1. Package Contents

Check the following contents of your package:

FSD-504HP	User's Manual
	
51V Power Adapter	**Power Cord**
	

If any of these are missing or damaged, please contact your dealer immediately; if possible, retain the carton including the original packing material, and use them again to repack the product in case there is a need to return it to us for repair.

2. Product Features

- RJ45 Interface
  - Five 10/100Mbps Fast Ethernet ports
  - 4 ports support 51V DC power to PoE powered device
- Power over Ethernet
  - Complies with IEEE 802.3af/at Power over Ethernet end-span + mid-span PSE
  - Up to 4 IEEE 802.3af/2 IEEE 802.3at devices powered
  - Supports PoE power up to 30 watts for each PoE port
  - 60-watt PoE budget
  - Hardware DIP switch for "Standard" and "Extend" mode selection; the "Extend" mode features 30-watt PoE transmit distance of 250m at speed of 10Mbps and VLAN isolation
  - Auto detects powered device (PD)
  - Circuit protection prevents power interference between ports
  - Remote power feeding up to 100m with standard mode

3. Switch Front Panel

Figure 3-1 shows the front panel of FSD-504HP.



Figure 3-1: FSD-504HP Front Panel

The front panel of FSD-504HP provides one DIP switch for **"Standard"** and **"Extend"** mode selections. The detailed descriptions are shown in the following table.

DIP Switch Mode	Function
Standard (default)	This mode makes the FSD-504HP operate as a general switch and all ports operate at 10/100Mbps auto-negotiation.
Extend	■ This mode makes the FSD-504HP operate as a **VLAN isolation** switch and port 1 to port 4 will isolate respectively., Port 1 to port 4 can only communicate with port 5 (uplink port). ■ This mode also makes the FSD-504HP operate at auto-negotiation 10Mbps speed duplex mode only, but the delivery distance of PoE power and network data can reach **250m**.

4. LED Indicators

System

LED	Color	Function
PWR	Green	**Light:** Indicates the Switch has power.

Per 10/100Mbps Port

LED	Color	Function
PoE	Green	**Lights** to indicate the port is providing 51V DC in-line power to remote PoE PD.
LNK/ACT	Green	**Lights** to indicate the link through that port is successfully established at 10/100Mbps. **Blinks** to indicate that the Switch is actively sending or receiving data over that port.

5. Switch Rear Panel

Figure 5-1 shows the rear panel of FSD-504HP.



Figure 5-1: FSD-504HP Rear Panel

Power Notice

1. The device is a power-required device, meaning it will not work till it is powered. If your networks should be active all the time, please consider using UPS (Uninterrupted Power Supply) for your device. It will prevent you from network data loss or network downtime.
2. In some area, installing a surge suppression device may also help to protect your FSD-504HP from being damaged by unregulated surge or current to the FSD-504HP or the power adapter.

6. Installing the Switch

This part describes how to install your FSD-504HP and make connections to it. Please read the following topics and follow the procedures as presented.

Note

This FSD-504HP does not need software configuration.

Desktop Installation

To install the FSD-504HP on desktop, simply follow the following steps:

Step 1: Place the FSD-504HP on desktop near AC power source for its power adapter.

Step 2: Keep enough ventilation space between the FSD-504HP and the surrounding objects.

Note

When choosing a location, please keep in mind the environmental restrictions discussed in Chapter 7 -- Product Specifications.

Step 3: Connect your FSD-504HP to network devices.

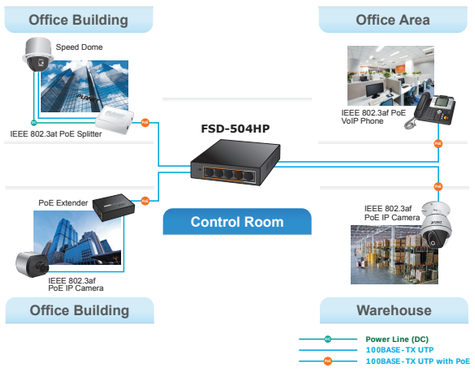
A. Connect one end of a standard network cable to the **Port-5** of the FSD-504HP that marks with **"Uplink"**.

B. Connect the other end of the cable to the network devices such as routers, Ethernet switches or NVRs (network video recorders).

Step 4: Connect your FSD-504HP to PoE PD devices.

A. Connect one end of a standard network cable to port 1 to port 4 10/100Mbps RJ45 PoE+ ports of the FSD-504HP.

B. Connect the other end of the cable to the 802.3at/af powered devices.



Note

Cable distance for Switch

- If the **"DIP Switch Mode"** is set to **"Standard"**, then the cable distance between the FSD-504HP and PC/PD devices should not exceed 100 meters for UTP/STP cable.
- If the **"DIP Switch Mode"** is set to **"Extend"**, then the cable distance between the FSD-504HP and PC/PD devices should not exceed 250 meters.

Note

Make sure the wiring is correct

Category 3/4/5 cable can be used in 10 Mbps operation. To reliably operate your network at 100Mbps, you must use an unshielded twisted-pair (UTP) Category 5/5e cable, or better data grade cabling. While a Category 3 or 4 cable may initially seem to work, it will soon cause data loss.

Step 5: Supply power to the FSD-504HP.

A. Connect one end of the power cable to the Switch.

B. Connect the power plug of the power cable to a standard wall outlet.

When the Switch receives power, the power LED should remain solid Green.

Wall-mount Installation

Step 1: Please find the wall that can mount the FSD-504HP.

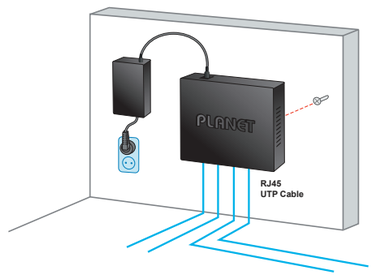
Step 2: Install two screws on the wall.

Step 3: Hang the FSD-504HP on the screws from the wall.

Step 4: Repeat step 5 of **Desktop Installation** for power supply to the FSD-504HP.

Note

Before mounting the device to the wall, please check the location of the electrical outlet and the length of the Ethernet cable.



7. Product Specifications

Model	**FSD-504HP** 4-Port 10/100Mbps 802.3af/at PoE + 1-Port 10/100Mbps Desktop Switch
Hardware Specifications	
Hardware Version	2
Network Connector	5-Port RJ45 for 10/100BASE-TX, auto MDI/MDIX
PoE Inject Port	4-Port with 802.3af/at PoE injector function (Port 1 to port 4)
LED Display	**System:** Power (Green) **Per PoE port:** PoE (Green, port 1 to port 4) LNK/ACT (Green, port 1 to port 5)
Switch Architecture	Store and Forward switch architecture
MAC Address Table	1K MAC address table with auto learning function
Switch Fabric	1Gbps
Switch Throughput	0.74Mpps @64bytes
Maximum Packet Size	1536bytes
Flow Control	Back pressure for half-duplex. IEEE 802.3x pause frame for full-duplex
Power Requirements	DC 51V, 1.25A.
Power Consumption	Max. 63 watts, 214 BTU
Dimensions (W x D x H)	100 x 100 x 26mm
Weight	257g

Power over Ethernet		
PoE Standard	IEEE 802.3af Power over Ethernet/PSE IEEE 802.3at Power over Ethernet Plus/PSE	
PoE Power Supply Type	End-span + mid-span	
Power Pin Assignment	1/2(+), 4/5(+), 3/6(-), 7/8(-)	
PoE Power Output	Per Port 51V DC, 300mA. max. 15.4 watts (IEEE 802.3af) Per Port 51V DC, 600mA. max. 30 watts (IEEE 802.3at)	
PoE Power Budget	60 watts	
Number of PDs, 7 watts	4	
Number of PDs, 15.4 watts	4	
Number of PDs, 30 watts	2	
Standard Conformance		
EMI Safety	FCC Class A, CE	
Standard Compliance	IEEE 802.3 IEEE 802.3u IEEE 802.3x IEEE 802.3af IEEE 802.3at	Ethernet Fast Ethernet Flow Control Power over Ethernet Power over Ethernet Plus
Environment		
Operating Environment	0 ~ 50 degrees C	
Storage Environment	-10 ~ 70 degrees C	
Operating Humidity	5 ~ 95%, relative humidity, non-condensing	
Storage Humidity	5 ~ 95%, relative humidity, non-condensing	

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User's Manual

PoE Switch

FSD-504HP

www.PLANET.com.tw

4-Port 10/100Mbps 802.3af/at PoE + 1-Port 10/100Mbps Desktop Switch



PLANET Technology Corp.
2351-AK3150-003

PoE | 802.3at End-Span Mid-Span 802.3af | 30W Per Port | 15.4w per port | 10M 100M | Metal Made

8. Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQ resource on PLANET Website first to check if it could solve your issue. If you need more support information, please contact PLANET switch support team.

PLANET online FAQ:
http://www.planet.com.tw/en/support/faq.php?type=1

Switch support team mail address:
support_switch@planet.com.tw

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