

**Highlights:**

- Fast frame rates
- Excellent NIR sensitivity
- High dynamic range
- Global Electronic Shutter

## Outline

The Le075's combination of speed, excellent sensitivity, and high dynamic range makes it an ideal solution for applications with fast moving objects, poor lighting conditions, and high light-contrast scenes such as traffic and blob analysis.

Capturing full 640x480 resolution at up to 70 frames/sec, 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.

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

- Easy installation and set-up
- Power over Ethernet (PoE)
- 480 lines of resolution, color or monochrome, progressive scan, 640x480 pixel sensor
- Up to 70 fps at full 640x480 (VGA) resolution
- Global electronic shutter
- 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

# Le075

Image Sensor	<b>1/3" format, color or mono, 5.79mm x 4.89mm array</b>
Effective Pixels	<b>640x480, 7.4µm square pixels</b>
Frame Rate	<b>70 fps at 640x480, 100+ fps at 320x240 (binned)</b>
Dynamic Range	<b>60dB</b>
Sensitivity	<b>0.1 lux at F 1.0</b>
Auto Exposure	<b>Automatic / Manual</b>
White Balance	<b>Automatic / Manual</b>
Dimensions (WxHxD)	<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 (power mode "A") or external 12VDC – 48VDC</b>
Power Consumption	<b>&lt;4 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 twisted pair cable, 10/100baseT Ethernet, PoE</b>
Lens Mount	<b>Adjustable CS-Mount (lens not included)</b>
Image Buffer	<b>48 MB (up to 2000 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)

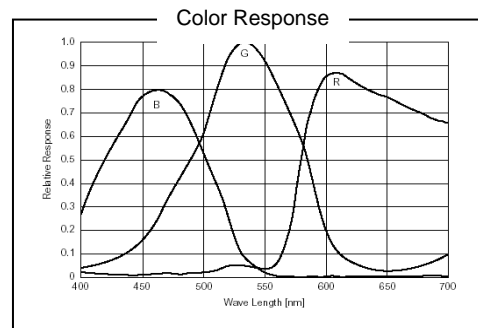
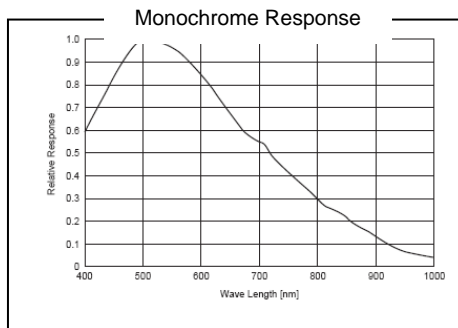
600Mhz or above Pentium compatible computer (for basic functionality)

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

## Recommended Applications

The Le075 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



## Ordering Information

Le075CP	– VGA PoE Color Camera
Le075MP	– VGA PoE Monochrome Camera
Lu8501	– Power Supply with International Plugs, 12VDC/2A Output
Le075CP-DN	– VGA PoE Color Camera with optional Day/Night
Le902	– Optional DC Iris Adapter Cable

## Le075 Camera:

