Field and Image Clarity**

**Wide Angle or Telephoto Lens Option**

**All-in-One Bullet-Style Solution**

**True Day/Night with IR Cut Filter**

**Weather Resistant IP66 Rated**

**Audio Input/Output (-A Models)**

**Dual Mode: 1080p/10MP on 10MP Models**

**Pixel Binning Mode on 3, 5, and 10MP Models**

**IR LEDs**

**Wide Dynamic Range Available on AV2226 AV3226 Models**

**Casino Mode™ Maintains at Least 30fps on AV2225 Models**

**Dual Encoder H.264/MJPEG**

### Features:

- Remote Focus/Zoom Motorized P-Iris Lens
- P-Iris Control to Get Best Depth of Field and Image Clarity
- Wide Angle or Telephoto Lens Options
- Optional True WDR up to 100dB at Full Resolution Available on Some 1080p and 3MP Models: See Clearly in Shaded and Bright Light Conditions Simultaneously
- Optional Audio
- Casino Mode™ Guarantees Continuous 30fps Frame Rate Required by Gaming Industry Regulations (AV2225 Models)
- Binning Mode for Strong Low Light Performance on 3MP, 5MP and 10MP Resolutions
- True Day/Night Functionality with Mechanical IR Cut Filter and IR LEDs
- Outdoor Rated IP66 and Tamper-Resistant Housing
- Total PoE Solution (No External Power Required for IR LEDs)
- PoE and Auxiliary Power: 12-48V DC/24V AC
- Easily Adjustable 3-Axis Wall Mount, Junction Box Included
- Dual Encoder H.264/MJPEG
- Privacy Mask, Motion Detection, Flexible Cropping, Bit Rate Control, Multi-Streaming and Forensic Zooming
- Fast Frame Rates
- PSIA Conformant
- New User-Friendly Webpage
- Made in the USA

3-Axis Arm Adjustment



### Model Specific Features

| Model   | Resolution | Frame Rate | Features     |         |
|---------|------------|------------|--------------|---------|
| AV2225  | 1080p      | 31fps      | Casino Mode™ |         |
| AV2226  | 1080p      | 30fps      | WDR          |         |
| AV3225  | 3MP        | 21fps      |              | Binning |
| AV3226  | 3MP        | 21fps      | WDR          | Binning |
| AV5225  | 5MP        | 14fps      |              | Binning |
| AV10225 | 10MP       | 7fps       |              | Binning |

### Options

|       |  |
|-------|--|
| PMIR  | Wide Angle Lens w/ Remote Focus/Zoom, P-Iris, Day/Night, IR LEDs |
| PMTIR | Telephoto Lens w/ Remote Focus/Zoom, P-Iris, Day/Night, IR LEDs  |
| -A    | Audio  |



Camera Imaging Specifications

|                             |                                    | WDR   |   |   | WDR   |   |  |
|-----------------------------|------------------------------------|---|---|---|---|---|--|
| Model                       |                                    | AV2225  | AV2226  | AV3225  | AV3226  | AV5225  | AV10225  |
| <b>Image Sensor (CMOS)</b>  |                                    | 2.07MP (1080p)  | 2.07MP (1080p)*   | 3MP*  | 3MP   | 5MP   | 10MP   |
| <b>Optical Format</b>       |                                    | 1/2.7"  | 1/3.2"  | 1/2.5"  | 1/2.5"  | 1/2.5"  | 1/2.3"   |
| <b>Pixel Pitch</b>          |                                    | 3µm   | 2.2µm   | 2.2µm   | 2.2µm   | 2.2µm   | 1.67µm   |
| <b>Minimum Illumination</b> | Color (Day Mode)                   | 0.1 Lux   | 0.3 Lux   | 0.3 Lux   | 0.3 Lux   | 0.3 Lux   | 0.42 Lux   |
|                             | Color Binning (Day Mode)           | -   | -   | 0.15 Lux  | 0.15 Lux  | 0.15 Lux  | 0.21 Lux   |
|                             | B/W (Night Mode)                   | 0 Lux, IR sensitive                                     | 0 Lux, IR sensitive                                     | 0 Lux, IR sensitive                                     | 0 Lux, IR sensitive   | 0 Lux, IR sensitive   | 0 Lux, IR sensitive  |
| <b>Full FOV Resolution</b>  |                                    | 1920 H x 1080 V   | 1920 H x 1080 V   | 2048 H x 1536 V   | 2048 H x 1536 V   | 2592 H x 1944 V   | 3648 H x 2752 V  |
| <b>1/4 Resolution</b>       |                                    | 960 H x 540 V   | 960 H x 540 V   | 1024 H x 768 V  | 1024 H x 768 V  | 1296 H x 972 V  | 1824 H x 1376 V  |
| <b>Dynamic Range</b>        |                                    | 69dB  | WDR up to 100dB   | 70.1dB  | WDR up to 100dB   | 70.1dB  | 57.2dB   |
| <b>Maximum SNR</b>          |                                    | 45dB  | 49dB  | 45dB  | 49dB  | 45dB  | 40dB   |
| <b>Frame Rates</b>          | At Max Resolution                  | 31fps (1920 x 1080)                                     | 30fps (1920 x 1080)                                     | 21fps (2048 x 1536)                                     | 21fps (2048 x 1536)   | 14fps (2592 x 1944)   | 7fps (3648 x 2752)   |
|                             | Cropped                            | 42fps (1280 x 1024)                                     | 41fps (1280 x 1024)                                     | 29fps (1920 x 1080)<br>41fps (1280 x 1024)              | 30fps (1920 x 1080)<br>41fps (1280 x 1024)  | 21fps (2048 x 1536)<br>29fps (1920 x 1080)<br>41fps (1280 x 1024) | 12fps (2592 x 1944)<br>18fps (2048 x 1536)<br>25fps (1920 x 1080)<br>37fps (1280 x 1024) |
|                             | Binning Mode                       | -   | -   | 46fps (1024 x 768)<br>64fps (960 x 540)                 | 21fps (1024 x 768)<br>27fps (800 x 600)<br>31fps (960 x 540)<br>32fps (640 x 512) | 34fps (1296 x 972)<br>46fps (1024 x 768)<br>64fps (960 x 540)     | 29fps (1920 x 1080)<br>26fps (1824 x 1376)<br>43fps (1296 x 972)<br>54fps (1024 x 768)   |
| <b>Lens</b>                 | Wide Angle Motorized (PMIR Models) | 3-9mm, 1/2.7", F1.2, RZ, RF, P-iris<br>H-FOV = 115°-37° | 3-9mm, 1/2.7", F1.2, RZ, RF, P-iris<br>H-FOV = 82°-27°  | 3-9mm, 1/2.7", F1.2, RZ, RF, P-iris,<br>H-FOV = 87°-29° | 3-9mm, 1/2.7", F1.2, RZ, RF, P-iris<br>H-FOV = 87°-29°                            | 3.6-9mm, 1/2.5", F1.3, RZ, RF, P-iris,<br>H-FOV = 96°-36°         | 4.7-9mm, 1/2.3", F1.5, RZ, RF, P-iris<br>H-FOV = 78.8°-37°                               |
|                             | Telephoto Motorized (PMTIR Models) | 8-22mm, 1/2.7", F1.6, RZ, RF, P-iris<br>H-FOV = 42°-16° | 8-22mm, 1/2.7", F1.6, RZ, RF, P-iris<br>H-FOV = 30°-12° | 8-22mm, 1/2.7", F1.6, RZ, RF, P-iris<br>H-FOV = 28°-12° | 8-22mm, 1/2.7", F1.6, RZ, RF, P-iris<br>H-FOV = 32°-12°                           | 9-22mm, 1/2.5", F2.0, RZ, RF, P-iris<br>H-FOV = 38°-16°           | 12-22mm, 1/2.3", F2.2, RZ, RF, P-iris<br>H-FOV = 30°-17°                                 |

\* Effective

|                          |                          |   |
|--------------------------|--------------------------|---|
| <b>Data Transmission</b> | <b>Compression Type</b>  | H.264 (MPEG-4, Part 10)/Motion JPEG<br>21 levels of quality |
|                          | <b>Protocols</b>         | RTSP, RTP/TCP, RTP/UDP, HTTP, DHCP, TFTP                    |
|                          | <b>Network Interface</b> | 100Base-T Ethernet Network Interface                        |
|                          | <b>Multi-Streaming</b>   | 8 non-identical streams                                     |

|   |  |
|---|--|
| <b>Programmability</b>  | Remote focus, remote zoom and P-iris Control   |
|   | Motion detection and privacy mask with up to 1024 detection zones                            |
|   | Auto adjustment between WDR and LDR modes (WDR models only)                                  |
|   | Programmable shutter speed to help control motion blur                                       |
|   | Pixel binning mode (3, 5 and 10MP)   |
|   | Casino Mode™ maintains 30fps (AV2225 model)  |
|   | Flexible Cropping (resolution windowing down to 1x1 pixel for JPEG and 2x2 pixels for H.264) |
|   | Low light noise filter control   |
|   | Bit rate and bandwidth limitation control  |
|   | Backlight compensation and multi-matrix white balance  |
|   | 50/60Hz selectable flicker control   |
|   | Electronic pan, tilt, zoom (PTZ) and image flip 180°   |
| Programmable resolution, brightness, saturation, gamma, sharpness, tint |  |

|                   |                          |  |
|-------------------|--------------------------|--|
| <b>Compliance</b> | <b>Industry Standard</b> | PSIA Conformant  |
|                   | <b>Listings</b>          | UL (CB)  |
|                   | <b>FCC Compliance</b>    | 47 CFR 15 Class A  |
|                   | <b>Environmental</b>     | RoHS, REACH, WEEE  |
|                   | <b>Markings</b>          | (CE) EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1 |
|                   | <b>Mechanical</b>        | IP66 (EN60529)   |

|                      |                                 |                                |
|----------------------|---------------------------------|--------------------------------|
| <b>Environmental</b> | <b>Operating temperature</b>    | -40°C (-40°F) to +50°C (122°F) |
|                      | <b>Stable image temperature</b> | 0°C (32°F) to +50°C (122°F)    |
|                      | <b>Storage temperature</b>      | -40°C (-40°F) to +60°C (140°F) |
|                      | <b>Humidity</b>                 | 0% to 90% (non-condensing)     |

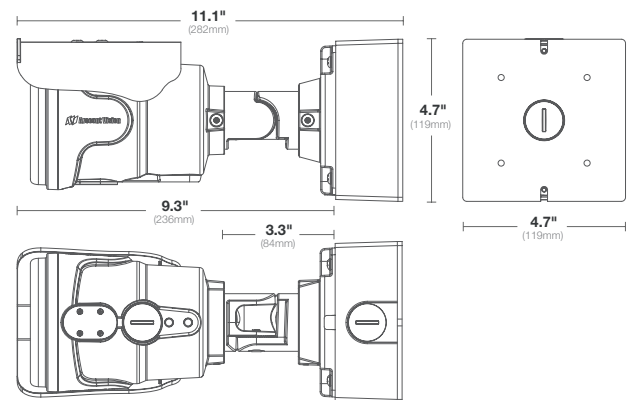
|                   |                            |                                    |
|-------------------|----------------------------|------------------------------------|
| <b>Electrical</b> | <b>Alarm Input/Output</b>  | General purpose opto-coupled input |
|                   | <b>Power Over Ethernet</b> | PoE 802.3af, Class 2               |
|                   | <b>Auxiliary Power</b>     | 12-48V DC, 24V AC                  |

|  |               |              |
|--|---------------|--------------|
| <b>Max Power Consumption</b><br>(Watts DC power) | <b>Model</b>  | <b>Watts</b> |
|  | AV2225        | 11.3         |
|  | AV2226/AV3226 | 12.4         |
|  | AV3225/AV5225 | 11.5         |
|  | AV10225       | 11.8         |

|   |                     |                             |
|---|---------------------|-----------------------------|
| <b>Audio Electrical</b><br>(-A models only) | <b>Streaming</b>    | Two-way                     |
|   | <b>Compression</b>  | G.711 PCM 8 kHz             |
|   | <b>Input/output</b> | Microphone in / line output |

|                       |                            |   |
|-----------------------|----------------------------|---|
| <b>IR Illuminator</b> | PMIR Model                 | 48 pcs 850nm LEDs / 30 meter IR distance (max) / 50° IR angle |
|                       | PMTIR Model                | 4 pcs 850nm LEDs / 60 meter IR distance (max) / 33° IR angle  |
|                       | No external power required |   |

|                   |  |   |
|-------------------|--|---|
| <b>Mechanical</b> | <b>Casing</b>  | Die-casting aluminum cylindrical (Bullet-style) housing<br>IP66 weather proof standard<br>Tamper resistant                |
|                   | <b>Mount</b>   | Easily adjustable 3-axis with 360° pan, 90° tilt and 360° z-axis  |
|                   | <b>Total Unit Dimensions</b>                         | Unit: 4.7" H (119mm) x 4.7" W (119mm) x 11.11" D (282mm)<br>Packaged: 7.1" H (180mm) x 7.1" W (180mm) x 13.5" D (342.9mm) |
| <b>Weight</b>     | Unit: 3.9 lb (1.76 kg)<br>Packaged: 5.2 lb (2.35 kg) |   |



|                  |         |                        |
|------------------|---------|------------------------|
| <b>Accessory</b> | SV-EBA  | Electrical Box Adapter |
|                  | MD-PMA  | Pole Mount Adapter     |
|                  | MD-CRMA | Corner Mount Adapter   |