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27011792 Indoor 2.4 GHz and 5 GHz Dual-Polarized Directional Antenna (H75 V55 G4 and H75 V50 G6)

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28.1 27011792 Technical Specifications

Appearance and Structure

Figure 28-1 Appearance of the 27011792 Indoor 2.4 GHz and 5 GHz Dual-Polarized Directional Antenna (H75 V55 G4 and H75 V50 G6)



Figure 28-2 Structure of the 27011792 Indoor 2.4 GHz and 5 GHz Dual-Polarized Directional Antenna (H75 V55 G4 and H75 V50 G6)



Technical Specifications

Table 28-1 Technical specifications of the 27011792 Indoor 2.4 GHz and 5 GHz Dual-Polarized Directional Antenna (H75 V55 G4 and H75 V50 G6)

Item	Details
Part Number	27011792
Model	ANTDG0406D2SS
Description	Directional Antenna, 2400~2500&5150~5850MHz,4&6dBi, 75deg/55deg&75deg/50deg,SMA/Female,2port,with mounting parts,pole mounting
Frequency [MHz]	2.4G: 2400 to 2500 5G: 5150 to 5850
Antenna gain [dBi]	2.4G: 4 5G: 6
Coverage distance [m(ft.)]	70 m(ft.)
Horizontal beamwidth [degrees]	75 degrees
Vertical beamwidth [degrees]	2.4G:55 5G:50
Standing wave ratio (SWR)	≤ 2
Polarization	Horizontal polarization,vertical polarization
Antenna connector	SMA-K x 2
Antenna dimensions [mm(in.)]	H x W x D: 25 x 86 x 86

Item	Details
Weight without packaging [kg(lb)]	0.07±0.01
Installation type	Wall
Grounding requirements	Same as the AP
Antenna note	The gains and lobe widths in this document are typical values. The actual values are within a range. For specifications, see the corresponding data sheets. There may be differences in the standards of different countries, so the mapping between antennas and APs shall comply with local standards. For details, refer to device access authentication information. The coverage distance is subject to the following constraints: - The default AP transmit power is 15 dBm. - The default STA type is mobile phone, and no obstacle exists. - 2.4 GHz: The uplink and downlink RSSIs are greater than or equal to -70 dBm. - 5 GHz: The uplink and downlink RSSIs are greater than or equal to -75 dBm. For any questions about the parameters above, contact Huawei technical support.

Antenna's Radiation Pattern

Figure 28-3 Antenna Pattern1 of the 27011792 Indoor 2.4 GHz and 5 GHz Dual-Polarized Directional Antenna (H75 V55 G4 and H75 V50 G6)

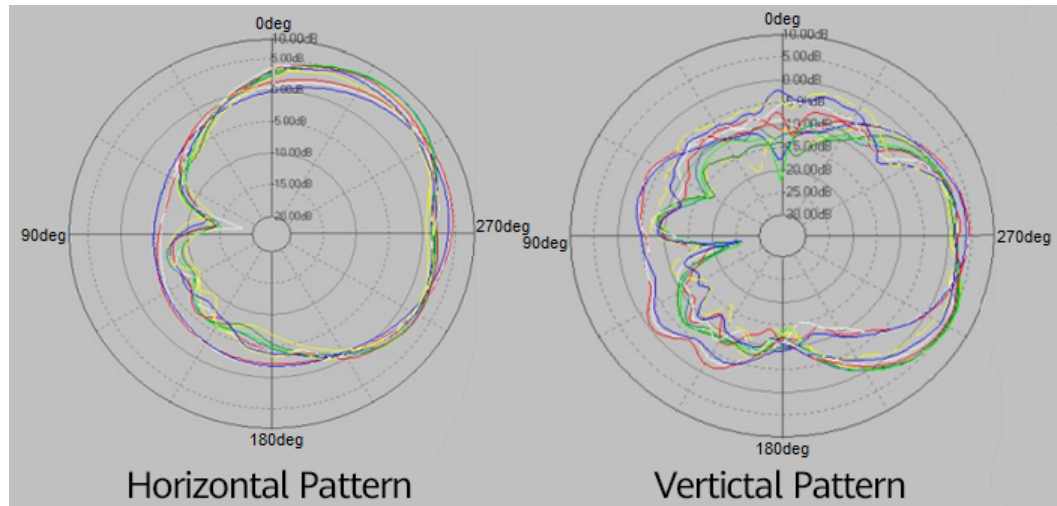
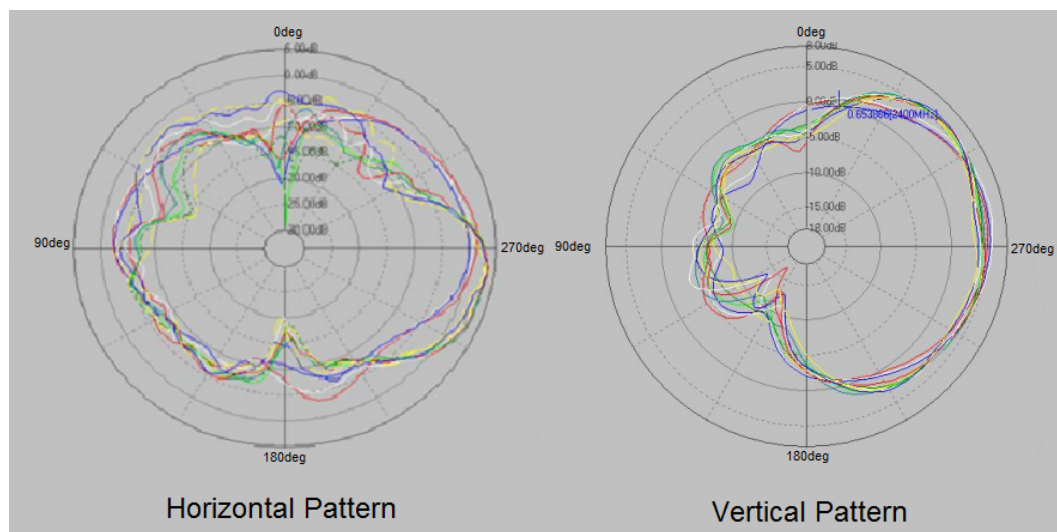


Figure 28-4 Antenna Pattern2 of the 27011792 Indoor 2.4 GHz and 5 GHz Dual-Polarized Directional Antenna (H75 V55 G4 and H75 V50 G6)



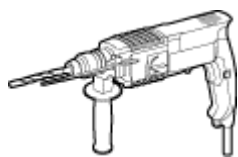
28.2 27011792 Antenna Installation

The 27011792 antenna is an indoor directional antenna. It applies to scenarios that require small coverage angles but long coverage distances. Typical scenarios include corridors in hospitals or airports.

28.2.1 Accessories and Tools

Tools:

- Hammer drill ($\phi 6$ and $\phi 23$)



- Phillips screwdriver



- Rubber mallet



Other accessories:

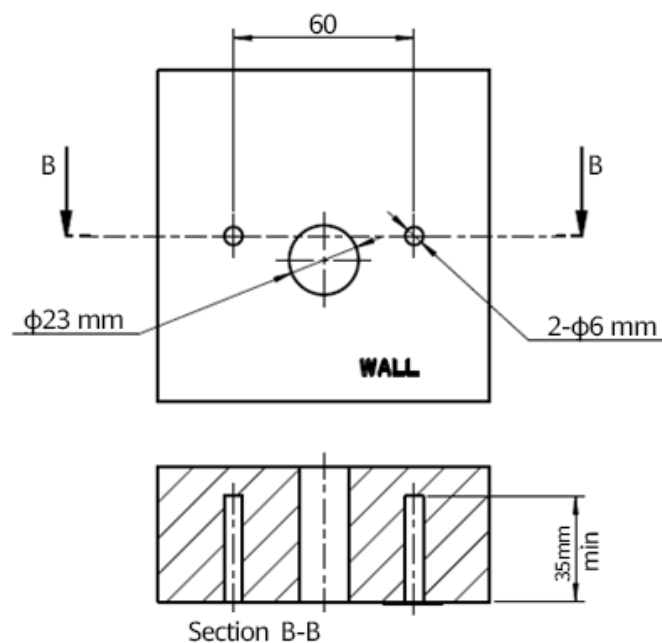
- Screw components: 2 screws and 2 expansion bolts

28.2.2 Wall Mounting

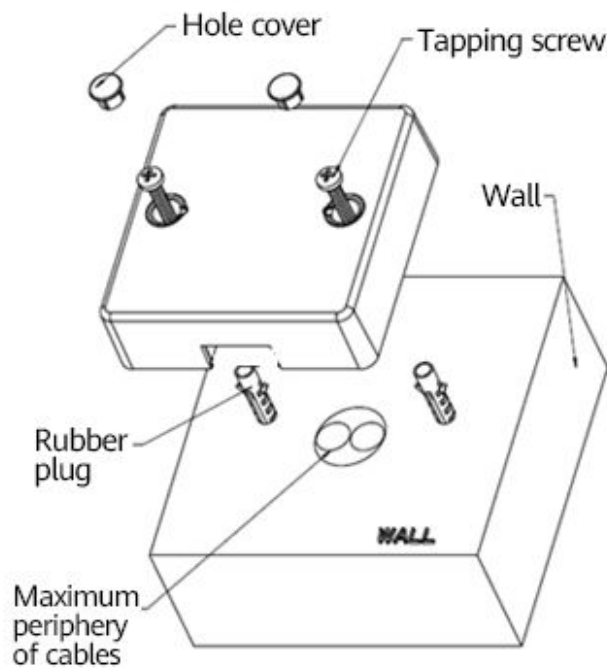
The 27011792 antenna is mounted on a wall. Different directions of outgoing RF cables result in two installation methods: outgoing direction parallel with the wall and outgoing direction vertical to the wall.

Outgoing Direction Vertical to the Wall

1. Drill holes on the wall in compliance with the sizes shown in the following figure.

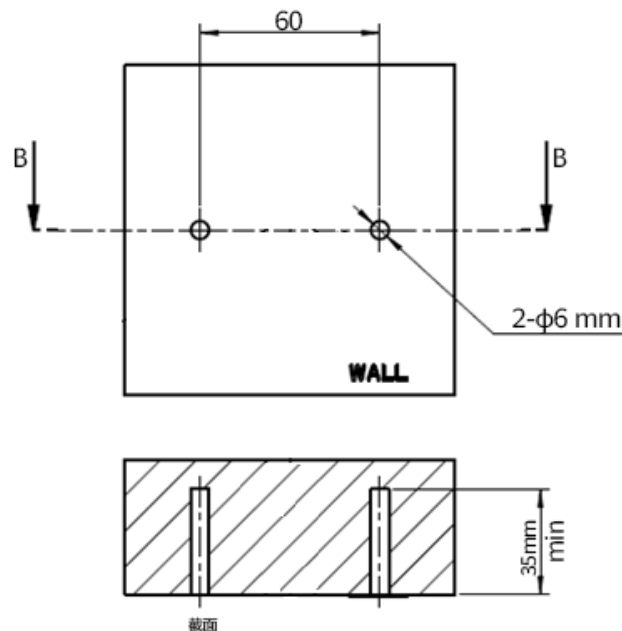


2. Place expansion bolts into the $\phi 6\text{ mm}$ holes and thread screws through mounting holes of the antenna.
3. Thread the RF cable through the $\phi 23\text{ mm}$ hole. After connecting cables, use screws to fix the antenna on the wall.

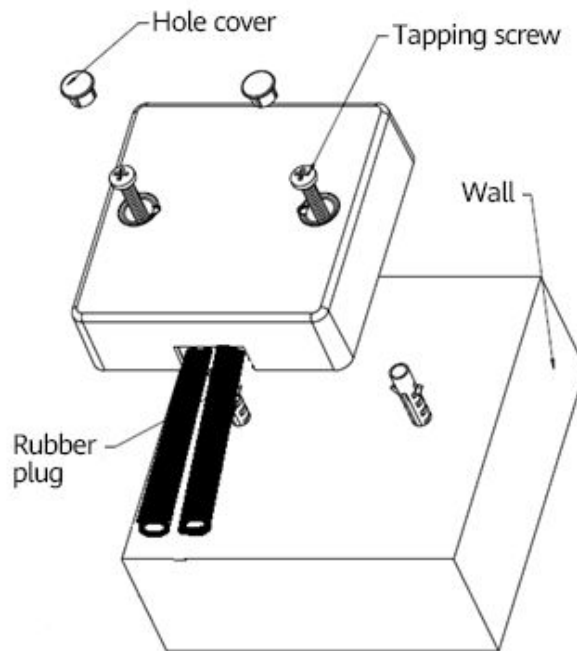


Outgoing Direction Parallel with the Wall

1. Drill holes on the wall in compliance with the sizes shown in the following figure.



2. Place expansion bolts into the $\phi 6$ mm holes and thread screws through mounting holes of the antenna.
3. Connect the RF cable to the plastic plug. After connecting cables, use screws to fix the antenna on the wall.



28.2.3 Connecting RF Cables

Procedure

1. Remove covers on external antenna ports of APs to expose RP-SMA female connectors.
2. Connect SMA male connectors of feeder cables to ANT ports on APs.

RF Cable Photos

Figure 28-5 RF cables

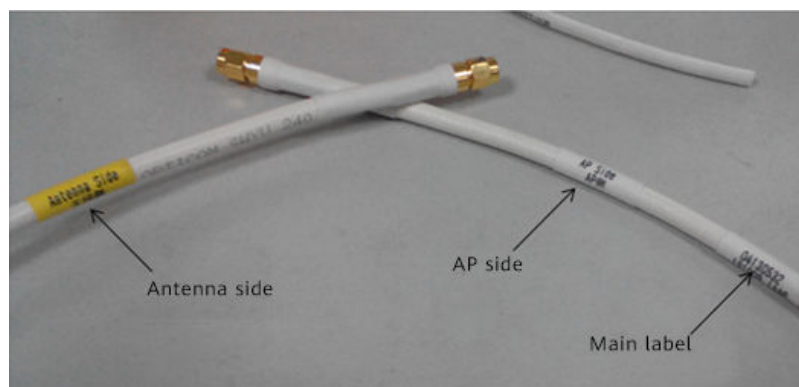


Figure 28-6 Labels



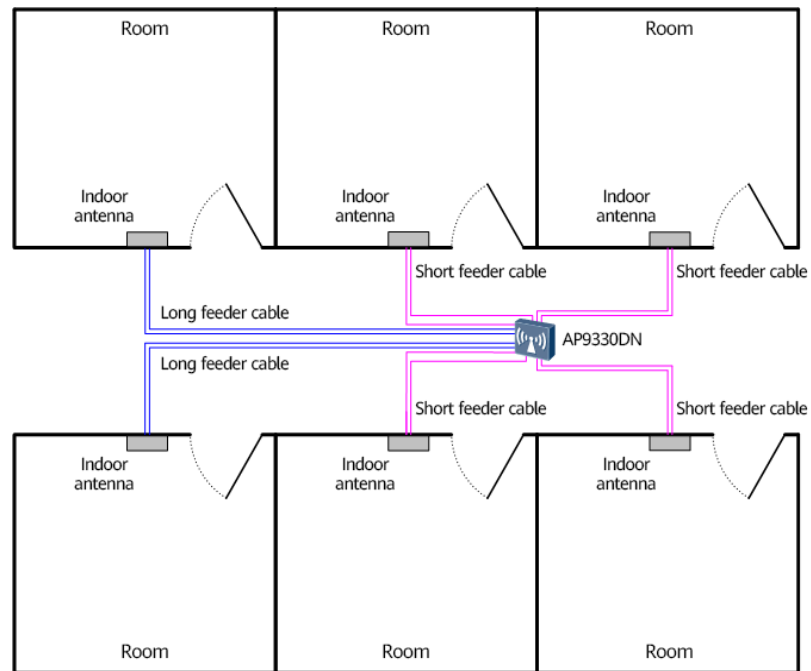
You can use the following RF transit cables.

Part Number	Cable Length	Interface Description
04130532	5 m	SMA-J/RP-SMA-J
04130532-001	10 m	
04130532-002	15 m	

NOTE

- Connectors on the two ends of an RF cable are different. You should connect the AP side connector to the AP and the antenna side connector to the antenna.
- The longer the feeder cable, the weaker the signal strength within the antenna coverage range. The cabling method in [Figure 28-7](#) is recommended. The feeder cable should be as short as possible. The 15-meter feeder cable is not recommended.

Figure 28-7 Cabling of feeder cables



NOTE

In dual-band and double-stream scenarios, ensure that the two antenna ports with the same number on the AP9330DN are connected to the same antenna.