

## M5 FOV72° Camera Lens Module

### for 1/6.5" VGA Sensor

#### Key Properties

Image Diameter 2.8mm for <1/6.5" Sensor (OV7251, 1/7.5")

Resolution: VGA

Field of View(FOV): D:72°, H:60°, V:46° (for OV7251)

F/No.: 2.6

Lens Mount for M5 x 0.35P

IR Cut Filter Built in, Others Optical Filter Optional



#### Application

Small Camera Module/ Image Sensor Module

Laser Sensing Application/ IR Sensor Module/ Gesture Sensor

#### Feature

- ◆ FOV 72° wide view angle and glass lens material with good reliability.
  - FOV D: 72°, H: 60°, V: 46°
- ◆ Image diameter 2.8mm can be used for 1/6.5" or smaller dimension VGA sensors.
- ◆ M5 x 0.35P is convenient for standard S-Mount M5 holder.
- ◆ IR cut filter 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

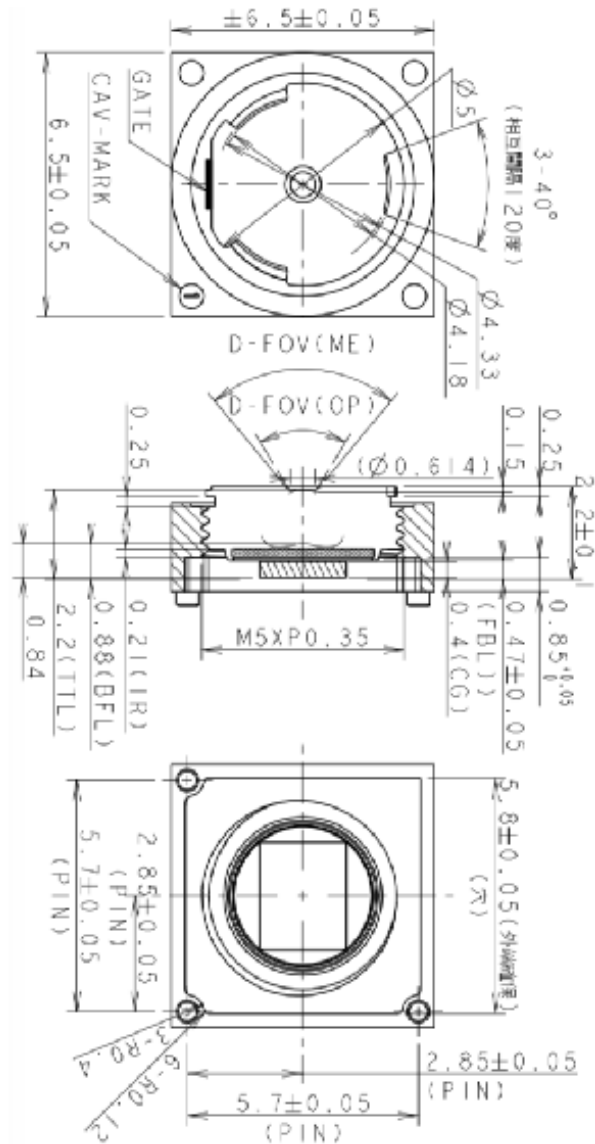
CL5S6.5P3V72 is a 3P(Plastic) elements lens designed for <1/6.5" VGA sensor also can be used for smaller dimension size VGA sensors. The angle is designed to 72 degree FOV with low distortion suitable for image sensor, laser sensing, infrared sensor or gesture sensor applications need the low distortion image and very compact package dimensions size.

This lens has good cost effect, small dimensions size advantages for laser sensing, infrared image sensor, portable device, and robot sensor applications. The M5 designed convenient for the standard S-Mount holder of camera module. If you are looking for a wide view angle lens, it would be a good choice.



**Specifications**

Lens Mount Type		M5 x P0.35			
Dimension(mm)		Φ5 x 2.2			
Element		3P			
Image Circle(mm)		Φ2.8			
For Sensor Size		1/6.5", 1/7.5"			
Focal Length (EFL)		1.66mm ±3%			
Back Focal Length (BFL)		0.88mm ±3%			
F/No. (Infinite)		2.6			
Field of View (FOV)	D	72° ±5°			
	H	60° ±5°			
	V	46° ±5°			
Optical Distortion		-2.1%(Max)			
Resolution		0.3MP / VGA			
Chief Ray Angle (CRA)		34.3°			
Field	0.2	0.4	0.6	0.8	1.0
Y(mm)	0.26	0.51	0.77	1.0	1.28
Angle	10.5°	20.4°	28.5°	33.5°	33.6°
Relative Illumination		> 45%			
IR Filter Spec. (Others available)					
Tavg ≥ 95%, Tmin ≥ 90% @440nm-620nm, T=50% @650nm					
Tavg ≤ 0.5%, Tmax ≤ 2% @700nm-1050nm,					
Working Temperature		-20°C ~ +60°C			



Specifications are subject to change without notice.

