8M Camera Module USB2.0 IMX179

Key Properties

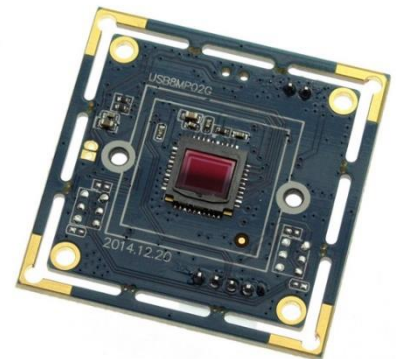IMX179 Image Sensor

USB2.0 MJPEG/YUV2 Format

Frame Rate: 15fps for 8M(3264(H)x2448(V))

Max Frame Rate: 30fps for 1024(H)x768(V)

S-mount M12 Lens Holder

Lenses Type -Standard: FL3.6mm Fixed Focus

　　　　　　-Optional: FL1.8/FL2.1/FL2.5/FL4.5/FL6.0/FL8.0/FL10

Application

Industrial Camera / Industrial AOI / High Resolution Photography

Digital Still Cameras / Biomedical Photography / Microscope Photo

Feature

- ◆ 8M(3264x2448) SOC image sensor IMX179
  - The IMX179 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 1/3.2" 8M image optional
  - Standard: FL3.6mm(HxV: 65° x 50°)
  - Optional: FL2.1(95° x 78°)/FL6.0(40° x 32°)/FL8.0(32°x24°)
- ◆ MJPEG compressed format output support
- ◆ UVC support, plug and play for Windows and Linux

Introduction

CM8M30M12Q is a 8MP(3264x2448) USB camera board using 1/3.2" IMX179 high resolution image sensor good for the industrial high resolution application and biomedical microscope photo applications. As the high resolution 8M and full function support, the CM8M30M12Q is an idea cost effective solution of high performance industrial camera and high resolution digital 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	CM8M30M12Q
Sensor	IMX179
Image Size	1/3.2 inch
Pixel Size	1.4 µm
Image Area	6.18 mm x 5.85 mm
Image Pixels & Resolution	8M / 3264(H) x 2448(V)
Image Formats	MJPEG / YUV2 (YUYV)
Image Transfer Rate	800x600 MJPEG@30fps / 640x480 MJPEG@30fps 1280x960 MJPEG@20fps / 1024x768 MJPEG@30fps 2048x1536 MJPEG@20fps / 1600x1200 MJPEG@20fps 3264x2448 MJPEG@15fps / 2592x1944 MJPEG@20fps
Max S/N Ratio	34dB
Dynamic Range	72.5dB
Sensitivity	650mV/lux-sec@550nm
Mini illumination	0.5 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 White Balance (AWB)	Support
Adjustable Parameters	Brightness, Contrast, Saturation, Hue, Sharpness, Gamma, Gain, White Balance, Backlight Contrast, Exposure
Lens Parameters	Standard: FL3.6mm Optional: FL1.8/FL2.1/FL2.5/FL4.5/FL6.0/FL8.0/FL10
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	150mA ~ 240mA
Operating Temperature	-20 ~ 70°C
Storage Temperature	-20 ~ 85°C
PCBA Dimensions	38x38mm (Compatible 32x32mm）
Weight	~30g
Cable Length	Standard 1m, Optional 2m, 3m, 5m

Specifications are subject to change without notice.

Operating System Request	WinXP/Vista/Win7/Win8
	Linux with UVC (above linux-2.6.26）
	MAC-OS X 10.4.8 or later
	Android 4.0 or above with UVC

Sensor Board Drawings