5M Camera Module USB2.0 OX05B1S

Key Properties
OX05B1S Image Sensor
USB2.0 MJPEG/YUV2 Format
Frame Rate: 50fps for 5M(2592(H)x1944(V))
Max Frame Rate: 50fps for 5Mp(2592(H)x1944(V))
S-mount M12 Lens Holder
Lenses Type -Standard: FL3.2mm Fixed Focus
       -Optional: FL2.2/FL2.5/FL3.0/FL3.2/FL3.6/FL3.9
       /FL4.5/FL6.2/FL8.0/FL10.0

Application
Mobile Camera / Portable Media / Entertainment
Digital Still Cameras / PC multimedia

Feature

- 5M(2592x1944) SOC image sensor OX05B1S
- The OX05B1S features an internal anti-shake engine for image stabilization is good for HD video, good image quality like conference or telepresence applications.
- Supports Global Shutter: Effectively prevents image blur or distortion caused by fast motion or shaking
- ◆ M12 lenses of 1/2.5" 5M image optional
  - Standard: FL3.2mm(HxV: 100° x 68°)
  - Optional: FL2.2(131° x 97°)/ FL6.2(62° x 39°)/ FL8.0(50° x 29°)/ FL10.0(38° x 21°)
- ◆ MJPEG compressed format output support
- ◆ UVC support, plug and play for Windows and Linux

Introduction
CM5M50M12QG is a 5MP (2592×1944) USB camera module featuring a 1/2.5" OX05B sensor with global shutter technology and high-resolution full HD image quality.CM5M50M12QG is an ideal compact USB camera solution designed for capturing fast-moving objects with sharp, clear images and no rolling shutter distortion. 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	CM5M50M12QG
Sensor	OX05B1S
Image Size	1/2.5 inch
Pixel Size	2 .2µm x 2.2 µm
Image Area	5737.6 µm x 4312 µm
Image Pixels & Resolution	5M / 2592(H) X 1944(V)
Image Formats	MJPEG / YUV2 (YUYV)
Image Transfer Rate	2592x1944@50fpsMJPEG 1600x1200@50fpsMJPEG 1280x960@50fpsMJPEG 960x720@50fpsMJPEG 640x480@50fpsMJPEG 2592x1944@2fps YUV 1600x1200@5fps YUV 960x720@10fps YUV 800x600@20fps YUV
Max S/N Ratio	30dB
Sensitivity	0.65V/lux-sec@550nm
Mini illumination	0.1 lux
Shutter Type	Global Shutter
Connecting Port	USB2.0 High Speed
Plug & Play	UVC(USB Video Class) Compliant support
Auto Exposure Control (AEC)	Support
Auto Exposure Bracketing (AEB)	Support
Auto Gain Control (AGC)	Support
Adjustable Parameters	Brightness, Contrast, Saturation, Hue, Sharpness, Gamma, Gain, White Balance, Backlight Contrast, Exposure
Lens Parameters	Standard: FL3.2mm Optional: FL2.2/FL2.5/FL3.0/FL3.2/FL3.6 /FL3.9/FL4.5/FL6.2/FL8.0/FL10.0
Lens Holder	Standard M12 lens holder
LED Power Connector	2P-2.0mm Socket
Power Supply	USB BUS POWER 4P-2.0mm Socket
Operating Voltage	DC 5V
Operating Current	180mA – 230mA
Operating Temperature	-10°C ~ 65°C
Storage Temperature	-20°C ~ 75°C
PCBA Dimensions	38x38mm

Weight	~30g
Cable Length	Standard 1m, Optional 2m, 3m, 5m
Operating System Request	WinXP/Vista/Win7/Win8/Win9/Win10/Win11etc. LinuxwithUVC(abovelinux-2.6.26)MAC-OSX10.4.8orlater Android4.0orabovewithUVC

Specifications are subject to change without notice.