

M5 Camera Lens Module for 1/5" Sensor

Key Properties

Image Diameter Φ3.6mm for 1/5" Sensor

Resolution: 1.6μm/2MP or pixel size > 1.6μm Sensor

Focal Length: 1.75mm/1.95mm/2.2mm/2.4mm/2.5mm/2.9mm

Lens Mount for M5 x 0.35P

IR Cut Filter Built in, Others Optical Filter Optional



Application

Camera Module/ Image Sensor Module / Laser Sensing Application
Video Surveillance / Mobile Application / Machine Vision

Feature

- Different view angle option and glass lens material with good reliability.
- ◆ Image diameter 3.6mm can be used for 1/5" or smaller dimension size sensors.
 - Pixel size resolution: 1.6µm pixel or bigger pixel size sensors can be suitable.
 - The sensor pixel resolution suitable around 2MP or below.
- ◆ M5 x 0.35P is convenient for standard S-Mount M5 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 and customized.

Introduction

CL5P1.6 series is a 3 to 4 elements lens designed for image circle Φ 3.6mm sensor size suitable to 1/5", 1/6" or smaller size image sensors. The optical design resolution for 1.6 μ m pixel size, it can match to 2MP or below resolution also can be used for bigger pixel size sensors. The wide view angle range from 60 degree to 90 degree FOV options for M5 standard S-Mount holder is convenient to find the suitable lens you need.

The glass lens has good reliability advantages for outdoor, wide temperature range performance, good material life time, and good for scratch and chemical material. The M5 designed convenient for the standard S-Mount holder of camera module. CL5P1.6 camera lenses are the most cost effective and good choice for surveillance, security, car camcorder, out door etc. applications.



Specifications

Specificati									
Lens Mount Type		M5 x P3.5							
Dimension(mm)			Ф10 x TTL	Image Plane SE COOK SEW					
Element		$3E \sim 4E + IR$							
Image Circle(mm)			>Ф3.6mm						
For Sensor Size			1/5", 1/6"						
Focal Length (EFL)		±3%							
Back Focal Length (BFL)		±3%	Table.1						
F/No. (Infinite)		as Table.1	FL	F#.	TTL	BFL	Dist.	FOV(1/4")	
Field of View (FOV)		D	as Table.1	4.75	0.4	0.05	0.7	4.50/	D/H/V
		Н	as Table.1	1.75mm		3.05mm	0.7mm	1.5%	90 /77 /62
		V	as Table.1	1.95mm 2.2mm	2.4	2.7mm 3.2mm	0.61mm 0.64mm	1.5% 1.5%	83 / 70 / 56 76 / 64 / 50
Optical Distortion		as Table.1	2.211111 2.4mm	2.4	3.25mm	0.63mm	1.5%	70 / 59 / 46	
Resolution	Pixel		2MP / 1080p	2.411111 2.5mm	2.4	3.4mm	0.65mm	1.5%	68 / 57 / 44
	Center		160 lp/mm	2.9mm	3.0	3.45mm	0.53mm	1%	60 / 50 / 38
	Edge		125 lp/mm	6.0mm x					imm Holder
Chief Ray Angle (CRA)		_							
Relative Illumination		_	6.5. <u>8.</u>						
IR Filter Spec. (Others av			vailable)	6-21					
Tavg≥88% @440nm-620nr T=50% @650nm Tavg≤3% @700nm-1000nr T<5% @1050nm									
Working Temperature		-25 °C ~ +85 °C	5.4±0.05 5.7±0.05 5.7±0.05 5.7±0.05 5.7±0.05						
		-25 °C ~ +85 °C	M5XP0.35						

Specifications are subject to change without notice.

