

PTZOptics Power Link

Product Manual

Power Link



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Getting Started



The Power Link is a wireless network bridge that provides network connectivity and PoE Plus power to IP cameras and other production equipment. It eliminates the need for long Ethernet cable runs and supports V-mount batteries for mobile productions, sports, and locations where traditional cabling is impractical.

Hardware Setup

STEP 1

Attach the four antennas to the connectors. Keep the antennas parallel and orient their sides toward the wireless access point for optimal performance.

STEP 2

- Power the **Power Link** using the included 24V DC supply or a compatible V-mount battery.
- Connect an Ethernet cable from the **Power Link** PoE Plus port to your network switch or computer, then turn on the unit.

Web UI Configuration

> **POWER LINK NETWORK SETUP**
>
> Because the **Power Link** uses a static IP address `192.168.100.90` and does not support DHCP, manually configure your computer's network settings to the same subnet before accessing the web UI.
>
> Configure your computer with the following network settings:
>
> **IP Address:** Any unused address from `192.168.100.2` through `192.168.100.254`, except `192.168.100.90`, which is reserved for the Power Link.
>
> **Subnet Mask:** `255.255.255.0`
>
> For example, you can set your computer's IP address to `192.168.100.100`.

The subnet mask tells your computer which IP addresses are part of the same local network. Using `255.255.255.0` means devices with addresses beginning with `192.168.100` (The first three octets match) are treated as being on the same subnet, allowing your computer to communicate directly with the Power Link.

STEP 3

Enter `192.168.100.90` in a web browser and log in with your administrator credentials.

> **FIRST TIME LOGGING IN?**
>
> You will be prompted to set up a password on your first login.
>
> - Default Username: **admin**
> - Create a strong password.

> **NOTE**
>
> You can use the **System** section to upgrade firmware, reboot the unit, perform a factory reset, or manage access credentials.

STEP 4

> **IMPORTANT**
>
> In the top left-hand corner of the **Power Link** web UI, the **Status** indicator will display **No Connection** at this stage, showing a red icon. This is normal and will change to **Connected** with a green icon once the link is established.

- Select **Connect to Router** to scan for available Wi-Fi networks. This will take about 30 seconds. Select your network and enter the password to connect.
- The **Power Link** will reboot and attempt to establish a connection with the router. This may take up to 60 seconds.
- After the device reboots and reconnects, log in to the web UI again. The upper left-hand status indicator will display **Connected** with a green icon.
- Select **Enable Link** to establish the network connection.

STEP 5

- A confirmation message will appear. Select **YES** to proceed. The **Power Link** will reboot and attempt to establish a connection with the router. This may take up to 30 seconds.
- Wait for the link to establish and the unit to reboot.
- You can now safely revert your computer's IP settings to DHCP.

Device Deployment

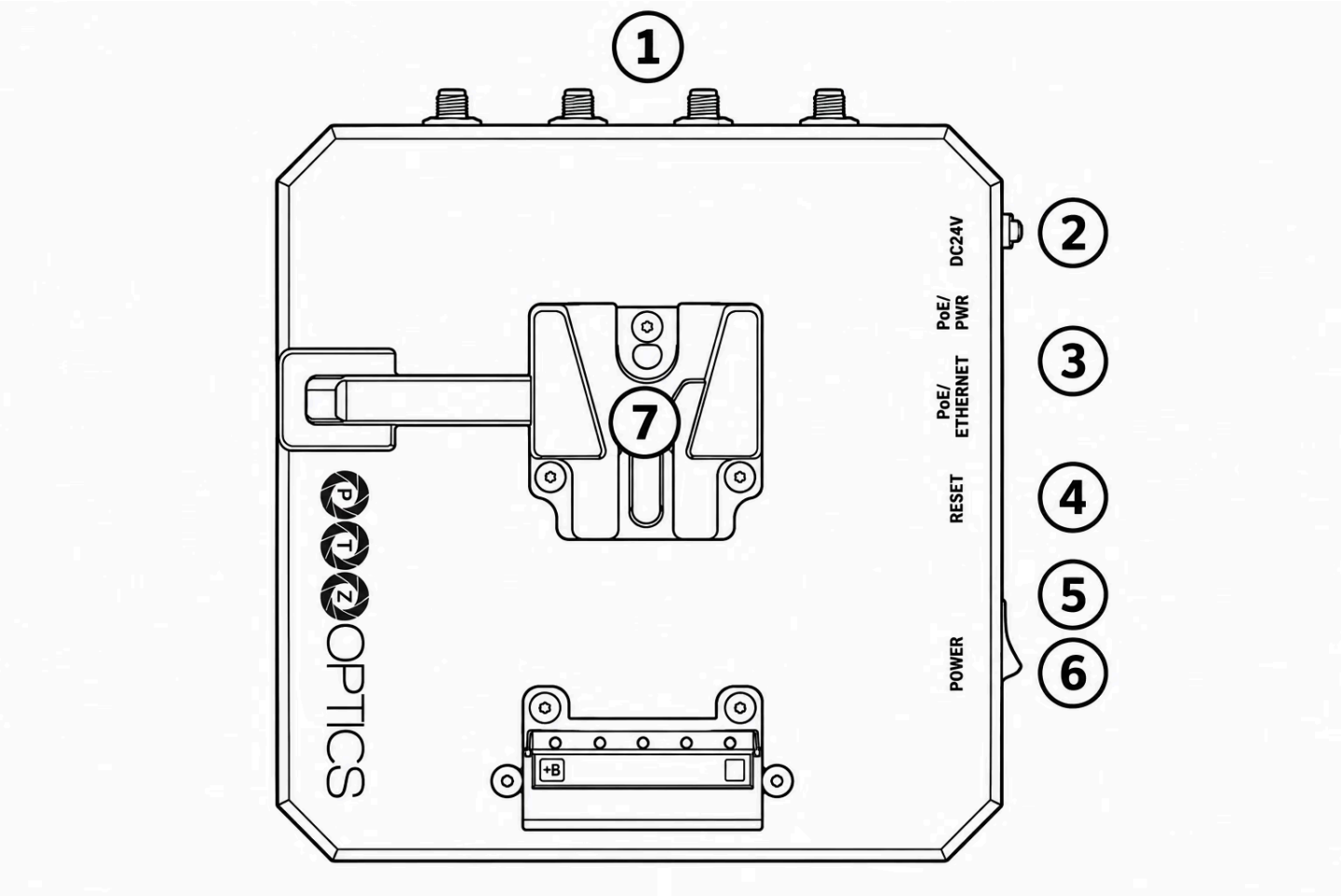
STEP 6

If the Power Link is connected directly to your computer, disconnect that Ethernet cable and connect it to the camera. If it is connected to a network switch, leave that connection in place and connect the camera to the PoE+ port with another Ethernet cable, allowing approximately 60 seconds for PoE negotiation.

STEP 7

Access the camera's web UI using its IP address to confirm successful power and network connectivity. You can now deploy the camera to your desired location.

Technical Specs



Connections

1. 4 x Antenna connectors
2. DC 24V Connection
3. Gigabit RJ45 port (optional PoE+ output)
4. Reset button
5. Status LED indicators
6. Power Switch
7. V-Mount battery plate

In the Box

- Power adapter and cable
- Power Link
- Universal DC24V power supply
- 4 antennas
- V-Mount battery (not included)

Transmission

Feature	Specification
Antennas	`4x 5 dBi high-gain antennas`
Wireless Standard	`IEEE 802.11ax/ac/a/b/g/n`
Transmission Rate	`574 Mbps on 2.4 GHz / 2400 Mbps on 5.8 GHz`
Receiver Sensitivity	`-98 dBm`
Operating Frequencies	`2.412-2.472 GHz / 5.180-5.825 GHz`
Channel Bandwidth	`20/40/80/160 MHz, auto`
Encryption	`WPA-PSK / WPA2-PSK / WPA/WPA2`
Wi-Fi	`Wi-Fi 6`

Physical

Feature	Specification
Physical Ports	`Gigabit RJ45 port (optional PoE+ output), 24V DC port, V-Mount battery plate`
Case	`Hardened aluminum`

Feature	Specification
PoE+ Port Standard	`Up to IEEE 802.3at`
Indicators	`PWR, PoE+ output status`
Switch	`On and Off`
Mounting	`1/4"-20 mounting points`
Operating Temperature	`-10°C to 50°C`
Dimensions with Antennas	`7.01" L x 5.22" W x 7.43" H` / `178.05mm L x 132.59mm W x 188.72mm H`
Dimensions without Antennas	`5.83" L x 5.22" W x 1.78" H` / `148.08mm L x 132.59mm W x 45.21mm H`
Weight	`1.55 lb` / `0.70 kg`

CAD Files & Technical Drawings

Download drawings for your Power Link.

3MF	Power+Link
PDF	Power+Link
STEP	Power+Link
STL	Power+Link