SR Megapixel and HD Lenses

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- ▶ 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.

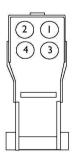
System overview

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 | Regulatory compliance/quality marks | |
|--------|-------------------------------------|-----------------|
| Europe | CE | 3MP |
| | CE | 5MP |
| | CE | LVF-5005N-S1250 |
| | CE | LVF-5003N-S3813 |
| | CE | LVF-5005C-S4109 |

Installation/configuration notes



4-pin DC-iris connector (front view)

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

| Tool | hnica | C 10.4 | aaifi | 0.0 | OBC. |
|------|-------|--------|-------|-----|-------|
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| rechnical 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 88 x 71° Tele | |
| Angle of view (HxV) 1/3-inch sensor 16:9 | 109 x 82° Wide 82 x 54° Tele | |
| Angle of view (HxV) 1/2.7-inch sensor 16:9 | 116 x 84° Wide 89 x 57° Tele | |
| Angle of view (HxV) 1/2.8-inch sensor 16:9 | 114 x 82° Wide 86 x 56° Tele | |
| 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 | |

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|---|---|
| LVF-5003N-S3813 | 0.0 (4.0) |
| 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 | С |
| Angle of view (HxV) 4:3 | 97 x 72° Wide 28 x 21° Tele |
| Angle of view (HxV) 1/3-inch sensor 16:9 | 79 x 43° Wide 23 x 13° Tele |
| Angle of view (HxV) 1/2.7-inch sensor 16:9 | 87 x 47° Wide 25 x 14° Tele |
| Angle of view (HxV) 1/2.8-inch sensor 16:9 | 84 x 46° Wide 25 x 14° Tele |
| 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 45° x 33° Tele |
| Angle of view (HxV) 1/3-inch sensor 16:9 | 73 x 41° Wide 33 x 19° Tele |

| LVF-5005C-S4109 | |
|---|-------------------------------------|
| Angle of view (HxV) 1/2.7-inch sensor 16:9 | 80 x 44° Wide 37 x 21° Tele |
| Angle of view (HxV) 1/1.8-inch sensor 16:9 | 101 x 56° Wide 46 x 26° Tele |
| 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-5005C-S0940 | |
| Maximum sensor format | 1/2.5-inch (Sensor diagonal 7.2 mm) |
| Optical resolution | 5 Megapixels |
| Focal length | 9 – 40 mm |
| Iris range | F1.5 to F8 |
| Min object distance | 2.5 m (8.2 ft) |
| Back focus distance (values in air) | 8.6 mm (wide); 13.19 mm (tele) |
| Weight | 88 g (0.19 lb) |
| Dimensions | Ø 55 mm x 49.3 mm |
| Lens mount | CS |
| Angle of view (HxV) 4:3 | 36 x 27° Wide; 8.5 x 6.3° Tele |
| Angle of view (HxV) 1/3-inch sensor 16:9 | 33 x 17° Wide; 7.7 x 4.4° Tele |
| Angle of view (HxV) 1/2.7-inch sensor 16:9 | 37 x 20° Wide; 8.6 x 4.8° Tele |
| Angle of view (HxV) 1/2.8-inch sensor 16:9 | 35 x 20° Wide; 8 x 5° Tele |
| Iris control | 4-pin, DC control |
| Focus ctrl | manual |
| Zoom ctrl | manual |
| IR corrected | yes |
| Environmental | |

| LVF-5005C-S0940 | | |
|---|--|--|
| - 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 | | |
| Maximum sensor format | 1/1.8-inch | |
| Optical resolution | 5 Megapixels | |
| Focal length | 12 – 50 mm | |
| Iris range | F1.8 to T360 | |
| Min object distance | 0.8 m (2.63 ft) | |
| Back focus distance (values in air) | 10.19 mm (wide), 10.12 mm (tele) values in air | |
| Weight | 175 g (0.386 lb) | |
| Dimensions | Ø 52.4 mm x 89.3 mm | |
| Lens mount | С | |
| Angle of view (HxV) 4:3 | 33 x 25° Wide 8 x 6° Tele | |
| Angle of view (HxV) 1/3-inch sensor 16:9 | 24 x 14° Wide 6 x 3° Tele | |
| Angle of view (HxV) 1/2.7-inch sensor 16:9 | 27 x 16° Wide; 6.7 x 3.8° Tele | |
| Angle of view (HxV) 1/1.8-inch sensor 16:9 | 33 x 19° Wide; 8.3 x 4.7° Tele | |
| 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 | -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 9-40mm

Varifocal SR megapixel IR corrected lens with 1/2.5" sensor and CS-mount

Order number LVF-5005C-S0940

Varifocal SR Megapixel Lens 3.8-13mm

Varifocal SR megapixel lens with 1/2" sensor and C-mount

Order number LVF-5003N-S3813

Varifocal SR Megapixel Lens 1.8-3mm

Varifocal SR megapixel IR corrected lens with 1/2.5" sensor and CS-mount

Order number LVF-5005C-S1803

Varifocal SR Megapixel Lens 4.1-9mm

Varifocal SR megapixel IR corrected lens with 1/1.8" sensor and CS-mount Order number LVF-5005C-S4109

Varifocal Megapixel Lens 12.5-50mm

Varifocal megapixel IR corrected lens with 1/1.8" sensor max and C-mount Order number LVF-5005N-S1250

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