

# 13M Series Megapixel Varifocal Lens

## 1/3-INCH FORMAT, 3 MEGAPIXEL, AUTO IRIS (DIRECT DRIVE)

### Product Features

- Up to 3 Megapixels (MPx)
- CS Mount
- For use with 1/3-Inch Cameras
- Auto Iris, Manual Focus, and Zoom
- High Resolution Power in a Compact Body
- Aspherical Elements



13M15-50

Pelco's **13M Series** megapixel varifocal lenses are a new class of lenses specially designed to provide optimal results when used in cameras with megapixel sensors. These lenses enable megapixel cameras to realize the high resolutions that standard lenses cannot deliver, with a resolving power of up to 100 lines per millimeter. These lenses provide excellent image quality at both the center and at the corner of the image.

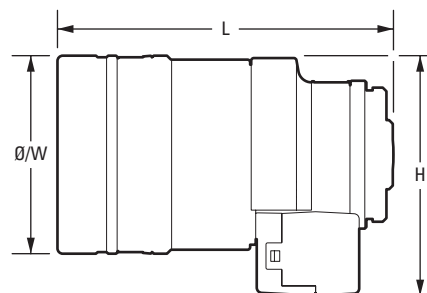
The **13M Series** offers versatility and flexibility in a compact package. Each auto iris lens covers a specific range of focal lengths, so you can adjust the lens to achieve the exact field of view instead of "almost the right view."

Appropriate for indoor and outdoor lighting situations, the **13M Series** lenses will fit all 1/3-inch CS-mount cameras requiring DC drive auto iris lenses. The lenses also include a spot filter. A factory-installed square 4-pin plug is standard for ease of installation.

Lenses in this series are available in 2.7X, 2.8X, 3.3X, and 4.3X zoom with varying focal lengths.

Designed especially for low-light capability, Pelco's **13M Series** lenses are extremely fast. These lenses provide excellent performance across a wide range of lighting conditions. The **13M Series** also provides excellent day/night performance in Pelco Sarix™ cameras that are capable of this function, which includes operation with IR lighting and visible lighting.

The **13M Series** lenses have a slip mechanism that allows it to be easily adjusted and oriented inside enclosures, domes, and so forth. In addition, the metal mount makes for a robust and secure attachment to cameras.



	H	ØW	L
13M2.2-6	1.85 (4.71)	1.61 (4.08)	2.13 (5.40)
13M2.8-8	1.85 (4.71)	1.61 (4.08)	2.05 (5.20)
13M2.8-12	2.01 (5.11)	1.92 (4.88)	2.58 (6.55)
13M15-50	1.79 (4.55)	1.48 (3.75)	2.30 (5.85)

NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.



# TECHNICAL SPECIFICATIONS

## MODEL

	<b>13M2.2-6</b>	<b>13M2.8-8</b>	<b>13M2.8-12</b>	<b>13M15-50</b>
Type	Varifocal	Varifocal	Varifocal	Varifocal
Format Size	1/3-inch	1/3-inch	1/3-inch	1/3-inch
Mount Type	CS	CS	CS	CS
Focal Length	2.2 ~ 6.0 mm	2.8 ~ 8.0 mm	2.8 ~ 12.0 mm	15.0 ~ 50.0 mm
Zoom Ratio	2.7X	2.8X	4.3X	3.3X
F-number (iris fully opened)	1.3 ~ 2.0	1.2 ~ 1.9	1.4 ~ 2.7	1.5 ~ 2.2
Image Size	6 mm diameter	6 mm diameter	6 mm diameter	6 mm diameter
Flange Focal Length	12.5 mm	12.5 mm	12.5 mm	12.5 mm
Minimum Object Distance	0.3 m	0.3 m	0.3 m	0.8 m
Iris	Auto	Auto	Auto	Auto
Field of View				
Wide				
Vertical	91°	73°	74°	14°
Horizontal	120°	100°	100°	18°
Diagonal	146°	128°	127°	23°
Tele				
Vertical	35°	26°	17°	4.2°
Horizontal	46°	35°	23°	5.6°
Diagonal	57°	43°	29°	6.9°
Focus	Manual	Manual	Manual	Manual
Zoom	Manual	Manual	Manual	Manual
Operating Temperature	14° to 122°F (-10° to 50°C)	14° to 122°F (-10° to 50°C)	14° to 122°F (-10° to 50°C)	14° to 122°F (-10° to 50°C)
Storage Temperature	-4° to 140°F (-20° to 60°C)	-4° to 140°F (-20° to 60°C)	-4° to 140°F (-20° to 60°C)	-4° to 140°F (-20° to 60°C)
Relative Humidity	35% to 90%	35% to 90%	35% to 90%	35% to 90%
Iris Drive Coil Resistance	190 Ω ±10%	190 Ω ±10%	190 Ω ±10%	190 Ω ±10%
Iris Damping Coil Resistance	500 Ω ±10%	500 Ω ±10%	500 Ω ±10%	500 Ω ±10%
Maximum Iris Operating Current	23 mA at 4 VDC	23 mA at 4 VDC	23 mA at 4 VDC	23 mA at 4 VDC
Unit Weight (approximate)	0.13 lb (0.06 kg)	0.13 lb (0.06 kg)	0.20 lb (0.09 kg)	0.13 lb (0.06 kg)
Shipping Weight (approximate)	1 lb (0.5 kg)	1 lb (0.5 kg)	1 lb (0.5 kg)	1 lb (0.5 kg)

**Note:** When power is turned off, the iris will close automatically.

## CERTIFICATIONS

- CE
- C-Tick

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