

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.

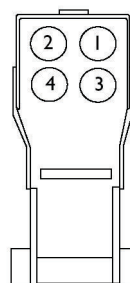
System overview

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	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	
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
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-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)

LVF-5005C-S3813	
Dimensions	Ø 45.7 mm x 64.2 mm
Lens mount	C
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
Iris control	4-pin, DC control
Focus ctrl	manual
Zoom ctrl	manual
IR corrected	IR performance (not with IR illuminator)
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
Angle of view (HxV) 1/2.7-inch sensor 16:9	80 x 4° 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

LVF-5005C-S4109	
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
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-5005N-S1250	
Maximum sensor format	1/1.8-inch
Optical resolution	5 Megapixels

LVF-5005N-S1250	
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	C
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

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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