Outdoor Wireless-AC 12dBi Directional Antenna

MODEL: HOA12DP

Concurrent Wireless-AC

PACKAGE CONTENTS:

- One HOA12DP Wireless-AC 12dBi Directional Antenna
- Wall Mounting Kit
- 2 N-Type to SMA Adapters
- Easy to follow Quick Installation Guide

FEATURES:

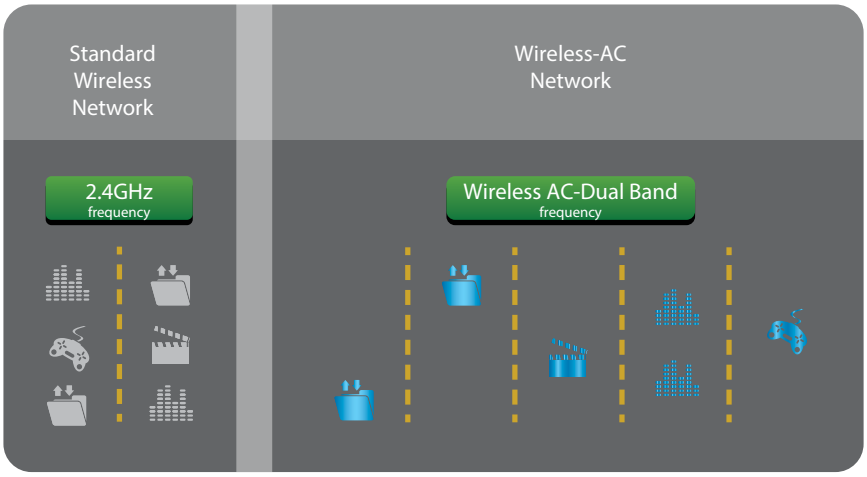
- Optimize Overall Wireless Performance
- Directional Signal Amplification
- Compatible with 2.4GHz and 5GHz frequencies on any 802.11 a/b/g/n/ac network

Long Range Wireless Coverage , Increase the Strength of AC Wi-Fi Devices up to 400%

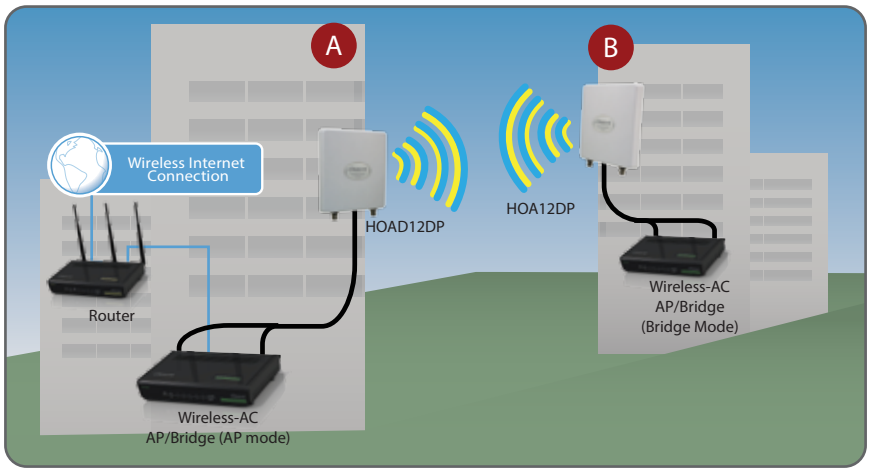
The HOA12DP Outdoor Wireless-AC 12dBi Directional Antenna is a heavy-duty, weather proof antenna for extending the range of your 802.11 a/b/g/n/ac Wi-Fi devices. The HOA12DP increases the wireless strength from a standard 2dBi (decibels) to a staggering 12dBi, resulting in a 400% increase in the wireless coverage and strength.

Concurrent Wireless-AC Frequencies, 2.4GHz and 5GHz, offers Ultimate Flexibility and Maximum Performance

The most commonly used wireless bandwidth is 2.4GHz. It is one of the older standards and provides good Wi-Fi range and wall/obstruction penetration. However, neighbors, roommates, Wi-Fi hot spots, etc. all use this same frequency which can cause interference and major slowdowns. It has limited bandwidth for simultaneous activities, so multiple users on the same network sending emails, video chatting, streaming movie, gaming, etc. can grind internet speeds to a halt. In addition, the same 2.4GHz frequency is shared between different devices (i.e. common household devices like microwaves and cordless phones), causing more interference. Wireless-AC technology addresses this problem. It provides much faster speeds, providing more bandwidth so more things can be done quicker. Wireless-AC also uses the 5GHz frequency, which means separate channels from 2.4GHz users, thus avoiding the congestion. However, 5GHz does have a drawback of less range and not being able to penetrate walls and obstructions as compared to 2.4GHz.



Hawking concurrent Wireless-AC products provide maximum flexibility for Wi-Fi networks. Wireless-AC devices can connect to the popular 2.4GHz frequency for compatibility and range and also simultaneously off-load traffic to a faster, less-crowded 5GHz AC frequency for speed. The users can simply pick the network of choice. The HOA12DP strengthens and extends the Wireless-AC signal for long range, high traffic wireless networks.



Directional Antenna for Long Range Point-to-Point Wi-Fi applications

The Directional Antenna concentrates the signal in one direction for more wireless strength and longer range. The HOA12DP Antenna is ideal for long range Point-to-Point wireless applications. As shown in the diagram, use a pair of Directional Antennas, one on each end (location A & B), for optimal results.

Outdoor Wireless-AC 12dBi Directional Antenna

MODEL: HOA12DP

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SPECIFICATIONS:

Frequency Range: 2.4-2.5GHz, 5GHz
Wireless Standard: 802.11 a/b/g/n/ac
VSWR: < 2.0
Front-to-Back ratio: 15dBi
Input Impedance: 50 ohm
Radiation Pattern: Directional

2.4GHz Frequency

Gain: 10dBi
Polarization: Vertical/Horizontal/Dual Linear
Horizontal HPBW: 50°
Vertical HPBW: 50°

5GHz AC Frequency

Gain: 12dBi
Polarization: Vertical/Horizontal/Dual Linear
Horizontal HPBW: 50°
Vertical HPBW: 30°

Hardware Specifications

Connector: 2 x N Female (SMA Adapter Included)
Temperature: -4°F to +149°F
Color: White
Body Material: Plastic
Contact Material: Metal
Insulator Material: Teflon or Delrin
Connector Material: Brass
Dimensions: 7.9(H) x 7.1(W) x 1.2(D) inches
Weight: 0.7 lbs (excludes mounting hardware)
Waterproof: IP65
Mounting Kit: Wall Mount

SYSTEM REQUIREMENTS

- Wi-Fi Network Device with removable external antenna(s)
- Hawking Low Loss Outdoor Antenna Cable* (HAC30N, HAC20N, HAC10N) or equivalent

*NOTE: This panel antenna supports Wi-Fi devices with up to 2 removable antennas. Please purchase Outdoor Antenna Cables accordingly. Hawking Model no. HAC30N, HAC20N, HAC10N or equivalent.

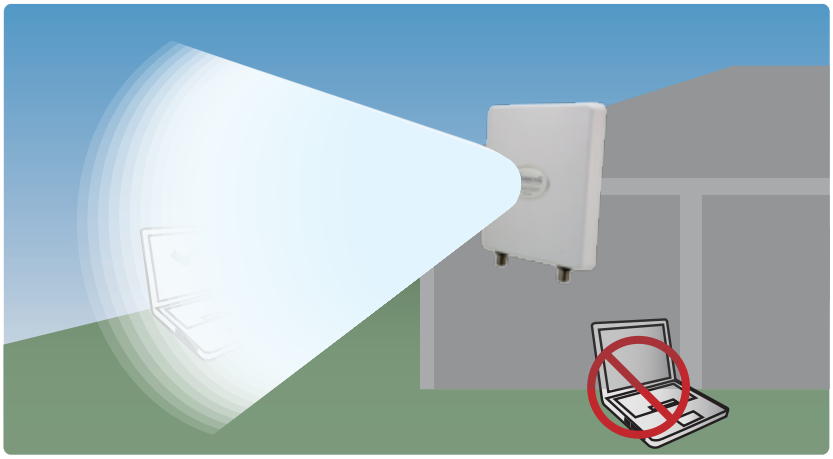
INSTALLATION:

A. Attach a low-loss outdoor cable (not included*) to the bottom of the Antenna.

B. Connect your Antenna Adapter Cable to the end of the low-loss cable

C. Attach the HOA12DP to the antenna port connector of the Wi-Fi Networking Device.

* Determine the required length for the antenna cable. When deciding on a cable length, Hawking recommends using the shortest length possible to minimize signal loss.



Once you have mounted and connected your Outdoor Wireless-AC 12dBi Directional Antenna, be sure to note the signal pattern of the antenna. As indicated by the diagram above, the directional antenna does not give off signal directly below or directly behind the product. Make sure your devices are within the signal pattern shown above to experience superior range and quality with your HOA12DP. Adjust the antenna as needed.

NOTE: If your device has only one removable antenna port, you can plug into the port of your choice. If your device has two ports, use both antenna ports to maximize your performance.