

## WH-5000A

### 802.11a/b/g Outdoor Multi-Function AP

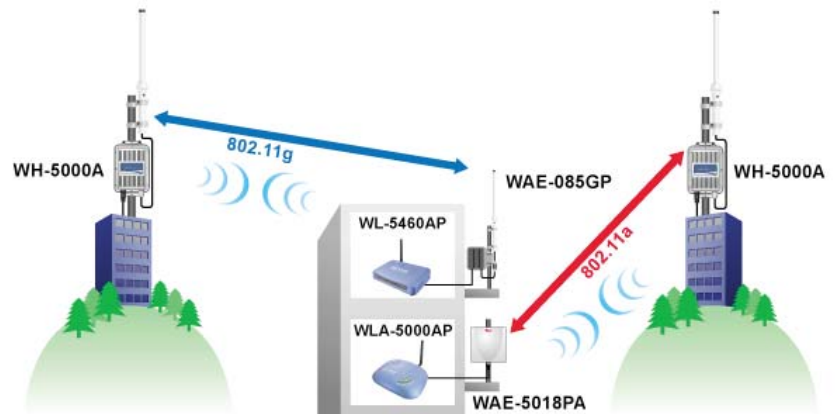
The WH-5000A wireless outdoor AP allows you set up wireless outdoor connection in either 2.4GHz or 5GHz frequency band.



### Dual Band Radio

The AP can operate in 802.11a, b, or g mode. When it is in the 802.11a mode, it operates in the much quieter 5GHz spectrum. Running your 802.11a Network in the uncrowded 5GHz ~ 5.8GHz spectrum, it allow you to have a stable Wi-Fi connection over long distance. It supports all 3 segments of frequency range so optimal compliance in different region. The frequency range is changeable through the web interface.

#### AP Mode



#### Bridge Mode



### AP, Bridge, and Client modes

The WH-5000A comes with a wireless multi-mode firmware. So you set the AP to work in Bridge, Client, or AP mode. This brings great versatility when you need to change configuration and application of your AP.

## SNMP, Wireless Load balancing and Rogue AP Detection

The unit includes a complete Power over Ethernet package with a 802.3af compliant water-proof cable and DC injector unit. The firmware also features advanced software feature such as wireless client load balancing and Rogue AP detection. These advance features help you to help secure and high performance wireless network

### Client Mode



The WH-5000A is ideal for deployment in WISP station, office buildings, farm ranch, resort, and campus environments. Users no longer have to pay high price for dedicated lease line or fiber optic cabling. With AirLive's wide range of wireless accessories and expertise in outdoor solution, you can confident with AirLive's outdoor wireless solution

## Specifications:

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#### Hardware Specification

- CPU : XScale IXP 420 @ 266 MHz
- 8 MB flash
- 32 MB SDRAM
- One Atheros 802.11a/b/g RF radio

#### External Ports

- 1 10/100 Mbps WAN Ethernet port
- 1 External antenna port

#### LED Indicators

- Power
- LAN
- WLAN

#### LAN Ethernet Setting

- Supports 10/100 Mbps full duplex with auto negotiation

- Fixed IP
- DHCP Client

#### Wireless Features

- Dual Band Atheros Radio
  - + 802.11a/b/g for AP & bridge with Turbo A and Super G
  - + Operate either in 5GHz or 2.4GHz
- Operation mode (user configurable)
  - + Access Point
  - + Bridge
  - + Client (Client-Bridge)
- Channel number
  - + Fixed or automatic select (optimum)
- Adjustable Tx power
- 802.11h Dynamic Frequency Selection
- 802.11h Transmit Power Control
- Load balancing of wireless clients

- PPPoE support
- Security :
  - + WEP 64, 28, and 152-bit
  - + WPA-PSK
  - + WPA (802.1x) – Dynamic Key
  - + WPA2/802.11i
  - + AES-CCMP
  - + MAC address filtering
  - + Rogue wireless AP detection with email notification

#### **Operating Frequency Range?**

- 5.125~5.350Ghz,
- 5.470~5.750GHz
- 5.725 ~ 5.85GHz
- 2.412~2.484GHz

#### **Receive Sensitivity**

- 802.11a : -88dB @ 6 Mbps, -71dB @ 54Mbps
- 802.11b : -95dB @ 1 Mbps, -90dB @ 11Mbps
- 802.11g : -90dB @ 6 Mbps, -74dB @ 54Mbps

#### **Output Power**

- 802.11a : 17dBm @ 6 Mbps  
13dBm @ 54Mbps
- 802.11b : 18dBm
- 802.11g : 18dBm @ 6 Mbps  
15dBm @ 54Mbps
- Layer 2 Discovering Protocol
- Layer 2 Isolation for Hotspot

#### **Device Management**

- Web Server/HTTPS
- SNMP Agent
- SNMP Trap

#### **Tools and Utilities**

- Ping utility
- Trace route utility

- Firmware upgrade via web
- Reboot device
- Factory default
- NTP (Network Time Protocol)

#### **Environment & Safety**

- Operating Temperature :
  - 5° ~ +50°C standard ;
  - 30° ~ +70° option with TEC
- Storage Temperature :
  - 40° ~ +80°C
- Operating Humidity :
  - 0 ~ 95% non-condensing
- EMI/Safety:
- FCC Class A

#### **Construction**

- Case Aluminum Housing
- Water proof connectors
- IP-65 design spec

#### **Accessories**

- 802.3af POE kit
- Mounting Kits

#### **Ordering Information:**

**WH-5000A** 802.11a/b/g Outdoor AP