MT-VIKI 1 to 2 POE

MT-VIKI 48V POE Ethernet Splitter 1 to 2 1000Mbps User Manual

Model: 1 to 2 POE

Brand: MT-VIKI

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the MT-VIKI 48V POE Ethernet Splitter 1 to 2 1000Mbps. This device is designed to extend Ethernet cables from a PoE Switch over long distances and split the PoE signal for use with PoE IP cameras, IP speakers, IP phones, and other PoE-compatible devices at speeds up to 1000 Mbps. It is engineered for efficient power and data transmission without requiring an external power supply when connected to a PoE switch.

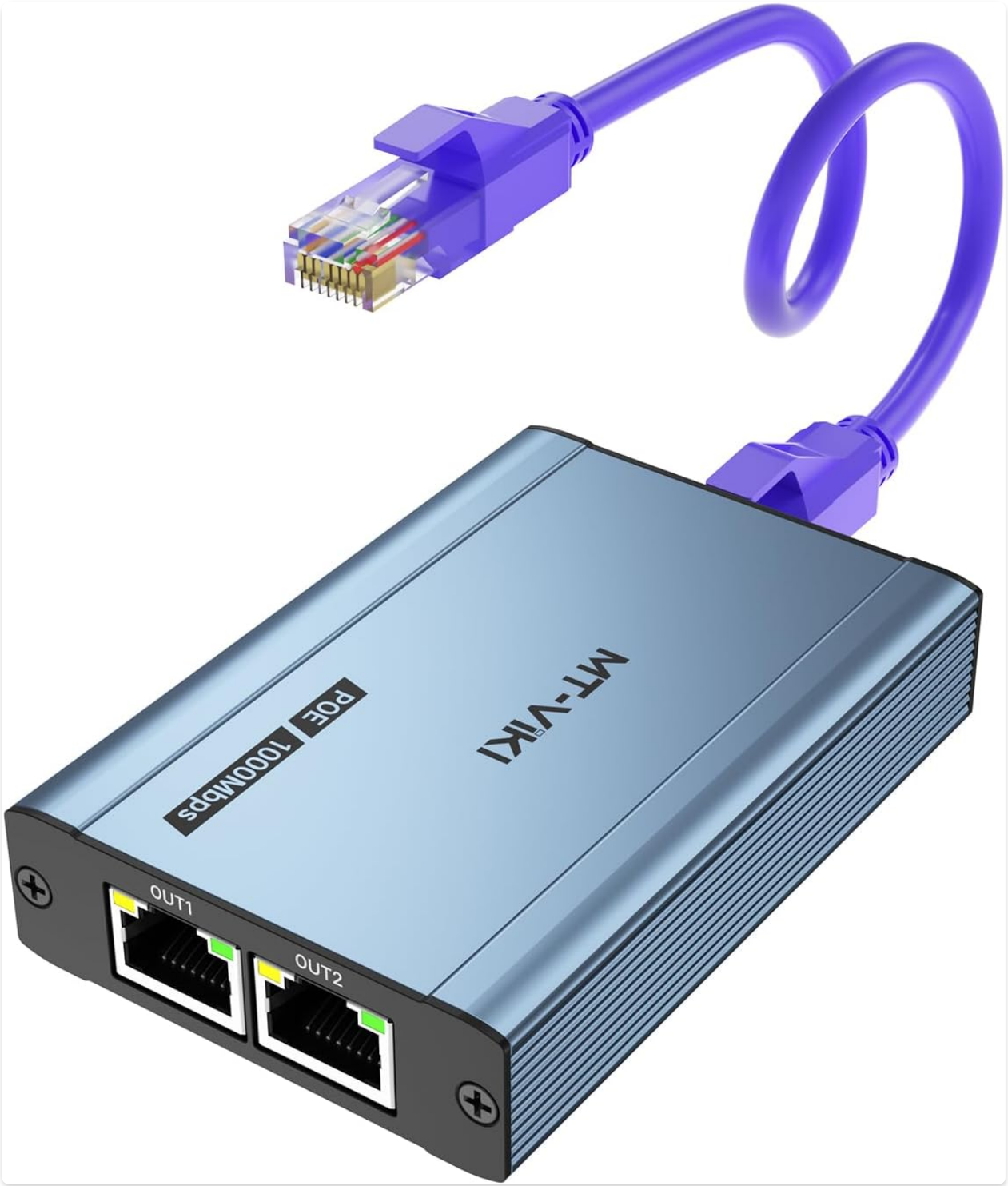


Image: The MT-VIKI 48V POE Ethernet Splitter, a compact blue-grey device with two RJ45 output ports and a purple Ethernet cable connected to the input.

2. Product Features

- **POE Gigabit Ethernet Splitter:** Allows splitting a single PoE Ethernet signal into two outputs at speeds up to 1000 Mbps, ideal for connecting multiple PoE devices.
- **No External Power Supply Required (with PoE Switch):**When connected to a PoE switch, the splitter draws power directly from the Ethernet cable, simplifying wiring.
- **60W High-Power Output:** Supports high-power output, ensuring adequate power supply for connected devices and smooth data transmission.
- **Unlimited Cascading Support:** Multiple PoE Ethernet splitters can be daisy-chained for extended network reach and cleaner wiring. Note: A 48V power adapter is required at the last LAN splitter in a

daisy chain.

- **200m (656ft) Long-Distance Transmission:** Capable of transmitting data up to 200 meters while maintaining full 1000Mbps speed, ensuring clear and smooth image capture for IP webcams.
- **Compact and Lightweight Design:** The device features a durable aluminum alloy casing, making it easy to integrate into various setups.

3. Package Contents

Please verify that all items are present in your package:

- MT-VIKI POE Ethernet Splitter (1 to 2) x 1
- User Manual x 1

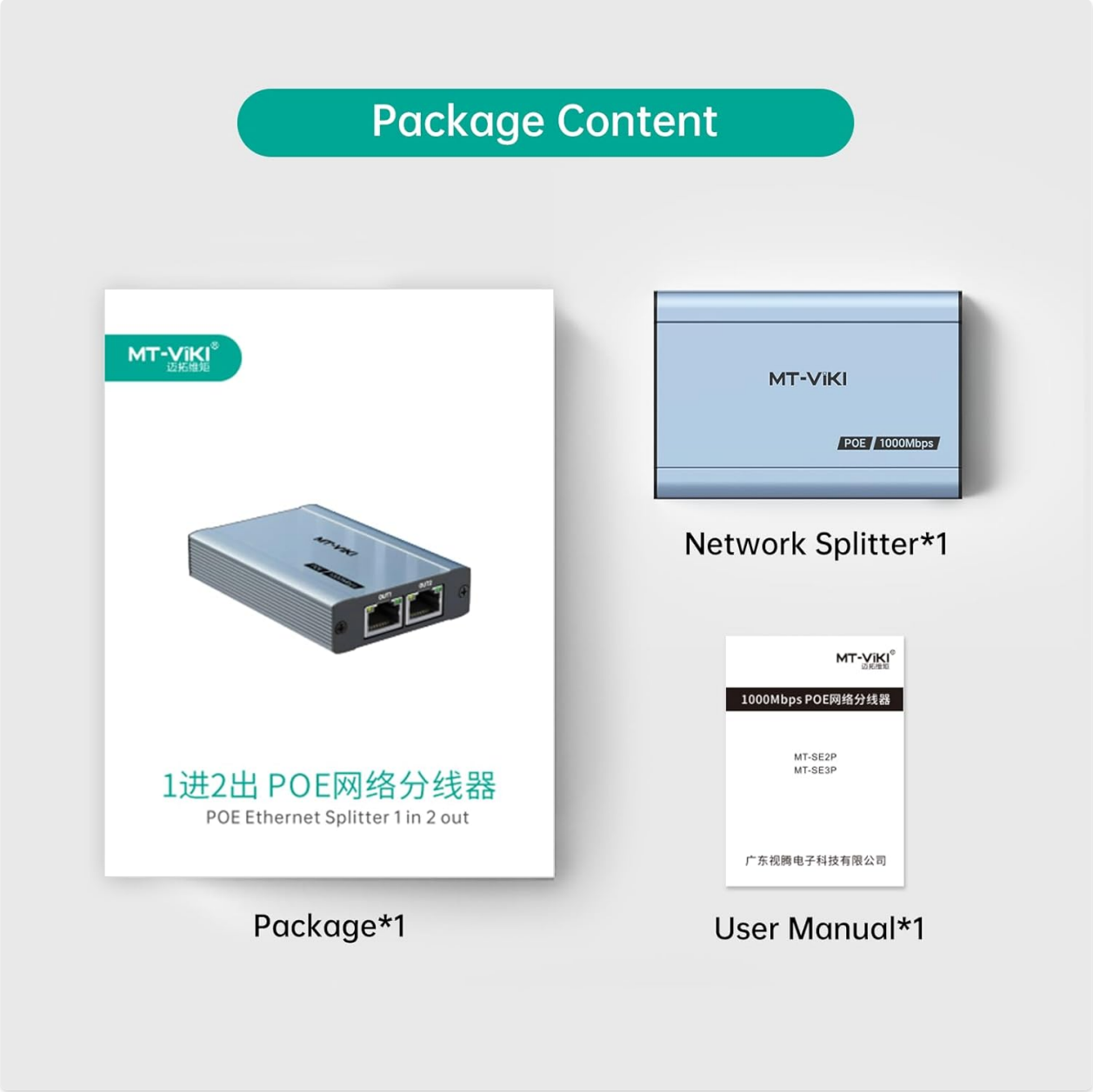


Image: A visual representation of the package contents, showing the network splitter unit, its packaging box, and the user manual.

4. Setup and Installation

The MT-VIKI POE Ethernet Splitter offers flexible connection options depending on your network setup. Please follow the appropriate instructions below:

4.1. Connecting to a POE Switch (No External Power Supply Required)

This is the most common and convenient setup for PoE-enabled networks.

1. Connect an Ethernet cable from your PoE Switch to the**IN** port of the MT-VIKI POE Ethernet Splitter.
2. Connect Ethernet cables from the **OUT1** and **OUT2** ports of the splitter to your PoE IP cameras, IP speakers, IP phones, or other PoE devices.
3. The splitter will draw power directly from the PoE switch, and no additional power adapter is needed.

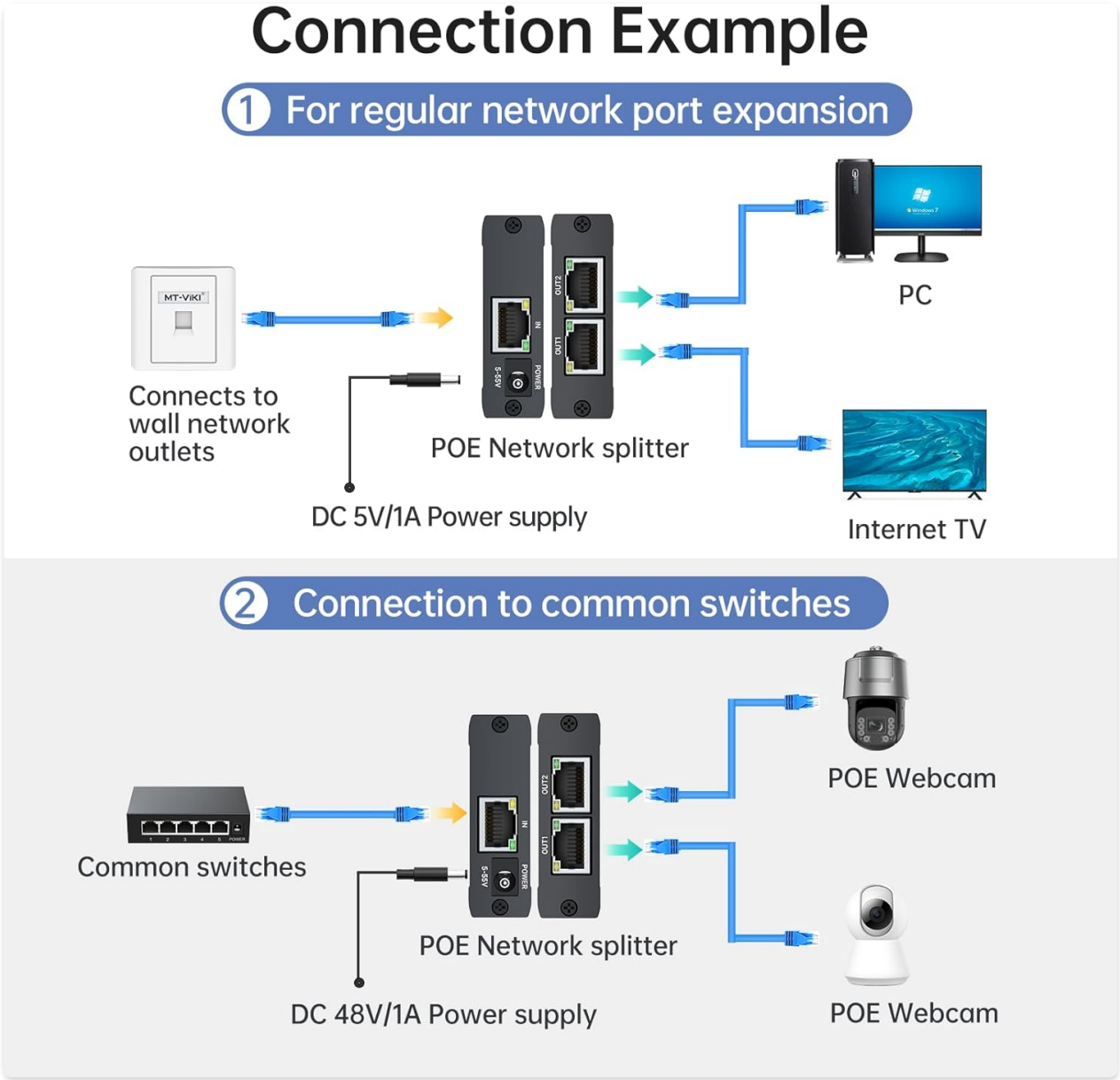


Image: A diagram illustrating how to connect the MT-VIKI POE Ethernet Splitter to a PoE switch, with two PoE webcams connected to the splitter's output ports.

4.2. Connecting to a Normal LAN Switch (48V DC Power Adapter Required)

If your LAN switch does not provide PoE, an external power supply is necessary.

1. Connect an Ethernet cable from your normal LAN Switch to the**IN** port of the MT-VIKI POE Ethernet Splitter.
2. Plug a DC 48V 1A power adapter (not included) into the power input port of the splitter.

3. Connect Ethernet cables from the **OUT1** and **OUT2** ports of the splitter to your PoE IP cameras, IP speakers, IP phones, or other PoE devices.

4.3. For Regular Network Port Expansion (5V DC Power Adapter Required)

If you intend to use the device solely as a LAN expander without PoE functionality (e.g., connecting a PC and Internet TV), a 5V power adapter is needed.

1. Connect an Ethernet cable from your wall network outlet or router to the **IN** port of the MT-VIKI POE Ethernet Splitter.
2. Plug a 5V 1A power adapter (not included) into the power input port of the splitter.
3. Connect Ethernet cables from the **OUT1** and **OUT2** ports of the splitter to your non-PoE devices such as a PC and Internet TV.

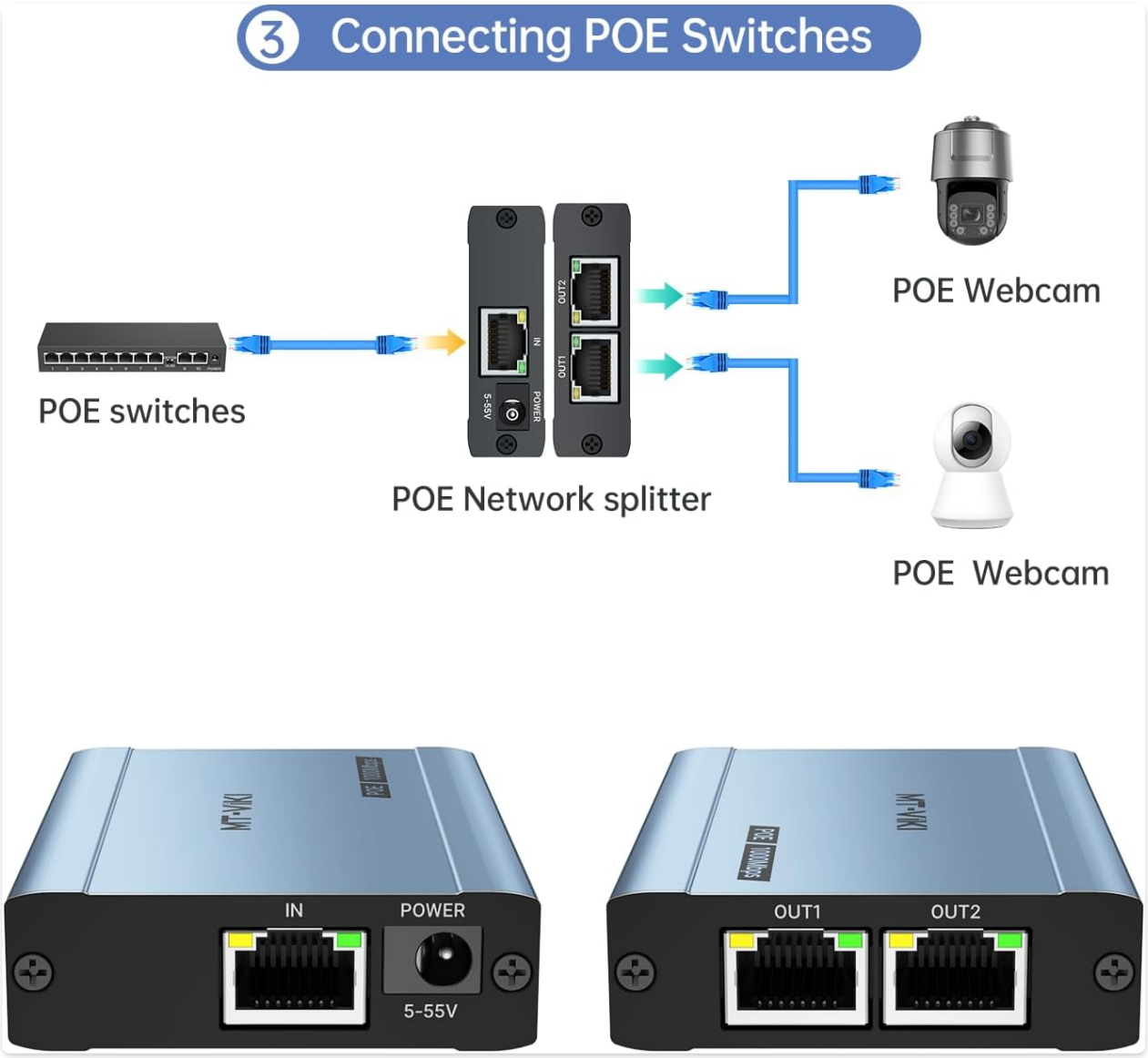


Image: A combined diagram showing two connection examples: one for regular network port expansion with a 5V power supply connecting to a PC and Internet TV, and another for connecting to common switches with a 48V power supply connecting to PoE webcams.

4.4. Long-Distance Transmission and Cascading

The splitter supports long-distance transmission up to 200m (656ft) and can be daisy-chained for even greater distances. For daisy-chaining, ensure a 48V power adapter is added at the last splitter in the chain to maintain power integrity.

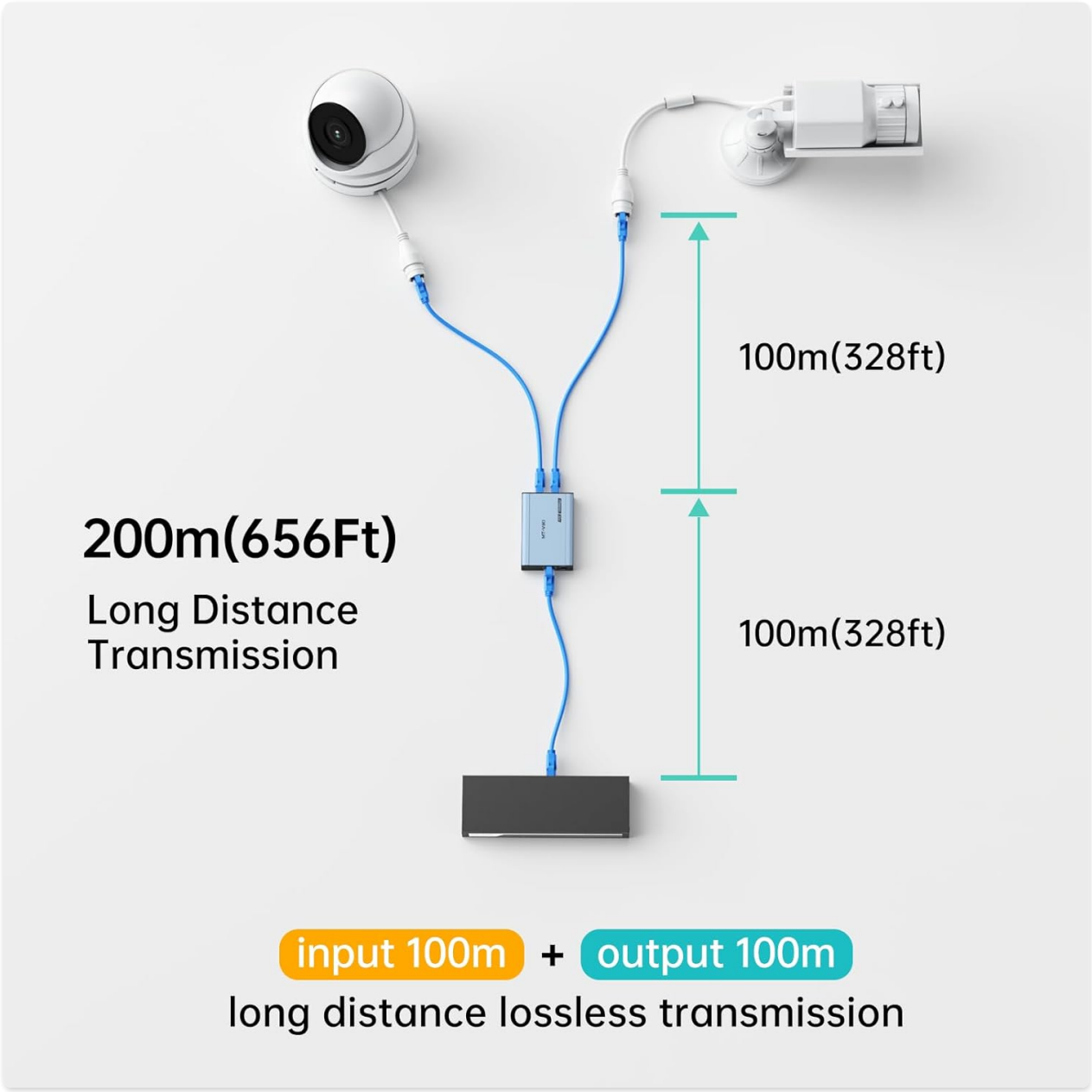


Image: A diagram illustrating long-distance transmission, showing an input cable of 100m connected to the splitter, and two output cables of 100m each connecting to devices, totaling 200m effective distance.

5. Operating Instructions

Once properly connected according to the setup instructions, the MT-VIKI POE Ethernet Splitter operates automatically. It functions as a pass-through device for both data and power (when PoE is active).

- **Power Indicator:** The device features a power indicator light. Ensure it is illuminated to confirm the splitter is receiving power.
- **Link/Activity Indicators:** Each RJ45 port has indicator lights that show network link status and data activity. A solid light typically indicates a successful connection, while a blinking light indicates data transmission.
- **Gigabit Speed:** The splitter supports Gigabit (1000Mbps) speeds. Ensure your connected devices and network infrastructure also support Gigabit Ethernet for optimal performance.

Image: A diagram illustrating the 1000Mbps Gigabit fast input capability of the splitter, showing it connected to a network switch and two IP cameras, with '1000Mbps' text indicating high speed.

6. Maintenance

To ensure the longevity and optimal performance of your MT-VIKI POE Ethernet Splitter, consider the following maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using liquid cleaners or aerosols.
- **Environment:** Operate the splitter in a well-ventilated area, away from direct sunlight, excessive heat, moisture, and corrosive substances.
- **Cable Management:** Ensure Ethernet cables are not excessively bent or kinked, as this can affect data transmission.
- **Firmware:** There is no user-upgradable firmware for this device.

7. Troubleshooting

If you encounter issues with your MT-VIKI POE Ethernet Splitter, please refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No power indicator light / Device not powering on.	Incorrect power source or no power.	• If using a PoE switch, ensure the switch port is PoE enabled and functioning. • If using a normal LAN switch, ensure the correct 48V 1A DC power adapter is connected and working. • If using for regular LAN expansion, ensure the correct 5V 1A DC power adapter is connected and working. • Check all cable connections.
No network connection on output ports.	Faulty cables, incorrect connection, or device issue.	• Verify that the input Ethernet cable is securely connected and active. • Ensure output Ethernet cables are securely connected to devices. • Test cables with another device if possible. • Confirm the connected devices (IP camera, PC, etc.) are functioning correctly. • Check the link/activity indicator lights on the splitter.
Slow network speed.	Cable quality, network congestion, or device limitations.	• Ensure you are using Cat5e/6/7/8 cables for Gigabit speeds. • Check for network congestion on your main network. • Ensure all connected devices support Gigabit Ethernet.
Power cord feels loose or slips out easily.	Manufacturing tolerance or wear.	• Gently secure the power cord with electrical tape if necessary, ensuring it does not obstruct ventilation or other ports. • Consider using a different power adapter if the issue persists and the adapter is removable.

8. Specifications

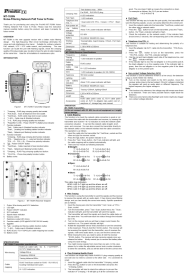
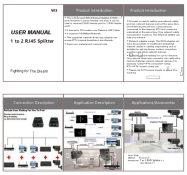
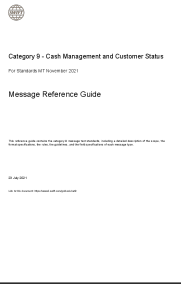
Feature	Specification
Model	1 to 2 POE (MT-SE2P)
Interface Type	RJ45
Data Transfer Rate	1000 Megabits Per Second (Gigabit)
Number of Ports	2 (Output)
Power Output	60W (Max)
Voltage (DC)	44 Volts (PoE), 48V 1A (External for LAN Switch), 5V 1A (External for LAN Expander)

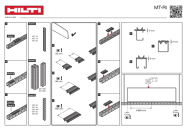
Feature	Specification
Compatible Devices	IP Camera, IP Speaker, IP Phone, PC, Internet TV
Case Material	Plastic (with aluminum alloy casing)
Item Weight	3.52 ounces
Package Dimensions	4.17 x 3.19 x 0.75 inches

9. Warranty and Support

For warranty information and technical support, please contact MT-VIKI customer service directly. Refer to the contact details provided on the product packaging or the official MT-VIKI website. Please have your product model and purchase date available when contacting support.
Manufacturer: MT-VIKI
Date First Available: June 6, 2024

Related Documents - 1 to 2 POE

	Pro'sKit MT-7029N Noise-Filtering Network PoE Toner & Probe: User Manual and Specifications Comprehensive user manual and technical specifications for the Pro'sKit MT-7029N Noise-Filtering Network PoE Toner & Probe, detailing its features, operation, and troubleshooting for network cable installation and maintenance.
	User Manual: W3 1 to 2 RJ45 Ethernet Splitter User manual for the W3 1 to 2 RJ45 Ethernet Splitter by NEWCARE. Details product features, specifications, connection diagrams, and application scenarios for Gigabit LAN networking. Supports 1000Mbps speeds and up to 100m transmission.
	SWIFT Standards MT: Category 9 - Cash Management and Customer Status Message Reference Guide (November 2021) This comprehensive guide details SWIFT's Category 9 message types for Cash Management and Customer Status, covering message scope, format specifications, rules, and examples for Standards MT November 2021. Essential for financial institutions.

	[Hilti MT-RI Channel Installation Guide] This guide provides instructions for installing Hilti MT-RI channels, including details on different channel types and mounting procedures.
	[NETCOM PE-UA0060 4-Port USB 2.0 Extender - 60 Meters] NETCOM PE-UA0060 is a 4-port USB 2.0 extender that transmits signals up to 60 meters over Cat5e/Cat6/Cat7/Cat8 Ethernet cable. Features plug-and-play, wide OS compatibility, and metal construction.
	[GoodWe SMT Series Grid-Tied PV Inverter Quick Installation Guide] This guide provides quick installation instructions for the GoodWe SMT Series Grid-Tied PV Inverter. It covers safety precautions, installation steps, and LED indicators for various models.