VGA Small USB Camera Module GC0307

Key Properties

GC0307 Image Sensor

YUY2 Format

Frame Rate: 30fps for VGA(640(H)x480(V))

S-mount M5 Lens Holder

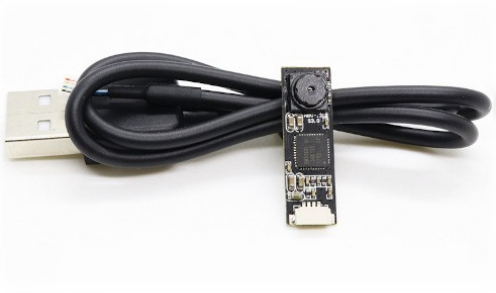
Lenses Type -Standard: 60° (M5 Camera Lens Module)

-Optional: 40°,80°,135°

Application

Portable Media / Robot Vision Camera/ Laser Sensing

Toys / Monitoring



Feature

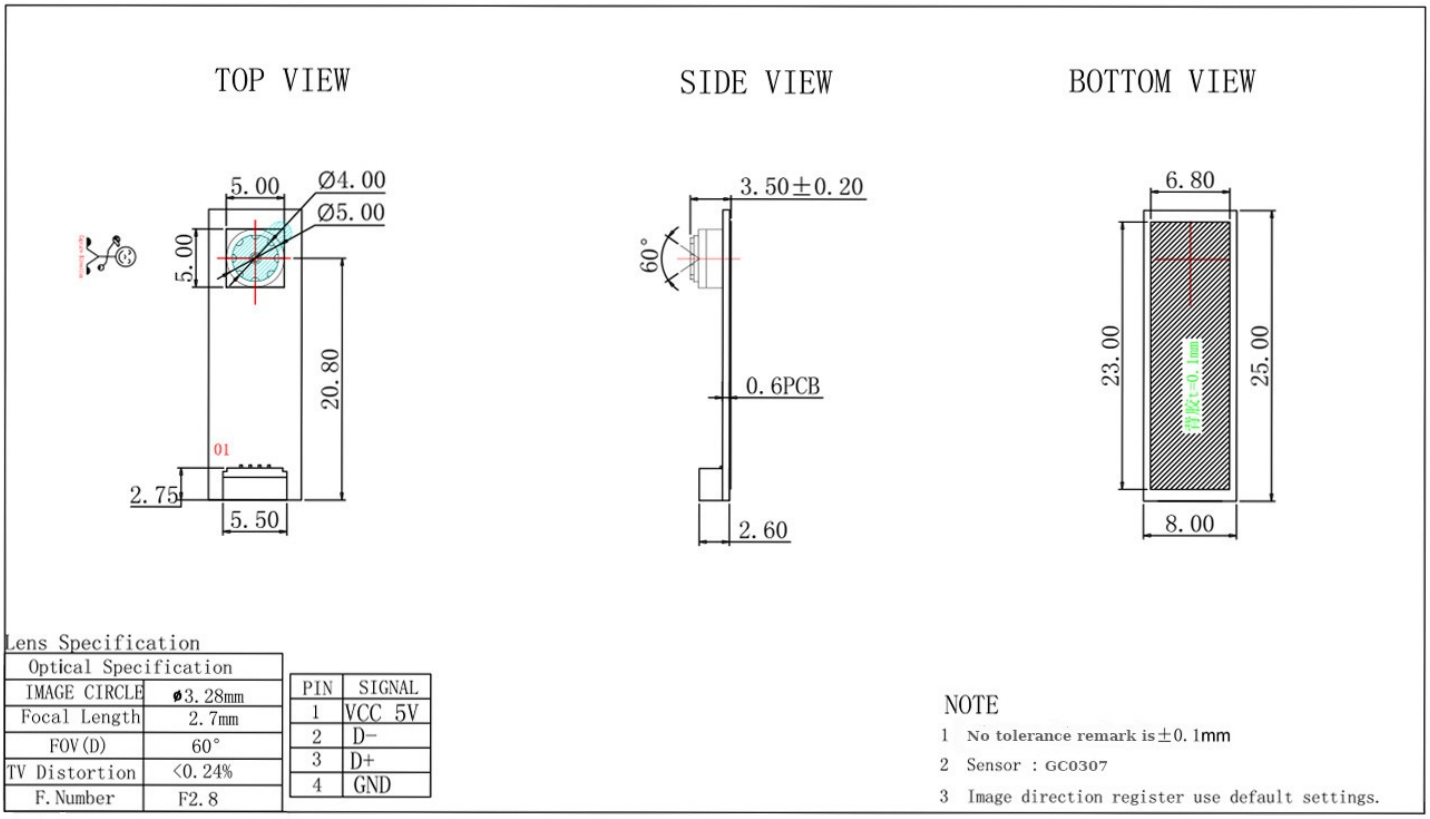
- VGA(640x480) image sensor GC0307
  - Low illumination and high dynamic range sensor
- Megapixel M5 lenses optional
  - Standard: 60° M5 Camera Lens Module
  - Optional: 40°,80°,135°
- YUY2 format output support
- UVC support, plug and play for Windows and Linux

Introduction

CM03M30M5S is a VGA(640x480) USB camera board using 1/7” GC0307 designed for low cost and small camera device applications. CM03M30M5S is an ideal solution of small USB camera module for basic video camera or sensor monitoring function. It has S-mount (M5) lens holder for enabling the users to choose the lens and any spectral filter as per their requirements. It is a Plug-and-Play camera (UVC compliant) for Windows, Linux, Android and Mac OSX .

Specifications

Model	CM03M30M5S
Sensor	GC0307
Image Size	1/7 inch
Pixel Size	3.2 µm
Image Area	2048 µm x 1536 µm
Image Pixels & Resolution	VGA / 640(H) x 480(V)
Image Formats	YUY2 (YUYV)
Image Transfer Rate	YUY2: 640x480@30fps/ 320x240@90fps/ 160x120@120fps
Max S/N Ratio	42dB
Dynamic Range	-
Sensitivity	-
Mini illumination	-
Shutter Type	-
Connecting Port	USB2.0
Plug & Play	UVC(USB Video Class) Compliant support
Auto Exposure Control (AEC)	Support
Adjustable Parameters	Brightness, Contrast, Saturation, Hue, Sharpness, Gamma, White Balance, Backlight Contrast, Exposure, Edge Enhance
Lens Parameters	Standard: 60° M5 Camera Lens Module Optional: 40°,80°,135°
Lens Holder	Standard M5 lens holder
Power Supply	USB BUS POWER 4P-1.0mm Socket
Operating Voltage	DC 5V
Operating Current	< 120mA
Operating Temperature	-20 ~ 70°C
Storage Temperature	-20 ~ 85°C
PCBA Dimensions	8mm x 25mm
Weight	~20g
Cable Length	Standard 40cm
Operating System Request	WinXP/Win7/Win8/Win10 Linux / Android / MAC OSX

Specifications are subject to change without notice.

Sensor Board Drawings