

## Intelligent Network Camera Outstanding Light Sensitivity



## Outline

### *Improve the effectiveness of your surveillance!*

Lumenera's Li165 series of intelligent network cameras are designed for general security applications requiring superior image quality in extremely low lighting conditions.

Enabled with ObjectVideo OnBoard - Lumenera's intelligent camera series are providing real-time video analytics at the camera head. Provides detailed monitoring of the scene – alerting when suspicious activity is occurring – allowing the surveillance operator to make more proactive decisions.

Capturing full 1376 x 1032 resolution at 15 frames/sec, these cameras deliver outstanding picture quality and performance. Adjustable MJPEG and H.264 compression are provided across a standard 10/100BaseT network interface. Transfer of images via FTP, RTP or HTTP. Transfer of images via FTP, RTP or HTTP.

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.

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 Li165's compact, all-metal body fits easily into housings and PTZ systems. Full one (1) year warranty.

## Product Features

- Intelligent camera enabled with ObjectVideo OnBoard video analytics
- Ultra-low light sensitivity <0.01 Lux
- Analog video output for easy installation
- 2-way audio
- JPEG or H.264 compression
- Easy set-up and installation
- >1000 lines of resolution, color, progressive scan, 1376x1032 pixel sensor
- Up to 15 fps at full 1376x1032 resolution
- Feature rich camera functions:
  - Auto white balance
  - Auto exposure
  - Configurable compression ratio
  - Support for multi data-stream
- 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)

# Specifications

# Li165

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 1376x1032, 27 fps at 640x480 (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 6.3" (not including lens)</b>
Mass	<b>~300g</b>
Power Requirement	<b>External 24VDC or Power over Ethernet (IEEE 802.3af)</b>
Power Consumption	<b>&lt;6 Watts</b>
Operating Temperature	<b>-10°C to +50°C (environmental enclosure will provide 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</b>
Lens Mount	<b>Adjustable CS-Mount (lens not included)</b>
Image Buffer	<b>28 MB (hundreds of full res images) , expandable to 128 MB</b>
Analog Output	<b>NTSC composite video, BNC jack, 75 ohm</b>

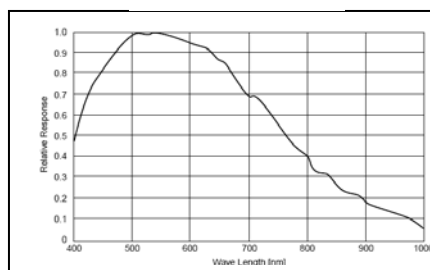
## Ordering Information

Li165C	– Network Color Camera
Li165M	– Network Monochrome Camera
Li165C-DN	– Color Day/Night Camera
-MM	–128 MB extended memory
-OV1	– OnBoard 100 Video Analytics
-OV2	– OnBoard 200 Video Analytics
-OV3	– OnBoard 1000 Video Analytics
Lu8401	– Power Supply w International Plugs, 24VDC/1A Output

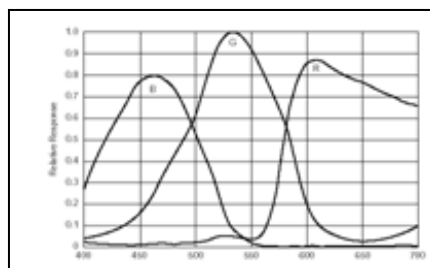
## Recommended Applications:

- Low-light imaging with ambient light or active infrared
- Mission-critical surveillance for military, homeland, perimeter, border, prison and airport security
- Monitoring of rapidly moving people, vehicles, trains, aircraft, etc.
- Automated surveillance for timely response and prevention of operator fatigue
- Protection of major public and corporate infrastructure
- Scalable to large deployments using on-camera video content analysis

Mono Response



Color Response



## 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  
 Browser: Internet Explorer v8.0

