

Thank you for purchasing a Lumenera Network Camera. Follow the steps below for quick and easy installation. Please read these instructions in their entirety before proceeding.

KNOW YOUR CAMERA MODEL

Please take care to follow all instructions, since the power and lens requirements vary by camera type. The exact camera model (i.e. "LE575C" or "LI045C-DN-OV3") is indicated on the white label on your camera.

Intelligent Series (Black)



Small Format (Beige)



Large Format



REQUIRED TOOLS AND PARTS

Small screwdriver - Use a small (1.8 mm) flat head screwdriver if you are connecting an external power supply.

18 to 28 AWG wire – Required if you are using your own external power supply.

10-terminal connector (Le902 or Le903) – This locking connector for external power is included on the rear of the camera.

Power Supply- Avoid damage to your camera! Refer to the Power Supply Chart below. Lumenera's Lu8401 and Lu8501 power supplies come complete with a set of adjustable international plugs.

Power Supply Chart

Camera Model	Power Supply Required	Lumenera External Power Supply
Intelligent series: Le045, Li045, Li165	24 V DC / 1 A max. or PoE	Lu8401
Intelligent series: Li175 only	24 V AC/DC / 1 A max. or PoE	Lu8401
Small format: Le075, Le165, Le175, Le275, Le375, Le575	9 - 24 V AC/DC / 1A max.	Lu8401
Small format, PoE-ready: With 'P' suffix, for example, Le575CP	24 V DC / 1A max. or PoE	Lu8401
Large format: Le259 or Le11059 only	12 V DC / 2A max., regulated	Lu8501

Power over Ethernet - PoE (IEEE 802.3af) switch or injector for PoE-ready camera models. Replaces external power.

Network Connection - Cat5e twisted pair cable with RJ45 connectors, 10/100baseT Ethernet connection

Lens - Refer to the Lens Optical Format Chart for details of the smallest compatible lens format for your camera.

Lens Optical Format Chart

Camera Model	Minimum optical format	Camera Model	Minimum optical format
Le045 / Li045	1/3 inch	Le275	1/2 inch
Le075	1/3 inch	Le375	1/2 inch
Le165 / Li165	2/3 inch	Le575	1/2.5 inch
Le175 / Li175	1/2 inch	Le11059	35 mm
Le259	35 mm		

CAMERA POWER-UP AND INSTALLATION:

Step 1 – Mount lens. If you purchased a lens from Lumenera, it will ship in the same box as your camera.

Small-format: Use (a) CS-Mount lens or (b) C-Mount lens with a Lu901 5-mm adaptor. Remove the black plastic cap from the camera by turning anti-clockwise. Turn the lens gently in a clockwise direction to mount it on the camera.

Large format lens: Use a Canon EF-mount 35-mm lens. Twist and remove the black plastic body cap from the camera. Align the red dot camera at 12 o'clock with the red dot on the lens. Depress the metal button found at 3 o'clock. Gently turn lens clockwise until red dot on lens aligns with the white dot on the camera. Release the metal button. Gently turn the lens clockwise until you hear clicking sounds indicating that the lens is fully engaged.

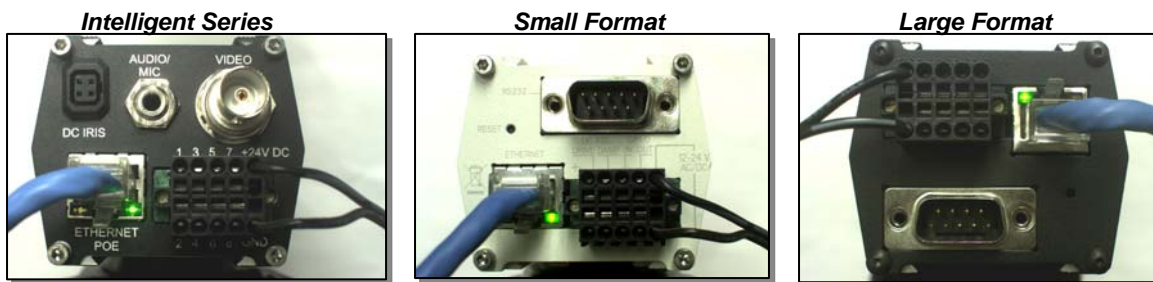
Step 2 – Ensure your external power source meets the requirements listed on the previous page.

Observe the following to prevent damage and protect your warranty:

- **IMPORTANT - The positive (+) lead of Lu8401 / Lu8501 power supplies is indicated by white dashes.**
- Where an AC power supply may be used, do not ground either terminal. The AC power supply must be floating.
- Voltage applied to the power terminals should not exceed 24 V.
- User-supplied wiring to the unit must be in compliance with site applicable electrical codes

Step 3 – Disable power, then carefully wire the supply to the camera.

For each model, connect the power wires to the 10-terminal as in the figure below. Insert a small flat-head screwdriver in the square hole adjacent to each power terminal to open its locking connector. When applying DC power, **be sure to observe the correct polarity.**



Step 4 – Connect an Ethernet cable.

Connect a Cat5e from a network switch to the camera's RJ45 "ETHERNET" port. Use a crossover cable if connecting directly to a computer. For PoE-ready models, use a PoE switch or injector to provide Data+Power.

Step 5 – Apply power.

For intelligent series cameras, the green link light on the right of the RJ45 "ETHERNET" jack will be active during start-up. For other camera types, the orange light on the left of the RJ45 socket will be active during start-up. After start-up is complete, a valid network connection is indicated by activity on the green link light.

Step 6 – Locate the camera on the network.

The camera is set at the factory to obtain a dynamic IP address using DHCP. If the network does not have a DHCP server, the camera defaults to a fallback IP address of 192.168.1.222. Run the **LeCam Client** Windows application on the CD-ROM to find and set up cameras on your local network.

Step 7 – OPTIONAL - Connect to the camera using a web browser.

You can download the Bonjour plug-in for Internet Explorer from www.apple.com/bonjour and use this to locate cameras. You may also manually enter the camera's IP address if known (e.g. <http://169.254.93.123>). The camera's internal web server will allow you to view images and change camera settings. Refer to the User's Manual on the CD-ROM that came with your camera for details.

Step 8 – OPTIONAL – Connect analog video/audio or dc-iris.

Intelligent series cameras provide integrated connectors for NTSC analog video output (enabled by default at the factory), audio input/output, and a 4-conductor DC iris lens. Refer to the User's Manual on the CD-ROM that came with your camera for details.

Information on License Agreement, Warranty, and Limited Liability

Warranty and Liability information can be found in the Ethernet User's Manual and on Lumenera's website www.lumenera.com. For Technical Assistance and general support, please contact us at support@lumenera.com.