

DH-PFM880

Outdoor 5G Wireless video transmission device (AP)



Antenna



Equipment

Features

- Support proprietary protocol TDMA; when the wireless devices open TDMA, other manufacturers will not be able to link them which ensure the system safety;
- TDMA protocol overcomes the inherent hidden nodes problem of 802.11, and makes the wireless products have the better performance in long-distance and point to multi-point;
- Working frequency support 5745~5825MHz(extended range: 4920~6100MHz);
- Support auto ranging function, real time display straight line distance between client and base station;
- Support flow control, effectively control base station/client input/output flow control;
- Support VLAN partition, realize virtual local network function, control broadcast storm;
- Support Web page and AC remote operations management and make the installation and maintenance be more convenient;
- PoE power supply, which supports international standard 802.3at and lets power supply be convenient and reliable;
- Built-in professional lightning protection technology, which supports 6KV port lightning protection ability to ensure that the poor working environment adaptability of outdoor and greatly reducing rate of lightning damage to equipment.

DH-PFM880

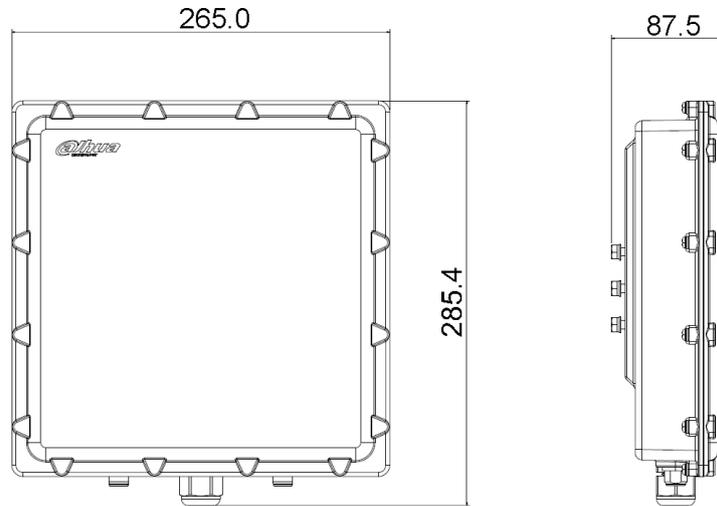
Specifications

| | |
|------------------------------|--|
| Model | DH-PFM880 |
| Wireless Features | |
| Wireless Standard | IEEE802.11 a/n |
| Working Frequency | 5745~5825MHz(extended range: 4920~6100MHz) |
| Wireless Speed | 300Mbps |
| Modulation Mode | OFDM |
| Antenna | External antenna: gain 16dBi |
| Output Power | 30dBm (max) |
| Receiving Sensitivity | -74dBm@ 65Mbps, -96dBm@1Mbps |
| Transmission Distance | 0-3Km |
| Wireless Direction Angle | Horizontal 90°, vertical 12° |
| Hardware | |
| Power | 1*PoE RJ45(IN: 220V, OUT: 48V/0.5A) |
| Power Consumption | Max. 15W |
| Ethernet Port | 1*LAN RJ45(1Gbps) |
| Working Temperature | -30°C~+70°C |
| Storage Temperature | -40°C~+80°C |
| Working Humidity | 5%~95%RH(no condensation) |
| Equipment Dimension | 265mm×265mm×87.5mm |
| Antenna Dimension | 450mm×140mm×35mm |
| Equipment Weight | 2.4Kg |
| Antenna Weight | 1.26Kg |
| Protection Level | IP66 |
| Software | |
| Encryption Type | WPA-PSK/WPA2/CCMP(AES)/TKIP |
| Network Mode | Route/Network Bridge |
| Working Mode | Access Point/Client/WDS AP/WDS client |
| 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, Syslog, Telnet, AC, SNMP |
| Web Configuration Management | Support webpage configuration, AC remote management and SNMP management |
| Firmware Update | Support update by web page and AC remote upgrade |
| Bandwidth Flexible | 5/10/20/40MHz |

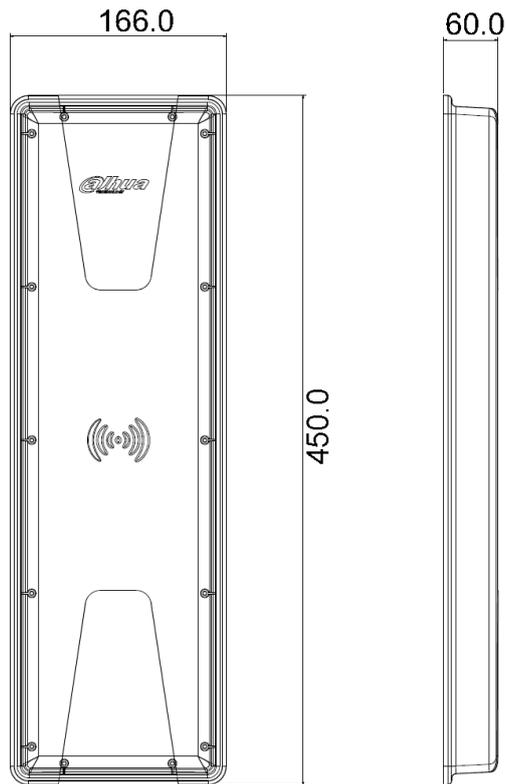
DH-PFM880

| | |
|---------------|--|
| Configuration | |
|---------------|--|

Dimensions (mm)



Equipment



Antenna

Application Scenarios

1. Safe towns, safe construction sites, safe scenic area and wireless HD video monitoring of the bus stations, etc.;

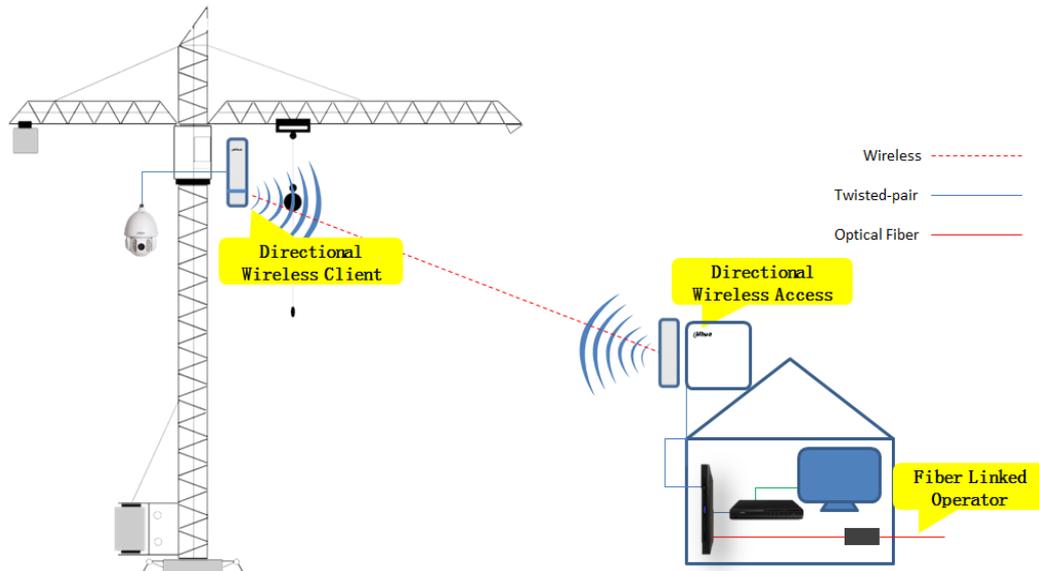
DH-PFM880

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

Networking Mode

1. Point-to-Point Networking

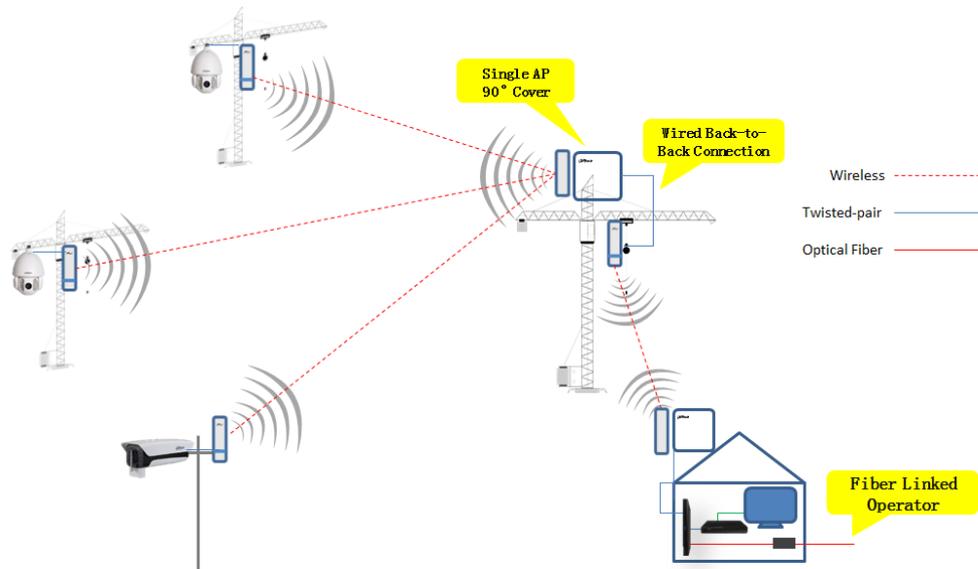
For point-to-point communication, generally a DH-PFM880 (or DH-PFM881) is set as access point, and the other DH-PFM881 is set as client, as demonstrated below.



2. Point-to-Multipoint Networking

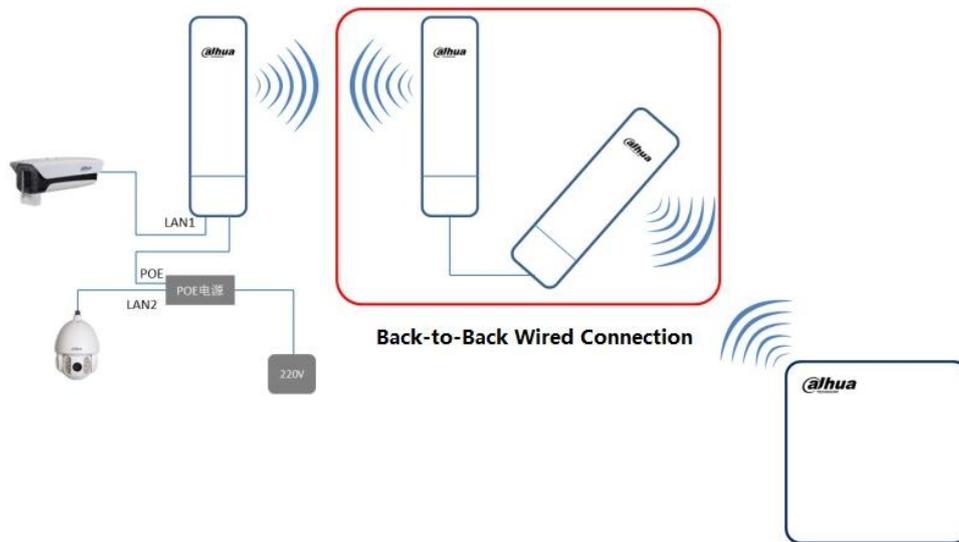
For point-to-multipoint communication, generally adopt DH-PFM880 as server, and it is set as access point (different "frequency/channel" should be set when there are several access points in order to prevent interference), DH-PFM881 (or DH-PFM880) is set as client, as demonstrated below.

DH-PFM880



3. Back-to-Back Angle Adjustment Network

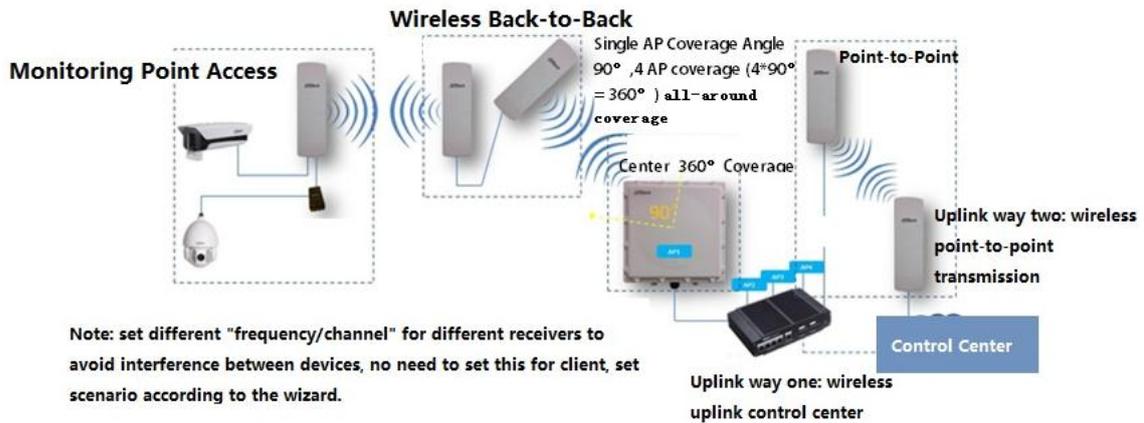
For wireless coverage blind angle, cable connection for double devices is recommended, which can solve the problem of angle by adjusting two directions respectively; the back-to-back connection for double devices can also be applied to long-distance repeater, as demonstrated below.



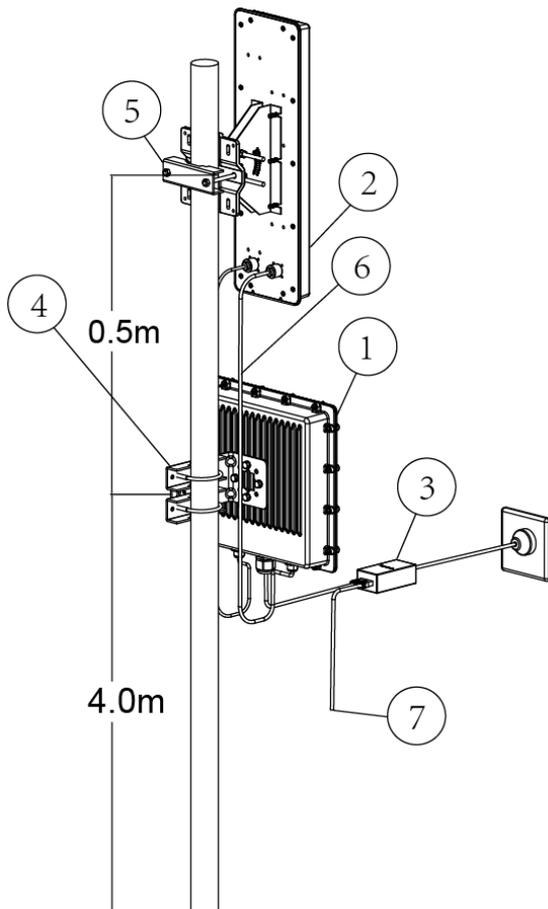
4. Integrated Wireless Coverage Networking

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, as demonstrated below.

DH-PFM880



Connection Mode



1. DH-PFM880 wireless equipment
2. Antenna
3. PoE power supply
4. Brackets of equipment
5. Brackets of antenna
6. Feeder. Used for connecting equipment and antenna
7. Network interface of PoE power supply. Used for connecting PC/camera.

Note:
The recommended installation height is 4m without barrier between two points. The actual installation height is determined by the installation environment.

DH-PFM880

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*Design and specifications are subject to change without notice.

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