DH-PFM881

Outdoor 5G Wireless video transmission device (CPE)

Features

- Support outdoor temperature：-30℃~70℃, industrial design;
- Wireless coverage recommended range≤3km;
- 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 5745~5825MHz(extended range: 4920~6100MHz);
- 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

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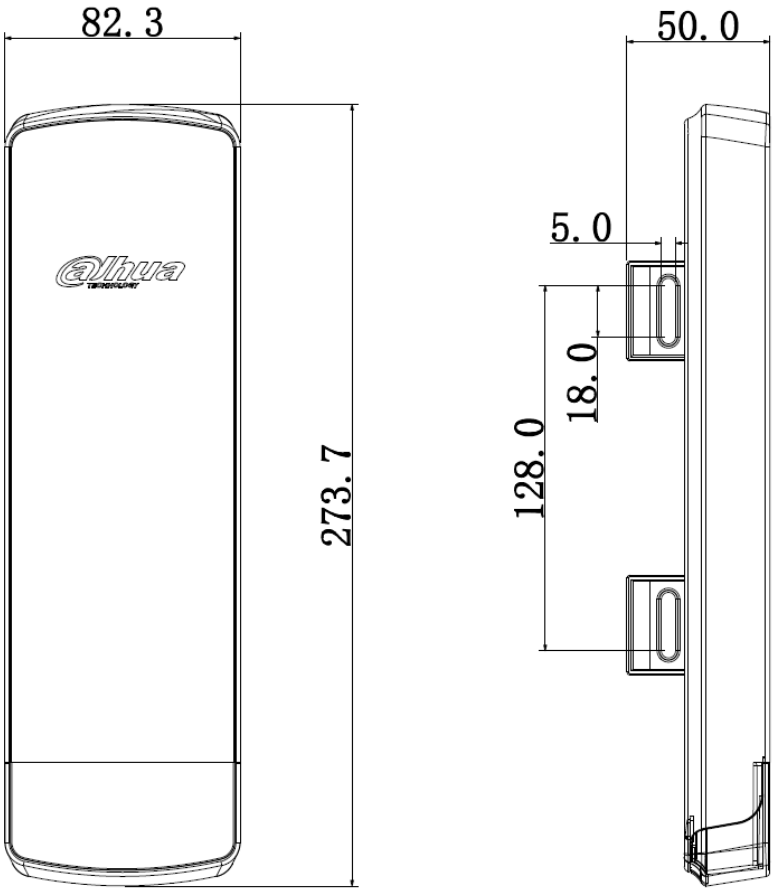
Specifications

Model	DH-PFM881
Wireless Features	
Wireless Standard	IEEE802.11 a/n
Working Frequency	5745~5825MHz(extended range: 4920~6100MHz)
Wireless Speed	300Mbps
Modulation Mode	OFDM
Antenna	Built-in antenna: gain 15dBi
Output Power	27dBm (max)
Receiving Sensitivity	-74dBm@65Mbps, -96dBm@1Mbps
Transmission Distance	0-3KM
Wireless Direction Angle	Horizontal 40°, vertical 15°
Hardware	
Power	1*PoE RJ45(IN: 220V, OUT: 24V/0.5A);
Power Consumption	Max. 8W
Ethernet Port	1*LAN RJ45 + 1*LAN RJ45 from passive PoE adapter
Indicator Light	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	280mmx30mmx80mm
Equipment Weight	0.45Kg
Mast Diameter	40mm~60mm
Software	
Encryption Type	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, 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
Bandwidth Flexible	5M/10M/20M/40MHz

DH-PFM881

Configuration	

Dimensions (mm)



Application Scenarios

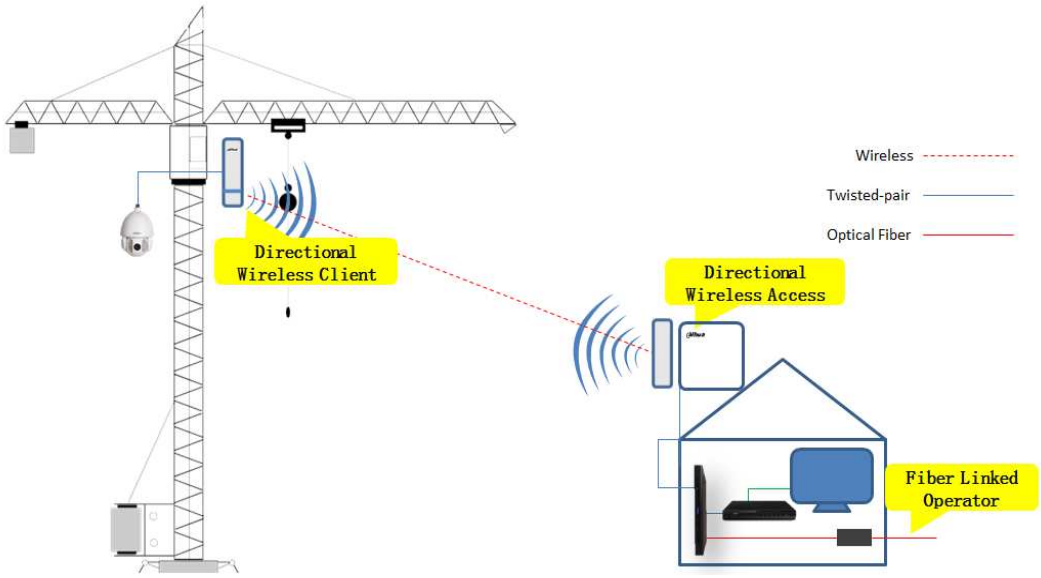
1. Safe towns, safe construction sites, safe scenic area and wireless HD video monitoring of the bus stations, etc.;

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

Networking Mode

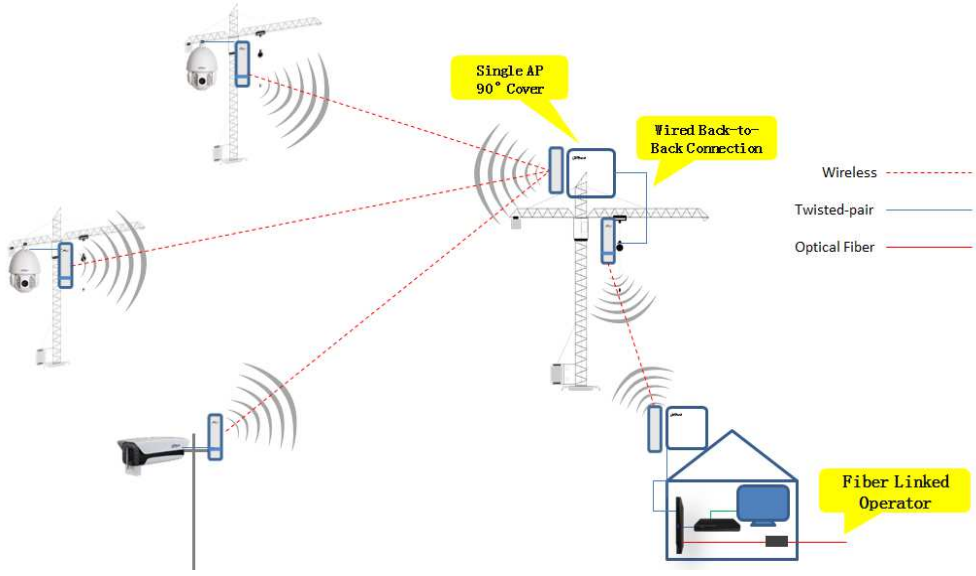
1. Point-to-Point Networking

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

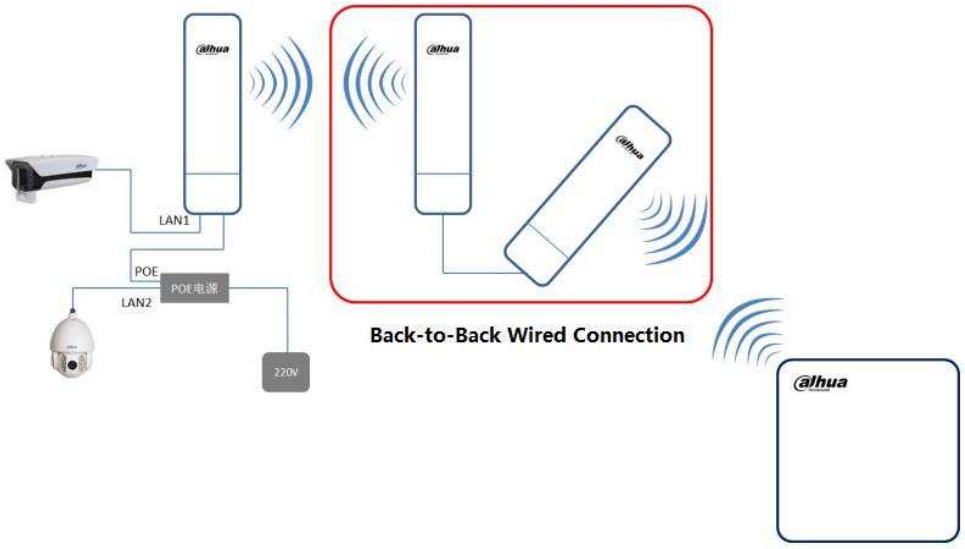
For point-to-multipoint communication, generally adopt DH-PFM880 as server, and it is set as access point (different “frequency/channel” should be set when there are several access points in order to prevent interference), DH-PFM881 (or DH-PFM880) is set as client, as demonstrated below.



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.

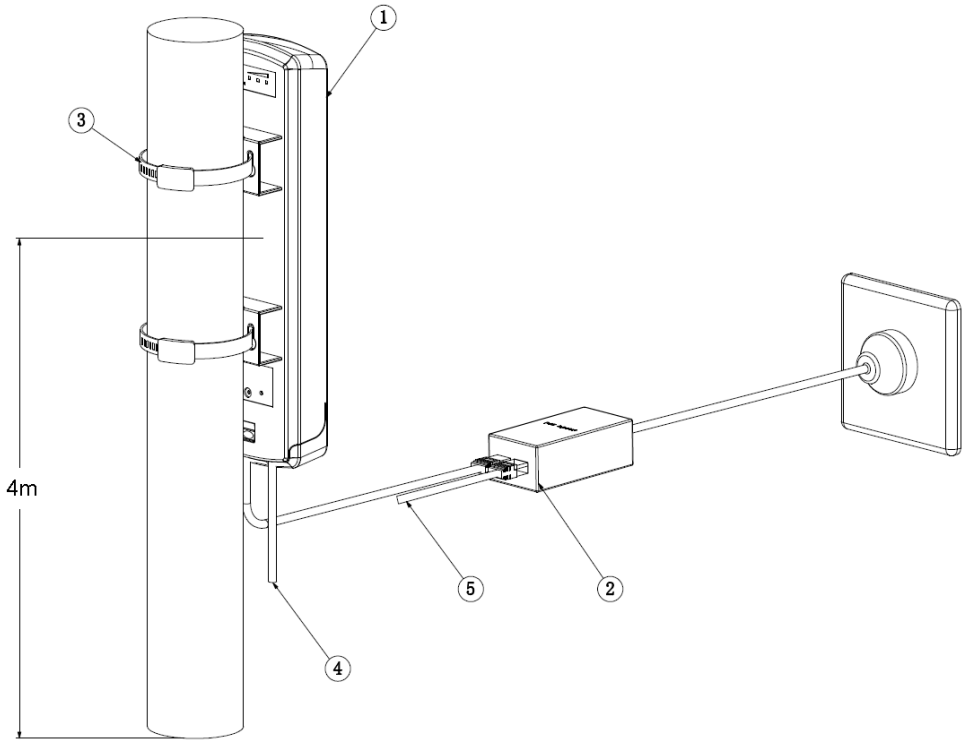


4. Integrated Wireless Coverage Networking

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.

Connection Mode

DH-PFM881



1. DH-PFM881 equipment
2. PoE power supply
3. Metal hoops for installing the equipment
4. Network interface of DH-PFM881. Used for connecting the cameras
5. 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 deter-mined by the installation environment.

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