

Dahua 5G Wireless Equipment Quick Configuration Manual



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Important Safeguards and Warnings

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

Note:

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 guilt.

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.

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If there is any uncertainty or controversy, please refer to the final explanation of us.

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Before Start

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Update and revision

- This user's manual for reference only. Slight difference may be found in the user interface.
- All the designs and software here are subject to change without prior written notice.
- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website or contact your local retailer for more information.

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1 Line Connection

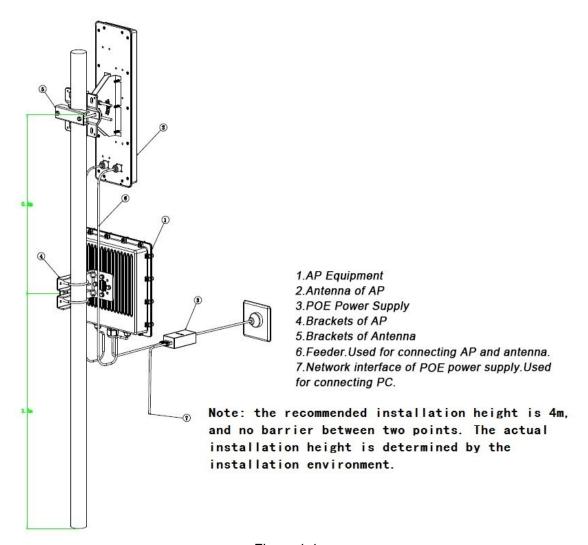


Figure 1-1



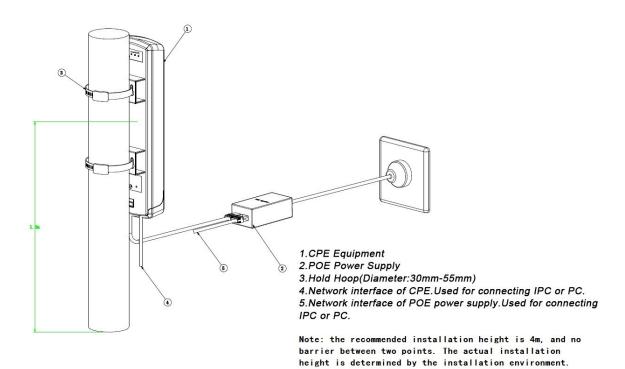


Figure 1-2 Please refer to the following sheet for detailed information.

Sheet 1-1

Officer 1-1					
Device	Port	Port	Connection and Function		
Model		Name			
DH-PFM881	Two RJ45 ports	POE	Provide DH-PFM881 with 24V power supply and data transmission by connecting twisted-pair with POE port.		
		LAN2	Can be used to connect IP camera just like "LAN" port, can choose either LAN port to do the device debugging.		
DH-PFM880	One RJ45 port	None	Provide DH-PFM880 with 48V power and data transmission by connecting network cable with "POE" port on POE power. The "LAN"port on POE power can be connected to switch or other devices, and used as debugging port as well.		



2 Typical Working Mode

The typical working modes for DH-PFM88X series are: point-to-point access mode, point-to-multipoint access mode and wireless coverage blind angle adjustment mode.

• Point-to-point access mode

Two DH-PFM88X devices, one is used as an access point, the other as a client, this mode can reach max system throughput rate, which can be applied to point-to-point scene.

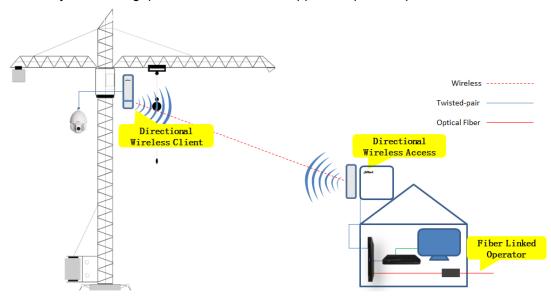


Figure 2-1

• Point-to- multipoint access mode

One DH-PFM880 device is used as access point while several other DH-PFM881 devices used as client, this mode can support several data links, but total system throughput rate is lower than point-to-point mode, it can be applied to one-to-many centralized wireless coverage scene.

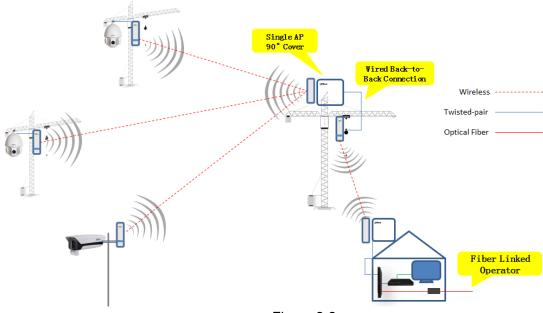


Figure 2-2



Wireless coverage blind angle adjustment mode
 It can realize different angle adjustment by back-to-back wired connection between two
 devices, which can be applied to the scene where individual point can't be directly covered
 by central point. It is generally recommended to use double CPE to realize the function.

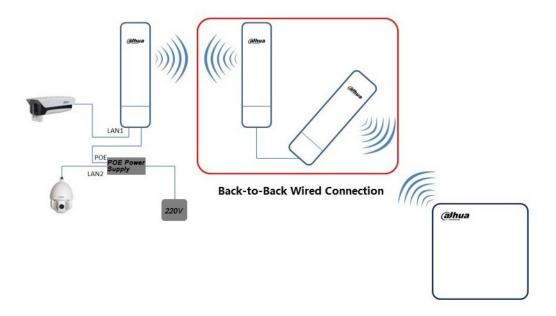


Figure 2-3

Attention:

When the server is deployed with many APs, make sure different AP "access point" mode device should be configured with different "frequency/channel" to avoid interference between devices.



3 Device Configuration

Precondition

Refer to Figure 1-1 and Figure 1-2, connect equipment with configuration host and power on.

Operation Steps

Step 1 Configure host IP address with "192.168.1.x" (x can't be 36) (For example 192.168.1.180)

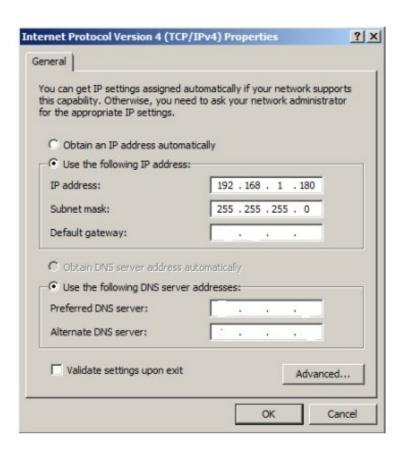


Figure 3-1

Step 2 Enter the default IP address **192.168.1.36 of** DH-PFM88X equipment in the browser, the system will display login page.





Figure 3-2

Step 3 Enter user name and password (the default of both user name and password is admin), click "login". The system displays the page of status display, which includes the equipment's working condition, current setting, software version and some other basic information.



Figure 3-3

Step 4 Click "setup wizard" on the left, which can help users to configure the equipment very quickly, such as network configuration, wireless mode and etc. You can also enter the corresponding configuration page by clicking the menu on the left side of the page. It will display basic network parameter configuration. The equipment default configuration is "Bridge Mode", the IP address of LAN port is "192.168.1.36", so the users are strongly advised to modify the IP address as soon as they login the equipment.

Note:

The equipment IP is unique within the same LAN, so pay attention to modify the IP address according to the design and make sure IP won't conflict within the same

network.



Figure 3-4

Step 5 Click "Next" and it will display basic wireless parameter configuration and wireless encryption options. Two most commonly used wireless modes of DH-PFM88X equipment are "Client" and "Access Point". Within the same LAN, the server should be in accordance with wireless encryption option, network name option and password option demand of client wireless device.

Note:

Under "Station" mode, the equipment which connects camera end is generally set as client mode.

Under "Access Point" mode, server DH-PFM880 equipment is generally set as access point mode and connected to monitoring room.

When there are several access points in the same area, pay attention to setting different frequency for different DH-PFM880.

ahua	Wireless Video Transmission BaseStation
TDMA	Wireless
Status	Your current country code is Compliance Test, If you want to change country code, please click the wireless menus left side to change. This wizard page helps to set the basic wireless and wireless security, Please click the left "Wireless" menu for detail setting.
Wizard	This willard page helps to set the basic wheless and wheless security, hease dick the left wheless them for detail setting.
Wireless	Wireless Mode: Access Point ▼ SSID: DaHua
Network	Output Power: High
Advanced	Frequency, MHz: 5745 MHz (149) Channel Width: 40+ MHz
System	Channel Width: 40+ MHz ▼ Wireless Security(?): WPA ▼
Tools	WPA2-PSK Key: Show
AC NMS	Last Next

Figure 3-5

Step 6 Click "Next" and it will display "Wizard-Finish" page.



Figure 3-6

Step 7 Click "Change" button to save all the settings, then click "Apply" button to make your settings valid. You can also click "Last" to modify previous configuration.



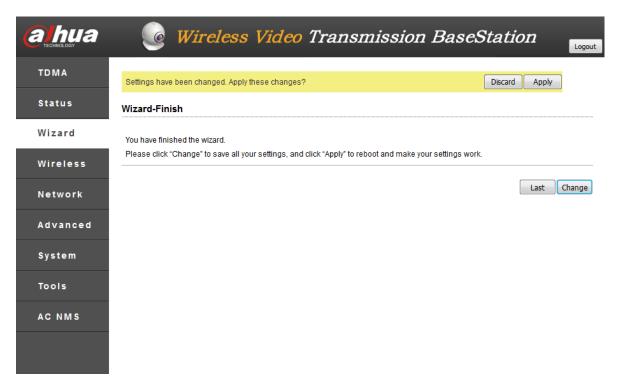


Figure 3-7

Step 8 When Wireless Mode is Station, Client's frequency limit function can increase connection speed. Click "Enable".

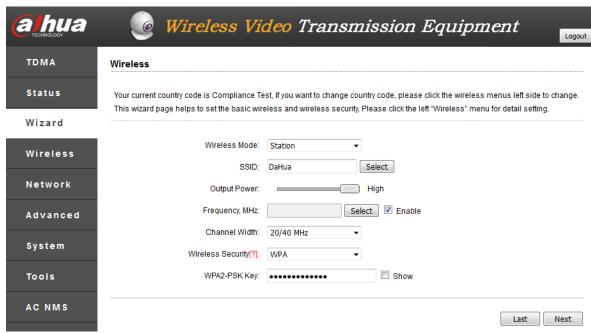


Figure 3-8

Step 9 Select the following frequency. The range of the frequency is determined by the Country code. Select the required frequency in the last step, click select.

Frequency Scan List Select All ▼ 5270 MHz ▼ 5275 MHz √ 5265 MHz ▼ 5280 MHz 5285 MHz 5290 MHz 5295 MHz 5300 MHz 5305 MHz 5310 MHz 5315 MHz 5320 MHz 5500 MHz 5505 MHz 5510 MHz 5515 MHz 5520 MHz 5525 MHz 5530 MHz 5535 MHz 5555 MHz 5540 MHz 5545 MHz 5550 MHz 5560 MHz 5565 MHz 5570 MHz 5575 MHz 5580 MHz 5660 MHz 5665 MHz 5670 MHz 5675 MHz 5680 MHz 5685 MHz 5690 MHz 5695 MHz 5740 MHz 5700 MHz 5735 MHz 5745 MHz 5760 MHz 5750 MHz 5755 MHz 5765 MHz 5775 MHz 5780 MHz 5770 MHz 5785 MHz 5790 MHz 5795 MHz 5800 MHz 5805 MHz 5810 MHz 5815 MHz 5820 MHz 5825 MHz 5830 MHz 5835 MHz 5840 MHz Select Cancel

Figure 3-9

Step 10 Click "Next".

ahua	Wireless Vid	deo Transmission Equipment
TDMA	Wireless	
Status	· ·	st, If you want to change country code, please click the wireless menus left side to change. less and wireless security, Please click the left "Wireless" menu for detail setting.
Wizard		indicated decarling, include circumstance in the control of the circumstance in the ci
Wireless	Wireless Mode:	Station
Network	SSID: Output Power:	DaHua Select High
Advanced	Frequency, MHz:	5265,5270,5275,52 Select
System	Channel Width: Wireless Security[?]:	20/40 MHz ▼ WPA ▼
Tools	WPA2-PSK Key:	Show
AC NMS		

Figure 3-10



Step 11 Click "Change" button to save all the settings, then click "Apply" button to make your settings valid. You can also click "Last" to modify previous configuration.

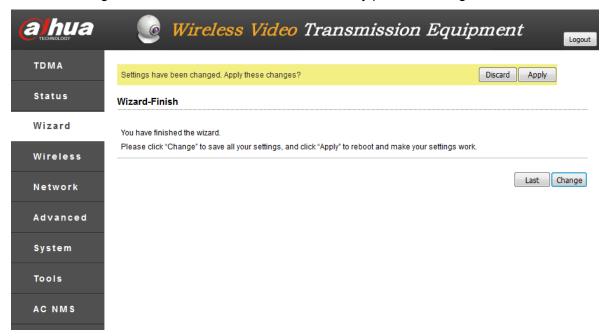


Figure 3-11



Appendix 1 Technical Specifications

Туре	Item	DH-PFM880	DH-PFM881		
	Standard	IEEE802.11 a/n			
	Working Frequency	USA(FCC): 5.725~5.825 GHz ISM band			
	Working Frequency	ETSI: 5.15~5.35 GHz; 5470~5725 MHz ISM band			
	Modulation Mode	802.11 a/n: OFDM			
	Antenna	External antenna: gain	Built-in antenna: gain 15dBi		
	Output Power	30dBm(MAX)	27dBm(MAX)		
	Receiving Sensitivity	-72dBm@65Mbps,	-72dBm@65Mbps,		
Mirologo	Receiving Sensitivity	-94dBm@6Mpbs	-94dBm@6Mpbs		
Wireless Technology	Optimal Transmission Distance	0-3KM 0-5KM			
	Wireless Authentication	FCC,CE			
	Wireless Direction Angle	Horizontal 90°, vertical 9°	Horizontal 40°, vertical 15°		
		11n: 300/270/216/162/108/54	Mbps		
		150/135/108/81/54/27Mbps			
	Transmission Rate	135/121.5/108/81/54/40.5/27	/13.5Mbps		
		130/117/104/78/52/39/26/13			
		65/58.5/52/39/26/19.5/13/6.5	•		
		11a: 54/48/36/24/18/12/9/6M	· · · · · · ·		
	Power	48V PoE	24V PoE		
	Power Consumption	MAX 15W	MAX 8W		
	Port	1*POE RJ45	1*POE RJ45、1*LAN RJ45		
			Wi-Fi status indicator light		
	Indicator Light	N/A	LAN port indicator light		
	maioatoi Ligitt	,, .	Power indicator light / Signa		
Hardware			intensity indicator light		
	Working Temperature	-30℃~+70℃ -30℃~+70℃			
	Storage Temperature	-40℃~+85℃			
	Working Humidity	5%~95%RH(no condensation)			
	Equipment Dimension(mm)	265×265×47.5mm	280×30×80mm		
	Equipment Weight	2.4Kg	0.45Kg		
	Protection Level	IP66	N/A		
	Encryption Way	WPA-PSK/WPA2/CCMP(AES)/TKIP			
	Network Mode	Route/Bridge			
	Working Mode	Access Point/Client/WDS AP/WDS client/WDS Repeater			
Software	Security Mechanism	IP/MAC address filtering, hide network name and etc.			
	Network Protocol	TCP/UDP/ARP/ICMP/DHCP/HTTP/NTP			
	TDMA Enhancement	Support (TDMA eliminate hidden nodes influence and			
		greatly improve one-to-many performance)			



Auto ACK timing Adjustment	Support (Auto optimize parameter within long-distance communication and make the performance optimal)
Management and Log	NTP, SNMP, Syslog, Telnet
Webpage Configuration Management	Support webpage configuration
Firmware Update	Support Firmware webpage update
Bandwidth Flexible Configuration	5M/10M/20M/40MHz

Appendix 2 Toxic or Hazardous Materials or Elements

Component	Toxic or Hazardous Materials or Elements					
Name	Pb	Hg	Cd	Cr VI	PBB	PBDE
Sheet Metal	0	0	0	0	0	0
Circuit Board Component	0	0	0	0	0	0
Device Case	0	0	0	0	0	0
Wire and AC adapter	0	0	0	0	0	0
Packing Components	0	0	0	0	0	0
Accessories	0	0	0	0	0	0

O: Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the IEC62321 standard.

X: Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the IEC62321 standard. During the environmental-friendly use period (EFUP) period, the toxic or hazardous substance or elements contained in products will not leak or mutate so that the use of these (substances or elements) will not result in any severe environmental pollution, any bodily injury or damage to any assets. The consumer is not authorized to process such kind of substances or elements, please return to the corresponding local



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authorities to process according to your local government statutes



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