YuanLey YS082G-P

YuanLey YS082G-P 10-Port PoE Switch User Manual

Model: YS082G-P

1. INTRODUCTION

This manual provides detailed instructions for the YuanLey YS082G-P 10-Port PoE Switch. This unmanaged network switch is designed for various applications, offering 8 Power over Ethernet (PoE+) ports and 2 Gigabit uplink ports for efficient network connectivity and power delivery.
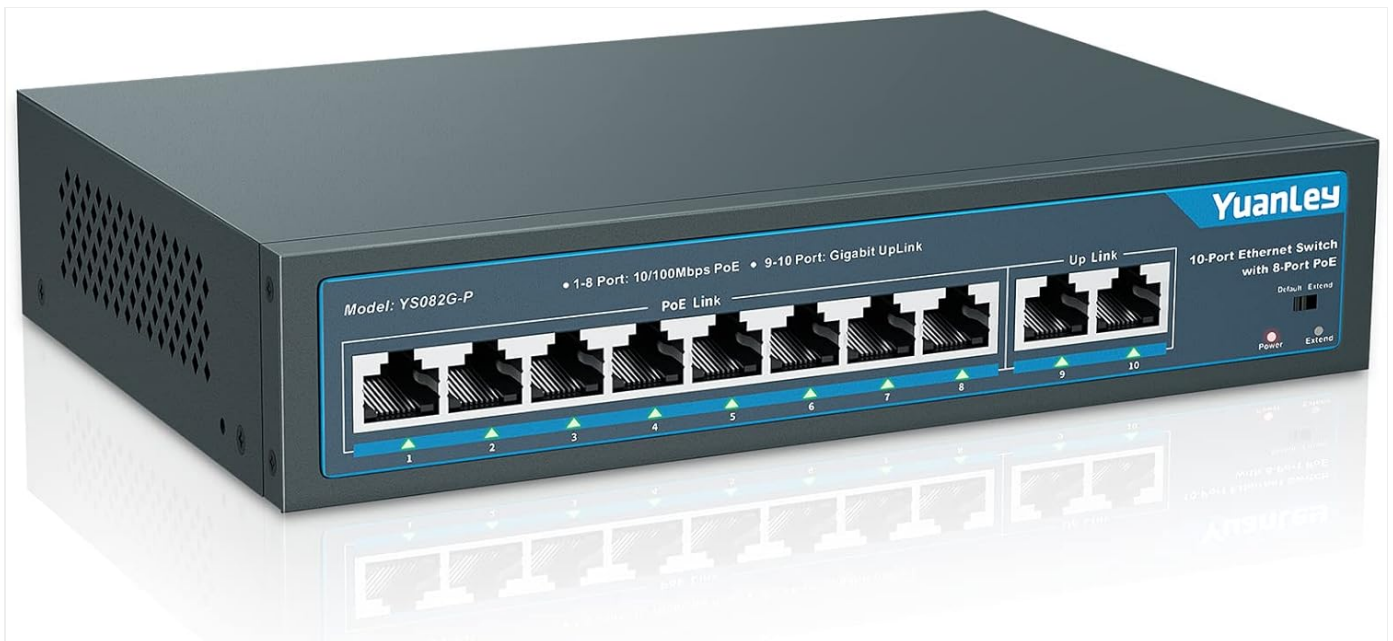

Image 1.1: Front view of the YuanLey YS082G-P 10-Port PoE Switch.

2. KEY FEATURES

- **Port Configuration:** Features 8 PoE ports (10/100Mbps) and 2 Gigabit uplink Ethernet ports (1000Mbps) for high-bandwidth connections.

- **Power over Ethernet (PoE+):** Supports IEEE 802.3af/at standards with a maximum total power budget of 120W, delivering up to 30W per port.

- **Plug and Play:** Unmanaged switch design allows for automatic device detection and requires no configuration for

easy setup.

- **Extend Function:** Enables single PoE ports to support transmission distances up to 250m at 10Mbps when activated.

- **VLAN Support:** Ports 1-8 support VLAN isolation to reduce network congestion and enhance security.

- **Durable Design:** Constructed with a metal case for bilateral heat dissipation, fanless operation for quiet performance, and 4KV lightning protection.

- **Wide Operating Temperature:** Designed to operate reliably in environments ranging from -10°C to +55°C.
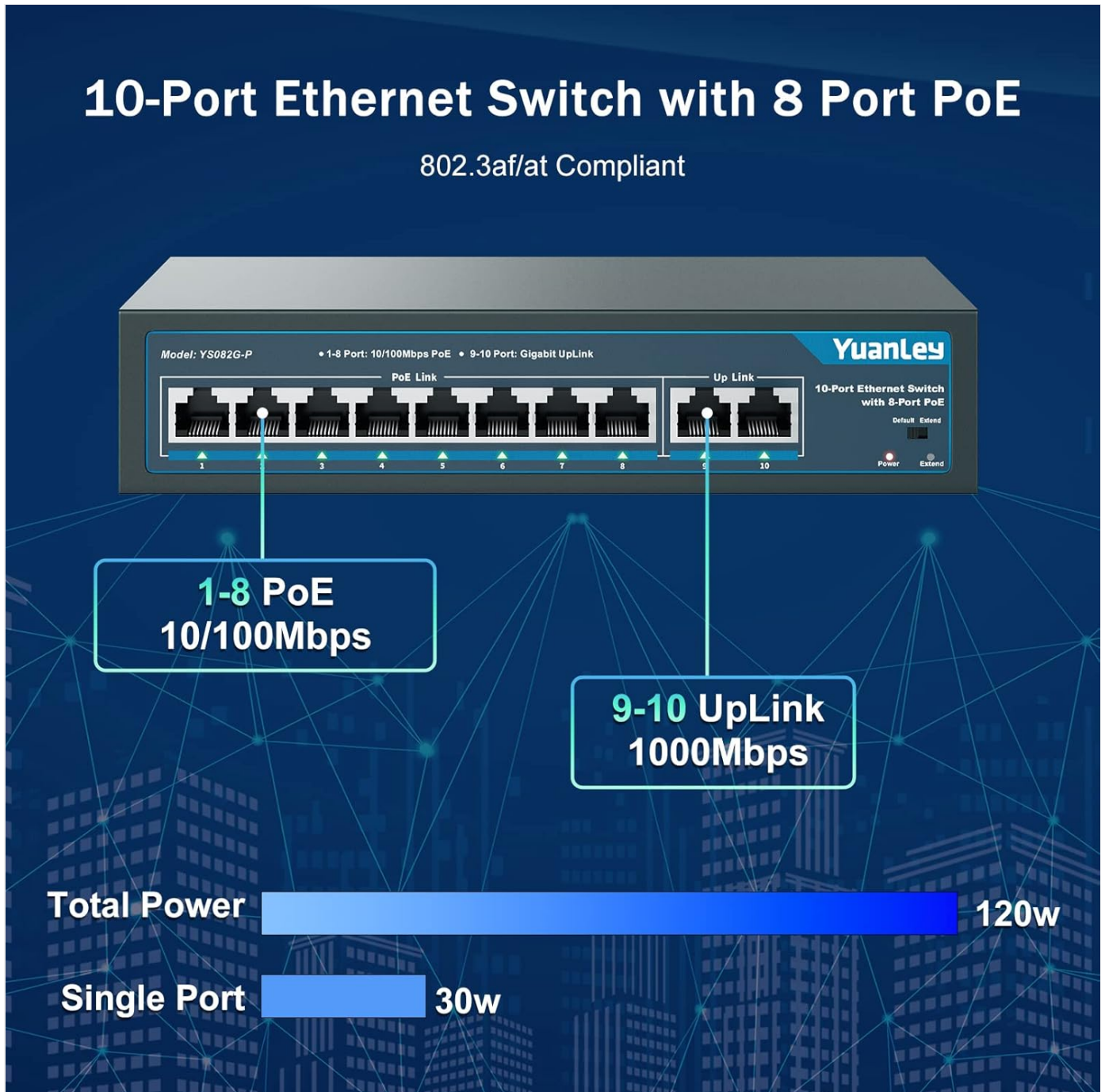

Image 2.1: Port configuration showing 8 PoE ports (10/100Mbps) and 2 Gigabit uplink ports (1000Mbps).

One Key VLAN

1-8 port is isolated with each other but communcate with uplink ports improve network communicate
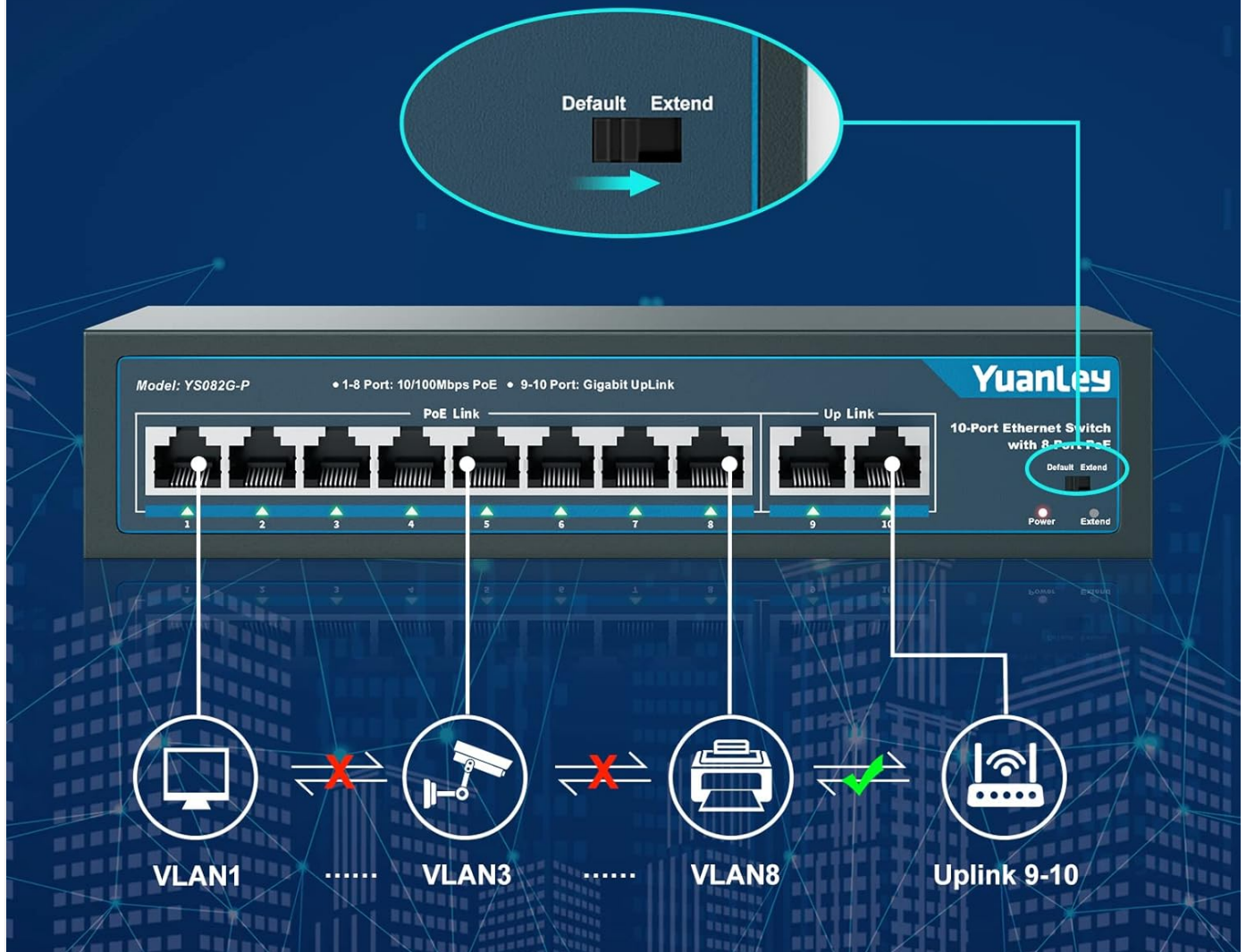

Image 2.2: Diagram illustrating the One Key VLAN function, isolating ports 1-8 while allowing communication with uplink ports.
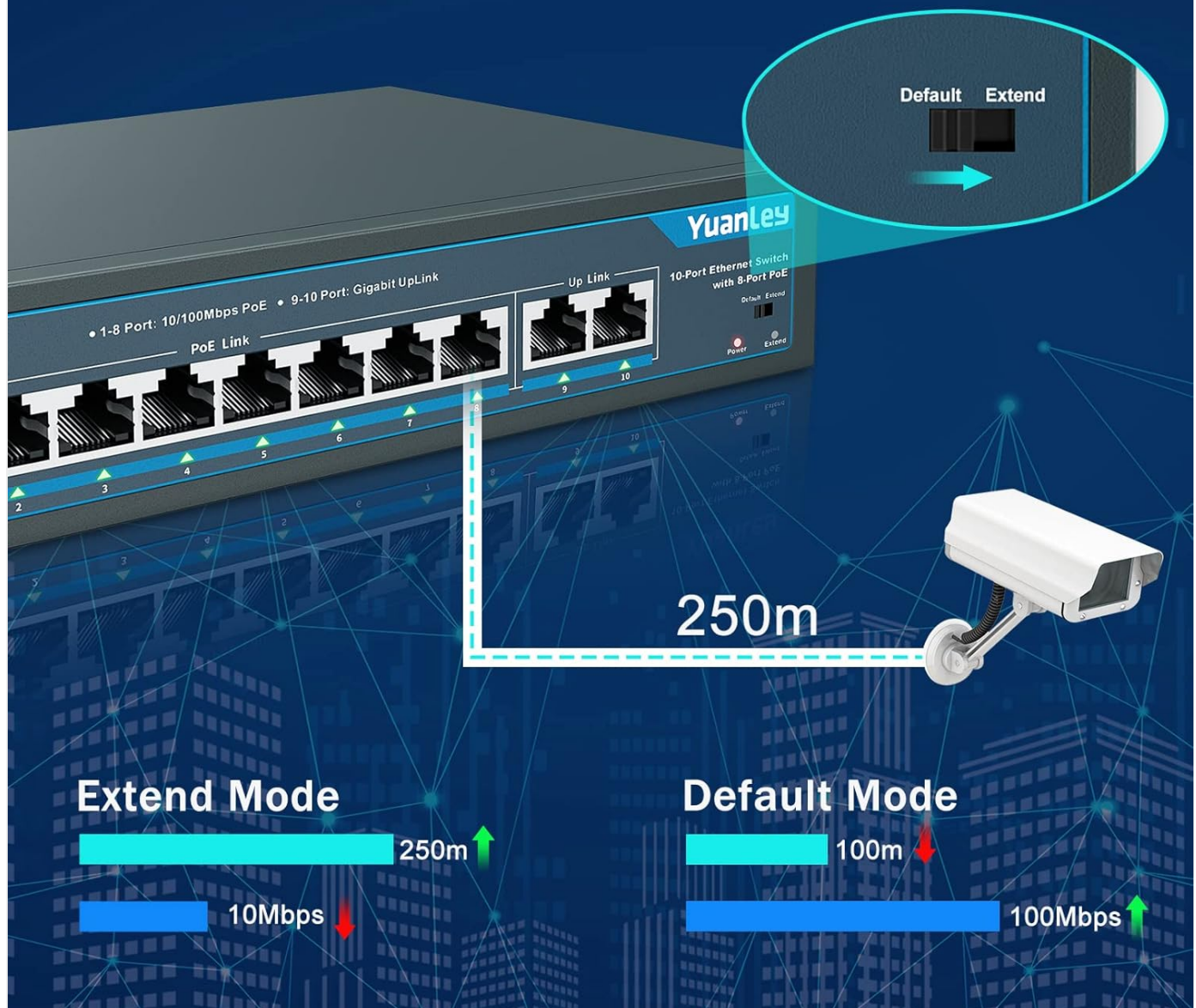
Image 2.3: Comparison of Extend Mode (250m, 10Mbps) and Default Mode (100m, 100Mbps) for PoE transmission.

Unmanaged PoE Network Switch

Metal Case

Plug and Play

4KV Lightning Protection

4KV

12 Gbps
Switching Capacity

Image 2.4: Overview of the switch's unmanaged features including metal case, plug and play, 4KV lightning protection, and 12 Gbps switching capacity.
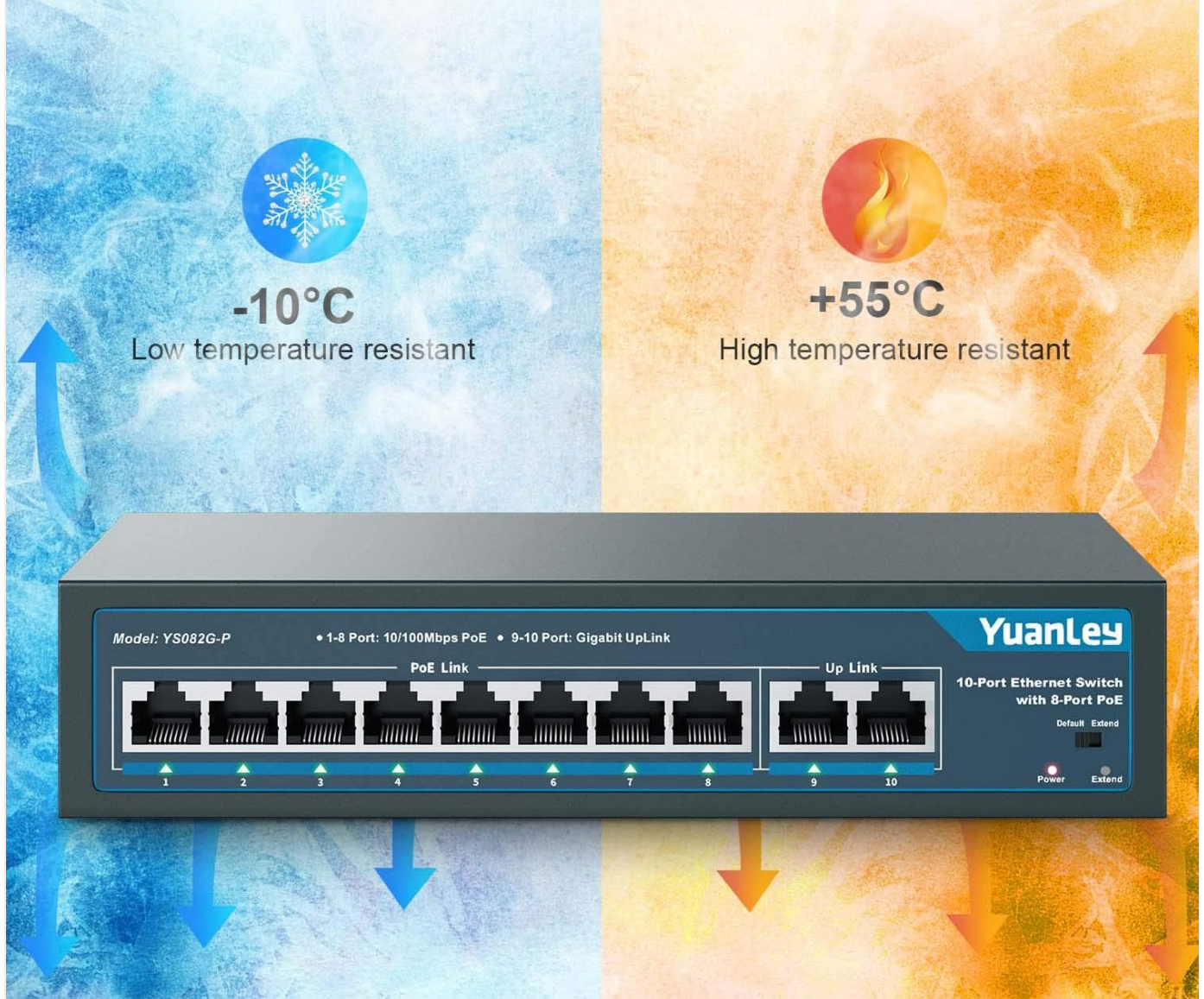
Image 2.5: Illustration of the switch's fanless design and wide operating temperature range (-10°C to +55°C).

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- YuanLey YS082G-P 10-Port PoE Switch
- Power Cord
- Mounting Brackets (for rackmount or wall mount)
- Screws for mounting
- Quick Start Guide

4. SETUP INSTRUCTIONS

The YuanLey YS082G-P is a plug-and-play unmanaged switch, requiring minimal setup.

1. **Connect Power:** Plug the provided power cord into the AC IN port on the back of the switch and then into a

standard electrical outlet. The Power LED on the front panel should illuminate.

2. **Connect Uplink:** Connect your router or main network device to one of the two Gigabit uplink ports (ports 9 or 10) using a standard Ethernet cable.

3. **Connect PoE Devices:** Connect your PoE-compatible devices (e.g., IP cameras, wireless access points, IP phones) to any of the 8 PoE ports (ports 1-8) using Ethernet cables. The switch will automatically detect and power these devices.

4. **Mounting (Optional):** Use the included mounting brackets and screws to install the switch in a 19-inch rack or mount it on a wall.

Your browser does not support the video tag.

Video 4.1: A brief overview of the YuanLey 10 Port PoE Switch, demonstrating its physical appearance and basic connectivity.

Image 4.2: Visual guide for the simple plug-and-play setup process: Connect to Power, Connect Devices, and Enjoy.
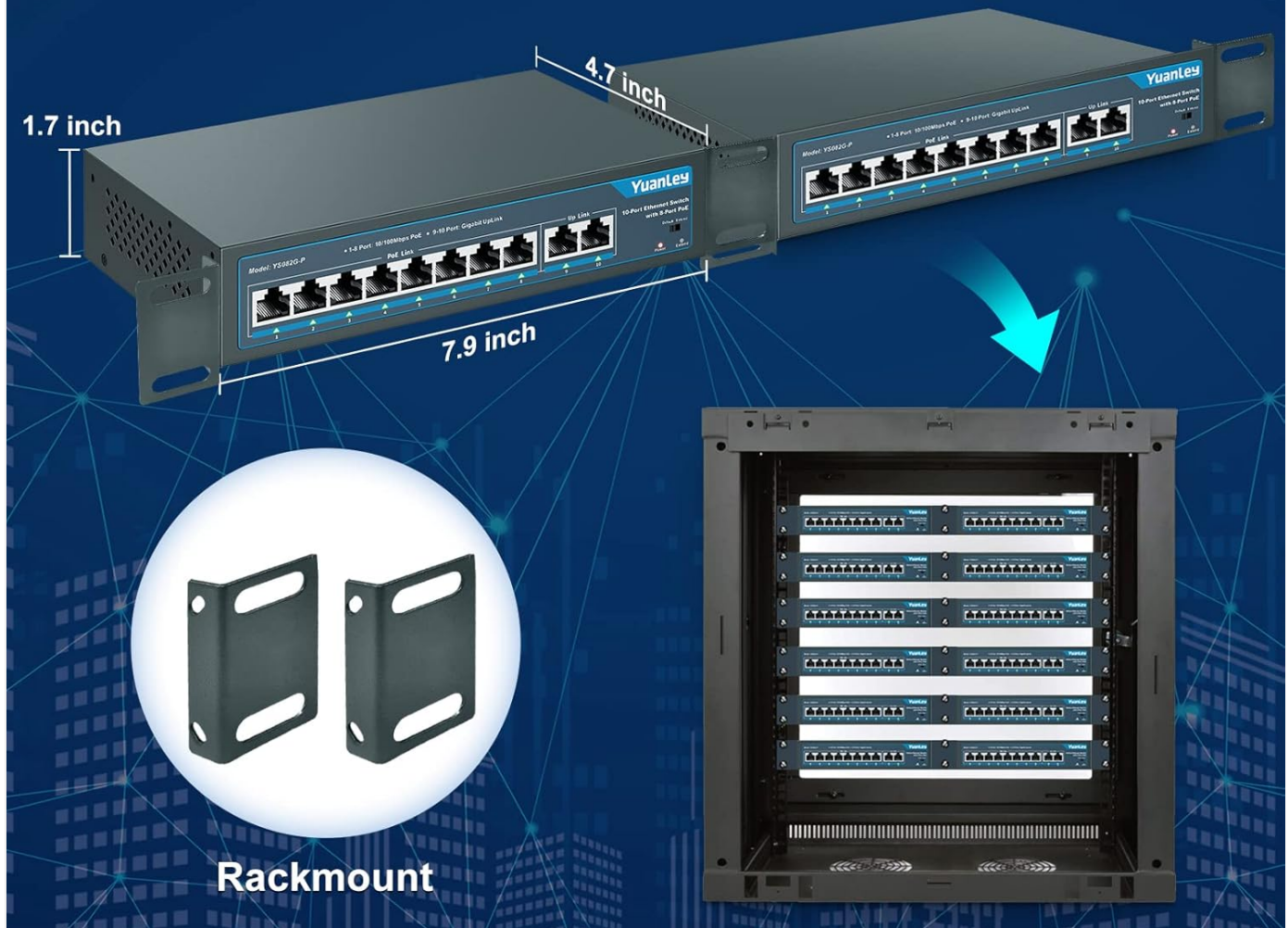
Image 4.3: Illustration of the rackmount design and included brackets for installation.

5. OPERATING MODES

The switch features a mode switch on the front panel to select between Default and Extend modes.

- **Default Mode:** In this mode, all ports operate at their standard speeds (10/100Mbps for PoE ports, 1000Mbps for uplink ports) with a maximum transmission distance of 100 meters.

- **Extend Mode:** When the switch is set to Extend mode, PoE ports 1-8 can transmit data and power up to 250 meters, but the speed for these ports will be reduced to 10Mbps. This mode is ideal for long-distance deployments of devices like IP cameras where higher bandwidth is not critical.

- **VLAN Functionality:** The switch supports VLAN isolation on ports 1-8. When enabled, these ports are isolated from each other but can still communicate with the uplink ports (9-10). This helps in segmenting the network, reducing broadcast storms, and improving overall network security and performance.

Image 5.1: The physical switch for selecting between Default and Extend modes.

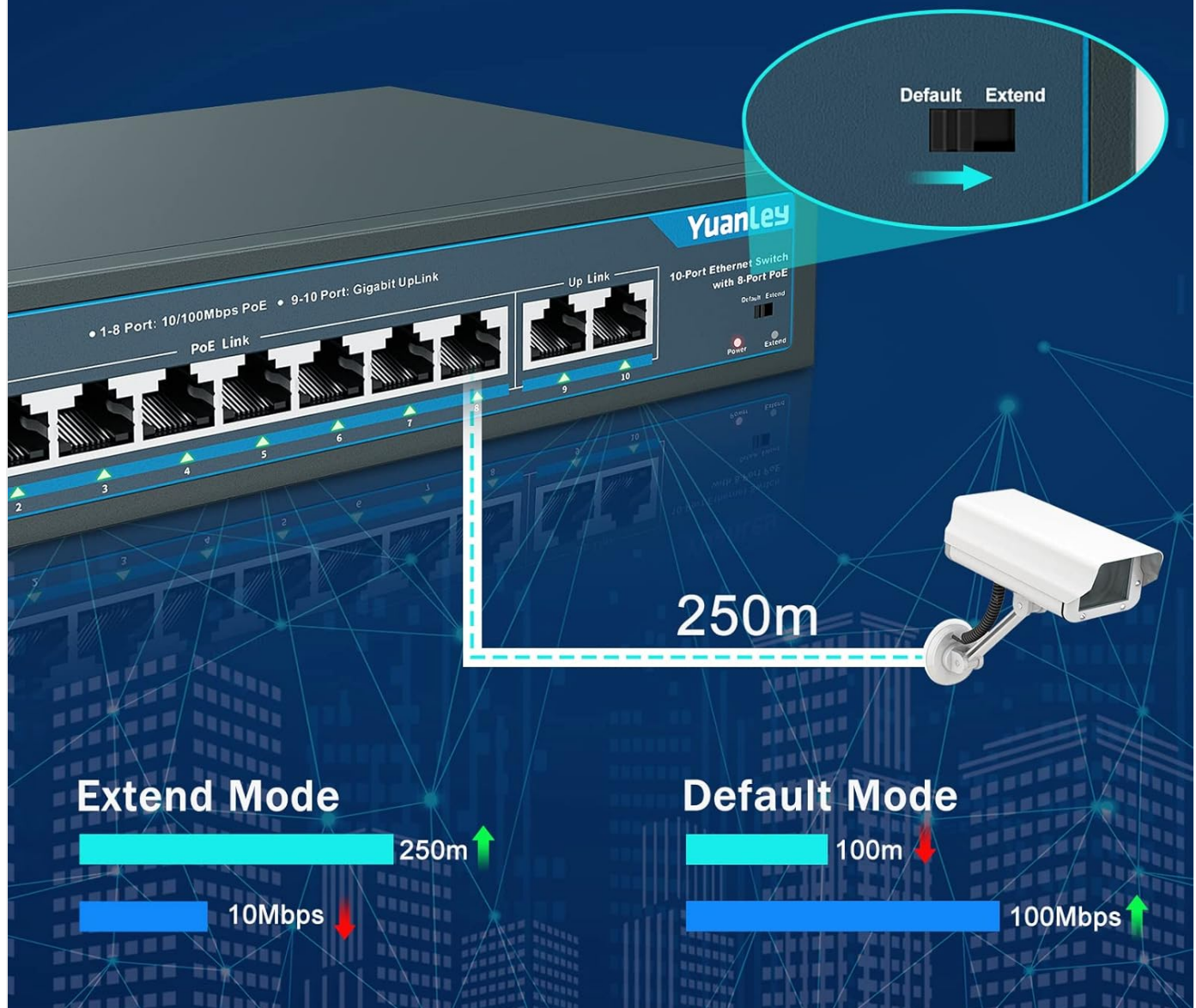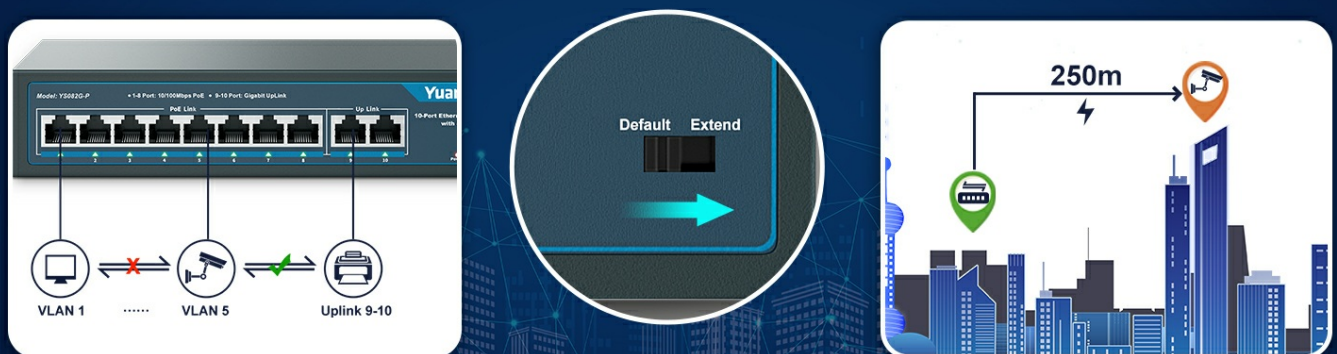Image 5.2: Diagram illustrating the functionality of One Key VLAN and the Extend mode for longer PoE distances.

6. MAINTENANCE

To ensure optimal performance and longevity of your YuanLey PoE Switch:

- Keep the device in a well-ventilated area to prevent overheating. The fanless design relies on natural convection.
- Regularly inspect cables for damage and ensure secure connections.
- Clean the exterior of the switch with a soft, dry cloth. Avoid using liquid cleaners or aerosols.
- Ensure the power source is stable and within the specified voltage range (AC 100-240V).

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power LED indication.	No power supply or faulty power cord.	Check power cord connection and power outlet. Ensure the power source is active.
PoE device not receiving power or data.	Incorrect cable, non-PoE device, or device exceeding power budget.	Verify the device is PoE-compatible (IEEE 802.3af/at). Check Ethernet cable for damage. Ensure total power consumption does not exceed 120W and individual port consumption does not exceed 30W.
Slow network speed on PoE ports.	Extend mode is enabled.	If high speed is required for short distances (under 100m), switch the mode to Default. Extend mode reduces speed to 10Mbps for longer distances.
Network congestion or security concerns.	No network segmentation.	Enable VLAN isolation for ports 1-8 to segment traffic and improve security.

8. SPECIFICATIONS

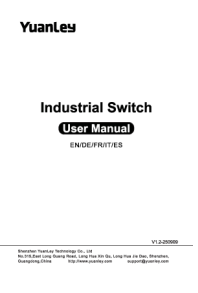| Feature	Detail
Model	YS082G-P
Ports	8 x 10/100Mbps PoE+ Ports, 2 x 1000Mbps Gigabit Uplink Ports
PoE Standard	IEEE 802.3af/at
Total PoE Power Budget	120W
Max Power Per Port	30W
Data Transfer Rate	1000 Megabits Per Second (Uplink), 100 Megabits Per Second (PoE Ports)
Switching Capacity	12 Gbps
Extend Function	Up to 250m transmission distance at 10Mbps on PoE ports 1-8
VLAN Support	Ports 1-8 isolation, communication with uplink ports

Feature	Detail
Interface Type	RJ45
Power Input	AC 100-240V, 50/60Hz (Built-in Power Supply)
Case Material	Metal
Cooling	Fanless
Operating Temperature	-10°C to +55°C
Product Dimensions	7.9"L x 4.7"W x 1.7"H
Item Weight	0.96 Kilograms (2.11 pounds)
Lightning Protection	4KV

9. WARRANTY AND SUPPORT

For any questions, technical assistance, or warranty inquiries, please contact YuanLey official support. Refer to the product packaging or the official YuanLey website for the most current contact information.

Related Documents - YS082G-P

YuanLey PoE Switch User Manual EN/DE/FR/IT/ES V5.2-250818 Shenzhen YuanLey Technology Co.,Ltd No.315, East Long Guang Road, Long Hua Xin Qu, Long Hua Jie Dao, Shenzhen, Guangdong,China support@yuanley.com	[Yuanley PoE Switch User Manual and Technical Specifications](#) This user manual and technical specification document provides detailed information on Yuanley PoE Switches, including application scenarios, front panel explanations, and comprehensive technical parameters for various models.
YuanLey Industrial Switch User Manual EN/DE/FR/IT/ES V1.2-250909 Shenzhen YuanLey Technology Co., Ltd No.315,East Long Guang Road, Long Hua XIn Qu, Long Hua Jie Dao, Shenzhen, Guangdong,China http://www.yuanley.com support@yuanley.com	[Yuanley Industrial Switch User Manual - Installation, Specifications, and Safety](#) Comprehensive user manual for Yuanley Industrial Switches (models YS0411GSI-P, YS0802GSI-P), covering installation, operation, technical specifications, and safety precautions.
	[YuanLey Managed Switch User Manual - Gigabit Ethernet Network Configuration Guide](#) Comprehensive user manual for the YuanLey 28-port Gigabit Managed Switch, detailing hardware installation, web interface navigation, advanced network configuration (VLAN, QoS, Security), and troubleshooting. Designed for professional network management.

YuanLey **2.5G Switch Unmanaged** User Manual EN/DE/FR/IT/ES V1.3-250903 Shenzhen YuanLey Technology Co.,Ltd No.310, East Long Guan Road,Long Hua Xin Qu,Long Hua Jie Dao,Shenzhen, Guangdong,China support@yuanley.com	[Yuanley 2.5G Unmanaged Ethernet Switch User Manual & Specifications](#) Comprehensive user manual and technical specifications for Yuanley's 2.5G Unmanaged Ethernet Switches, including models YS25-1602, YS25-1600, YS25-2400, YS25-2402, YS25-0802T, YS25-1602P, and YS25-2402P. Learn about features, application scenarios, and detailed parameters.
YuanLey **Installation Guide Manual** User Manual EN/DE/FR/IT/ES V1.3-250226 Shenzhen YuanLey Technology Co.,Ltd No.310, East Long Guan Road,Long Hua Xin Qu,Long Hua Jie Dao,Shenzhen, Guangdong,China support@yuanley.com	[Yuanley Ethernet Switch Installation Guide Manual](#) Comprehensive installation guide manual for Yuanley Ethernet switches, covering setup, safety, and specifications in multiple languages.
YuanLey **2.5 Gbps Ethernet Switch** User Manual EN/DE/FR/IT/ES V2.4-250814 Shenzhen YuanLey Technology Co.,Ltd No.310, East Long Guan Road,Long Hua Xin Qu,Long Hua Jie Dao,Shenzhen, Guangdong,China support@yuanley.com	[YuanLey 2.5 Gbps Ethernet Switch User Manual](#) User manual for YuanLey 2.5 Gbps Ethernet Switches, covering interface definitions, indicator explanations, installation precautions (safety and environmental), hardware connection procedures for RJ45 and SFP ports, power connection, and detailed technical specifications for 4, 5, and 8-port models.