



LEOPARD IMAGING INC

LI-OV5640-USB-AF

Data Sheet

Key Features

- Support 5M video streaming
- MJPEG compression
- USB 2.0 compliance
- Size: 40mmx30mm
- Low cost with high quality
- Customized based on customer's specs

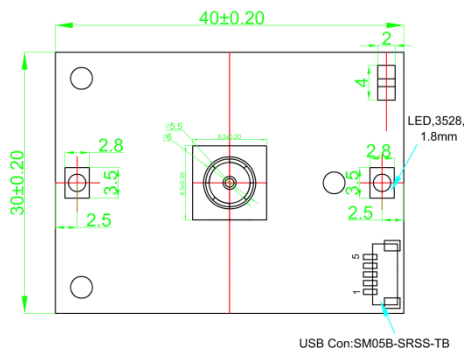
Interface (SM05B-SRSS-TB)

5 Pin USB Connector (SM05B-SRSS-TB)	
Pin No.	Name
1	USB 5V
2	USB_DM
3	USB_DP
4	NC
5	Shield Ground

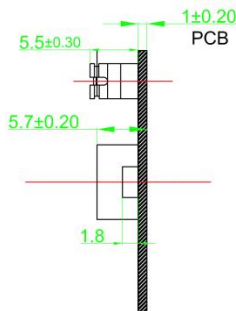
Lens Specification

- Focusing Range Capability: 10cm to infinity
- Focal Length: 3.37 mm
- F Number: 2.8
- Fov (H): 65°
- TV Distortion: < 1%
- Support Auto Focus
- Sensor: OV5640

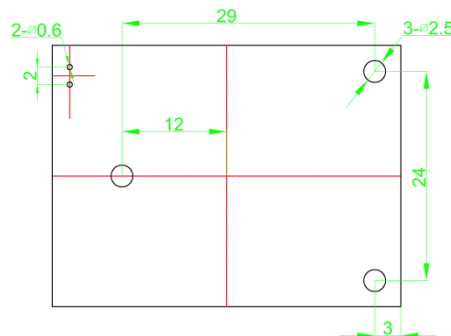
Dimensions



Top View



Side View



Bottom View



Leopard Imaging Inc.

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Specification

General Behavior		
Video Resolution @ Frame rate	2592 x 1944	YUV @ 2 fps
	2048 x 1536	YUV @ 2 fps
	1920 x 960	YUV @ 7.5 fps
	1024 x 768	YUV @ 12 fps
	800 x 600	YUV @ 23 fps
	640 x 480	YUV @ 30 fps
	320 x 240	YUV @ 30 fps
	160 x 120	YUV @ 30 fps
	2592 x 1944	MJPEG @ 15 fps
	2048 x 1536	MJPEG @ 15 fps
	1920 x 1080	MJPEG @ 10 fps
	1600 x 1200	MJPEG @ 10 fps
	1280 x 960	MJPEG @ 30 fps
	1280 x 720	MJPEG @ 30 fps
	1024 x 768	MJPEG @ 30 fps
	800 x 600	MJPEG @ 30 fps
	640 x 480	MJPEG @ 30 fps
	320 x 240	MJPEG @ 30 fps
Adjustment	The following can be adjusted manually: Brightness, Contrast, Hue, Saturation, Sharpness, Gamma, White Balance (default: Auto), Backlight Comp, Gain, Focus (default: Auto) Exposure (default: Auto). Manual focus on Linux OS not supported.	
Interface (Optical)		
Sensor specification	OmniVision OV5640 5M sensor	
Shutter	Rolling	
Format	1/4”	
Resolution	H:2592, V:1944	
Pixel size	H:1.4 um, V: 1.4 um	
Interface (Electrical)		
Interface	USB 2.0	
Current consumption	Approx. 190 mA at 5 VDC	
Interface (Mechanical)		
Dimensions	L: 40 mm, W: 30 mm, H: 5.7 mm	
Mass	2 g	
Environmental		
Max. temperature (operation)	0 °C ~ 50 °C (32 °F~ 122 °F)	
Max. temperature (storage)	-20 °C ~ 80 °C (-4 °F~176 °F)	
Max. humidity (operation)	20 % ~ 80 %, relative, non-condensing	
Max. humidity (storage)	20 % ~ 80 %, relative, non-condensing	



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