



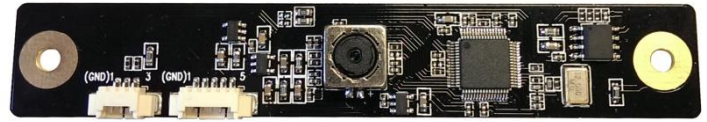
LEOPARD IMAGING INC

LI-NT99141-USB-AF

Data Sheet

Key Features

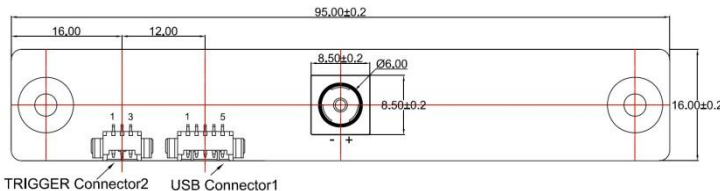
- Support 720P@30fps HD video streaming
- Super Low Light Sensitivity
- YUV streaming
- MJPEG compression
- Auto Focusing lens
- USB 2.0 compliance
- Size: 95mm x 16mm
- Low cost with high quality
- Customized based on customer's specs



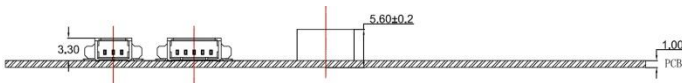
Lens Specification

- Focusing Range: 30cm to infinity
- Focal Length: 3.0 mm
- F Number: 2.0 +/- 5%
- Fov (D): 70 +/- 3°
- TV Distortion: <1.5%
- Sensor: NT99141

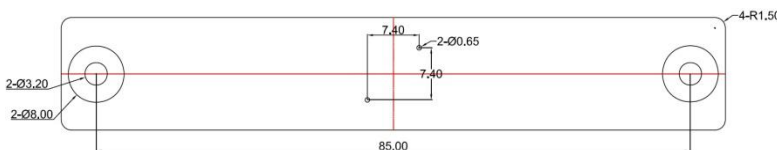
Dimensions



Top View



Side View



Bottom View

Interface

5 Pin USB Connector (Molex: 53398-0571)

Pin No.	Name
5	USB_5V
4	USB_D-
3	USB_D+
2	NC
1	Shield_Ground

3 Pin TRIGGER Connector

Pin No.	Name
3	TRIGGER1
2	TRIGGER2
1	GND



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Specification

General Behavior	
Video Resolution @ Frame rate	1280 x 720 YUV @ 10 fps 960 x 554 YUV @ 15 fps 800 x 600 YUV @ 20 fps 800 x 448 YUV @ 20 fps 640 x 480 YUV @ 30 fps 640 x 360 YUV @ 30 fps 424 x 240 YUV @ 30 fps 352 x 288 YUV @ 30 fps 320 x 240 YUV @ 30 fps 176 x 144 YUV @ 30 fps 160 x 120 YUV @ 30 fps 1280 x 720 MJPEG @ 30 fps 960 x 554 MJPEG @ 30 fps 800 x 600 MJPEG @ 30 fps 800 x 448 MJPEG @ 30 fps 640 x 480 MJPEG @ 30 fps 640 x 360 MJPEG @ 30 fps 416 x 240 MJPEG @ 30 fps 352 x 288 MJPEG @ 30 fps 320 x 240 MJPEG @ 30 fps 176 x 144 MJPEG @ 30 fps 160 x 120 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).
Interface (Optical)	
Sensor specification	NT99141 sensor
Shutter	Rolling
Format	1/4"
Resolution	H:1284, V:724
Pixel size	H: 3.0 um, V: 3.0 um
Interface (Electrical)	
Interface	USB 2.0
Supply voltage	USB 2.0 +5 VDC power source
Current consumption	Approx. 180 mA at 5 VDC
Interface (Mechanical)	
Dimensions	L: 95 mm, W: 16 mm, H: 6 mm
Mass	4 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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