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Mega Pixel and HD Lenses



- ▶ **Mega pixel optical resolution**
- ▶ **High-quality optics**
- ▶ **1/3-inch, 1/2-inch and 2/3-inch formats**
- ▶ **Reliable, robust construction**
- ▶ **Focal length options**
- ▶ **Manual and DC-iris versions**

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 mega pixel lenses meets these high requirements and provides long and reliable operation with no maintenance. Comprising varifocal and fixed-focus types, the lenses range from wide-angle to telephoto to cover virtually all applications in CCTV observation systems.

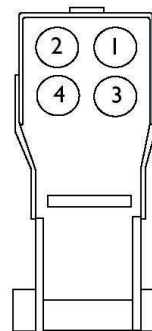
System Overview

This series of mega pixel lenses includes both fixed-focus and varifocal lenses with either manual-iris or DC-iris control. They are compact, rugged, and available in 1/3-inch, 1/2-inch and 2/3-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 DC-iris control connection is a four-pin standard plug that fits directly into the camera's iris output. And 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 DC-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.

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

VLM-0814-MP Fixed-focus Mega Pixel Lens

3 Mega Pixel, 8 mm fixed-focus, f1.4, 2/3-inch lens, manual iris

VLM-0814-MP

VLM-1214-MP Fixed-focus Mega Pixel Lens

3 Mega Pixel, 12 mm fixed-focus, f1.4, 2/3-inch lens, manual iris

VLM-1214-MP

VLM-1614-MP Fixed-focus Mega Pixel Lens

3 Mega Pixel, 16 mm fixed-focus, f1.4, 2/3-inch lens, manual iris

VLM-1614-MP

VLM-2514-MP Fixed-focus Mega Pixel Lens

3 Mega Pixel, 25 mm fixed-focus, f1.4, 2/3-inch lens, manual iris

VLM-2514-MP

VLM-3V1228-MP Varifocal Mega Pixel lens

3 Mega Pixel, 12-36 mm varifocal, f2.8, 2/3-inch lens, manual iris

VLM-3V1228-MP

VLM-2V0414-MP Varifocal Mega Pixel Lens

3 Mega Pixel, 4-8 mm varifocal, f1.4, 1/2-inch lens, manual iris

VLM-2V0414-MP

VLG-2V0414-MP Varifocal Mega Pixel Lens

3 Mega Pixel, 4-8 mm varifocal, f1.4, 1/2-inch lens, DC iris

VLG-2V0414-MP

VLG-3V3813-MP3 Varifocal Mega Pixel Lens

3 Mega Pixel, 3.8-13 mm varifocal, f1.4, 1/2-inch lens, DC iris

VLG-3V3813-MP3

VLG-2V1803-MP5 Varifocal Mega Pixel Lens

5 Mega Pixel, 1.8-3 mm varifocal, f1.8, 1/3-inch lens, DC iris

VLG-2V1803-MP5

VLG-0312-MP1 Fixed-focus Mega Pixel Lens

3 Mega Pixel, 2.8 mm fixed-focus, f1.2, 1/3-inch lens, DC iris

VLG-0312-MP1

Ordering Information

VLG-2V2806-MP3 Varifocal Mega Pixel Lens

3 Mega Pixel, 2.8-6 mm varifocal, f1.4, 1/3-inch lens, DC iris

VLG-2V2806-MP3

VLG-4V0940-MP5 Varifocal Mega Pixel Lens

VLG-4V0940-MP5

Mega Pixel Lenses 1/3-inch



VLG-4V0940-MP5



VLG-2V1803-MP5



VLG-2V2806-MP3



VLG-0312-MP1

Maximum sensor format	1/2.5-inch	1/2.5-inch	1/3 inch	1/3-inch
Optical resolution	5 Mega pixels	5 Mega pixels	3 Mega pixels	1.3 Mega pixels
Focal length	9 – 40 mm	1.8 – 3 mm	2.8 – 6 mm	2.8 mm
Iris range	F1.5 to close	F1.8 to close	F1.4 to close	F1.2 to close
Min object distance		0.5 m (1.64 ft)	0.3 m (1 ft)	
Back focus distance		8.3 mm (0.33 in)	9.03 mm (0.36 in)	12.5 mm (0.49 in)
Weight		63 g (0.134 lb)	55 g (0.12 lb)	
Dimensions	Ø 54 mm x 49.31 mm	Ø 50 mm x 49.3 mm	Ø 37.5 mm x 52.3 mm	Ø 30 mm x 47.2 x 37.5 mm
Lens mount	CS	CS	CS	CS
4:3 Angle of view (HxV)	30 x 23° Wide 6.9 x 5.2° Tele	106 x 90° Wide 77 x 62° Tele	101 x 74° Wide 47 x 35° Tele	94.1 x 70.9°
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	86 x 55° Wide 47 x 28° Tele	86 x 55°
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	92 x 60° Wide 51 x 30° Tele	92 x 60°
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	-
IR corrected	yes	yes	yes	yes

Mega Pixel Lenses 1/2-inch

**VLM-2V0414-MP****VLG-2V0414-MP****VLG-3V3813-MP3**

Image format	1/2-inch	1/2-inch	1/2-inch
Optical resolution	3 Mega pixels	3 Mega pixels	3 Mega pixels
Focal length	4 – 8 mm	4 – 8 mm	3.8 – 13 mm
Iris range	F1.4 to close	F1.4 to close	F1.4 to close
Min object distance	0.5 m (1.64 ft)	0.5 m (1.64 ft)	0.3 m (1 ft)
Back focus distance	16.4 mm (0.65 in) Tele 11.0 mm (0.43 in) Wide	16.4 mm (0.65 in) Tele 11.0 mm (0.43 in) Wide	10.6 mm (0.42 in)
Weight	72 g (0.16 lb)	75 g (0.17 lb)	80 g (0.18 lb)
Dimensions	Ø 41.6 mm x 48.8 mm	Ø 38.5 mm x 48 x 48.8 mm	Ø 45.7 mm x 64.2 mm
Lens mount	C	C	C
Angle of view (HxV)	90.4 x 67.0° Wide 47.0 x 35.3° Tele	90.4 x 67.0° Wide 47.0 x 35.3° Tele	97 x 72° Wide 28 x 21° Tele
Iris control	manual	4-pin, DC control	4-pin, DC control
Focus ctrl	manual	manual	manual
Zoom ctrl	manual	manual	manual
IR corrected	no	no	IR performance (not with IR illuminator)

Mega Pixel Lenses 2/3-inch



VLM-0814-MP



VLM-1214-MP



VLM-1614-MP



VLM-2514-MP



VLM-3V1228-MP

Image format	2/3-inch	2/3-inch	2/3-inch	2/3-inch	2/3-inch
Optical resolution	3 Mega pixels	3 Mega pixels	3 Mega pixels	3 Mega pixels	3 Mega pixels
Focal length	8 mm	12 mm	16 mm	25 mm	12 – 36 mm
Iris range	F1.4 to close	F1.4 to close	F1.4 to close	F1.4 to close	F2.8 to close
Min object distance	0.1 m (0.33 ft)	0.15 m (0.49 ft)	0.3 m (1 ft)	0.3 m (1 ft)	0.2 m (0.66 ft)
Back focus distance	13.1 mm (0.52 in)	13.1 mm (0.52 in)	13.1 mm (0.52 in))	13.1 mm (0.52 in)	13.5 mm (0.53 in) Tele 14.7 mm (0.58 in) Wide
Weight	63 g (0.14 lb)	62 g (0.14 lb)	60 g (0.13 lb)	71 g (0.16 lb)	105 g (0.23 lb)
Dimensions	Ø 33.5 mm x 28.2 mm	Ø 33.5 mm x 28.2 mm	Ø 33.5 mm x 28.2 mm	Ø 33.5 mm x 36 mm	Ø 41.6 mm x 53 mm
Lens mount	C	C	C	C	C
Angle of view (HxV)	56.3 x 43.7°	40.4 x 30.8°	30.8 x 23.4°	20.0 x 15.1°	13.6 x 10.4° Tele 41.0 x 31.2° Wide
Iris control	manual	manual	manual	manual	manual
Focus ctrl	manual	manual	manual	manual	manual
Zoom ctrl	-	-	-	-	manual
IR corrected	no	no	no	no	no

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