

# DH-PFWB5-90ac

V-Radio Outdoor 11ac 5G Wireless (Base Station)



## Series Overview

DH-PFWB5 series is a line of PTP and PTMP base stations and customer premises equipment dedicated to last-mile and video surveillance applications. It offers a wide variety of devices ideal for Internet service providers and operators to run their networks using unlicensed bands. The powerful software platform with a proprietary communication protocol ensures smooth performance even in the most congested environments. The professional-grade integrated hardware design allows for quick return on investment and minimizes operational costs.

## Functions

### TDMA Enhancement

Adopts TDMA (Time Division Multiple Access) technology to stabilize video transmission bandwidth, and to locate wireless transmission hidden nodes.

### Wide Operating Temperature (−30 °C to +70 °C)

Supports working at ambient temperatures of −30 °C to +70 °C, and has built-in professional lightning-proof circuits that effectively reduce the impact of thunderstorms on network systems and improve system robustness, allowing the device to adapt to harsh environments.

### Enhanced Antenna

Features enhanced antenna gain for the stable transmission of wireless signals over long distances, and it has strong anti-interference capabilities.

### Minimal WEB

Designed with a minimalist graphical WEB, easy to operate, which improves configuration efficiency.

- Strong signal: With its enhanced antenna, the PTP/PTMP transmission distance reaches up to 3 km (9842.52 ft).
- Wide operating temperature: −30 °C to +70 °C (−22 °F to +158 °F).
- Easy installation: Supports multiple installation methods such as wall mount and pole mount.
- High protection: IP65 rated, it is suitable for outdoor scenes and withstands severe weather.
- Strong broadband: The bandwidth can reach up to 867 Mbps, ensuring there is no delay in transmission.
- 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 (5/10/20/40/80Mhz), effectively improve anti-interference and penetration capability.
- Auto ACK Timing Adjustment:Support(Auto optimize parameter within long-distance communication and make the performance optimal).
- Support OFDM/BPSK/QPSK/16QAM/64QAM/256QAM Modulation and coding.
- Support auto ranging function, real time display straight line distance between client and base station.



### MU-MIMO

This advanced technology allows multiple users to communicate through one single access point, which vastly improves wireless throughput.

## Scene

Suitable for internet access, video surveillance and use in rural areas.

### Technical Specification

#### Hardware

Sold	As Base station (BS)
Function Slots	1 × RJ-45 10/100/1000 Base-T
Power Supply	1*PoE RJ45
Power Consumption	Full load: 10 W
Memory	DDR 64 MB
Indicator Light	1 × PWR light 1 × LAN light 4 × RSSI LEDs

#### Performance

Wireless Standard	5 GHz : 802.11a/n/ac
Operating Frequency	5.150 – 5.850 GHz Frequency band is adjustable by user
Wireless Transmission Rate	802.11 ac@ 40 MHz: 400, 360, 300, 270, 240, 180, 120, 90, 60, 30 Mbps; 802.11 ac@ 80 MHz: 866, 780, 650, 585, 520, 390, 260, 195, 130, 65 Mbps
Channel Width	5/10/20/40/80 MHz
Transmit Power	Up to 30 dBm (country dependent)
Frequency Range	The range of the frequency is determined by the Country code
Directional Antenna	Angle: Horizontal: 90°, vertical: 90°/ Gain: 18dBi
Transmission Distance	3000 m (9842.52 ft)
SSID	6
PoE	PoE In: 24 V/0.5 A, PoE Out: NA

#### Function

Operating Mode	AP (WDS)/WAP (TDMA2)/WAP(TDMA3)/Station (WDS/TDMA2/TDMA3)/Wireless client (ARPNAT)
Management and Log	Web, NTP, SNMP, Syslog, Telnet
Encryption Mode	WEP/WPA-PSK/WPA2/CCMP(AES 128 bit)/TKIP
Security Mechanism	ACL,IP/MAC address filtering,hide network name,user isolation,etc
OFDMA	Support
MU-MIMO	2 × 2
DFS	Support
Protocol	TCP/UDP/ARP/ICMP/DHCP/HTTP/NTP
Firmware Update	Web update
Software	DHCP server; SNMP server; NTP client; router advertisement daemon; ping watchdog

#### General

Operating Temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Storage Temperature	-40 °C to +85 °C (-40 °F to +185 °F)

Operating Humidity	0%–90% (RH), non-condensing
Net Weight	0.46 kg (1.01 lb)
Gross Weight	0.9 kg (1.98 lb)
Product Dimensions	380 mm × 100 mm × 35 mm (14.96 × 3.93 × 1.37) (L × W × H)
Packaging Dimensions	445 mm × 125 mm × 76 mm (17.51 × 4.92 × 2.99) (L × W × H)
Protection	IP65
Installation	Bracket mount
Certifications	CE; FCC
Packing List	1 × Device; 2 × Dowel Pin; 1 × Pole Mount Bracket; 1 × Power Cord; 1 × 24 V PoE Power Adapter; 1 × Quick Start Guide

### Ordering Information

Type	Model	Description
Wireless Transmission Device	DH-PFWB5-90ac	V-Radio Outdoor 11ac 5G Wireless (Base Station)

Dimensions (mm[inch])

