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User Guide

dahua PFS4226-24ET-240 Hardened Optical and Electrical Aggregation Switch User Guide

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PFS4226-24ET-240 Hardened Optical and Electrical Aggregation Switch

Product Information

Specifications

- Product: Ethernet Switch (Hardened Optical & Electrical Aggregation Switch)
 - Manufacturer: ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.
 - Version: V1.0.3
 - Release Time: June 2025
-

Product Usage Instructions

Safety Instructions

Before using the device, familiarize yourself with the safety instructions provided in the manual to prevent any potential hazards or risks.

Installation

1. Read the manual carefully to understand the hardware components and installation steps.
2. Ensure proper wiring following the guidelines provided in the manual.
3. Consider the environment for installation to maintain optimal performance.

Initial Setup

1. Connect the necessary cables according to the designated ports on the switch.
2. Power on the device and follow the quick start guide for initial configuration.
3. Access the webpage interface using the provided password for further customization.

Maintenance

Regularly check for updates on the official website to ensure your device is running on the latest software version for optimal performance.

FAQ

Q: What should I do if I encounter difficulties during installation?

A: If you face challenges during installation, refer to the troubleshooting section of the manual or contact customer service for assistance.

Q: How often should I update the device software?

A: It is recommended to check for software updates periodically to benefit from new features and security enhancements. Follow the instructions in the manual for software update procedures.

[View Fullscreen](#)

Ethernet Switch (Hardened Optical & Electrical Aggregation Switch) Quick Start Guide

ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.

V1.0.3

Foreword

Quick Start Guide

General

This manual mainly introduces the hardware, installation, and wiring steps of the Hardened Optical & Electrical Aggregation Switch (hereinafter referred to as “the device”). Read carefully before using the device, and keep the manual safe for future reference.

Safety Instructions

The following categorized signal words with defined meaning might appear in the manual.

Signal Words

Meaning

Indicates a high potential hazard which, if not avoided, will result in death or serious injury.

Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.

Indicates a potential risk which, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result.

Provides methods to help you solve a problem or save you time.

Provides additional information as the emphasis and supplement to the text.

Revision History

Version V1.0.3

V1.0.2 V1.0.1 V1.0.0

Revision Content

Updated the content of the GND cable.

Updated the quick operation.

Release Time June 2025

Updated the figure of the console. Updated the password of the webpage.

Updated the initializing and adding the device.

First release.

March 2025

January 2024 October 2023

Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, audio, fingerprints, and license plate number. You need to be in compliance with your local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures which include but are not limited to:

Providing clear and visible

I

Quick Start Guide identification to inform people of the existence of the surveillance area and provide required contact information.

About the Manual

The manual is for reference only. Slight differences might be found between the manual and the product.

We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.

The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.

All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.

There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.

Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.

All trademarks, registered trademarks and company names in the manual are properties of their respective owners.

Please visit our website, contact the supplier or customer service if any problems occur while using the device.

If there is any uncertainty or controversy, we reserve the right of final explanation.

II

Quick Start Guide

Important Safeguards and Warnings

This section introduces content covering the proper handling of the device, hazard prevention, and prevention of property damage. Read carefully before using the device, and comply with the guidelines when using it.

Transportation Requirements

Transport the device under allowed humidity and temperature conditions.

Storage Requirements

Store the device under allowed humidity and temperature conditions.

Installation Requirements

Do not connect the power adapter to the device while the adapter is powered on. Strictly comply with the local electrical safety code and standards. Make sure that the ambient voltage is stable and meets the power supply requirements of the device. Personnel working at heights must take all necessary measures to ensure personal safety including wearing a helmet and safety belts. Please follow the electrical requirements to power the device.

Following are the requirements for selecting a power adapter. The power supply must conform to the requirements of IEC 60950-1 and IEC 62368-1 standards. The voltage must meet the SELV (Safety Extra Low Voltage) requirements and not exceed

ES-1 standards. When the power of the device does not exceed 100 W, the power supply must meet LPS

requirements and be no higher than PS2. We recommend using the power adapter provided with the device. When selecting the power adapter, the power supply requirements (such as rated voltage) are subject to the device label.

Do not place the device in a place exposed to sunlight or near heat sources. Keep the device away from dampness, dust, and soot. Put the device in a well-ventilated place,

and do not block its ventilation. When installing the device, make sure that the power plug can be easily reached to cut off the power. Use an adapter or cabinet power supply provided by the manufacturer. Do not connect the device to two or more kinds of power supplies, to avoid damage to the device.

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Quick Start Guide

The device is a class I electrical appliance. Make sure that the power supply of the device is connected to a power socket with protective earthing.

Voltage stabilizer and lightning surge protector are optional depending on the actual power supply on site and the ambient environment.

To ensure heat dissipation, the gap between the device and the surrounding area should not be less than 10 cm on the sides and 10 cm on top of the device.

When installing the device, make sure that the power plug and appliance coupler can be easily reached to cut off power.

Operation Requirements

The device or remote control contains button batteries. Do not swallow the batteries due to the risk of chemical burns.

Possible result: The swallowed button battery can cause serious internal burns and death within 2 hours.

Preventive measures (including but not limited to):

Keep new and used batteries out of reach of children.

If the battery compartment is not securely closed, stop using the product immediately and keep out of reach of children.

Seek immediate medical attention if a battery is believed to be swallowed or inserted inside any part of the body.

Battery Pack Precautions

Preventive measures (including but not limited to):

Do not transport, store or use the batteries in high altitudes with low pressure and environments with extremely high and low temperatures.

Do not dispose the batteries in fire or a hot oven, or mechanically crush or cut the batteries to avoid an explosion.

Do not leave the batteries in environments with extremely high temperatures to avoid explosions and leakage of flammable liquid or gas.

Do not subject the batteries to extremely low air pressure to avoid explosions and the leakage of flammable liquid or gas.

Operating the device in a domestic environment may cause radio interference. Do not disassemble the device without professional instruction. Operate the device within the rated range of power input and output. Make sure that the power supply is correct before use. Make sure the device is powered off before disassembling wires to avoid personal injury. Do not unplug the power cord on the side of the device while the adapter is powered on.

Use the device under allowed humidity and temperature conditions.

Do not drop or splash liquid onto the device, and make sure that there is no object filled with liquid on the device to prevent liquid from flowing into it.

Operating temperature: 20 °C to +55 °C (4 °F to +131 °F).

In a domestic environment this may cause radio interference in which case you may be required to take adequate measures.

IV

Quick Start Guide Do not block the ventilator of the device with objects, such as a newspaper, table cloth or

curtain. Do not place an open flame on the device, such as a lit candle. This is a class 1 laser device. You can only insert modules that meet the requirements of class 1 lasers.

Maintenance Requirements

Replacing unwanted batteries with the wrong type of new batteries might result in explosion. Preventive measures (including but not limited to): Replace unwanted batteries with new batteries of the same type and model to avoid the risk of

fire and explosion. Dispose of the old batteries as instructed. Power off the device before maintenance.

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1 Overview

Quick Start Guide

1.1 Introduction

The device is a hardened switch. Equipped with a high-performance switching engine and large buffer memory, it features low transmission delay and high reliability. With dual-power redundant backup, it can work in environments that range from 20°C to 55°C (4°F to +131°F). With protection against overvoltage, EMC and overcurrent from power input terminals, the device effectively resists interference from static electricity, lightning, and pulses. In addition, through cloud management, webpage management, SNMP (Simple Network Management Protocol), and other functions, the device can be remotely managed.

The device is applicable in different scenarios, including buildings, homes, factories and

offices.

Cloud management refers to managing this Device through the DoLink apps and webpages. Scan the QR code in the packaging box to learn how to perform cloud management operations.

1.2 Features

Features mobile management by app. Supports network topology visualization. Supports one-stop maintenance. All gigabit ports, and the uplink ports are 10 gigabit optical ports. Supports STP/RSTP. IEEE802.1Q-based VLAN configuration. Static link aggregation and LACP. Graphical web management with simple and easy operation. Supports dual-power redundancy. EMC high protection design. Desktop and rack mount.

1

2 Port and Indicator

Quick Start Guide

2.1 Front Panel

The following figure is for reference only, and might differ from the actual device. Figure 2-1 Front panel(electrical aggregation)

Table 2-1 Front panel description

No.

Name

Description

1

RJ-45 port

10/100/1000 Mbps self-adaptive Ethernet port.

2

SFP + Port

Supports 1/10 Gbps.

Press and hold for over 5 seconds, wait until all the indicators

3

Reset button

are solid on, and then release. The device recovers to the

default settings.

4

Console port

Equipment debugging serial port.

5

System (SYS) indicator

Flashes: The system works normally. Off: The system is not working normally.

6

Power (PWR) indicator

On: Power on. Off: Power off.

7

Alarm (ALR) indicator

On: The device has an abnormal alarm. Off: The device has no abnormal alarm.

Uplink SFP+

On: Optical ports connected to device.

8

optical port status Off: Optical ports not connected to device.

indicator

Flashes: Data transmission is in progress.

Solid green: The port is connected to the device, and the

transmission rate is negotiated to 1000 Mbps.

9

Green flashes: Data transmission is in progress.

Port status

Off: Not connected to device.

indicator

Solid yellow: The port is connected to the device, and the

transmission rate is negotiated to 10/100 Mbps.

10

Yellow flashes: Data transmission is in progress.

Off: No data transmission in progress.

2

Figure 2-2 Front panel (optical aggregation)

Quick Start Guide

Table 2-2 Front panel description

No.

Name

Description

1

SFP Port

Supports 100/1000 Mbps.

2

RJ-45 port

10/100/1000 Mbps self-adaptive Ethernet port.

3

SFP + Port

Supports 1/10 Gbps.

Press and hold for over 5 seconds, wait until all the indicators

4

Reset button

are solid on, and then release. The device recovers to the

default settings.

5

Console port

Equipment debugging serial port.

6

System (SYS) indicator

Flashes: The system works normally. Off: The system is not working normally.

7

Power (PWR) indicator

On: Power on. Off: Power off.

8

Alarm (ALR) indicator

On: The device has an abnormal alarm. Off: The device has no abnormal alarm.

Uplink SFP+

On: Optical ports connected to device.

9

optical port status Off: Optical ports not connected to device.

indicator

Flashes: Data transmission is in progress.

Solid green: The port is connected to the device, and the transmission rate is negotiated to 1000 Mbps.

10

Green flashes: Data transmission is in progress.

Port status

Off: Not connected to device.

indicator

Solid yellow: The port is connected to the device, and the transmission rate is negotiated to 10/100 Mbps.

11

Yellow flashes: Data transmission is in progress.

Off: No data transmission in progress.

Solid on: Connected to the device.

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SFP optical port status indicator

Flashes: Data transmission is in progress. Off: Not connected to the device.

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Quick Start Guide

2.2 Rear Panel

The following figure is for reference only, and might differ from the actual product. Figure

2-3 Rear panel (electrical aggregation)

Table 2-3 Rear panel description (electrical aggregation)

No.

Description

1

Grounding terminal.

2

Power port, supporting 100240 VAC.

Figure 2-4 Rear panel (optical aggregation)

Table 2-4 Rear panel description(optical aggregation)

No.

Description

1

Grounding terminal.

2

Power port, supporting 100240 VAC.

4

3 Installation

3.1 Preparations

Select a proper installation method according to your actual needs. Make sure that the working platform is stable and steady. Leave about 10 cm space for heat dissipation to ensure good ventilation.

3.2 Desktop Mount

The switch supports desktop mount. Place it on a steady and stable desktop.

3.3 Rack Mount

Procedure

Step 1

Attach the mounting bracket to the device side panel (one on each side) and secure it with the screws provided with the rack.

Figure 3-1 Install racket

Step 2 Install the device to the rack with screws.

5

Figure 3-2 Install device

Quick Start Guide

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4 Wiring

Quick Start Guide

4.1 Connecting GND Cable

There is a GND screw on the device cover board for the GND cable, which is called enclosure GND. Connect one end of the GND cable with the cold-pressed terminal, and

then fix it on the enclosure GND with the GND screw. The other end of the GND cable should be reliably connected to the ground.

Normal GND of the device is the important guarantee for device lightning protection and antiinterference. You should connect the GND cable before powering on the device, and then power off the device before disconnecting the GND cable.

Use a yellow-green protective grounding wire with the cross-sectional area of at least 4 mm² and the grounding resistance of no more than 4 .

4.2 Connecting SFP Ethernet Port

Prerequisites

We recommend wearing antistatic gloves before installing SFP module, and then wear antistatic wrist, and confirm the antistatic wrist is well linked to the surface of the gloves.

Procedure

Step 1 Step 2

Lift the handle of SFP module upward vertically and make it get stuck to the top hook. Hold the SFP module on both sides and push it gently into the SFP slot till the SFP module is firmly connected to the slot (You can feel that both the top and bottom spring strip of the SFP module are firmly stuck with the SFP slot).

The device uses laser to transmit signal via optical fiber cable. The laser conforms to the requirements of level 1 laser products. To avoid injury upon eyes, do not look at the 1000 Base-X optical port directly when the device is powered on.

When installing the SFP optical module, do not touch the gold finger of the SFP optical module.

Do not remove the dust plug of the SFP optical module before connecting the optical port.

Do not directly insert the SFP optical module with the optical fiber inserted into the slot. Unplug the optical fiber before installing it.

Figure 4-1 SFP module structure

Quick Start Guide

Figure 4-2 SFP module installation

4.3 Connecting Ethernet Port

Ethernet port adopts standard RJ45 port. Equipped with self-adaptation function, it can be automatically configured to full duplex/half-duplex operation mode, and supports MDI/MDI-X selfrecognition function of the cable, which means that the switch can use cross-over cable or straightthrough cable to connect terminal device to network device.

Figure 4-3 Ethernet port pin number

The cable connection of RJ45 connector conforms to the standard 568B (1-orange&white, 2orange, 3-green&white, 4-blue, 5-blue&white, 6-green, 7-brown&white, 8-brown).

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Figure 4-4 Pin description

Quick Start Guide

4.4 Connecting Console Port

The switch console port and computer controlling 9-pin serial port are connected with RJ-45 DB9 cable. You can call the console software of the device by operating the superterminal software of the Windows system for device configuration, maintenance, and management.

Figure 4-5 Console port

One end of RJ45 DB9 cable is RJ45 connector, which needs to be inserted into the console port of the device. And the other end is DB9 plug, which needs to be inserted into the computer controlling 9-pin serial port.

Figure 4-6 Cable sequence of RJ45 DB9

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DB9 pin 3 2 5

Table 4-1 Pin description

RJ45 pin 6 3 4/5

Signal RXD TXD GND

Quick Start Guide

Description Receiving data Transmitting data GND

4.5 Connecting Power Cord

Background Information

Make sure that the switch is reliably grounded before connecting the power cord.

Procedure

Step 1 Connect one end of the power cord into the power jack of the device accurately.

Step 2 Connect the other end of the power cord to the external power socket.

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5 Quick Operation

Quick Start Guide

5.1 Logging in to the Webpage

You can log in to the webpage to perform operations on the device and manage it.

For first-time login, follow the on-screen prompts to set your password. Table 5-1 Default factory settings

Parameter IP address Username Password

Description 192.168.1.1 10/255.255.255.0 admin You need to set the password for first-time login.

5.2 Restoring the Device to Its Factory Settings

There are 2 ways to restore the device to its factory settings.

Press and hold the Reset button for 5 seconds. Log in to the webpage of the device or

use command lines, and then perform the required steps for factory reset. For information on these steps, see the user manual or the command line reference manual of the device.

Quick Start Guide

Appendix 1 Security Commitment and Recommendation

Dahua Vision Technology Co., Ltd. (hereinafter referred to as “Dahua”) attaches great importance to cybersecurity and privacy protection, and continues to invest special funds to comprehensively improve the security awareness and capabilities of Dahua employees and provide adequate security for products. Dahua has established a professional security team to provide full life cycle security empowerment and control for product design, development, testing, production, delivery and maintenance. While adhering to the principle of minimizing data collection, minimizing services, prohibiting backdoor implantation, and removing unnecessary and insecure services (such as Telnet), Dahua products continue to introduce innovative security technologies, and strive to improve the product security assurance capabilities, providing global users with security alarm and 24/7 security incident response services to better protect users’ security rights and interests. At the same time, Dahua encourages users, partners, suppliers, government agencies, industry organizations and independent researchers to report any potential risks or vulnerabilities discovered on Dahua devices to Dahua PSIRT, for specific reporting methods, please refer to the cyber security section of Dahua official website.

Product security requires not only the continuous attention and efforts of manufacturers in R&D, production, and delivery, but also the active participation of users that can help improve the environment and methods of product usage, so as to better ensure the security of products after they are put into use. For this reason, we recommend that users safely use the device, including but not limited to:

Account Management

1. Use complex passwords

Please refer to the following suggestions to set passwords:

The length should not be less than 8 characters; Include at least two types of characters: upper and lower case letters, numbers and symbols; Do not contain the

account name or the account name in reverse order; Do not use continuous characters, such as 123, abc, etc.; Do not use repeating characters, such as 111, aaa, etc. 2.

Change passwords periodically

It is recommended to periodically change the device password to reduce the risk of being guessed or cracked. 3. Allocate accounts and permissions appropriately

Appropriately add users based on service and management requirements and assign minimum permission sets to users. 4. Enable account lockout function

The account lockout function is enabled by default. You are advised to keep it enabled to protect account security. After multiple failed password attempts, the corresponding account and source IP address will be locked. 5. Set and update password reset information in a timely manner

Dahua device supports password reset function. To reduce the risk of this function being used by threat actors, if there is any change in the information, please modify it in time.

When setting security questions, it is recommended not to use easily guessed answers.

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Service Configuration

Quick Start Guide

1. Enable HTTPS

It is recommended that you enable HTTPS to access Web services through secure channels. 2. Encrypted transmission of audio and video

If your audio and video data contents are very important or sensitive, we recommend you to use encrypted transmission function in order to reduce the risk of your audio and video data being eavesdropped during transmission. 3. Turn off non-essential services and use safe mode

If not needed, it is recommended to turn off some services such as SSH, SNMP, SMTP, UPnP, AP hotspot etc., to reduce the attack surfaces.

If necessary, it is highly recommended to choose safe modes, including but not limited to the following services:

SNMP: Choose SNMP v3, and set up strong encryption and authentication passwords.

SMTP: Choose TLS to access mailbox server. FTP: Choose SFTP, and set up complex passwords. AP hotspot: Choose WPA2-PSK encryption mode, and set up complex

passwords. 4. Change HTTP and other default service ports

It is recommended that you change the default port of HTTP and other services to any port between 1024 and 65535 to reduce the risk of being guessed by threat actors.

Network Configuration

1. Enable Allowlist

It is recommended that you turn on the allowlist function, and only allow IP in the allowlist to access the device. Therefore, please be sure to add your computer IP address and supporting device IP address to the allowlist. 2. MAC address binding

It is recommended that you bind the IP address of the gateway to the MAC address on the device to reduce the risk of ARP spoofing. 3. Build a secure network environment

In order to better ensure the security of devices and reduce potential cyber risks, the following are recommended:

Disable the port mapping function of the router to avoid direct access to the intranet devices from external network;

According to the actual network needs, partition the network: if there is no communication demand between the two subnets, it is recommended to use VLAN, gateway and other methods to partition the network to achieve network isolation; Establish 802.1x access authentication system to reduce the risk of illegal terminal access to the private network.

Security Auditing

1. Check online users

It is recommended to check online users regularly to identify illegal users. 2. Check device log

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Quick Start Guide By viewing logs, you can learn about the IP addresses that attempt to log in to the device and key operations of the logged users. 3. Configure network log

Due to the limited storage capacity of devices, the stored log is limited. If you need to save the log for a long time, it is recommended to enable the network log function to ensure that the critical logs are synchronized to the network log server for tracing.


Software Security

- 1. Update firmware in time According to the industry standard operating specifications, the firmware of devices needs to be updated to the latest version in time in order to ensure that the device has the latest functions and security. If the device is connected to the public network, it is recommended to enable the online upgrade automatic detection function, so as to obtain the firmware update information released by the manufacturer in a timely manner.
- 2. Update client software in time We recommend you to download and use the latest client software.

Physical Protection

It is recommended that you carry out physical protection for devices (especially storage devices), such as placing the device in a dedicated machine room and cabinet, and having access control and key management in place to prevent unauthorized personnel from damaging hardware and other peripheral equipment (e.g. USB flash disk, serial port).

Documents / Resources

	<p>dahua PFS4226-24ET-240 Hardened Optical and Electrical Aggregation Switch [pdf] User Guide</p> <p>PFS4226-24ET-240 Hardened Optical and Electrical Aggregation Switch, PFS4226-24ET-240, Hardened Optical and Electrical Aggregation Switch, Electrical Aggregation Switch, Aggregation Switch, Switch</p>
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References

- [User Manual](#)

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◆ Aggregation Switch, Dahua, Electrical Aggregation Switch, Hardened Optical and Electrical Aggregation Switch, PFS4226-24ET-240, PFS4226-24ET-240 Hardened Optical and Electrical Aggregation Switch, switch

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