

VGA Small USB Camera Module GC0307

KEY PROPERTIES

- GC0307 Image Sensor
- YUY2 Format
- Frame Rate: 30fps for VGA (640(H) x 480(V))
- S-mount M5 Lens Holder
- Lenses Type -Standard: 50° (FL2.7mm M5 Camera Lens Module)

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: 50° M5 Camera Lens Module (FL2.7mm)
- YUY2 format output support
- UVC support, plug and play for Windows and Linux

INTRODUCTION

GCM03M30M5S is a VGA (640x480) USB camera board using 1/7" GC0307 designed for low cost and small camera device applications. GCM03M30M5S 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	GCM03M30M5S
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	160x120 @30fps / 176x144 @30fps / 320x240 @30fps 352x288 @30fps / 640x480 @30fps
Max S/N Ratio	42dB
Connecting Port	USB2.0
Plug & Play	UVC (USB Video Class) Compliant support
Auto Exposure Control (AEC)	Support
Auto White Balance (AWB)	Support
Adjustable Parameters	Brightness, Contrast, Hue, Saturation, Sharpness, Gamma, White Balance, Backlight Contrast, Exposure
Lens Parameters	Standard: 50° M5 Camera Lens Module
Lens Holder	Standard FL2.7mm 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

