



0.3M VGA Monochrome Global Shutter Camera

Sensor Module USB2.0 SC035HGS

Key Properties

SC035HGS Image Sensor

MJPEG Format

Frame Rate: 180fps for 640 (H)x 480 (V)

S-mount M12 Lens Holder

Lenses Type -Standard: H 54°, V 42°

Application

Portable Media / Robot Vision Camera/ Image Recognition

Laser Sensing / DIY Camera Solutions / Action Photography



Feature

- ◆ 0.3M(640x480) image sensor SC035HGS
 - Low illumination and high dynamic range sensor
- ◆ Megapixel M12 lenses optional
- ◆ MJPEG compressed format output support
- ◆ UVC support, plug and play for Windows and Linux
- ◆ Global shutter support

Introduction

CM03M180M12QG is a 0.3MP (640x480) USB camera sensor module using 1/6" SC035HGS designed for global shutter and high dynamic range scene performance. CM03M180M12QG is an ideal solution of small USB camera module for global shutter and high dynamic range applications like action photography and face recognition. It has S-mount (M12) 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.



Specifications

Model	CM03M180M12QG
Sensor	SC035HGS
Image Size	1/6 inch
Pixel Size	3.744 μm
Image Area	2400 μm x 1800 μm
Image Pixels & Resolution	640(H) x 480(V)
Image Formats	MJPEG/ YUV (Monochrome)
Image Transfer Rate	MJPEG: 640*480@180fps / YUV: 640*480@30fps MJPEG: 640*360@180fps / YUV: 640*360@30fps MJPEG: 640*240@180fps / YUV: 640*240@30fps
Max S/N Ratio	40dB
Dynamic Range	100dB
Sensitivity	Mono 6500mV/lux-sec
Shutter Type	Electronic global shutter
Connecting Port	USB2.0 High Speed
OTG Protocol	USB2.0 OTG
Plug & Play	UVC(USB Video Class) Compliant support
Auto Exposure Control (AEC)	Support
Auto White Balance (AWB)	Support
Adjustable Parameters	Brightness, Contrast, Gamma, White Balance, Backlight Contrast, Exposure, Focus
Lens Parameters	Standard: H 54°, V 42°
Lens Holder	Standard M12 lens holder
Power Supply	USB BUS POWER
Operating Voltage	USB5V
Operating Current	200mA
Operating Temperature	Operation : -30° ~ 70°C Stable image : 0° ~ 50°C
Storage Temperature	-30 ~ 70°C
PCBA Dimensions	38mm x 38mm *1.6mm+0.3mm
Weight	~30g
Operating System Request	Win7/Win8/Win10/Win11 (no SDK) Linux 2.6 or above (SDK support) Android 4.0 or above (SDK support)

Specifications are subject to change without notice.



Sensor Board Drawings

