SR Megapixel and HD Lenses

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

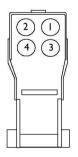
As surveillance cameras can now capture even higher picture resolutions through the use of HD sensor technology and advanced processing, the lenses also need to have an optical resolution that allows the camera to work at its optimal point. This range of Super Resolution (SR) megapixel lenses is designed 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 -
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Pin 2: Damping coil +

Pin 3:	Driving coil + (open)
Pin 4:	Driving coil -

Technical specifications

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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	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
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
Focal length Iris range	4.1 - 9 mm F1.6 to F8
Iris range	F1.6 to F8
Iris range Min object distance Back focus distance	F1.6 to F8 0.3 m (1 ft) 12.72 mm (wide),
Iris range Min object distance Back focus distance (values in air)	F1.6 to F8 0.3 m (1 ft) 12.72 mm (wide), 19.94 mm (tele)
Iris range Min object distance Back focus distance (values in air) Weight	F1.6 to F8 0.3 m (1 ft) 12.72 mm (wide), 19.94 mm (tele) 130 g (0.29 lb) Ø 62.9 mm (excluding focus and zoom
Iris range Min object distance Back focus distance (values in air) Weight Dimensions	F1.6 to F8 0.3 m (1 ft) 12.72 mm (wide), 19.94 mm (tele) 130 g (0.29 lb) Ø 62.9 mm (excluding focus and zoom knobs) x 66.6 mm (excluding flange)
Iris range Min object distance Back focus distance (values in air) Weight Dimensions Lens mount Angle of view (HxV)	F1.6 to F8 0.3 m (1 ft) 12.72 mm (wide), 19.94 mm (tele) 130 g (0.29 lb) Ø 62.9 mm (excluding focus and zoom knobs) x 66.6 mm (excluding flange) CS 100° x 74° Wide
Iris range Min object distance Back focus distance (values in air) Weight Dimensions Lens mount Angle of view (HxV) 4:3	F1.6 to F8 0.3 m (1 ft) 12.72 mm (wide), 19.94 mm (tele) 130 g (0.29 lb) Ø 62.9 mm (excluding focus and zoom knobs) x 66.6 mm (excluding flange) CS 100° x 74° Wide 45° x 33° Tele 73 x 41° Wide
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Iris rangeMin object distanceBack focus distance (values in air)WeightDimensionsLens mountAngle of view (HxV) 4:3Angle of view (HxV) 1/3-inch sensor 16:9Angle of view (HxV) 1/2.7-inch sensor 16:9Angle of view (HxV) 1/2.7-inch sensor 16:9	F1.6 to F8 0.3 m (1 ft) 12.72 mm (wide), 19.94 mm (tele) 130 g (0.29 lb) Ø 62.9 mm (excluding focus and zoom knobs) x 66.6 mm (excluding flange) CS 100° x 74° Wide 45° x 33° Tele 73 x 41° Wide 33 x 19° Tele 80 x 4° Wide 37 x 21° Tele 101 x 56° Wide
Iris rangeMin object distanceBack focus distance(values in air)WeightDimensionsLens mountAngle of view (HxV)4:3Angle of view (HxV)1/3-inch sensor 16:9Angle of view (HxV)1/2.7-inch sensor 16:9Angle of view (HxV)1/1.8-inch sensor 16:9	F1.6 to F8 0.3 m (1 ft) 12.72 mm (wide), 19.94 mm (tele) 130 g (0.29 lb) Ø 62.9 mm (excluding focus and zoom knobs) x 66.6 mm (excluding flange) CS 100° x 74° Wide 45° x 33° Tele 73 x 41° Wide 80 x 4° Wide 37 x 21° Tele 101 x 56° Wide 46 x 26° Tele

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Finite interventionJoin Content of Conten	Zoom ctrl	manual
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LVF-5005C-S0940Image: Comparison of Comparison	- Operating Humidity	Up to 93% non-condensing
Maximum sensor format1/2.5-inch (Sensor diagonal 7.2 mm)Optical resolution5 MegapixelsFocal length9 - 40 mmIris range12.5 to F8Min object distance2.5 m (8.2 ft)Back focus distance8.6 mm (wide); 13.19 mm (tele)Weight88 g (0.19 lb)Dimensions055 mm x 49.3 mmLens mountCSAngle of view (HxV) 2.3 ch 35 x 6.3° TeleAngle of view (HxV) 2.7 rh 4.4° TeleAngle of view (HxV) 2.7 rh 4.4° TeleAngle of view (HxV) 2.7 rh 4.4° TeleFrocus ctrlManualFocus ctrlManualRomental0Focus ctrlManualRomental0Formertal10°C to +50°C (+14°F to +122°F) 2°F (+14°F to +122°F)Operating HumidityUp to 93% non-condensing-Operating HumidityUp to 93% non-condensing-CertificationCEKurber St125011.8-inch	- Certification	CE
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Iris rangeF1.5 to F8Min object distance2.5 m (8.2 ft)Back focus distance (values in air)8.6 mm (wide); 13.19 mm (tele)Weight88 g (0.19 lb)DimensionsØ 55 mm x 49.3 mmLens mountCSAngle of view (HxV) 4:336 x 27° Wide; 8.5 x 6.3° releAngle of view (HxV) 1/3-inch sensor 16:937 x 20° Wide; 8.6 x 4.8° releIris control4-pin, DC controlFocus ctrlmanualZoom ctrlwanualInscretedyesEnvironmental-10°C to +50°C (+14°F to +122°F) 1°C in 20°C (+10°F to +158°F).Storage Temperature-40°C to +70°C (-40°F to + 158°F).CertificationCELVF-500SN-S1250I1.8-inch	Optical resolution	5 Megapixels
Min object distance2.5 m (8.2 ft)Back focus distance (values in air)8.6 mm (wide); 13.19 mm (tele)Weight88 g (0.19 lb)DimensionsØ 55 mm x 49.3 mmLens mountCSAngle of view (HxV) 4.333 x 17° Wide; 8.5 x 6.3° TeleAngle of view (HxV) 1/3-inch sensor 16:933 x 17° Wide; 8.6 x 4.8° TeleIris control4-pin, DC controlFocus ctrlmanualZoom ctrlwasIR correctedyesEnvironmental-10°C to +50°C (+14°F to +122°F)Operating remperature-40°C to +70°C (-40°F to + 158°F)Operating HumidityUp to 93% non-condensingCertificationCELVF-500SN-S1250I1.8-inch	Focal length	9 – 40 mm
Back focus distance (values in air)8.6 mm (wide); 13.19 mm (tele)Weight88 g (0.19 lb)DimensionsØ 55 mm x 49.3 mmLens mountCSAngle of view (HxV) 4:336 x 27° Wide; 8.5 x 6.3° TeleAngle of view (HxV) 1/3-inch sensor 16:937 x 20° Wide; 8.6 x 4.8° TeleIris control4-pin, DC controlFocus ctrlmanualZoom ctrlmanualIR correctedyesEnvironmental-10°C to +50°C (+14°F to +122°F) ? CertificationOperating HumidityUp to 93% non-condensing- Operating HumidityIta Sinch Si	Iris range	F1.5 to F8
(values in air)13.19 mm (tele)Weight88 g (0.19 lb)DimensionsØ 55 mm x 49.3 mmLens mountCSAngle of view (HxV) 4:3 $36 \times 27^\circ$ Wide; $8.5 \times 6.3^\circ$ TeleAngle of view (HxV) 1/3-inch sensor 16:9 $37 \times 20^\circ$ Wide; $8.6 \times 4.8^\circ$ TeleAngle of view (HxV) 1/2.7-inch sensor 16:9 $37 \times 20^\circ$ Wide; $8.6 \times 4.8^\circ$ TeleIris control4-pin, DC controlFocus ctrlmanualZoom ctrlmanualIR correctedyesEnvironmental-10°C to+50°C (+14°F to +122°F)· Operating remperature·10°C to +70°C (-40°F to + 158°F)· Operating HumidityUp to 93% non-condensing· CEIVF-5005N-S1250Maximum sensor format1/1.8-inch	Min object distance	2.5 m (8.2 ft)
DimensionsØ 55 mm x 49.3 mmLens mountCSAngle of view (HxV) 4:3 $36 \times 27^\circ$ Wide; $8.5 \times 6.3^\circ$ TeleAngle of view (HxV) 1/3-inch sensor 16:9 $33 \times 17^\circ$ Wide; $7.7 \times 4.4^\circ$ TeleAngle of view (HxV) 1/2.7-inch sensor 16:9 $37 \times 20^\circ$ Wide; $8.6 \times 4.8^\circ$ TeleIris control4-pin, DC controlFocus ctrlmanualKorrectedwanualIR correctedview9-10°C to+50°C (+14°F to +122°F)0perating remperature-10°C to+70°C (-40°F to +158°F)0.0perating HumidityUp to 93% non-condensingCertificationCEIVF-5005N-S1250I/1.8-inch		
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IR corrected yes Environmental -10°C to +50°C (+14°F to +122°F) -Operating Temperature -10°C to +70°C (-40°F to +158°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 1/1.8-inch	Focus ctrl	manual
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-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 HumidityUp to 93% non-condensing- CertificationCELVF-5005N-S12501/1.8-inch	IR corrected	yes
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- Operating Humidity Up to 93% non-condensing - Certification CE LVF-5005N-S1250 1/1.8-inch		-10°C to+50°C (+14°F to +122°F)
- Certification CE LVF-5005N-S1250 Maximum sensor format 1/1.8-inch	- Storage Temperature	-40°C to +70°C (-40°F to + 158°F)
LVF-5005N-S1250 Maximum sensor format 1/1.8-inch	- Operating Humidity	Up to 93% non-condensing
Maximum sensor format 1/1.8-inch	- Certification	CE
	LVF-5005N-S1250	
Optical resolution 5 Megapixels	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	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

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; 4pin 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

Represented by:

Americas:

Bosch Security Systems, Inc. 130 Perinton Parkway Fairport, New York, 14450, USA Phone: +1 800 289 0096 Fax: +1 585 223 9180 security.sales@us.bosch.com www.boschsecurity.us

Europe, Middle East, Africa: Bosch Security Systems B.V.

Bosco SecUrity Systems B.V. P.O. Box 80002 5617 BA Eindhoven, The Netherlands Phone: + 31 40 2577 284 Fax: +31 40 2577 330 emea.securitysystems@bosch.com www.boschsecurity.com

Asia-Pacific: Robert Bosch (SEA) Pte Ltd, Security

Systems 11 Bishan Street 21 Singapore 573943 Phone: +65 6571 2808 Fax: +65 6571 2699 apr.securitysystems@bosch.com www.boschsecurity.asia

China: Bosch (Shanghai) Security Systems Ltd. Robert Bosch Ltda Security Systems Division 203 Building, No. 333 Fuquan Road North IBP Changning District, Shanghai 200335 China Phone +86 21 22181111 Fax: +86 21 22182398 www.boschsecurity.com.cn

America Latina:

Via Anhanguera, Km 98 CEP 13065-900 Campinas, Sao Paulo, Brazil Phone: +55 19 2103 2860 Fax: +55 19 2103 2862 latam.boschsecurity@bosch.com www.boschsecurity.com

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