

**Highlights:**

- 1.4 Megapixel Ethernet Camera
- Extreme Sensitivity
- High Dynamic Range
- NIR Sensitivity
- Global Electronic Shutter

## Outline

The Le165's combination of megapixel resolution, excellent sensitivity, and high dynamic range position it as an ideal solution for applications with large fields of view, poor lighting conditions, and high contrast scenes such as traffic and blob analysis.

Capturing full 1376x1032 resolution at 15 fps, these cameras deliver outstanding picture quality and performance. Configurable compression for JPEG still-images or MJPEG live capturing video is provided across a standard 10/100BaseT network interface allowing for a 300' reach.

Lumenera has simplified IP camera installation with a straightforward plug-and-play process. Intuitive user interface viewed with most browsers provides standard camera control. Power over Ethernet (PoE) simplifies installation and reduces cabling and installation costs. The I/O connector provides an interface to an external alarm sensor or control of peripheral equipment such as; IR lighting, DC iris and PTZ. Alarm notification provides the date, time and camera IP address.

Programmable day/night settings automatically switch to enhanced low-light mode. Optional – True day/night module provides automatic sliding IR cut filter. When integrated with NIR illuminators, this camera provides outstanding nighttime performance.

The user defined motion detection parameters across multiple zones provide more accurate triggering of alarms, while programmable privacy zones ensure compatibility with all regulations.

On-board memory buffers supply still images that precede and follow alarm events. Transfer of images via email, FTP, RTP or HTTP.

Contact Lumenera for more details, or visit [www.lumenera.com](http://www.lumenera.com).

## Product Features

- Ultimate** in low light sensitivity
- Power over Ethernet (PoE)**
- 15 fps at full 1376x1032 resolution**  
**27 fps at 640x480 (binned) resolution**
- Progressive scan**
- Global electronic shutter**
- 72dB dynamic range**
- Easy installation and set-up**
- >1000 lines of resolution, color or monochrome, progressive scan, 1.4 megapixel, ExView HAD CCD sensor**
- Feature rich camera functions:**
  - **Auto white balance & auto exposure**
  - **Day/Night mode available**
  - **Configurable compression ratio**
  - **Multiple motion detection zones**
- I/O control of alarms, DC iris, PTZ, lighting or other peripherals**
- Optional true day/night functionality**
- Image transfer via HTTP, FTP, RTP, or Email**
- Camera control via HTTP, XML-RPC, Telnet or Microsoft COM**
- Security / password protection**
- FCC Class B, CE Certified**
- CS lens mount provided standard, C-mount adapter available**
- Compatible with most Operating Systems (Windows 2K, Windows NT and Windows XP, as well as Linux and Mac)**
- Full one (1) year warranty**

# Specifications

# Le165

Image Sensor	<b>2/3" format, color or mono, 10.2mm x 8.3mm array</b>
Effective Pixels	<b>1376 x 1032, 6.45µm square pixels</b>
Frame Rate	<b>15 fps at 1376 x 1032, 27 fps at 640x480 (binned or ROI)</b>
Dynamic Range	<b>72dB</b>
Sensitivity	<b>&lt;0.01 lux at F 1.0</b>
Auto Exposure	<b>Automatic / Manual</b>
White Balance	<b>Automatic / Manual</b>
Dimensions (W x H x D)	<b>1.9" x 2.25" x 5.5" (not including lens)</b>
Mass	<b>~300g</b>
Power Requirement	<b>IEEE 802.3af Power over Ethernet or external 12VDC – 48VDC</b>
Power Consumption	<b>~5 Watts</b>
Operating Temperature	<b>-10° C to +50° C (environmental enclosure will provided extended temperatures with fan / heater)</b>
Operating Humidity	<b>5%-95%, Non-condensing</b>
Interface Connector	<b>RJ45 twisted pair cable, 10/100baseT Ethernet</b>
Lens Mount	<b>Adjustable CS-Mount (lens not included)</b>
Image Buffer	<b>48 MB (up to 480 full res images)</b>

## Recommended PC Specifications

O/S: Windows 2000 (SP 3), or XP (SP 2)  
CPU: 2.8GHz or above Pentium computer  
(required for full frame rate preview)

600Mhz or above Pentium  
compatible computer (for basic  
functionality)

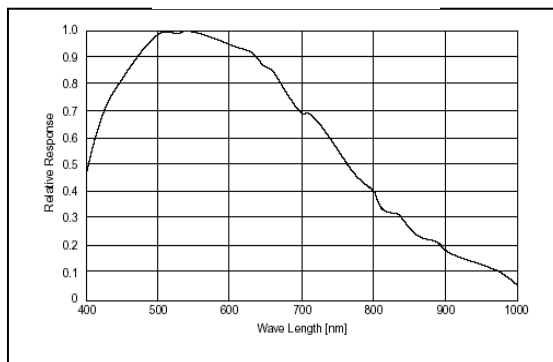
Network: 100 Mbps Ethernet LAN, PoE  
Browser: Internet Explorer v6.0

## Recommended Applications

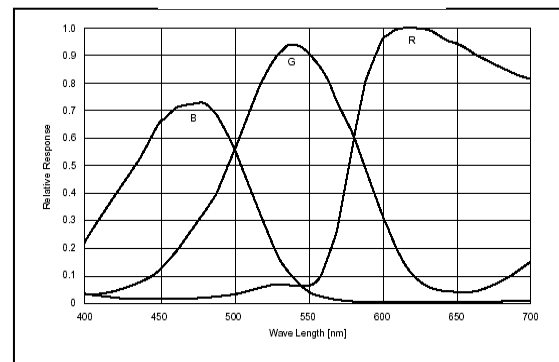
The Le165 is ideal for, but not limited to the  
following applications:

- Industrial process monitoring and malfunction detection
- Blob analysis
- Traffic applications including:
  - Red light enforcement
  - License plate reading (ALPR)
  - Driver and automobile recognition
  - Speed enforcement
  - Bridge and tunnel surveillance

Mono Response Curve



Color Response Curve



## Ordering Information

Le165CP	– 1.4 Megapixel Color Camera
Le165MP	– 1.4 Megapixel Monochrome Camera
Lu8501	– Power Supply with International Plugs, 12VDC/2A output
Le165CP-DN	– 1.4 Megapixel Color Camera with optional Day/Night module

## Le165 Camera:

