WHA-5500CPE

802.11a Super Range Outdoor CPE

- 5GHz All-in-One Outdoor CPE
- 108Mbps Atheros Super-A/Turbo-A Support
- 18dBi High Quality Patch Antenna
- New AirMax5 Extreme Firmware
- Up to 25km using Built-in Antenna
- 8 Wireless Operation Modes
- 4.9GHz to 6GHz Super Channel Support
- Client Mode with MAC transparency
- AP, WDS Bridge, AP Router, WISP Router, Repeater Modes
- Multiple SSID and VLAN function
- Interface, IP/MAC, Application Bandwidth Control
- HTTPS, HTTP, Telnet Managements

5GHz	108 Mbps	Variable Channel Width	40/20/10/5MHz Width	Super Channels	18dBi Antenna	HTTPS	8 Wireless Modes

Super-A	Turbo-A	802.3af PoE	Bridge	Client	WISP	AP Router

Long Distance Champion

The WHA-5500CPE is AirLive's flagship 5GHz all-in-one Outdoor CPE. It is designed with high performance and long distance in mind. From the full range 18dBi built-in antenna that can deliver up to 25km distance to the 802.3af compliant PoE kit, the CPE is built with the highest outdoor grade materials. Now, with the new AirMax5 Extreme firmware, it is also the most powerful and easy-to-use outdoor CPE.

All-In-One Solution

The WHA-5500CPE comes with almost everything you need to build 5GHz connection instantly. The CPE enclosure is rain and splash proof. It includes an integrated 18dBi 5GHz antenna and 802.3af compliant Power-Over-Ethernet Kits. The only thing you need is an outdoor Cat-5 POE cable, and then you can establish long distance connection instantly. With each product is the step-by-step instruction video to help you setup the CPE quickly. Metal mounting kits for both pole mounting and wall mounting are also included.

25 Kilometers Distance or More

With the integrated directional antenna and high performance Atheros 11a radio, the CPE can reach the distance of 25 kilometer in good weather condition. The included 802.3af Power over Ethernet adapter is capable of up to 100 meter in distance between the CPE unit to the power outlet. This makes installation very versatile and simple
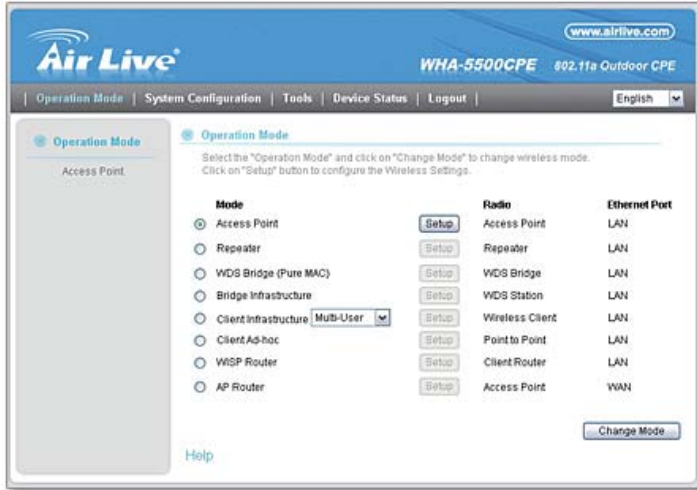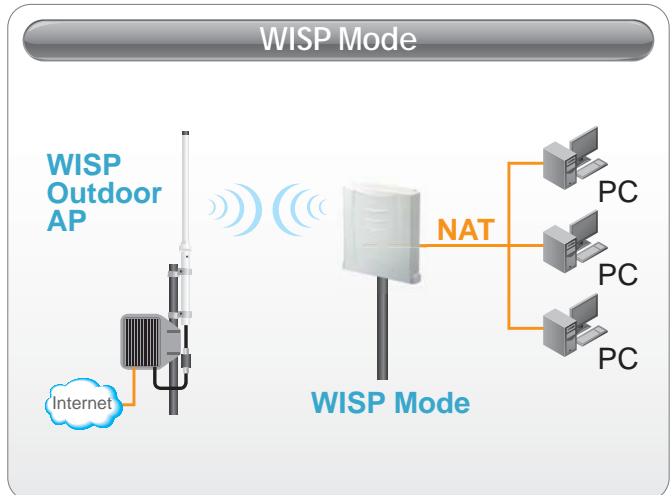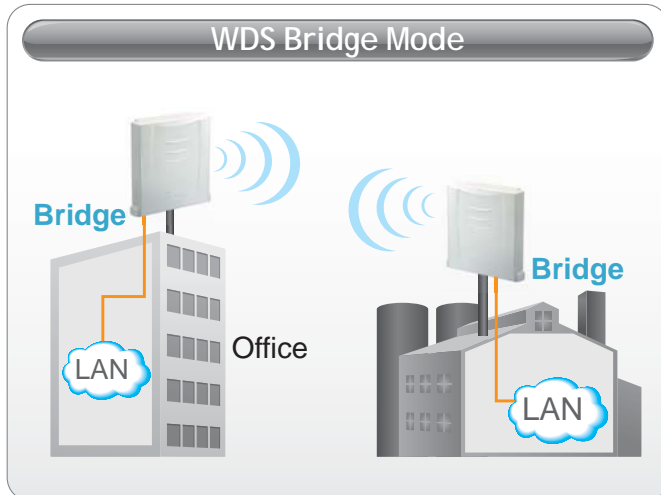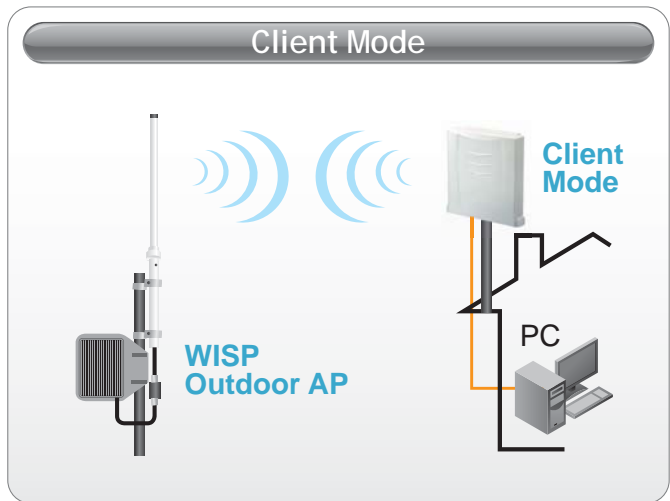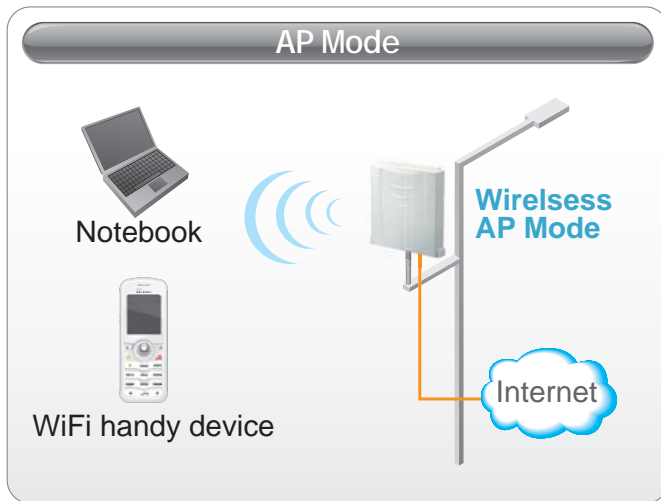
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AirMax5 Extreme Firmware

The new WHA-5500CPE firmware is based on an advance version of our popular AirMax5 firmware. The Multi-language AirLogic interface permit instant change to one of the seven languages(English, Czech, Polish, Spanish, Portuguese, German, and Croatian) from any page. The new wireless function includes variable Channel Width(40, 20, 10, 5MHz), Lock-to-AP list, Polling, HTTPS secured web management, Memory status, and 8 operation modes. The WDS Bridge mode can support up to 8 entries and let users to add bridges from the Site Survey list. The firmware features so many enhancements; it completely transforms the WHA-5500CPE to one of the most advance 5GHz wireless outdoor device available.

AP Mode

Notebook

WiFi handy device

Wirelsess AP Mode

Internet

Client Mode

Client Mode

WISP Outdoor AP

PC

WDS Bridge Mode

Bridge

LAN

Office

Bridge

LAN

WISP Mode

WISP Outdoor AP

Internet

NAT

PC

PC

PC

WISP Mode

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Super Channels Support*

For service providers that have license to operate in the 4.9GHz or 6GHz spectrum, the WHA-5500CPE has built-in Super Channels support. Therefore, you do not need to pay extra for software license. The WHA-5500CPE built-in full range antenna can even support those frequency spectrums thanks to its high quality design.

If you want to setup your wireless network in high performance 5 GHz spectrums. Looking no further, the WHA-5500CPE is your choice.

Accessories

Pole Mount and Wall mount kit included

802.3af PoE Adapter and DC Injecter
PoE Cable not included

OD-25M Optional 25 meter POE Cable

1. The use of Super A or Turbo A mode in some countries is not permitted.

2. POE cable is optional

3. The CPE should be installed in upright position for rain and splash proof. Please do not install it upside down or put it into the water.

4. The CPE's built-in antenna has coverage of 15.5 degree horizontal and 16.6 vertical coverage in the forward direction.

5. Please make sure you have the license to use the Super Channels. Operating without license might be illegal in your country.
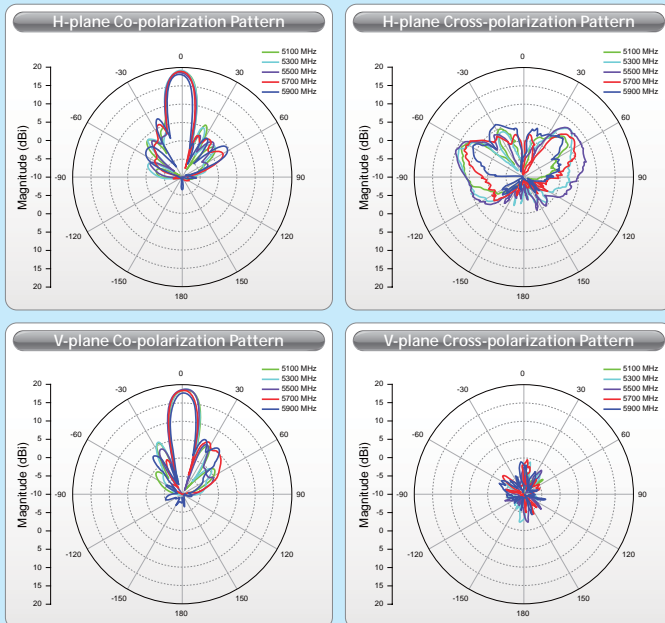
Specifications

Standard
- 802.11a/Super A mode support (Atheros Proprietary)
  - 802.11h TPC and DFS
- RoHS compliant
- Supports One 10/100 Mbps LAN
- Auto MDI/MDI-X support

- 4MB Flash, 32MB SDRAM
- IEEE 802.3af (PoE) compliance up to 100 meters of CAT 5 cable length

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Antenna
- Integrated 18 dBi patch directional antenna
- HPBW/Horizontal :13.5° - 15.5°
- HPBW/vertical :13° - 16°

H-plane Co-polarization Pattern

H-plane Cross-polarization Pattern

V-plane Co-polarization Pattern

V-plane Cross-polarization Pattern

Frequency Band
- ETSI: 802.11a: 5.470 to 5.725 GHz
- USA: 802.11a: 5.725 to 5.825 GHz

Power Supply
- External Power Adapter : input 100~240Vac/50~60Hz
  , output 5.5V/2.5A
- Power over Ethernet (802.3af), up to 100 meters of
  CAT 5 cable
- POE Adapter, DC Injecter provided
- POE port built-in on the PCB

Transmission Rates
- IEEE802.11b: 1/2/5.5/11Mbps
- IEEE802.11g: 6/9/12/18/24/36/48/54MbpsI

Modulation Technology
- 802.11a Orthogonal Frequency Division Multiplexing
  (OFDM)
- 802.11a Data Rate : 6, 9, 12, 18, 24, 36, 48, 54Mbps

Output Power
- 54 Mbps @ 17dBm
- 48 Mbps @ 18dBm
- 36 Mbps @ 19dBm
- 6, 9, 12, 18, 24 Mbps @ 20 dBm
- 36 Mbps @ 20 dBm
- 6, 9, 12, 18, 24 Mbps @ 20 dBm

RSSI
- 6Mbps   @ -95 dBm
- 9Mbps   @ -90 dBm
- 12Mbps @ -88 dBm
- 18Mbps @ -86 dBm
- 24Mbps @ -82 dBm
- 36Mbps @ -79 dBm
- 48Mbps @ -73 dBm
- 54Mbps @ -71 dBm

Software
- Support Client Mode, AP Mode, Bridge Infrastructure,
  WDS Bridge Mode, Repeater Mode, WISP Router,
  AP Router modes
- 40MHz, 20MHz, 10MHz, and 5MHz Channel Width
- Super Channels support
- Super A mode support (Atheros Proprietary)
- Turbo A mode support (Atheros Proprietary)
- Site Survey and Signal Survey functions
- Lock-to-AP Priority List
- Multiple SSID and VLAN
- Total, IP/MAC, and Application Bandwidth Control
- 8 WDS Entries
- QoS (802.11e WMM)
- WPA with PSK/TKIP/AES support, WPA2 support
- Privacy Separator support
- Firewall, Static Route, Virtual Server, DMZ, URL
  Control
- Support adjustable output power
- Comply with DFS II
- 152-bit WEP support (Atheros Proprietary)
- ACK Timeout Adjustment
- DHCP Server and Client
- Wireless access control by MAC address (deny or
  accept)
- HTTPS, HTTP, and Telnet Management
- Firmware upgrade and configuration backup via Web
- Bootloader Protection and Emergency Firmware
  Repair

Dimension
- Polarization : Linear, vertical

Certificate
- CE

Product Weight (g)
- 1105 g

Product Size(L x W x H (mm))
- 225 x 122 x 225 mm

Ordering Information:

AirLive WHA-5500CPE	802.11a Super Range Outdoor CPE
AirLive OD-25M	Optional 25 meter POE Cable

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