

# **Lu130**

### 1.4 Megapixel USB 2.0 Camera





## **Outline**

Lumenera's Lu130 series of megapixel cameras are designed to be used in a wide variety of applications, particularly in low-light conditions. Both color and monochrome product models are available.

With 1392x1040 resolution and on-board processing these cameras deliver outstanding image quality and value for industrial and scientific imaging applications.

Electronic Global Shutter provides capabilities similar to a mechanical shutter, allowing simultaneous integration of the entire pixel array. Ideal for capturing objects in highspeed motion.

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. Lu130 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**

- ☐ High quality CCD sensor
- Excellent sensitivity with high color reproductivity
- □ Color or Monochrome, Interline transfer Progressive scan, 1.4 Megapixel CCD sensor
- ☐ High-speed USB 2.0 (480Mbits/sec)
- ☐ 15 fps at full 1392x1040 resolution 30 fps 640x480
- Binning and Region of Interest (ROI) options improve sensitivity and provide higher frame rates
- Global shutter for capturing fast moving objects and strobe lighting
- ☐ GPI/Os for control of peripherals and synchronization of lighting (4in/4out)
- □ FCC Class B, CE Ready
- □ RGB Bayer video output
- □ Select 8 or 12-bit pixel data
- Simplified cabling video 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 Lu130

Image Sensor 1/2" format, color or mono, 7.6mm x 6.2mm array

Effective Pixels 1392x1040, 4.65um square pixels

Frame Rate 15 fps at 1392x1040, 30 fps with binning (2x - 4x)

Sensitivity **High** 

Dynamic Range 60dB

White balance Manual

Exposure 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

Power Requirement External 6VDC, 800mA (included)

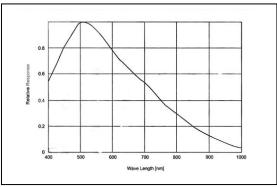
Power Consumption ~4 Watts

Operating Temperature 0°C to +50°C

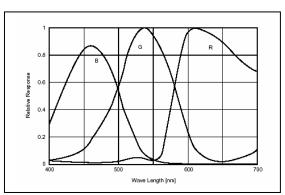
Operating Humidity 5% - 95%, Non-condensing

Interface Connector Standard USB cable

Lens Mount (Lens not included) C-Mount (CS-Mount option)



Mono Response Curve



Color Response Curve

# Full customization available to meet your exact needs!

### **Ordering Information**

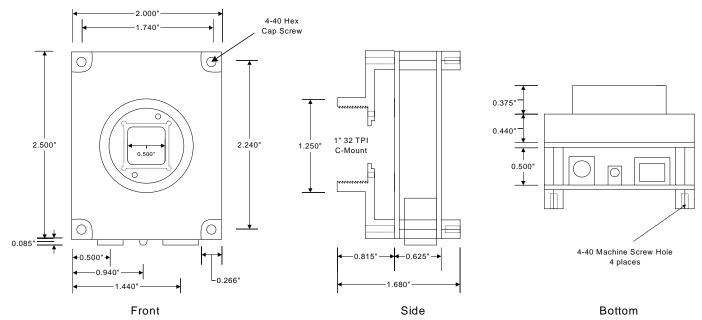
Lu130M - Monochrome Camera Module
Lu130C - Color Camera Module

Lu135M - Enclosed Monochrome Camera
Lu135C - Enclosed Color Camera

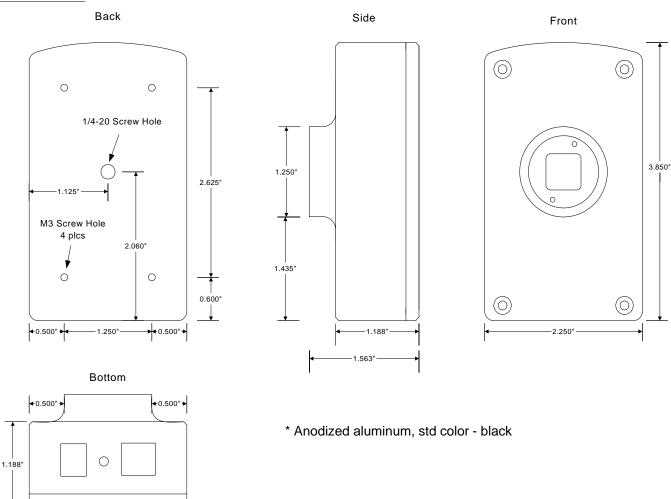
LuSDK - Developer's Kit and Accessories

Mechanicals Lu130

### **OEM Board-Level Camera**



### **Enclosed Camera\***



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