

## 1.4 Megapixel Network Camera Outstanding Light Sensitivity



## Outline

### ***See the difference megapixel resolution makes!***

Lumenera's Le165 series of megapixel cameras are designed for general and high-end security applications, particularly in low-light conditions and where high dynamic range is required.

Lumenera has simplified IP camera installation with a straightforward plug-and-play process. Intuitive user interface viewed with most web browsers provides standard camera control. Power over Ethernet (PoE) simplifies installation and reduces cabling and installation costs.

Capturing full 1376x1032 resolution at 15 fps, these cameras deliver outstanding picture quality and performance. Adjustable JPEG compressed still-images or live MJPEG streaming video are provided across a standard 10/100BaseT network interface. Transfer of images via FTP, RTP or HTTP.

The I/O connector provides an interface to an external alarm sensor or control of peripheral equipment such as IR lighting and PTZ. E-mail or UDP alarm notification provides the date, time, and camera IP address. On-board memory buffers supply still images via FTP that precede and follow alarm events.

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, 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.

The Le165's compact, all-metal body can be mounted stand-alone or by means of standard environmental enclosures. Call with your enclosure requirements today.

## Product Features

- Ultimate** in low light sensitivity and image quality
- Easy installation and set-up
- Power over Ethernet (PoE)
- >1000 lines of resolution, color or monochrome, progressive scan, 1.4 megapixel, ExView HAD CCD sensor
- 15 fps at full 1376x1032 resolution  
27 fps at 640x480 (binned) resolution
- Feature rich camera functions:
  - o Auto white balance
  - o Auto exposure
  - o Configurable compression ratio
  - o Multiple motion detection zones
- I/O control of alarms, PTZ, lighting or other peripherals
- Optional true day/night functionality
- Image transfer via HTTP, FTP or RTP
- 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 Vista and XP, Linux and Mac)
- Full one (1) year warranty

# Specifications

# Le165

Image Sensor	<b>2/3" format, CCD, color or mono, 10.2mm x 8.3mm array</b>
Effective Pixels	<b>1376 x 1032, 6.45µm square pixels</b>
Frame Rate	<b>Captures 15 fps at 1376 x 1032, 27 fps at 640x480 (binned or ROI)</b>
Dynamic Range	<b>66dB</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>External 12 – 48 VDC or IEEE 802.3af Power over Ethernet (power mode A or B)</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 Cat 5e twisted pair cable, 10/100baseT Ethernet, PoE</b>
Lens Mount	<b>Adjustable CS-Mount (lens not included)</b>
Image Buffer	<b>64 MB (~350 full resolution JPEG images) upgradeable to 128 MB</b>

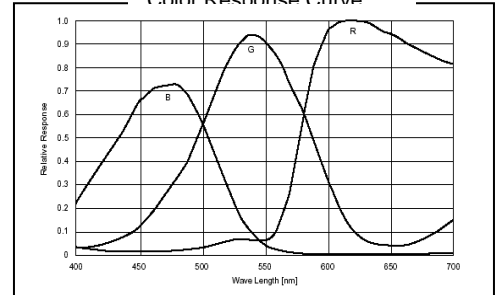
## Recommended PC Specifications

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

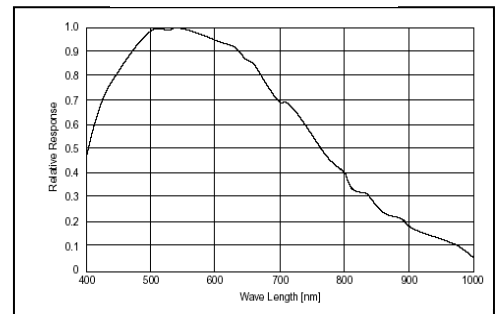
600Mhz or above Pentium  
compatible computer (for basic  
functionality)

Network: 100 Mbps Ethernet LAN, PoE  
Browser: Internet Explorer v8.0

Color Response Curve



Mono Response Curve



## Ordering Information

Le165CP	– 1.4 Megapixel PoE Color Camera
Le165MP	– 1.4 Megapixel PoE Monochrome Camera
Le165CP-DN	– 1.4 Megapixel PoE Color Camera with Day/Night Module
Le165MP-DN	– 1.4 Megapixel PoE Monochrome Camera with Day/Night Module
Le165CP-MM	– 1.4 Megapixel PoE Color Camera , 128 MB Extended Memory
Le165MP-MM	– 1.4 Megapixel PoE Monochrome Camera, 128 MB Memory
Le165CP-DN-MM	– 1.4 Megapixel PoE Color Camera, Day/Night, 128 MB Memory
Lu8501	– Power Supply w International Plugs, 12 VDC/2A Output

