

Lm135

#### 1.4 Megapixel USB 2.0 Camera



## **Outline**

Lumenera's new Lm135 mini CCD USB 2.0 megapixel cameras are designed to be used in a wide variety of industrial and scientific applications, particularly those with low light conditions and tight space constraints.

Measuring 44x44x56mm, these compact cameras offer the same performance as our enhanced USB 2.0 camera line, delivering outstanding image quality and value. Features include new industrial locking USB and GPI/O connector, multiple mounting points, 15 fps at full 1392x1040 resolution, 30 fps 640x480, and on-board processing. Both color and monochrome product models are available.

Electronic Global Shutter provides capabilities similar to a mechanical shutter, allowing simultaneous integration of the entire pixel array - ideal for capturing objects in high-speed motion and strobe lighting.

Uncompressed images in live streaming video and still image capture are provided across a mini 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. 32MB on-board memory is available for frame buffering.

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.

### **Performance Features**

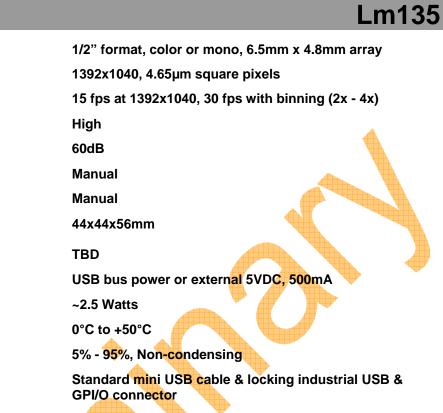
- Small form factor measuring 44x44x56mm
- High quality CCD sensor
- Locking industrial USB and GPI/O connector for control of peripherals and synchronization of lighting (1in/1out)
- **3** software configurable bidirectional I/O ports
- □ Based on Lw camera platform with 32MB RAM
- Excellent sensitivity with high color reproductivity
- □ Simplified cabling video, power and full camera control over a single mini USB cable
- □ 8 mounting points
- Color or Monochrome, Interline transfer Progressive scan, 1.4 Megapixel CCD sensor
- Binning and Region of Interest (ROI) options improve sensitivity and provide higher frame rates
- □ FCC Class B, CE Ready
- □ RGB Bayer video output
- □ Select 8 or 12-bit pixel data
- DirectShow compatible
- □ USB cameras are software compatible with Windows™ 98 SE, Windows ME, Windows 2K and Windows XP operating systems
- **Complete SDK available**
- □ Full one (1) year warranty

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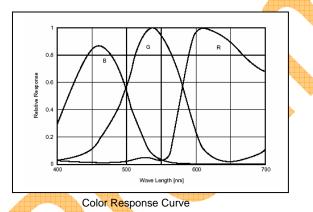
## **Specifications**

Image Sensor
Effective Pixels
Frame Rate
Sensitivity
Dynamic Range
White balance
Exposure
Dimensions (W x H x D)
Mass
Power Requirement
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Power Consumption
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Power Consumption

Lens Mount (Lens not included)



#### Adjustable C-Mount (CS-Mount option)

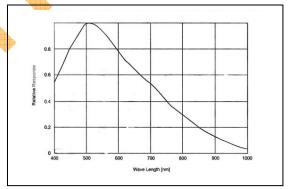


# Full customization available to meet your exact needs!

#### Available Options:

Without Standard IR-Cut Filter Without Glass Without Mount Board Level Adjustable CS-Mount

Contact us for more specific details.



Mono Response Curve

#### Ordering Information

- Lm135C Mini Enclosed Color Camera
- Lm135M Mini Enclosed Monochrome Camera
- LuSDK Developer's Kit and Accessories

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