# DH-PFM880/881

## 5.8G Wireless video transmission device

DH-PFM880

DH-PFM881

## Features

- Support outdoor temperature：-30℃~70℃,industrial design.
- Wireless coverage recommended range≤3km, max 5km
- Radio-frequency mouth anti-thunder reaches 15KV ESD
- Support auto ranging function, real time display straight line distance between client and base station.
- Support device auto reboot function
- 5G mode support 4920～6100Mhz

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- Support flow control, effectively control base station/client input/output flow control
- Support VLAN partition, realize virtual local network function, control broadcast storm
- Support 802.1x authentication method, effectively guarantee client access control, provide access safety.
- Support client priority setting, better dispatch each client when the mode is point-to-multipoint
- Support multiple channel option (5M/10M/20M/40M), effectively improve anti-interference and penetration capability

# DH-PFM880/881

## Specifications

| Type | Item | DH-PFM880 | DH-PFM881 |
|---|---|---|---|
| Wireless Technology | Standard | IEEE802.11 a/n | |
| | Working Frequency | USA(FCC): 5.725～5.825 GHz ISM band | |
| | | ETSI: 5.15～5.35 GHz；5470～5725 MHz ISM band | |
| | Modulation Mode | 802.11 a/n: OFDM | |
| | Antenna | External antenna：gain 16dBi | Built-in antenna：gain 15dBi |
| | Equivalent Output Power | +27dBm(@MCS0,11n) | ＋23dBm(@MCS0,11n) |
| | Receiving Sensitivity | -74dBm @ 65Mbps, -96dBm@1Mpbs | |
| | Optimal Transmission Distance | 0-3KM | 0-5KM |
| | Working Frequency Band | 5470-5825 MHz | |
| | Wireless Authentication | SRRC | |
| | Wireless Direction Angle | Horizontal 90°，vertical 12° | Horizontal 40°，vertical 15° |
| | Transmission Rate | 11n:13.5/15/27/30/40.5/45/54/60/81/90/108/120/121.5/135/150/162/180/216/240/270/300Mbps (40+MHz Channel width) | |
| | | 11n：130/117/104/78/65/58.5/52/39/26/19.5/13/6.5Mbps (20+MHz Channel width) | |
| | | 11a：54/48/36/24/18/12/9/6Mbps(self-adaption) | |
| Hardware | Power Module Port | 1*POE RJ45(IN: 220V, OUT: 24V/0.5A)、1*LAN RJ45 | |
| | Power Consumption | MAX 10W | MAX 8W |
| | Port | 1*POE RJ45 | 1*POE RJ45、1*LAN RJ45 |
| | Indicator Light | N/A | Wi-Fi status indicator light / LAN port indicator light / Power indicator light / Signal intensity indicator light |
| | Working Temperature | -30℃～+70℃ | |
| | Storage Temperature | -30℃～+80℃ | |
| | Working Humidity | 5%～95%RH( no condensation) | |
| | Equipment Dimension(mm) | 233×233×45mm | 280×30×80mm |
| | Antenna Dimension(mm) | 450×140×35 mm | N/A |

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| | | | |
|---|---|---|---|
| | Equipment Weight | 2.4Kg | 0.45Kg |
| | Antenna Weight | 1.26Kg | N/A |
| | Protection Level | IP66 | N/A |
| | Mast Diameter | 40mm~60mm | |
| Software | Encryption Way | WEP/WPA-PSK/WPA2/CCMP(AES)/TKIP | |
| | Network Mode | Route/Network Bridge | |
| | Working Mode | Access Point/Client/WDS AP/WDS client/WDS Repeater | |
| | 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 | |
| | Long-Distance Communication Throughput Rate | ≤40Mbps@3km | ≤30Mbps@5km |
| | Bandwidth Flexible Configuration | 5M/10M/20M/40MHz | |

# Networking Mode

## Point-to-Point Networking

For point-to-point communication, generally a DH-PFM880（or DH-PFM881）is set as access point, and the other DH-PFM881 is set as client, see Figure1-1 for more information.

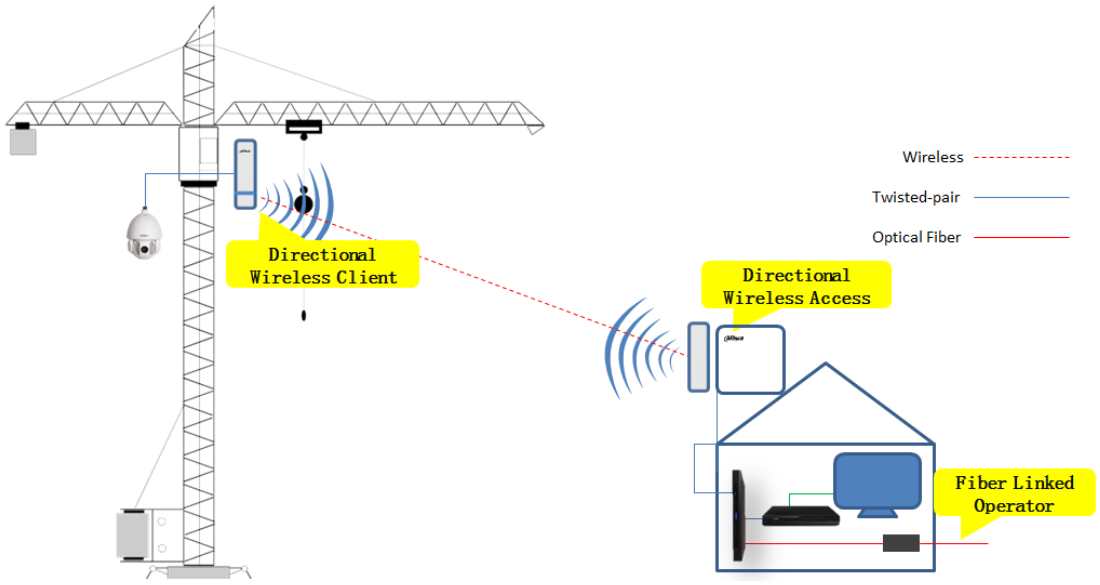


Figure 1-1

## Point-to-Multipoint Networking

For point-to-multipoint communication, generally adopt device DH-PFM880 as server, and it is set as access point (different “frequency/channel” should be set when there are several access points in order to prevent interference), DH-PFM881（or DH-PFM880）device is set as client, see Figure 1-2 for more information.

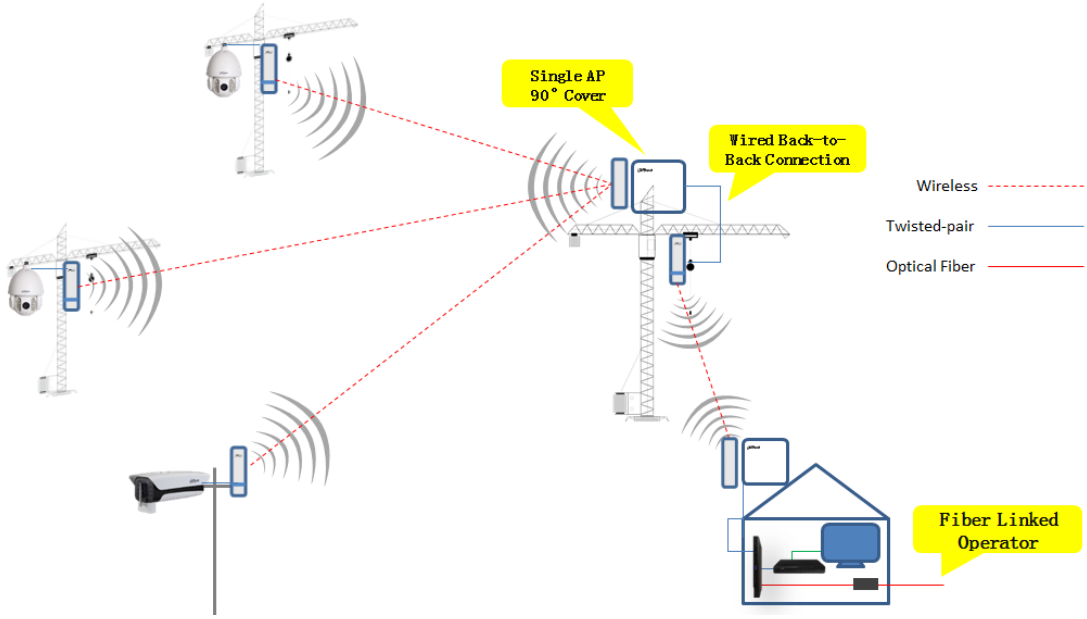


Figure 1-2

## Back-to-Back Angle Adjustment Network

For wireless coverage blind angle, cable connection for double devices is recommended, which can solve the problem of angle by adjusting two directions respectively; the back-to-back connection for double devices can also be applied to long-distance repeater, see Figure 1-3 for more information.

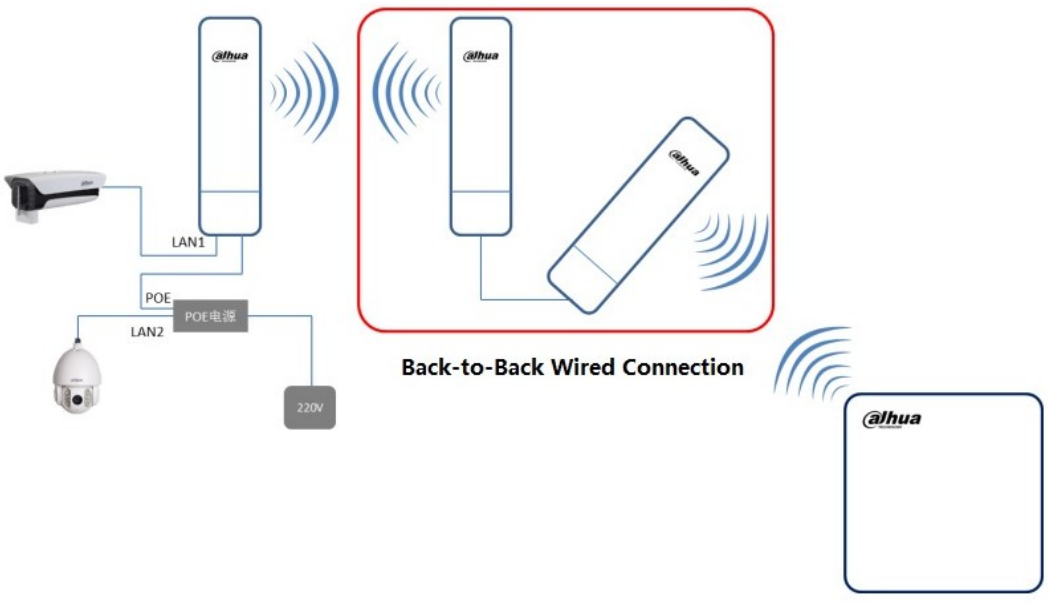


Figure 1-3

# DH-PFM880/881

## Integrated Wireless Coverage Networking

In the actual project, we may use point-to-point, point-to-multipoint, repeater between point-to-point, direction adjustment and several other ways of integrated application at the same. The following Figure 1-4 can show you how to achieve the final demand.

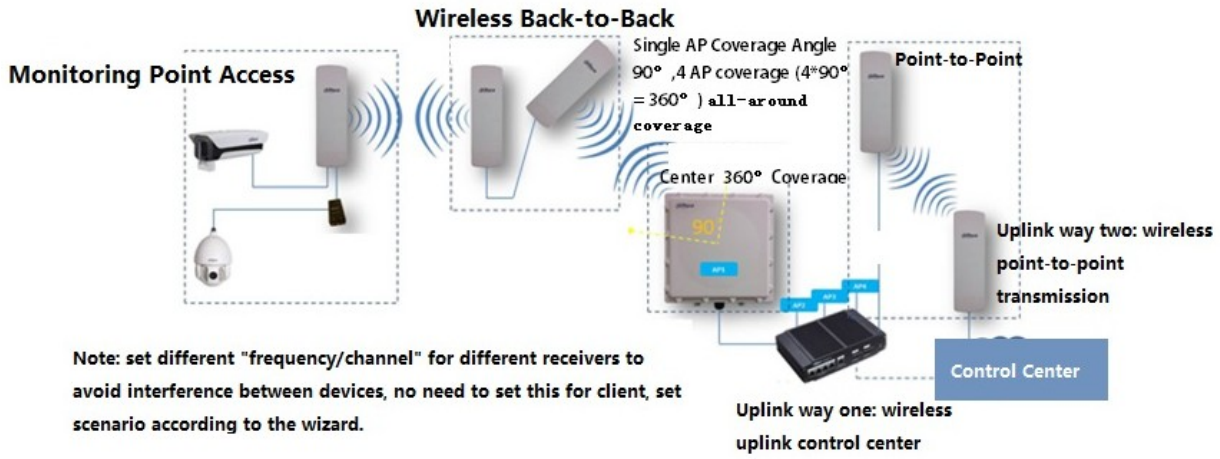


Figure 1-4

## Application Scenarios

1. Safe towns, safe construction sites, safe scenic area

2. Playground, ranch, uptown crossroad and other no blocking scenarios.

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