

M12 Camera Lens Module

For >1.5μm Pixel ~5MP/8MP Sensor

Key Properties

Image Diameter 1/2": Φ 8mm, 1/2.5": Φ 7.2mm, 1/3": Φ 6mm

Resolution: >1.5μm (~5MP/8MP) or pixel size > 1.5μm Sensor

Focal Length: 2.5mm/2.8mm/3.0mm/3.2mm/3.6mm/3.9mm
4.2mm/7.2mm

Lens Mount for M12 x 0.5P

IR Cut Filter Built in, Others Optical Filter Optional



Application

Camera Module / Image Sensor Module / Out Door

Video Surveillance / Camcorder / Security / Car Camcorder

Feature

- ◆ Different view angle option and glass lens material with good reliability.
- ◆ Image diameter Φ 8.0mm for 1/2", Φ 7.2mm for 1/2.5", Φ 6.7mm for 1/2.7", Φ 6.0mm for 1/3" or 1/4" smaller dimension size sensors.
 - Pixel size resolution: >1.5μm pixel or bigger pixel size sensors can be suitable.
 - The sensor pixel resolution suitable around 5MP/8MP or below sensors.
- ◆ M12 x 0.5P is convenient for standard S-Mount M12 holder.
- ◆ IR cut filter built-in to cut the infrared light for the outdoor environment.
 - The other optical filters optional as your requirement like IR pass filter for IR sensing system or special wavelength band customized.

Introduction

CL12P217 series is a Glass+Plastic elements lens designed for image circle Φ 6.0~8.00mm sensor size suitable to 1/2", 1/2.5", 1/3", 1/4" or smaller size image sensors. The optical design resolution for >1.5μm pixel size, it can match to 5MP/8MP or below resolution also can be used for bigger pixel size sensors. The wide view angle range from 57 degree to 120 degree FOV options for M12 standard S-Mount holder is convenient to find the suitable lens you need.

The M12 designed convenient for the standard S-Mount holder of camera module. CL12P1.5 camera lenses are the most cost effective and good choice for surveillance, security, car camcorder, out door etc. applications.

Specifications

Lens Mount Type	M12 x P0.5		
Dimension(mm)	Φ 14 x TTL		
Element	G+P Lens		
Image Circle(mm)	Φ 6~Φ 8mm		
For Sensor Size	1/2", 1/2.5", 1/3"		
Focal Length (EFL)	±3%		
Back Focal Length (BFL)	±3%		
F/No. (Infinite)	as the Table.1		
Field of View (FOV)	D	as the Table.1	
	H	as the Table.1	
	V	as the Table.1	
Optical Distortion	as the Table.1		
Resolution	>1.5μm ~5MP/8MP		
Chief Ray Angle (CRA)	-		
IR Filter Spec. (Others available)			
Tavg ≥ 88% @440nm-620nm, T=50% @650nm Tavg ≤ 3% @700nm-1000nm, T<5% @1050nm			
Working Temperature	-20 °C ~ +80 °C		

Table.1

FL	F/no.	Image Circle	TTL	Dist.	FOV (Image Circle)
2.5mm	2.4	6.4mm	15.2mm	18%	D170/H120/V80
2.8mm	2.8	6.6mm	13.5mm	-4%	D138/H116/V85
3.0mm	2.4	7.0mm	17.5mm	-1%	D120/H98/V75
3.2mm	2.8	6.7mm	15.6mm	1%	D107/H92/V68
3.6mm	2.8	8.0mm	19.0mm	1%	D105/H85/V55
4.0mm	2.8	8.0mm	22.0mm	0.5%	D95/H73/V55
4.2mm	3.0	7.5mm	21.5mm	0.5%	D65/H56/V33
7.2mm	2.5	7.5mm	11.2mm	1.5%	D43/H35/V26

Specifications are subject to change without notice.

