

# 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, rugged, 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.

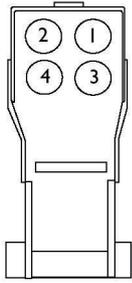
These lenses come with a standard C or CS mount for use with a variety of cameras. The iris control connection is a four-pin standard plug that fits directly

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 VLG-3V3813-MP
	CE VLG-2V1803-MP5
	CE VLG-4V0940-MP5

## 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

Rugged 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

Rugged 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

Rugged 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**

## Megapixel Lenses

	LVF-5005C-S0940 Varifocal SR Megapixel Lens	LVF-5005C-S1803 Varifocal SR Megapixel Lens	LVF-5003N-S3813 Varifocal SR Megapixel Lens
<b>Maximum sensor format</b>	1/2.5-inch	1/2.5-inch	1/2-inch
<b>Optical resolution</b>	5 Megapixels	5 Megapixels	5 Megapixels
<b>Focal length</b>	9 – 40 mm	1.8 – 3 mm	3.8 – 13 mm
<b>Iris range</b>	F1.5 to F8	F1.8 to F8	F1.4 to F8
<b>Min object distance</b>		0.5 m (1.64 ft)	0.3 m (1 ft)
<b>Back focus distance</b>		8.3 mm (0.33 in)	10.6 mm (0.42 in)
<b>Weight</b>		63 g (0.134 lb)	80 g (0.18 lb)
<b>Dimensions</b>	Ø 54 mm x 49.31 mm	Ø 50 mm x 49.3 mm	Ø 45.7 mm x 64.2 mm
<b>Lens mount</b>	CS	CS	C
<b>4:3 Angle of view (HxV)</b>	30 x 23° Wide 6.9 x 5.2° Tele	106 x 90° Wide 77 x 62° Tele	97 x 72° Wide 28 x 21° Tele
<b>1/3-inch sensor 16:9 Angle of view (HxV)</b>	30 x 22° Wide 7.1 x 5.3° Tele	105 x 90° Wide 77 x 62° Tele	
<b>1/2.7-inch sensor 16:9 Angle of view (HxV)</b>	37 x 20° Wide 8.6 x 4.8° Tele	111 x 95° Wide 84 x 68° Tele	
<b>Iris control</b>	4-pin, DC control	4-pin, DC control	4-pin, DC control
<b>Focus ctrl</b>	manual	manual	manual
<b>Zoom ctrl</b>	manual	manual	manual
<b>IR corrected</b>	yes	yes	IR performance (not with IR illuminator)

## 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