



5M Camera Module USB2.0 IMX335

Key Properties

IMX335 Image Sensor

USB2.0 MJPEG/YUV2 Format

Frame Rate: 30fps for 5M(2592(H)x1944(V))

Max Frame Rate: 30fps for 5Mp(2592(H)x1944(V))

S-mount M12 Lens Holder

Lenses Type -Standard: FL3.2mm Fixed Focus

-Optional: FL1.8/FL2.2/FL2.5/FL3.0/FL3.6/FL3.9/FL4.5
/FL6.2/FL7.2/FL8.0/FL10.0

Autofocus Lens: FOV(H)30°, FOV(H)45°, FOV(H)60°



Application

Mobile Camera / Portable Media / Entertainment

Digital Still Cameras / PC multimedia

Feature

- ◆ 5M(2592x1944) SOC image sensor IMX335
 - The IMX335 features an internal anti-shake engine for image stabilization is good for HD video, good image quality like conference or telepresence applications.
- ◆ M12 lenses of 1/2.8" 5M image optional
 - Standard: FL3.2mm(HxV: 84° x 64°)
 - Optional: FL2.2(112° x 91°)/ FL6.2(48° x 36°)/ FL8.0(40° x 29°)/ FL10.0(31° x 22°)
 - Autofocus: FOV(H)30°, FOV(H)45°, FOV(H)60°
- ◆ MJPEG compressed format output support
- ◆ UVC support, plug and play for Windows and Linux

Introduction

CM5M30M12Q2 is a 5MP(2592x1944) USB camera board using 1/2.8" IMX335 with anti-shake engine and support autofocus is good for the mobile device and still camera applications. As the high resolution 5M and full function support, the CM5M30M12Q2 is an idea cost effective solution of high performance video camera and digital still camera. It has S-mount (M12) lens holder for enabling the users to choose the lens and any spectral filter as per their requirements.



Specifications

Model	CM5M30M12Q2
Sensor	IMX335
Image Size	1/2.8 inch
Pixel Size	2 μ m
Image Area	5800 μ m x 4750 μ m
Image Pixels & Resolution	5M / 2592(H) X 1944(V)
Image Formats	MJPEG / YUV2 (YUYV)
Image Transfer Rate	2954X1944 MJPEG@30fps / 2048X1536 MJPEG@30fps 1600X1200 MJPEG@30fps / 1920X1080 MJPEG@30fps 1280X960 MJPEG@30fps / 1280x720 MJPEG@30fps 1024X768 MJPEG@30fps / 800x600 MJPEG@30fps 640x480 MJPEG@30fps / 320x240 MJPEG@30fps 2592x1944 YUY2@1fps / 2048x1536 YUY2@3fps 1600x1200 YUY2@5fps / 1920x1080 YUY2@3fps 1280x960 YUY2@5fps / 1280x720 YUY2@5fps 1024x768 YUY2@5fps / 800x600 YUY2@20fps 640x480 YUY2@30fps / 320x240 YUY2@30fps
Max S/N Ratio	30dB
Sensitivity	0.65V/lux-sec@550nm
Mini illumination	0.2 lux
Shutter Type	Electronic rolling shutter / Frame exposure
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: FL1.8/FL2.2/FL2.5/FL3.0/FL3.6/FL3.9/FL4.5/FL6.2/ FL7.2/FL8.0/FL10.0 Autofocus: AF FOV(H)30° / FOV(H)45° / FOV(H)60°
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	210mA
Operating Temperature	0°C ~ 60°C



Storage Temperature	-20°C ~ 70°C
PCBA Dimensions	38x38mm (Compatible 32x32mm)
Weight	~30g
Cable Length	Standard 1m, Optional 2m, 3m, 5m
Operating System Request	WinXP/Vista/Win7/Win8/Win10/Win11 Linux with UVC (above 2.6.26) MAC-OS X 10.4.8 or later Android 4.0 or above with UVC

Specifications are subject to change without notice.

