DH-PFM889 Series Wireless Device
Quick Config Manual

V1.0.0

Zhejiang Dahua Vision Technology Co., LTD

Important Safeguards and Warnings

Please read the following safeguards and warnings carefully before using the product in order to avoid damages and losses.

Attentions:

- Do not expose the device to lampblack, steam or dust. Otherwise it may cause fire or electric shock.
- Do not install the device at position exposed to sunlight or in high temperature. Temperature rise in device may cause fire.
- Do not expose the device to humid environment. Otherwise it may cause fire.
- The device must be installed on solid and flat surface in order to guarantee safety under load and earthquake. Otherwise, it may cause device to fall off or turnover.
- Do not place the device on carpet or quilt.
- Do not block air vent of the device or ventilation around the device. Otherwise, temperature in device will rise and may cause fire.
- Do not place any object on the device.
- Do not disassemble the device without professional instruction.

Warning:

- Please use battery properly to avoid fire, explosion and other dangers.
- Please replace used battery with battery of the same type.
- Do not use power line other than the one specified. Please use it properly. Otherwise, it may cause fire or electric shock.
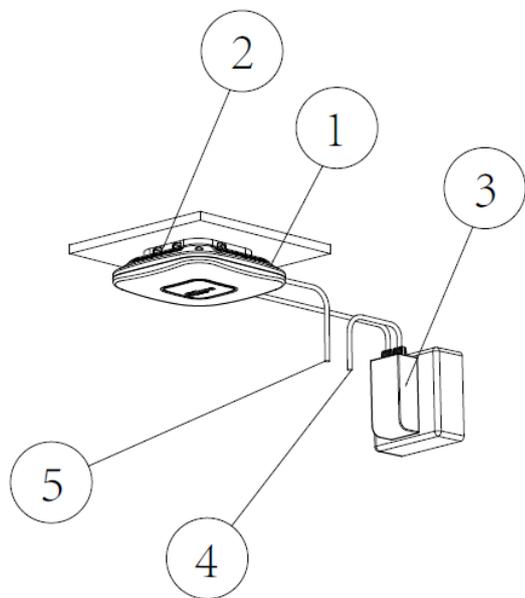
Special Announcement:

- This manual is for reference only.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.
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1 Cable Connection

Please refer to Figure 1-1 for the connection of DH-PFM889.

1.DH-PFM889-I/IM wireless equipment
2.Brackets of equipment
3.POE power supply
4.Network interface of POE power supply. Used for connecting camera
5.Network interface of equipment. Used for connecting cameras

Note:
DH-PFM889-I/IM is ceiling installation, please note its installation height.

Figure 1-1

Please refer to sheet 1-1 for more details about the port.

Device model	Port	Port name	Connection and function
DH-PFM889-I	3 RJ45 ports	PoE	Connect to the "PoE" on the PoE power device via twisted pair, and provide power and data transmission to the device.
		LAN	"LAN" port can be used to connect to IP camera, you can select any LAN port for device debugging.
DH-PFM889-IM	2 RJ45 ports	PoE	Connect to the "PoE" on the PoE power device via twisted pair, and provide power and data transmission to the device.
		LAN	"LAN" port can be used to connect to IP camera, you can select any LAN port for device debugging.

Sheet 1-1

2 Typical Working Mode

The product can provide excellent wireless signal coverage, which can be widely applied in various indoor scenes, such as office, meeting room, coffee shop, restaurant, hospital lobby, airport hall and other areas with high people density.

● **Scene Application**

Figure 2-1

3 Device Config

Precondition

Please refer to the cable connection figure to connect the device to mainframe and power it on.

Operation Steps

It is to configure access point device via the following steps, the terminal users can be connected and communicated after config is completed.

Step 1

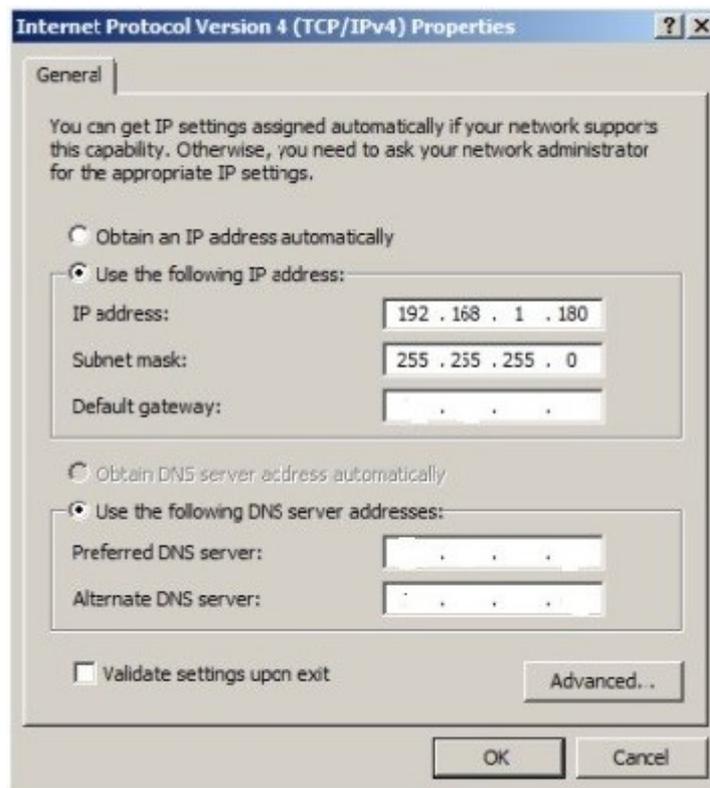Configure the computer IP address as the address which is not used in the LAN, such as 192.168.1.180.

Figure 3-1

Step 2

Use the browser to log in the device, the login information is shown as below:

	DH-PFM889-I	DH-PFM889-IM
IP address	192.168.1.1	192.168.1.1
User name	Root	Root
Password	Admin	Admin

Step 3

Log in DH-PFM889-I and the interface is shown as below:

Figure 3-2

Step 4

Click the wizard column and the interface is shown as below. Here you can modify the router password and select interface language.

Figure 3-3

Step 5

Click "Next" and the interface can be used to set the network working mode of the device. Please use bridge mode if the device is used as access point, besides, please modify LAN IP in order to avoid conflict. The device can be used as a router after selecting route mode.

Figure 3-4

Step 6

Click "Next" and the interface is used to set the wireless mode of the device. The ESSID of device is used for client connection, the mode is selected as access point, the channel is advised to select auto, and it is also advised to use WPA2-PSK encryption, the default password is 1234567890abc;

Figure 3-5

Attention:

● Please configure different "channel" for different access points when it is deployed with multi access ponit, which is to avoid the disturbance between devices.

● Please turn off TDMA function when it is connected to general clients such as laptop, mobile phone and wireless camera.

4 Appendix 1 Technical Specifications

	Item	DH-PFM889-I	DH-PFM889-IM
Wireless	Standard	IEEE802.11 b/g/n（2T2R）	IEEE802.11 a/n/ac（2T2R） IEEE802.11 b/g/n（2T2R）
	Working frequency	2400~2500MHz （support frequency extension, extension range 2312~2732MHz） 5745~5825MHz （support frequency extension, extension range 4900~6100MHz）(only supported by DH-PFM889-IM)	
	Antenna	Built-in Omnidirectional antenna: gain 3dBi	
	Output power	27dBm	
	Receive sensitivity	11b : -97dBm@1Mbps 11n : -72dBm@MCS7	11b：-93dBm@1Mbps 11g： -92dBm@6Mbps 11a：-91dBm@6Mbps 11n：-74dBm@MCS7 11ac：-67dBm@MCS9
	Max transmission speed	11n：300Mbps(40M channel width)	11ac：867Mbps（80M channel width） 11n：300Mbps(40M channel width)
Hardware	Working voltage	48V PoE or 12V DC	48V PoE or 48V DC
	Port	3×10/100M Base-TX (Cat. 5/5E，RJ-45) network port	2×10/100/1000M Base-TX (Cat. 5/5E， RJ-45) network port
	Working temperature	-30℃～+65℃	
	Storage temperature	-40℃～+85℃	
	Working humidity	5%～95%RH non-condensation	
	Dimension	150*150*31.6mm	
Software	Encryption mode	WPA-PSK/WPA2-PSK	

Network mode	Route/bridge	
Security mechanism	IP/MAC address filter, conceal network name, port isolation.	
Network protocol	TCP/UDP/ARP/ICMP/DHCP/HTTP/NTP	
TDMA enhance	Support（extend private communication protocol）	
Auto ACK timing adjust	Support（auto adapt to the change of transmission distance, always make the performance in the optimal state）	
Management and log	NTP，Syslog，Telnet，AC	
Webpage config management	Support webpage config	
Firmware update	Support Firmware webpage update	
Bandwidth flexible config	20M/40MHz	20M/40M/80MHz

Note

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