

M7 Camera Lens Module for 1/4" Sensor

Key Properties

Image Diameter Φ4.0mm for 1/4" Sensor

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

Focal Length:

1.3mm/1.4mm/1.6mm/1.7mm/1.8mm/2.1mm

/2.5mm/2.7mm/2.85mm/ 3.0mm

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 4.0mm can be used for 1/4" or smaller dimension size sensors.
 - Pixel size resolution: 2µm 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

CL7P2I4 series is a 3G to 4G(Glass) elements lens designed for image circle Φ4.0mm sensor size suitable to 1/4", 1/5" or smaller size image sensors. The optical design resolution for 2μm 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 170 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. CL7P2I4 camera lenses are the most cost effective and good choice for surveillance, security, car camcorder, out door etc. applications.



Specifications

Lens Mount	Туре	M7 x P3.5					
Dimension(r	nm)	Ф10 x TTL					
Element		3G/4G + IR					
Image Circle	e(mm)	Ф4~Ф4.2mm					
For Sensor	Size	1/4", 1/5"					
Focal Lengtl	n (EF	±3%					
Back Focal I (BFL)	Lengt	±3%					
F/No. (Infinite)			as Table.1				
		D	as Table.1				
Field of View (FOV)		Н	as Table.1				
		V	as Table.1				
Optical Distortion			as Table.1				
	Pixel		2MP / 1080p				
Resolution	Center		160 lp/mm				
	Edge		120 lp/mm				
Chief Ray A (CRA)	ngle	_					
Relative Illur	minati	_					
IR Filter Spec. (Others available)							
Tavg≥88% @440nm-620nm, T=50% @650nm Tavg≤3% @700nm-1000nm, T<5% @1050nm							
Working Ten	npera	-25°C ~ +85°C					

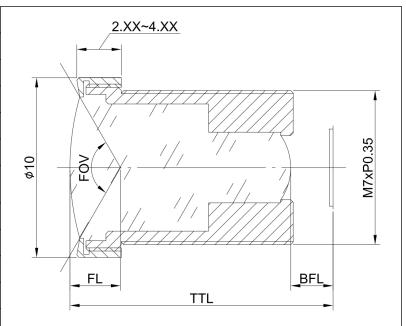


Table.1

Table. I					
FL (mm)	F/no.	TTL (mm)	BFL (mm)	Dist. (%)	FOV(1/4") D / H / V
1.3	2.5	-	-	-	114 / 102 / 85
1.4	2.5	-	-	-	110 / 97/ 80
1.6	2.4	-	-	-	102 / 90 / 73
1.7	2.5	9.5	1.46	8.5	125 / 98 / 75
1.8	2.8	9.0	1.55	15	96 / 84 / 68
2.1	2.7	11.45	1.35	-30	87 / 74 / 59
2.5	2.5	12.25	2.7	-20	77 / 65 / 51
2.7	2.5	9.1	2.04	-28	73 / 61 / 48
2.85	2.4	11.75	2.64	-19	70 / 58 / 45
3.0	2.4	14.66	3.89	-25	67 / 56 / 43

Specifications are subject to change without notice.

