SR Megapixel and HD Lenses

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Invented for life

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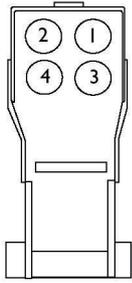
These lenses come with a standard C or CS mount for use with a variety of cameras. The iris control connection is a four-pin standard plug that fits directly

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