

SR Megapixel and HD Lenses

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- ▶ SR megapixel optical resolution
- ▶ High-quality optics
- ▶ 1/2.5-inch and 1/2-inch formats
- ▶ Reliable, robust construction
- ▶ Focal length options

As CCTV 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 while avoiding the diffraction issues which can occur with megapixel sensors.

They provide long and reliable operation with no maintenance. These varifocal lenses range from wide-angle to telephoto to cover virtually all applications in CCTV observation systems.

System overview

This series of SR megapixel lenses includes varifocal lenses with SR-iris control. They are compact and available in 1/2.5-inch and 1/2-inch image formats. The extent of the range means that an installer is always able to select the most appropriate lens for both camera and application.

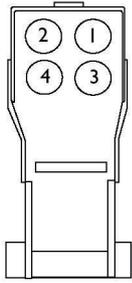
These lenses come with a standard C or CS mount for use with a variety of cameras. The iris control connection is a four-pin standard plug that fits directly

into the camera's iris output. The lenses deliver impressive optical quality due to their mega pixel resolution, contrast reproduction, and coating. The mechanical construction is designed to withstand both frequent iris control operations and the environmental stress of security installations. 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

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

Electrical/mechanical

See comparison table at the end of this datasheet.

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 (DC-iris models)

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 F5.2
Order number **LVF-5005C-S4109**

Varifocal SR Megapixel Lenses

	LVF-5005C-S0940 Varifocal SR Megapixel Lens	LVF-5005C-S1803 Varifocal SR Megapixel Lens	LVF-5003N-S3813 Varifocal SR Megapixel Lens	LVF-5005C-S4109 Varifocal SR Megapixel Lens
Maximum sensor format	1/2.5-inch (Sensor diagonal 7.2 mm)	1/2.5-inch (Sensor diagonal 7.2 mm)	1/2-inch	1/1.8-inch
Optical resolution	5 Megapixels	5 Megapixels	3 Megapixels	5 Megapixels
Focal length	9 – 40 mm	1.8 – 3 mm	3.8 – 13 mm	4.1 – 9 mm
Iris range	F1.5 to F8	F1.8 to F8	F1.4 to F8	F1.6 to F8
Min object distance	2.5 m (9.2 ft)	0.5 m (1.64 ft)	0.3 m (1 ft)	0.3 m (1 ft)
Back focus distance	8.6 mm (wide), 13.19 mm (tele) values in air	8.3 mm (0.33 in)	10.6 mm (0.42 in)	12.72 mm (wide), 19.94 mm (tele) values in air
Weight	88 g (0.19 lb)	63 g (0.134 lb)	80 g (0.18 lb)	130 g (0.29 lb)
Dimensions	Ø 55 mm x 49.3 mm	Ø 50 mm x 49.3 mm	Ø 45.7 mm x 64.2 mm	Ø 62.9 mm (excluding focus and zoom knobs) x 66.6 mm (excluding flange)
Lens mount	CS	CS	C	CS
4:3 Angle of view (HxV)	36 x 27° Wide 8.5 x 6.3° Tele	115 x 99° Wide 88 x 71° Tele	97 x 72° Wide 28 x 21° Tele	100° x 74° Wide 45° x 33° Tele
1/3-inch sensor 16:9 Angle of view (HxV)	33 x 17° Wide 7.7 x 4.4° Tele	109 x 82° Wide 82 x 54° Tele	79 x 43° Wide 23 x 13° Tele	73 x 41° Wide 33 x 19° Tele
1/2.7-inch sensor 16:9 Angle of view (HxV)	37 x 20° Wide 8.6 x 4.8° Tele	116 x 84° Wide 89 x 57° Tele	87 x 47° Wide 25 x 14° Tele	80 x 4° Wide 37 x 21° Tele
Iris control	4-pin, DC control	4-pin, DC control	4-pin, DC control	4-pin, DC control
Focus ctrl	manual	manual	manual	manual
Zoom ctrl	manual	manual	manual	manual
IR corrected	yes	yes	IR performance (not with IR illuminator)	yes

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.
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.
201 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:

Robert Bosch Ltda Security Systems Division
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