

# SR Megapixel and HD Lenses

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Invented for life



- ▶ SR megapixel optical resolution
- ▶ High-quality optics
- ▶ Reliable, robust construction
- ▶ Focal length options

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.

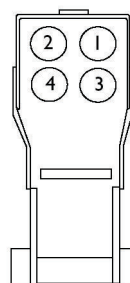
## System overview

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

| Region | Certification |                 |
|--------|---------------|-----------------|
| Europe | CE            | 3MP             |
|        | CE            | 5MP             |
|        | CE            | LVF-5005N-S1250 |

## Installation/configuration notes



4-pin DC-iris connector (front view)

- Pin 1: Damping coil -
- Pin 2: Damping coil +
- Pin 3: Driving coil + (open)
- Pin 4: Driving coil -

## Technical specifications

|   |                                     |
|---|-------------------------------------|
| LVF-5005C-S1803   |                                     |
| <b>Maximum sensor format</b>                                | 1/2.5-inch (Sensor diagonal 7.2 mm) |
| <b>Optical resolution</b>                                   | 5 Megapixels                        |
| <b>Focal length</b>   | 1.8 – 3 mm                          |
| <b>Iris range</b>   | F1.8 to F8                          |
| <b>Min object distance</b>                                  | 0.5 m (1.64 ft)                     |
| <b>Back focus distance</b><br>(values in air)               | 8.3 mm (0.33 in)                    |
| <b>Weight</b>   | 63 g (0.134 lb)                     |
| <b>Dimensions</b>   | Ø 50 mm x 49.3 mm                   |
| <b>Lens mount</b>   | CS                                  |
| <b>Angle of view (HxV)</b><br><b>4:3</b>                    | 115 x 99° Wide<br>88 x 71° Tele     |
| <b>Angle of view (HxV)</b><br><b>1/3-inch sensor 16:9</b>   | 109 x 82° Wide<br>82 x 54° Tele     |
| <b>Angle of view (HxV)</b><br><b>1/2.7-inch sensor 16:9</b> | 116 x 84° Wide<br>89 x 57° Tele     |
| <b>Iris control</b>   | 4-pin, DC control                   |
| <b>Focus ctrl</b>   | manual                              |
| <b>Zoom ctrl</b>  | manual                              |
| <b>IR corrected</b>   | yes                                 |
| <b>Environmental</b>  |                                     |
| - 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-S3813   |                                     |
| <b>Maximum sensor format</b>                                | 1/2-inch                            |
| <b>Optical resolution</b>                                   | 3 Megapixels                        |
| <b>Focal length</b>   | 3.8 – 13 mm                         |
| <b>Iris range</b>   | F1.4 to F8                          |
| <b>Min object distance</b>                                  | 0.3 m (1 ft)                        |
| <b>Back focus distance</b><br>(values in air)               | 10.6 mm (0.42 in)                   |
| <b>Weight</b>   | 80 g (0.18 lb)                      |
| <b>Dimensions</b>   | Ø 45.7 mm x 64.2 mm                 |
| <b>Lens mount</b>   | C                                   |
| <b>Angle of view (HxV)</b><br><b>4:3</b>                    | 97 x 72° Wide<br>28 x 21° Tele      |

|   |  |
|---|--|
| LVF-5005C-S3813   |  |
| <b>Angle of view (HxV)</b><br><b>1/3-inch sensor 16:9</b>   | 79 x 43° Wide<br>23 x 13° Tele           |
| <b>Angle of view (HxV)</b><br><b>1/2.7-inch sensor 16:9</b> | 87 x 47° Wide<br>25 x 14° Tele           |
| <b>Iris control</b>   | 4-pin, DC control                        |
| <b>Focus ctrl</b>   | manual                                   |
| <b>Zoom ctrl</b>  | manual                                   |
| <b>IR corrected</b>   | IR performance (not with IR illuminator) |
| <b>Environmental</b>  |  |
| - 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   |   |
| <b>Maximum sensor format</b>                                | 1/1.8-inch  |
| <b>Optical resolution</b>                                   | 5 Megapixels  |
| <b>Focal length</b>   | 4.1 – 9 mm  |
| <b>Iris range</b>   | F1.6 to F8  |
| <b>Min object distance</b>                                  | 0.3 m (1 ft)  |
| <b>Back focus distance</b><br>(values in air)               | 12.72 mm (wide),<br>19.94 mm (tele)                                     |
| <b>Weight</b>   | 130 g (0.29 lb)   |
| <b>Dimensions</b>   | Ø 62.9 mm (excluding focus and zoom knobs) x 66.6 mm (excluding flange) |
| <b>Lens mount</b>   | CS  |
| <b>Angle of view (HxV)</b><br><b>4:3</b>                    | 100° x 74° Wide<br>45° x 33° Tele                                       |
| <b>Angle of view (HxV)</b><br><b>1/3-inch sensor 16:9</b>   | 73 x 41° Wide<br>33 x 19° Tele  |
| <b>Angle of view (HxV)</b><br><b>1/2.7-inch sensor 16:9</b> | 80 x 4° Wide<br>37 x 21° Tele   |
| <b>Iris control</b>   | 4-pin, DC control   |
| <b>Focus ctrl</b>   | manual  |
| <b>Zoom ctrl</b>  | manual  |
| <b>IR corrected</b>   | yes   |
| <b>Environmental</b>  |   |
| - Operating Temperature                                     | -10°C to +50°C (+14°F to +122°F)  |
| - Storage Temperature                                       | -40°C to +70°C (-40°F to +158°F)  |

|   |  |
|---|--|
| LVF-5005C-S4109   |  |
| - Operating Humidity  | Up to 93% non-condensing                             |
| - Certification   | CE   |
| LVF-5005C-S0940   |  |
| <b>Maximum sensor format</b>                                | 1/2.5-inch (Sensor diagonal 7.2 mm)                  |
| <b>Optical resolution</b>                                   | 5 Megapixels   |
| <b>Focal length</b>   | 9 – 40 mm  |
| <b>Iris range</b>   | F1.5 to F8   |
| <b>Min object distance</b>                                  | 2.5 m (8.2 ft)                                       |
| <b>Back focus distance</b><br>(values in air)               | 8.6 mm (wide);<br>13.19 mm (tele)                    |
| <b>Weight</b>   | 88 g (0.19 lb)                                       |
| <b>Dimensions</b>   | Ø 55 mm x 49.3 mm                                    |
| <b>Lens mount</b>   | CS   |
| <b>Angle of view (HxV)</b><br><b>4:3</b>                    | 36 x 27° Wide;<br>8.5 x 6.3° Tele                    |
| <b>Angle of view (HxV)</b><br><b>1/3-inch sensor 16:9</b>   | 33 x 17° Wide;<br>7.7 x 4.4° Tele                    |
| <b>Angle of view (HxV)</b><br><b>1/2.7-inch sensor 16:9</b> | 37 x 20° Wide;<br>8.6 x 4.8° Tele                    |
| <b>Iris control</b>   | 4-pin, DC control                                    |
| <b>Focus ctrl</b>   | manual   |
| <b>Zoom ctrl</b>  | manual   |
| <b>IR corrected</b>   | yes  |
| <b>Environmental</b>  |  |
| - 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-5005N-S1250   |  |
| <b>Maximum sensor format</b>                                | 1/1.8-inch   |
| <b>Optical resolution</b>                                   | 5 Megapixels   |
| <b>Focal length</b>   | 12 – 50 mm   |
| <b>Iris range</b>   | F1.8 to T360   |
| <b>Min object distance</b>                                  | 0.8 m (2.63 ft)                                      |
| <b>Back focus distance</b><br>(values in air)               | 10.19 mm (wide),<br>10.12 mm (tele)<br>values in air |
| <b>Weight</b>   | 175 g (0.386 lb)                                     |
| <b>Dimensions</b>   | Ø 52.4 mm x 89.3 mm                                  |

|   |                                   |
|---|-----------------------------------|
| LVF-5005N-S1250   |                                   |
| <b>Lens mount</b>   | C                                 |
| <b>Angle of view (HxV)</b><br><b>4:3</b>                    | 33 x 25° Wide<br>8 x 6° Tele      |
| <b>Angle of view (HxV)</b><br><b>1/3-inch sensor 16:9</b>   | 24 x 14° Wide<br>6 x 3° Tele      |
| <b>Angle of view (HxV)</b><br><b>1/2.7-inch sensor 16:9</b> | 27 x 16° Wide;<br>6.7 x 3.8° Tele |
| <b>Iris control</b>   | 4-pin, DC control                 |
| <b>Focus ctrl</b>   | manual                            |
| <b>Zoom ctrl</b>  | manual                            |
| <b>IR corrected</b>   | yes                               |
| <b>Environmental</b>  |                                   |
| - Operating Temperature                                     | -10°C to +50°C (+14°F to +122°F)  |
| - Storage Temperature                                       | -20°C to +60°C (-4°F to +140°F)   |
| - Operating Humidity  | 35% to 90% non-condensing         |
| - Certification   | CE                                |

### Ordering information

#### Varifocal SR Megapixel Lens

Varifocal SR megapixel IR corrected lens. 1/2.5" sensor; CS-mount; 4-pin SR-iris; 5 MP; 9 to 40 mm; F1.5 to F8  
Order number **LVF-5005C-S0940**

#### Varifocal SR Megapixel Lens

Varifocal SR megapixel lens. 1/2" sensor; C-mount; 4-pin SR-iris; 3 MP; 3.8 to 13 mm; F1.4 to F8  
Order number **LVF-5003N-S3813**

#### Varifocal SR Megapixel Lens

Varifocal SR megapixel IR corrected lens. 1/2.5" sensor; CS-mount; 4-pin SR-iris; 5 MP; 1.8 to 3 mm; F1.8 to F8  
Order number **LVF-5005C-S1803**

#### Varifocal SR Megapixel Lens

Varifocal SR megapixel IR corrected lens. 1/1.8" sensor; CS-mount; 4-pin SR-iris; 5MP; 4.1 to 9 mm; F1.6 to F8  
Order number **LVF-5005C-S4109**

#### Varifocal Megapixel Lens

Varifocal megapixel IR corrected lens. 1/1.8" sensor max; C-mount; 4-pin DC-iris; 5 MP; 12 to 50 mm; F1.6 to T360  
Order number **LVF-5005N-S1250**

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