

VGA Small USB Camera Module GC0308

KEY PROPERTIES

- GC0308 Image Sensor
- YUY2 Format
- Frame Rate:
 - 30fps for VGA (640(H) x 480(V))
 - 120fps for QVGA (320(H) x 240(V))
- S-mount M5 Lens Holder
- Lenses Type
 - Standard: FL3.2mm M5 Camera Lens Module (45°)
 - Optional: FL1.95mm M5 Camera Lens Module (70°)



APPLICATION

- Portable Media / Robot Vision Camera/ Laser Sensing
- Monitoring / Security

FEATURE

- VGA (640x480) image sensor GC0308
 - Low illumination and high dynamic range sensor
- Megapixel M5 lenses optional
 - Standard: FL3.2mm M5 Camera Lens Module (45°)
 - Optional: FL1.95mm M5 Camera Lens Module (70°)
- YUY2 format output support
- UVC support, plug and play for Windows and Linux



INTRODUCTION

GCM03M30M5S is a VGA (640x480) USB camera board using 1/6.5" GC0308 designed for low cost and small camera device applications. GCM03M120M5S 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	GCM03M120M5S
Sensor	GC0308
Image Size	1/6.5 inch
Pixel Size	3.4 μm
Image Area	2176 μm x 1632 μm
Image Pixels & Resolution	VGA / 640(H) x 480(V)
Image Formats	YUY2 (YUYV)
Image Transfer Rate	640x480 YUY2@30fps / MJPG@30fps 320x240 YUY2@30fps / MJPG@30fps(Color) 120fps(Mono) 160x120 YUY2@30fps / MJPG@30fps
Connecting Port	USB2.0
Plug & Play	UVC (USB Video Class) Compliant support
Auto Exposure Control (AEC)	Support
Adjustable Parameters	Brightness, Contrast, Hue, Saturation, Sharpness, Gamma, Gain
Lens Parameters	Standard: FL3.2mm, 45° M5 Camera Lens Module FL1.95mm, 70° M5 Camera Lens Module
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	12mm x 25mm
Weight	~30g
Cable Length	Standard 40cm
Operating System Request	WinXP / Win7 / Win8 / Win10 Linux / Android / MAC OSX

Specifications are subject to change without notice.



