



LEOPARD IMAGING INC

LI-OV5648-USB-AF Data Sheet

Key Features

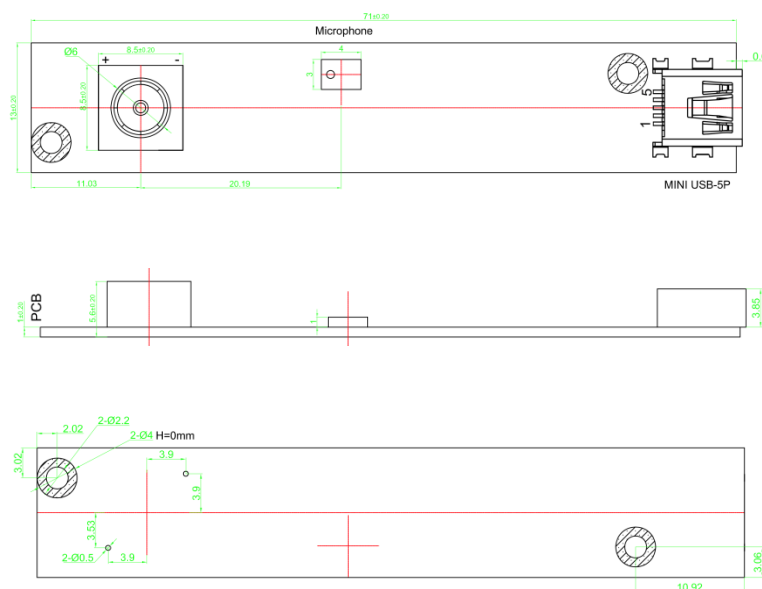
- Support 5M video streaming
- YUV and MJPEG video output
- OmniVision OV5648 sensor
- Optical size: 1/4"
- Pixel size: 1.4um (H) x 1.4um(V)
- DSP: SN9C5259
- Support audio
- Microphone:F2-(A)HCDMO-D100T26-5P
- Support auto and manual focus
- USB 2.0 compliance
- Weight: 2g
- Size: 71mm x 13mm x 5.6mm
- Low cost with high quality
- Customized based on customer's specs



Lens Specification

- Focusing Range: 40mm ~ 100mm
or 55mm ~ 900mm
- Focal Length: 3.37 mm
- F Number: 2.8
- Fov (H): 67°
- TV Distortion: < 1%
- Support Auto Focus

Dimensions



Interface

5 Pin USB Connector (Mini USB 2.0)	
Pin No.	Name
1	USB_5V
2	USB_DM
3	USB_DP
4	NC
5	Shield Ground



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Specification

General Behavior	
Video Resolution @ Frame rate	2592 x 1944 YUV @ 2 fps 2048 x 1536 YUV @ 3 fps 1920 x 1080 YUV @ 5 fps 1600 x 1200 YUV @ 5 fps 1280 x 960 YUV @ 5 fps 1280 x 720 YUV @ 10 fps 800 x 600 YUV @ 20 fps 640 x 480 YUV @ 30 fps 320 x 240 YUV @ 30 fps 2592 x 1944 MJPEG @ 10 fps 2048 x 1536 MJPEG @ 10 fps 1920 x 1080 MJPEG @ 20 fps 1600 x 1200 MJPEG @ 15 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).
Audio	Support
Interface (Optical)	
Sensor specification	OmniVision OV5648 5M 1/4" sensor
Shutter	Rolling
Resolution	H:2592, V:1944
Pixel size	H:1.4 um, V: 1.4 um
Interface (Electrical)	
Interface	USB 2.0
Current consumption	125mA ~ 200 mA at 5 V DC depends on resolutions
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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