



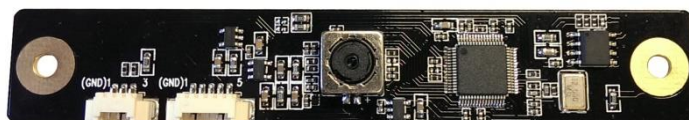
LEOPARD IMAGING INC

LI-NT99141-USB-AF

Data Sheet

Key Features

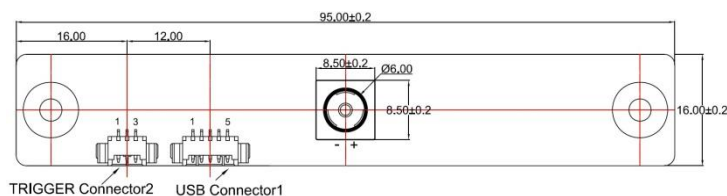
- Support 720P@30fps HD video streaming
- Super Low Light Sensitivity
- YUV streaming
- MJPEG compression
- Auto Focusing lens
- USB 2.0 compliance
- Size: 95mm x 16mm
- Low cost with high quality
- Customized based on customer's specs



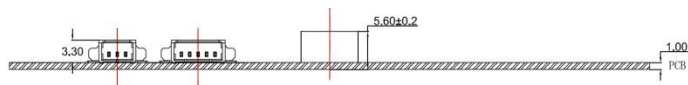
Lens Specification

- 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

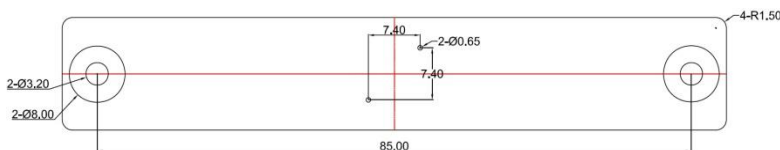
Dimensions



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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