

## Megapixel Series Vari-focal Lenses

www.honeywellvideo.com

IR CORRECTED ASPHERICAL, DC AUTO IRIS/MANUAL IRIS

Honeywell's new line of megapixel (high definition) Vari-focal lenses is a new class of lenses ideally matched for high resolution sensors on high-end security cameras. The new lenses are a perfect solution for Vari-focal limitations, high-resolution and high-sensitivity needs. These lenses enable high definition cameras to maintain clear focus for all focal lengths within the zoom range.

Today's network IP camera systems demand compact lenses that provide the best optical performance while being easy to install and adjust. Designed especially for low light capability, these lenses offer the most compact size on the market while maintaining the widest maximum apertures for a given focal length range. They offer the ability to provide a high contrast, sharp, detailed picture of the subject in daylight and low light, allowing identification of a subject rather than just observation.

Featuring world-class design, these megapixel lenses bring together the highest quality aspherical glass optics, lightweight construction and durability to ensure state-of-the-art optical correction, transmission and light-gathering ability. Equipped with a glass that offers low dispersion and a high refractive index, the high-accuracy aspherical lens maximizes optical performance.

Vari-focal length lenses allow the installer to obtain the exact field of view quickly and easily, eliminating lens substitutions or the need to continuously adjust the camera setup. This is especially convenient for future changes to the viewing environment.

Megapixel Auto Iris lenses support image sensors from 1/4" to 1/1.8" format and are compatible with the vast majority of today's megapixel network cameras. For DC lens (HLD3V8MPD), the camera controls the iris through an industry-standard 4-pin connector and cable. HLM45V13MPD manual lenses allow the installer to set the depth of field for a specific application.

### Market Opportunities

Lens selection is the most critical element in any IP network CCTV installation. Honeywell's line of IR Corrected Vari-focal lenses provides the highest quality, reliability and ease of installation. In addition to extraordinary low-light functionality, Honeywell's day/night lenses are compact, lightweight and easy to install, making them perfect for use with True Day/Night cameras. The day/night Vari-focal lenses are ideal in outdoor installations such as parking lots, ports, and other areas where low light imaging is important.

### Features

- 3, 5 megapixel
- Full HD format
- Corner brightness
- Fastest maximum aperture of lens in class
- Focal length ranges from 3-8 mm (HLD3V8MPD) and 4.5-13.2 mm (HLM45V13MPD)
- Equipped with a CS-type metal mount
- High-accuracy aspherical lens with a glass having a low dispersion and high-refractive index for optimum performance
- IR corrected Vari-focal lens ensures that focus shift does not occur when the camera switches between color and monochrome modes
- Lightweight and compatible with 1/4" through 1/1.8" size image sensors



HLD3V8MPD



HLM45V13MPD

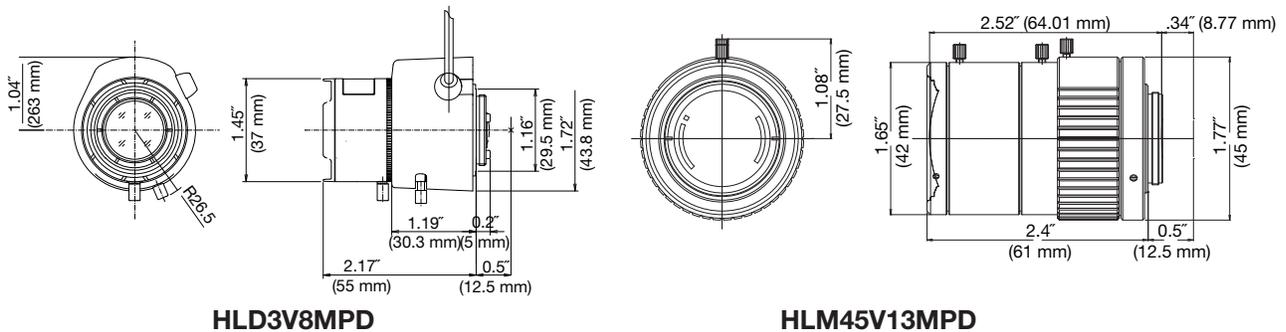
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## SPECIFICATIONS

LENSES		HLD3V8MPD		HLM45V13MPD		
Image Format		1/4"	1/3"	1/4"	1/3"	1/1.8"
Lens Mount		CS (Metal mount)		CS (Metal mount)		
Focal Length		3.0-8.0 mm (2.7 X)		4.5-13.2 mm (2.9 X)		
Max Aperture Ratio		1: 1.2		1: 1.8		
Angle of View*	D	84.8° - 33°	115.8° - 43.9°	56.08° - 20.13°	75° - 26.82°	112.8° - 40.1°
	H	67.3° - 26.5°	90.7° - 35.2°	44.80° - 16.12°	60° - 21.5°	100.1° - 32.6°
	V	50.2° - 19.9°	67.3° - 26.5°	33.56° - 12.10°	44.8° - 16.12°	83.9° - 24.8°
Operation Range	Iris	F1.2 ~ T360		F1.8 ~ T360		
	Focus	0.3 m - Infinity		0.5 m - Infinity		
	Zoom	3.0-8.0 mm		4.5-13.2 mm		
Iris Control		DC Auto	4-pin DC	Manual		
Flange Back Length		12.5 mm		12.5 mm		
Back Focal Length	Tele/Wide	7.8 mm/7.8 mm		18.83-8.78 mm		
Coil Resistance	Drive Coil:	190 Ohms		N/A		
	Damping Coil:	855 Ohms		N/A		
Current Consumption (max @ DC 4V)		22 mA		22 mA		
Dimensions (L x W x H)		1.45" x 1.90" x 2.17" 37 x 48.2 x 55 mm		1.65" x 2.40" 42 x 61 mm		
Weight	Unit:	2.2 oz (61 g)		5.2 oz (148 g)		
Construction	Housing:	ABS Plastic		Metal		
	Finish:	Black		Black		
Temperature	Operating:	14°F to 122°F (-10°C to 50°C)		14°F to 122°F (-10°C to 50°C)		
	Storage:	-4°F to 140°F (-20°C to 60°C)		-4°F to 140°F (-20°C to 60°C)		
Relative Humidity		Up to 90%		Up to 90%		

\*Angle of View values are for 4:3 format sensors. For 16:9 sensors, the horizontal values will increase for both near and far focal lengths.



Ordering	
HLD3V8MPD	3.0-8.0 mm, F1.2, 3 MP Auto Iris Aspherical Vari-focal, IR corrected Lens
HLM45V13MPD	4.5-13.2 mm, F1.8, 5 MP Manual Iris Aspherical Vari-focal, IR corrected Lens

**NOTE:** Honeywell reserves the right, without notification, to make changes in product design or specifications.

### Automation and Control Solutions

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