SR Megapixel and HD Lenses

As surveillance cameras can now capture even higher picture resolutions through the use of HD sensor technology and advanced processing, the lenses also need to have an optical resolution that allows the camera to work at its optimal point. This range of Super Resolution (SR) megapixel lenses is designed to provide improved image resolution and sharpness, and better depth of field.

System overview

These lenses come with a standard C or CS mount for use with a variety of cameras. The DC-iris control connection is a four-pin standard plug that fits directly into the camera’s iris output. The lenses deliver impressive optical quality due to their megapixel resolution, contrast reproduction, and coating. The mechanical construction is designed to withstand both frequent iris control operations and the environmental stress of security installations. They provide long and reliable operation with no maintenance. For flexible, high-quality, reliable lenses that match a HD camera’s performance, this series is the ideal solution.

Certifications and approvals

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Installation/configuration notes

4-pin DC-iris connector (front view)
### Technical specifications

#### LVF-5005C-S1803
- **Maximum sensor format**: 1/2.5-inch (Sensor diagonal 7.2 mm)
- **Optical resolution**: 5 Megapixels
- **Focal length**: 1.8 – 3 mm
- **Iris range**: F1.8 to F8
- **Min object distance**: 0.5 m (1.64 ft)
- **Back focus distance (values in air)**: 8.3 mm (0.33 in)
- **Weight**: 63 g (0.134 lb)
- **Dimensions**: Ø 50 mm x 49.3 mm
- **Lens mount**: CS
- **Angle of view (HxV)**
  - 4:3: 115 x 99° Wide
  - 1/3-inch sensor 16:9: 109 x 82° Wide
  - 1/2.7-inch sensor 16:9: 116 x 84° Wide
  - 1/2.8-inch sensor 16:9: 114 x 82° Wide
- **Iris control**: 4-pin, DC control
- **Focus ctrl**: manual
- **Zoom ctrl**: manual
- **IR corrected**: Yes
- **Environmental**
  - Operating Temperature: -10°C to +50°C (+14°F to +122°F)
  - Storage Temperature: -40°C to +70°C (-40°F to +158°F)
  - Operating Humidity: Up to 93% non-condensing
  - Certification: CE

#### LVF-5003N-S3813
- **Maximum sensor format**: 1/2-inch
- **Optical resolution**: 3 Megapixels
- **Focal length**: 3.8 – 13 mm
- **Iris range**: F1.4 to F8
- **Min object distance**: 0.3 m (1 ft)
- **Back focus distance (values in air)**: 10.6 mm (0.42 in)
- **Weight**: 80 g (0.18 lb)
- **Dimensions**: Ø 45.7 mm x 64.2 mm
- **Lens mount**: C
- **Angle of view (HxV)**
  - 4:3: 97 x 72° Wide
  - 1/3-inch sensor 16:9: 79 x 43° Wide
  - 1/2.7-inch sensor 16:9: 87 x 47° Wide
  - 1/2.8-inch sensor 16:9: 84 x 46° Wide
- **Iris control**: 4-pin, DC control
- **Focus ctrl**: manual
- **Zoom ctrl**: manual
- **IR corrected**: No
- **Environmental**
  - Operating Temperature: -10°C to +50°C (+14°F to +122°F)
  - Storage Temperature: -40°C to +70°C (-40°F to +158°F)
  - Operating Humidity: Up to 93% non-condensing
  - Certification: CE

#### LVF-5005C-S4109
- **Maximum sensor format**: 1/1.8-inch
- **Optical resolution**: 5 Megapixels
- **Focal length**: 4.1 – 9 mm
- **Iris range**: F1.6 to F8
- **Min object distance**: 0.3 m (1 ft)
- **Back focus distance (values in air)**: 12.72 mm (wide), 19.94 mm (tele)
- **Weight**: 130 g (0.29 lb)
- **Dimensions**: Ø 62.9 mm (excluding focus and zoom knobs) x 66.6 mm (excluding flange)
- **Lens mount**: CS
- **Angle of view (HxV)**
  - 4:3: 100° x 74° Wide
  - 1/3-inch sensor 16:9: 73 x 41° Wide
- **Angle of view (HxV)**
  - 4:3: 100° x 74° Wide
  - 1/3-inch sensor 16:9: 73 x 41° Wide
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| **Angle of view (HxV)**<br>1/2.7-inch sensor 16:9 | 80 x 44° Wide<br>37 x 21° Tele | - Operating Temperature  
-10°C to +50°C (+14°F to +122°F) |
| **Angle of view (HxV)**<br>1/1.8-inch sensor 16:9 | 101 x 56° Wide<br>46 x 26° Tele | - Storage Temperature  
-40°C to +70°C (-40°F to +158°F) |
| Iris control | 4-pin, DC control | - Operating Humidity  
Up to 93% non-condensing |
| Focus ctrl | manual | - Certification  
CE |
| Zoom ctrl | manual | **Ordering information**<br>Varifocal SR Megapixel Lens 9-40mm<br>Varifocal SR megapixel IR corrected lens with 1/2.5" sensor and CS-mount<br>Order number LVF-5005C-S0940 |
| IR corrected | yes | **Environmental**<br>- Operating Temperature  
-10°C to +50°C (+14°F to +122°F) |
| **Environmental** | **Maximum sensor format** 1/2.5-inch (Sensor diagonal 7.2 mm) | **Environmental**<br>- Storage Temperature  
-40°C to +70°C (-40°F to +158°F) |
| **Optical resolution** | 5 Megapixels | **Environmental**<br>- Operating Humidity  
Up to 93% non-condensing |
| **Focal length** | 9 – 40 mm | - Certification  
CE |
| Iris range | F1.5 to F8 | **Environmental**<br>- Operating Temperature  
-10°C to +50°C (+14°F to +122°F) |
| Min object distance | 2.5 m (8.2 ft) | - Storage Temperature  
-40°C to +70°C (-40°F to +158°F) |
| Back focus distance (values in air) | 8.6 mm (wide); 13.19 mm (tele) | - Operating Humidity  
Up to 93% non-condensing |
| **Weight** | 88 g (0.19 lb) | - Certification  
CE |
| Dimensions | Ø 55 mm x 49.3 mm | **Ordering information**<br>Varifocal SR Megapixel Lens 9-40mm<br>Varifocal SR megapixel IR corrected lens with 1/2.5" sensor and CS-mount<br>Order number LVF-5005C-S0940 |
| Lens mount | CS | **Environmental**<br>- Operating Temperature  
-10°C to +50°C (+14°F to +122°F) |
| Angle of view (HxV) 4:3 | 36 x 27° Wide; 8.5 x 6.3° Tele | - Storage Temperature  
-20°C to +60°C (-4°F to +140°F) |
| Angle of view (HxV) 1/3-inch sensor 16:9 | 33 x 17° Wide; 7.7 x 4.4° Tele | - Operating Humidity  
35% to 90% non-condensing |
| Angle of view (HxV) 1/2.7-inch sensor 16:9 | 37 x 20° Wide; 8.6 x 4.8° Tele | - Certification  
CE |
| Angle of view (HxV) 1/2.8-inch sensor 16:9 | 35 x 20° Wide; 8.5 x 4.6° Tele | **Environmental**<br>- Operating Temperature  
-10°C to +50°C (+14°F to +122°F) |
| Iris control | 4-pin, DC control | - Storage Temperature  
-20°C to +60°C (-4°F to +140°F) |
| Focus ctrl | manual | - Operating Humidity  
35% to 90% non-condensing |
| Zoom ctrl | manual | - Certification  
CE |
<p>| IR corrected | yes | <strong>Ordering information</strong>&lt;br&gt;Varifocal SR Megapixel Lens 9-40mm&lt;br&gt;Varifocal SR megapixel IR corrected lens with 1/2.5&quot; sensor and CS-mount&lt;br&gt;Order number LVF-5005C-S0940 |</p>
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