



ZVD511LP Video Camera with PoDL Single Pair Ethernet

Overview

Zemfyre's ZVD511LP is a versatile Video Monitoring Device suitable for various video surveillance and monitoring applications, including factory automation, building automation, security, and transportation.

The ZVD511LP utilizes Single Pair Ethernet for communication, allowing the camera to be positioned over 1,000 meters away from the host using just a single pair of wires. This technology also enables power delivery over the same wires, significantly simplifying deployment.

The device is available with different CMOS sensor resolutions (3-5 Mpix) and focal length optics. Its standard ¼" attachment allows for quick and easy setup.

The use of H.264/H.265 compression significantly reduces bandwidth requirements compared to uncompressed video.

Additional benefits include channel quality monitoring, optional end-to-end cybersecurity, and optional edge AI processing.

When used in conjunction with a secure unmanaged switch from the ZEM6xx series, the ZVD511LP enables secure Cloud connectivity for IIoT devices, facilitating Industry 4.0 adoption.

Features

- Industrial strength camera for video surveillance and monitoring applications.
- Full color 5 Megapixel CMOS sensor with selectable angle of view and IR filter.
- H.264/H.265 video stream compression.
- Native Single Pair Ethernet interface (10BASE-T1L per IEEE802.3cg) – 1,000 meter reach.
- Variety of different cables suitable for the application (AWG26-14, existing structured wiring).
- Power delivery on the same wire pair (PoDL/SPoE Class 14 PD per IEEE802.3cg).
- Signal and power polarity-agnostic connection (no wiring mistakes), short circuit, over temperature and overvoltage protection.
- A single 2-pin industry standard connector IEC 63171-1 with built-in Link/Activity LED
- Rugged aluminum enclosure.
- Dimensions: 2.2x2.4x3" (WxHxD), weight 0.2kg, standard camera ¼" attachment.
- -10...+60C temperature range, 5% to 95% relative humidity (non-condensing).
- Patent pending.

• Industry 4.0 • Process Automation • Factory Automation • IIoT • Transportation •
• Building Security/Automation • Smart City • Robotics • Audio/Video Streaming •
Efficient Power Delivery + Security + Range + Seamless Data Aggregation

