QUICK START GUIDE

Network Camera

Thank you for purchasing a Lumenera network camera. Follow this guide for quick and easy installation. Please read the instructions in their entirety before proceeding.

PART I: CAMERA MODEL

The exact power and lens requirements vary by camera type. The camera model (e.g. “LE165CE-DN”) can be located on the camera’s white barcode label.

Standard Format (White)

Le045 & Intelligent Series (Black)

PART II: CAMERA REQUIREMENTS

1. TOOLS AND PARTS

Tools required when installing with an external power supply:

- Small screwdriver (1.8 mm) flat head
- 18 to 28 AWG wire
- Black 10-terminal locking connector (included) (Replacement part no. Le903)

2. LENS

CS or C-mount Lens Optical Format Chart	
Camera Model	**Optical Format**
Le045 / Li045	1/3”
Le075	1/3”
Le165 / Li165	2/3”
Le175CA / Li175CB	1/3”
Le175MP / Li175MB	1/2”
Le275	1/2”
Le375	1/2”
Le575	1/2.5”

3. POWER

Refer to the power supply chart below to avoid camera damage. Lumenera includes a set of international wall plugs with all power supplies.

Camera Model	Power Supply Specifications	Recommended Lumenera Power Supply for Non-PoE Applications
Standard Format: e.g. Le075CP, Le165CE, Le165CP, Le175CA, Le275CP, Le375CP, Le575CP	PoE or 12 to 48 V DC / 2 A / 24 W max.	La21224N (formerly Lu8501)
Le045 & Intelligent Series: e.g. Le045CB, Li045CB, Li165CB	PoE or 24 to 48 V DC / 1 A / 24 W max.	La22424N (formerly Lu8401)
Li175CB Intelligent Camera: Li175CB (only)	PoE or 24 V AC / DC / 1 A / 24 W max.	La22424N (formerly Lu8401)

Power over Ethernet
PoE (IEEE 802.3af) switch or mid-span injector replace external power.

Network Connection
Cat5e twisted pair cable with RJ45 connectors, 100BASE-TX Ethernet connection.

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PART III: CAMERA POWER-UP AND INSTALLATION

STEP 1

Attach the Lens
The camera is designed to accept a CS-mount. A C-mount lens can be used with a 5 mm spacer (optional accessory available from Lumenera). To install the lens remove the black plastic cap from the camera by turning anti-clockwise. To mount the lens, gently turn the lens in a clockwise direction until it stops against the camera body, being careful not to overtighten. For a DC iris lens, connect the control cable to the 4-pin connector socket at the rear of the camera.

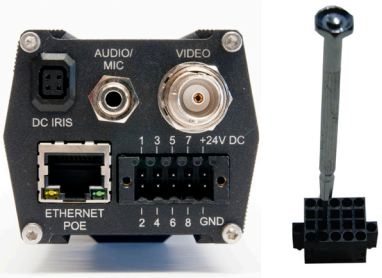
STEP 2

Verify External Power Supply Specifications
Prior to installing the power supply you must ensure the external power source meets the requirements listed on the previous page (Part II, no 3). Observe the following to prevent damage and protect the camera warranty:

- Ensure to connect the correct polarity (the positive (+) lead of the power supply is indicated by white dashes on black insulation)
- Voltage applied to the power terminals should not exceed the maximum rating
- User-supplied wiring to the unit must be in compliance with applicable codes for electrical equipment
- Where an AC power supply is used, do not ground either terminal or camera chassis
- Avoid hot-plugging power connectors into the rear of the camera

STEP 3

Attach Power Supply to Camera *(If using PoE skip to Step 4)*
Disable the power at the source then carefully attach the power supply to the camera by connecting the power wires to the black 10-terminal connector. To do so, unlock the round opening of the power terminal by inserting a small flat-head screwdriver into the square hole next to the terminal. Place the wires in the terminal then release the screwdriver to lock them into place.



Distinct back plate configurations are used on each of the Intelligent Series and Standard Format camera models. Each back plate is clearly etched with the pin-outs and appropriate labels.

STEP 4

Connect Ethernet Cable to Camera
Using a standard Cat5e cable, connect your network to the camera's RJ45 "ETHERNET" port. If connecting the camera directly to a PC, use a crossover cable. For PoE-compatible camera models, a PoE switch or mid-span power injector can be used to provide power to the camera.

STEP 5

Apply Power
Plug the power supply into a power source. If using PoE, turn on the PoE switch or mid-span power injector. For most camera models, the orange light on the left of the RJ45 socket will be active during start-up. A valid network connection is indicated by activity on the green link light.

STEP 6

OPTIONAL - Connect to Camera Using a Web Browser
Type the link-local IP address, located on the camera's white barcode label (e.g. 169.254.93.123), into the address bar of a web browser. This will connect you to the in-camera web server and allow you to view images and change camera settings. For complete details contact Technical Assistance at support@lumenera.com to obtain a copy of the User's Manual.

STEP 7

OPTIONAL - Connect Analog Video/Audio Cables
Some cameras provide BNC connectors for NTSC analog video output or audio input/output. For complete details contact Technical Assistance at support@lumenera.com to obtain a copy of the User's Manual.

PART IV: Additional Resources

Warranty and Liability: www.lumenera.com/support/warranty-policy.php

Technical Assistance and General Support: support@lumenera.com

Network Camera Application Notes: www.lumenera.com/support/guides-appnotes/surveillance-appnotes.php

IP Discovery and Connectivity Application Note: www.lumenera.com/support/pdf/LA-2113-IPDiscoveryAndConnectivity.pdf

Apple's Bonjour Print Services for Windows: www.apple.com/bonjour/

Lumenera corporation

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