



M7 Camera Lens Module for 1/4" Sensor

Key Properties

Image Diameter Φ 4.5mm for 1/4" Sensor

Resolution: 1.6 μ m/2MP or pixel size \geq 1.6 μ m Sensor

Focal Length:

1.1mm/1.4mm/1.7mm/1.9mm/2.1mm/2.3mm/2.5mm/2.8mm

Lens Mount for M7 x 0.35P

IR Cut Filter Built in, Others Optical Filter Optional



Application

Camera Module/ Image Sensor Module / Laser Sensing Application

Video Surveillance / Camcorder / Car Camcorder / Machine Vision

Feature

- ◆ Different view angle option and glass lens material with good reliability.
- ◆ Image diameter 4.5mm can be used for 1/4" or smaller dimension size sensors.
 - Pixel size resolution: 1.6 μ m pixel or bigger pixel size sensors can be suitable.
 - The sensor pixel resolution suitable around 2MP or below.
- ◆ M7 x 0.35P is convenient for standard S-Mount M7 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

CL7P1.6 series is a 3G to 4G(Glass) elements lens designed for image circle Φ 4.5mm sensor size suitable to 1/4", 1/5" 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 40 degree to 130 degree FOV options for M7 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 M7 designed convenient for the standard S-Mount holder of camera module. CL7P1.6 camera lenses are the most cost effective and good choice for surveillance, security, car camcorder, out door etc. applications.



Specifications

Lens Mount Type		M7 x P3.5					
Dimension(mm)		Φ10 x TTL					
Element		3E ~ 5E + IR					
Image Circle(mm)		>Φ4.5mm					
For Sensor Size		1/4", 1/5"					
Focal Length (EFL)		±3%					
Back Focal Length (BFL)		±3%					
F/No. (Infinite)		as Table.1					
Field of View (FOV)	D	as Table.1					
	H	as Table.1					
	V	as Table.1					
Optical Distortion		as Table.1					
Resolution	Pixel	2MP / 1080p					
	Center	160 lp/mm					
	Edge	125 lp/mm					
Chief Ray Angle (CRA)		–					
Relative Illumination		–					
IR Filter Spec. (Others available)							
Tavg ≥ 88% @440nm-620nm, T=50% @650nm							
Tavg ≤ 3% @700nm-1000nm, T<5% @1050nm							
Working Temperature	-25 °C ~ +85 °C						

FL (mm)	F#	Dia. (mm)	TTL (mm)	BFL (mm)	Dist.	FOV(1/4") D / H / V
1.05	2.4	10.0	8.69	1.95	-27%	136/125/108
1.4	2.4	12.5	9.5	1.56	-26%	121/107/87
1.7	2.5	10.0	9.46	2.11	8.5%	104 / 93 / 78
1.9	2.0	10.0	11.0	3.52	-20%	100 / 87 / 70
2.1	2.6	10.0	10.7	2.49	-8.5%	95 / 82 / 68
2.3	2.4	11.5	10.47	3.05	0.8%	88 / 76 / 60
2.5	4.0	8.0	10.75	3.13	-0.6%	84 / 72 / 57
2.75	2.3	10.0	11.91	3.37	-10%	78 / 66 / 52
3.2	2.6	10.0	11.3	1.6	-1.5%	70 / 59 / 46

Specifications are subject to change without notice.

