

Lu270

2.0 Megapixel USB 2.0 Camera



Outline

Lumenera's Lu270 series of megapixel cameras are designed to be used in a wide variety of applications where high-fidelity color and high resolution are required.

With 1600x1200 resolution and on-board processing these cameras deliver outstanding image quality and value for industrial and scientific imaging applications.

Uncompressed images in live streaming video and still image capture are provided across a USB 2.0 digital interface. No framegrabber is required. Advanced camera control is available through a complete Software Developer's Kit (SDK), with sample code available to quickly integrate camera functions into OEM applications.

Hardware and software based synchronization trigger is provided standard. Lu270 model cameras are offered in both enclosed and board-level form. Custom form factor (sizes) can be provided.

All Lumenera products are supported by an experienced team of software developers and application engineers. We understand your imaging needs and are here to help you with your integration and development. Products come with a full one (1) year warranty.

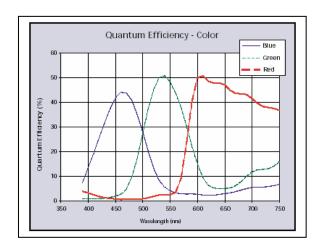
Performance Features

- Lower Fixed Pattern Noise
- Color, progressive scan, 2.0 Megapixel Image Sensor
- □ High-speed USB 2.0 (480Mbits/sec)
- 10 fps at full 1600x1200 resolution 40 fps at 800x600
- Faster frame rates with reduced region of interest
- Auto White Balance
- **Gamma** Snapshot mode for use with strobe
- □ GPI/Os for control of peripherals and synchronization of lighting (4in/4out)
- **GINERATING FOR CE Ready**
- □ RGB Bayer video output
- Select 8 or 10-bit pixel data
- Simplified cabling video, power and full camera control over a single USB cable
- **C-Mount provided**
- DirectShow compatible
- USB cameras are software compatible with Windows™ 98 SE, Windows ME, Windows 2K and Windows XP operating systems
- □ Complete SDK available

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Specifications

Image Sensor	1/2" format, color, 6.7mm x 5.0mm array
Effective Pixels	1600x1200, 4.2µm square pixels
Frame Rate	10 fps at 1600x1200, 50fps at 640x480
Sensitivity	High
Dynamic Range	60dB
Auto Exposure	Automatic / Manual
White Balance	Automatic / Manual
Dimensions (W x H x D)	2.00 x 2.50 x 1.63 inches (board level)
	2.25 x 3.85 x 1.56 inches (enclosed)
Mass	~150g / 300g with enclosure
Power Requirement	USB bus power, or external 6VDC, 500mA
Power Consumption	~2.5 Watts
Operating Temperature	0°C to +50°C
Operating Humidity	0% - 95%, Non-condensing
Interface Connector	Standard USB
Lens Mount (Lens not included)	C-Mount (CS-Mount option)



Ordering Information

Lu270C	- Color Camera Module
Lu275C	- Enclosed Color Camera
LuSDK	- Software Developer's Kit

Full customization available to meet your exact needs!

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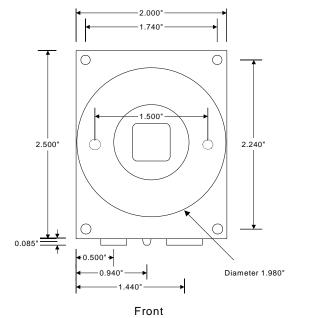
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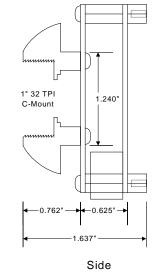
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Mechanicals

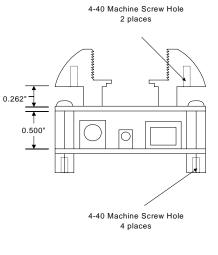
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OEM Board-Level Camera





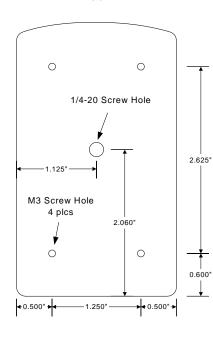
Side

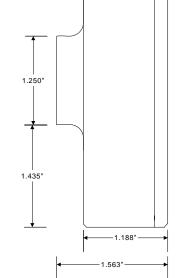


Bottom

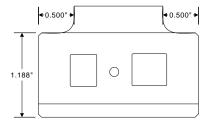


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