

OA200 Outdoor 802.11ag AP

User's Manual

Version 1.0

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1. Introduction

Thank you for purchasing your Wireless 802.11ag Outdoor AP.

This user guide will assist you with the installation procedure.

The package you have received should contain the following items:

- § Wireless 802.11ag Outdoor AP
- § Quick Installation Guide
- § User Manual CD-ROM
- § POE Host/Cord
- § Waterproof RJ-45connector
- § Mount kit package
- § Reset bar
- § RF cable x 2

Note: if anything is missing, please contact your vendor

2. Safety Notification

Your Wireless AP should be placed in a safe and secure location. To ensure proper operation, please keep the unit away from water and other damaging elements. Please read the user manual thoroughly before you install the device. The device should only be repaired by authorized and qualified personnel.

- § Please do not try to open or repair the device yourself.
- § Do not place the device in a damp or humid location, i.e. a bathroom.
- § The device should be placed in a sheltered and non-slip location within a temperature range of +5 to +40 Celsius degree.
- § Please do not expose the device to direct sunlight or other heat sources. The housing and electronic components may be damaged by direct sunlight or heat sources.

3. Outdoor AP default setting

User	
Password	admin
IP Address	192.168.1.250
Subnet Mask	255.255.255.0
RF ESSID	A band: wlan-a G band: wlan-g
Channel	A band: Auto G band: 6
Mode	G band: Mixed
Encryption	Disabled

4. How to Configuring the Dual Band AP

TURN ON POWER SUPPLY

Quick power cycle would caused system corruption. When power on, be careful not to shut down in about 5 seconds, because data is writing to the flash.

START UP & LOGIN

In order to configure the Wireless 11ag AP, you must use web browser and manually input <http://192.168.1.250> into the Address box and press Enter. The Main Page will appear.



In order to configure the Wireless 11ag AP, you must input the password into the **Password** box and leave blank on the **User Name** box. The default password is "**admin**".

Once you have logged-in as administrator, it is a good idea to change the administrator password to ensure a secure protection to the Wireless 11ag AP. The Security Settings section described later in this manual describes how to change the password.

Once you have input the correct password and logged-in, the screen will change to the Setup page screen.

4.1 Setup – Network Setup

MAKE CORRECT NETWORK SETTINGS OF YOUR COMPUTER

To change the configuration, use Internet Explorer (IE) or Netscape Communicator to connect the WEB management 192.168.1.250.

This following screen contains all of the AP's basic setup functions.

The screenshot shows the 'Network Setup' page of a wireless AP. The page has a teal header with 'Wireless A+G' and navigation tabs for 'Setup', 'Wireless', 'Administration', and 'Status'. The 'Setup' tab is active, showing 'Network Setup'. Under 'Identity', there is a 'Device Name' text box and 'Firmware Version: 1.0 - Jun 9 2005, 10:04:50'. Under 'Local Area Network', there is a 'Primary Address Selection' section with radio buttons for 'Dynamic' and 'Static IP'. The 'Static IP' option is selected. Below are input fields for 'IP Address' (192, 168, 1, 250), 'Subnet Mask' (255, 255, 255, 0), and 'Default Gateway Address' (0, 0, 0, 0).

Most users will be able to configure the AP and get it working properly using the default settings.

Network Setup

Identity

Device Name: These fields allow you to input a host name for the AP.

Local Area Network

- ◆ **Dynamic:** If your LAN supports DHCP assigning dynamic IP address then please select this type.
- ◆ **Static IP:**
 - This' s default connection type. If you are required to use a fixed IP address to connect to the LAN, then select **Static IP**.
 - IP Address:** This' s the AP's IP address.
 - Subnet Mask:** This' s the AP's Subnet Mask.
 - Default Gateway:** This' s the AP's Gateway Address.
 - Those above items can be adjusted that depends on real network architecture if it is necessary.

Change these settings as described here and click the **Apply** button to apply your changes or click **Cancel** to cancel your changes. For additional information, click **Help**.

4.2 Wireless – Basic Wireless Settings

Wireless Network

Wireless-A Settings

If you are using a Wireless-A network, then the following settings that you may need to configure.

Mode: This mode is controlling the Wireless-A (802.11a) networking, **Enabled** or **Disabled**.

Turbo Mode: Using this mode enables high-speed connections but severely limits range. To perform this Turbo Mode, both the AP and wireless PCs must support this function. Turbo Mode is Atheros proprietary technology, so it does not compatible with non-Atheros chipset Wireless LAN device, only with Atheros Wireless-A turbo adapters. To increase the speed of your wireless transmissions up to 108 Mbps, select **Enabled**. (Note: the AP's range will decrease in Turbo Mode.) If you do not want to use Turbo Mode, select **Disabled**.

Network Name (SSID): The service set identifier (SSID) or network name. It is case sensitive and must not exceed 32 characters, which may be any keyboard character. You shall have selected the same SSID for all the APs that will be communicating with mobile wireless stations.

Channel: Select the appropriate channel from the list provided to correspond with your network settings. You shall assign a different channel for each AP to avoid signal interference. If you want the AP to automatically scan for a clear channel, then select **Auto (DFS)**.

SSID Broadcast: When wireless clients survey the local area for wireless networks associated, they will detect the SSID broadcast by the AP. To broadcast the AP's SSID, keeps the default setting, **Enabled**. If you do not want to broadcast the AP's SSID, then select **Disabled**.

Wireless-G Settings

If you are using a Wireless-B, Wireless-G, or Wireless B+G network, then the following settings that you may need to configure.

Mode: From this drop-down menu, you can select the wireless standards running on your network. If you have both 802.11g and 802.11b devices in your network, keep the default setting ---**Mixed**. If you have only 802.11g devices, select **Wireless-G Only**. If you have only 802.11b devices, select **Wireless-B Only**. If you do not have any 802.11g and 802.11b devices in your network, select **Disabled**.

Network Name (SSID): The service set identifier (SSID) or network name. It is case sensitive and must not exceed 32 characters, which may be any keyboard character. You shall have selected the same SSID for all the APs that will be communicating with mobile wireless stations.

Channel: Select the appropriate channel from the list provided to correspond with your network settings. You shall assign a different channel for each AP to avoid signal interference.

SSID Broadcast: When wireless clients survey the local area for wireless networks to associate with, they will detect the SSID broadcast by the AP. To broadcast the AP's SSID, keep the default setting, **Enabled**. If you do not want to broadcast the AP's SSID, then select **Disabled**.



Change these settings as described here and click the **Apply** button to apply your changes or click **Cancel** button to cancel your changes. For additional information, click **Help**.

4.3 Wireless – Wireless Mode

There are 3 operating modes in each A,B/G band, using the following setting can perform each function.

Wireless-A Settings

Access Point: This mode provides access for wireless stations to wired LANs and from wired LANs to wireless stations. This mode is not only performing AP function but also support WDS connection. Input remote AP's MAC address in below 4 fields can generate 4 WDS connections with this AP.

Repeater: This mode can be a repeater in your WLAN architecture. Input a SSID that you want to associate in right field.

Wireless Client: This mode can be a client as general WLAN card in your WLAN architecture. Input a SSID that you want to associate in right field. Using one computer with Ethernet interface to connect this device, then the computer will has capacity of WLAN association.

Wireless-G Settings

Access Point: This mode provides access for wireless stations to wired LANs and from wired LANs to wireless stations. This mode is not only performing AP function but also support WDS connection. Input remote AP's MAC address in below 4 fields can generate 4 WDS connections with this AP.

Repeater: This mode can be a repeater in your WLAN architecture. Input a SSID that you want to associate in right field.

Wireless Client: This mode can be a client as general WLAN card in your WLAN architecture. Input a SSID that you want to associate in right field. Using one computer with Ethernet interface to connect this device, then the computer will has capacity of WLAN association.

The screenshot shows the 'Wireless Mode Settings' page. The top navigation bar includes 'Setup', 'Wireless', 'Administration', and 'Status'. The 'Wireless' tab is active, showing sub-tabs for 'Wireless Settings', 'Wireless Mode', 'Wireless MAC Filter', 'Wireless Security', and 'Advanced Wireless Settings'. The main content area is titled 'Wireless Mode Settings' and contains two sections: 'Wireless-A Settings' and 'Wireless-B/G Settings'. Each section has three radio button options: 'Access Point', 'Repeater', and 'Wireless Client'. The 'Access Point' option is selected in both sections. Under the 'Access Point' option, there are four input fields for 'WDS links - Remote APs' MAC Address', each containing '00:00:00:00:00:00'. Under the 'Repeater' and 'Wireless Client' options, there are input fields for 'Remote AP's SSID' (containing 'wlan-a' and 'wlan-g' respectively) and 'Remote AP's MAC Address'. A note indicates that only WEP with Pre-shared key encryption is supported for these modes, with a link to the 'Wireless Security' page. A 'Site Survey' button is present below the 'Repeater' and 'Wireless Client' options. At the bottom of the page, there are 'Apply', 'Cancel', and 'Help' buttons.

Change these settings as described here and click the **Apply** button to apply your changes or click **Cancel** button to cancel your changes. For additional information, click **Help**.

4.4 Wireless MAC Filter

This function allows administrator to have access control by enter MAC address of wireless devices which transmitting within your wireless network.

Wireless-A Setting

Access Control List Mode: This drop-down menu can set Enable/Disable the ACL function.

Default Access: Select the default policy for this ACL rule.

Specific Clients list: Except the default rule, administrator can also create one policy for special client via **Add ACL**.

Wireless-B/G Setting

Access Control List Mode: This drop-down menu can set Enable/Disable the ACL function.

Default Access: Select the default policy for this ACL rule.

Specific Clients list: Except the default rule, administrator can also create one policy for special client via **Add ACL**.

The screenshot shows a web-based configuration interface for Wireless MAC Filtering. At the top, there is a navigation bar with tabs for 'Setup', 'Wireless', 'Administration', and 'Status'. Under the 'Wireless' tab, there are sub-tabs: 'Wireless Settings', 'Wireless Mode', 'Wireless MAC Filter', 'Wireless Security', and 'Advanced Wireless Settings'. The main content area is titled 'Access Control List (ACL)' and includes a description: 'Grant or deny access to individual clients.' Below this, there are two main sections: 'Wireless-A Settings' and 'Wireless-B/G Settings'. Each section contains an 'Access Control List Mode' dropdown menu set to 'Enable', a 'Default Access' section with radio buttons for 'Accept' (selected) and 'Reject', and a 'Specific Clients' table. The table has two columns: 'MAC Address' and 'ACL Type'. Below the table in each section is an 'Add ACL' button. At the bottom of the interface, there are three buttons: 'Apply', 'Cancel', and 'Help'.

Change these settings as described here and click the **Apply** button to apply your changes or click **Cancel** button to cancel your changes. For additional information, click **Help**.

4.5 Wireless – Wireless Security

The Wireless Security settings configure the security of your wireless network. There are three wireless security mode options supported by the AP: WEP (Wired Equivalent Privacy), WPA Pre-Shared Key, WPA RADIUS.

Wireless Security

The security options are the same and independent for your Wireless-A and Wireless-G networks. You can use different wireless security methods for your networks; however, within each network (Wireless-A or Wireless-G), all devices must use the same security method and settings.

Security Mode:

WEP: WEP is a basic encryption method, select a level of WEP encryption, **40/64-bit** or **128-bit**. If you want to use a Passphrase, then enter it in the *Passphrase* field and click the **Generate** button. If you want to enter the WEP key manually, then enter it in the *WEP Key 1-4* field(s). To indicate which WEP key to use, select the appropriate *TX* Key number.

WPA only:

WPA Pre-Shared Key: This security mode offers two encryption methods, TKIP and AES, with dynamic encryption keys. Select the type of encryption method you want to use, **TKIP** or **AES**. Enter the Passphrase, which can have 8 to 63 characters. Then enter the Key Renewal period, which instructs the AP how often it should change the encryption keys.

WPA RADIUS: This security mode must work with a RADIUS server using EAP –TLS or PEAP for user authentication.

To use WPA RADIUS, select the type of encryption method you want to use, **TKIP** or **AES**.

Enter the RADIUS server's IP address and port number (default is 1812), along with the authentication shared key by the AP and the server.

Enter the Key Renewal period, which instructs the AP how often it should change the encryption keys.

The screenshot shows a web interface for configuring wireless security. The top navigation bar includes 'Setup', 'Wireless', 'Administration', 'Status', and 'Advanced Wireless Settings'. The 'Wireless Security Settings' section is expanded, showing two sub-sections: 'Wireless-A Settings' and 'Wireless-B/G Settings'. Each sub-section has a 'Security Mode' dropdown menu, both of which are currently set to 'Disable'. At the bottom of the page, there are three buttons: 'Apply', 'Cancel', and 'Help'.

Change these settings as described here and click the **Apply** button to apply your changes or click **Cancel** button to cancel your changes. For additional information, click **Help**.

4.6 Wireless – Advanced Wireless Settings

This section provides AP's advanced wireless settings. These settings should be adjusted carefully. Any improper settings will affect the AP's wireless performance.

Advanced Wireless

Wireless-A Settings

Authentication Type:

Open System: This is default setting, those wireless clients that NOT use a WEP key for authentication.

Shared Key: This option means the wireless clients use a WEP key for authentication. Shared Key is only available if the WEP option is implemented.

Transmission Rate: The data transmission rate should be set depending on the speed of your wireless network. You can select a proper transmission speeds to fit your wireless clients requirement, or you can select **Auto (Default)** to have the AP automatically adjust one the fastest and suitable data rate to fit network status at the time. Usually this function can be named Auto-Fallback feature. Auto-Fallback will treat one best connection rate between the AP and a wireless client. The default value is **Auto (Default)**.

Transmission Power: This option provides the AP's RFoutput power adjustment. To minimize the possibility of eavesdropping by unauthorized wireless users, suggest to decrease the transmission power with a needed by your wireless environment. By drop down menu, you can select the appropriate level, **Full (Default)**, **Half**, **Quarter**, **Eighth**, or **Min**. The default is **Full (Default)**.

Antenna Select: This option provides antenna setting for which one you would like to set as TX/RX antenna.

ACK Timeout: The Acknowledgement Timeout means from remote to local data transmission, one parameter to control both acknowledging action to guaranty those packets have already be received. Usually, for short distance, keep default setting is proposed. If there is long distance application, have minor increased with this parameter will be proposed.

Beacon Interval: The Beacon Interval value indicates the frequency interval of the beacon. Enter a value between 20 and 1000. A beacon is a packet broadcast by the AP to synchronize the wireless network. The default value is **100**.

DTIM Interval: This value indicates the interval of the Delivery Traffic Indication Message (DTIM). A DTIM field is a countdown field informing clients of the next window for listening to broadcast and multicast messages. When the AP has buffered broadcast or multicast messages for associated clients, it sends the next DTIM with a DTIM Interval value. Its clients hear the beacons and awaken to receive the broadcast and multicast messages. The default value is **1**.

Fragmentation Threshold: This value specifies the maximum size for a packet before data is fragmented into multiple packets. If you experience a high packet error rate, you may slightly increase the Fragmentation Threshold. Setting the Fragmentation Threshold too low may result in poor network performance. Only minor reduction of the default value is recommended. In most cases, it should remain at its default value of **2346**.

RTS Threshold: Using this setting can regulate your wireless network if you experience any inconsistent data flow situation, only by minor adjustment of the default value, the default value **2346** is recommended. The RTS/CTS mechanism will not be enabled if your wireless network packet less than RTS threshold value. The AP sends Request to Send (RTS) frames to a particular receiving station and negotiates the sending of a data frame. After receiving an RTS, the wireless station responds with a Clear to Send (CTS) frame to acknowledge the right to begin transmission. The RTS Threshold value should keep at its default value of **2346**.

Wireless-B/G Settings

Authentication Type:

Open System: This is default setting, those wireless clients that NOT use a WEP key for authentication.

Shared Key: This option means the wireless clients use a WEP key for authentication. Shared Key is only available if the WEP option is implemented.

Transmission Rate: The data transmission rate should be set depending on the speed of your wireless network. You can select a proper transmission speeds to fit your wireless clients requirement, or you can select **Auto (Default)** to have the AP automatically adjust one the fastest and suitable data rate to fit network status at the time. Usually this function can be named Auto-Fallback feature. Auto-Fallback will treat one best connection rate between the AP and a wireless client. The default value is **Auto (Default)**.

Transmission Power: This option provides the AP's RFoutput power adjustment. To minimize the possibility of eavesdropping by unauthorized wireless users, suggest to decrease the transmission power with a needed by your wireless environment. By drop down menu, you can select the appropriate level, **Full (Default)**, **Half**, **Quarter**, **Eighth**, or **Min**. The default is **Full (Default)**.

Antenna Select: This option provides antenna setting for which one you would like to set as TX/RX antenna.

ACK Timeout: The Acknowledgement Timeout means from remote to local data transmission, one parameter to control both acknowledging action to guaranty those packets have already be received. Usually, for short distance, keep default setting is proposed. If there is long distance application, have minor increased with this parameter will be proposed.

Beacon Interval: The Beacon Interval value indicates the frequency interval of the beacon. Enter a value between 20 and 1000. A beacon is a packet broadcast by the AP to synchronize the wireless network. The default value is **100**.

DTIM Interval: This value indicates the interval of the Delivery Traffic Indication Message (DTIM). A DTIM field is a countdown field informing clients of the next window for listening to broadcast and multicast messages. When the AP has buffered broadcast or multicast messages for associated clients, it sends the next DTIM with a DTIM Interval value. Its clients hear the beacons and awaken to receive the broadcast and multicast messages. The default value is **1**.

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RTS /CTS Threshold: Using this setting can regulate your wireless network if you experience any inconsistent data flow situation, only by minor adjustment of the default value, the default value **2346** is recommended. The RTS/CTS mechanism will not be enabled if your wireless network packet less than RTS threshold value. The AP sends Request to Send (RTS) frames to a particular receiving station and negotiates the sending of a data frame. After receiving an RTS, the wireless station responds with a Clear to Send (CTS) frame to acknowledge the right to begin transmission. The RTS Threshold value should keep at its default value of **2346**.

Short Preamble: This setting is for 11b clients, usually set **short** value will enhance your WLAN performance for 11b client, however the 11b clients must have same feature as well.

Allow 2.4GHz 54Mbps Station Only: In order to keep high performance for this WLAN, set this option **Enable** will only allow stations with 54Mbps data rate to associate this AP.

RTS/CTS Protection Mode: CTS (Clear-To-Send) Protection Mode should be set to **Auto (Default)**. The AP will automatically use CTS Protection Mode when the Wireless-G products are experiencing severe problems and are not able to transmit to the AP in an environment with heavy 802.11b traffic. This function boosts the AP's ability to catch all Wireless-G transmissions but will severely decrease the performance. If you do not want to use CTS Protection Mode at all, select **Disabled**.

RTS/CTS Protection Rate: This setting is set the rate of RTS/CTS while protection mode is enabled.

RTS/CTS Protection Type: This protection mode provides 2 types, one is RTS/CTS and other is CTS only.

Generally, using CTS only is able to fulfill most of environment.

This section provides AP's advanced wireless settings. These settings should be adjusted carefully. Any improper settings will affect the AP's wireless performance.

The screenshot shows the 'Advanced Wireless' configuration page. At the top, there is a navigation bar with tabs for 'Setup', 'Wireless', 'Administration', and 'Status'. Below this, there are sub-tabs for 'Wireless Settings', 'Wireless Mode', 'Wireless MAC Filter', 'Wireless Security', and 'Advanced Wireless Settings'. The 'Advanced Wireless' section is divided into two main parts: 'Wireless-A Settings' and 'Wireless-B/G Settings'. Each part contains a list of configuration parameters with their current values and default ranges.

Setting	Value	Default / Range
Authentication Type:	Open System (Default)	
Transmission Rate:	best	
Transmission Power:	Full	
Antenna Select:	Diversity	
ACK Timeout:	48	(Default: 48, Range: 0 ~ 372)
Beacon Interval:	100	(Default: 100 Milliseconds, Range: 20 ~ 1000)
DTIM Interval:	1	(Default: 1, Range: 1 ~ 16384)
Fragmentation Threshold:	2346	(Default: 2346, Range: 256 ~ 2346)
RTS/CTS Threshold:	2346	(Default: 2346, Range: 256 ~ 2346)
Authentication Type:	Open System (Default)	
Transmission Rate:	best	
Transmission Power:	Full	
Antenna Select:	Diversity	
ACK Timeout:	48	(Default: 48, Range: 0 ~ 372)
Beacon Interval:	100	(Default: 100 Milliseconds, Range: 20 ~ 1000)
DTIM Interval:	1	(Default: 1, Range: 1 ~ 16384)
Fragmentation Threshold:	2346	(Default: 2346, Range: 256 ~ 2346)
RTS/CTS Threshold:	2346	(Default: 2346, Range: 0 ~ 2346)
Short Preamble:	<input checked="" type="radio"/> Enable	<input type="radio"/> Disable
Allow 2.4GHz 54Mbps Stations Only:	<input checked="" type="radio"/> Disable	<input type="radio"/> Enable
RTS/CTS Protection Mode:	Auto	
RTS/CTS Protection Rate:	11 Mbps	
RTS/CTS Protection Type:	<input checked="" type="radio"/> CTS-only	<input type="radio"/> RTS-CTS

Change these settings as described here and click the **Apply** button to apply your changes or click **Cancel** to cancel your changes. For additional information, click **Help**.

4.7 Administration – Management

This section allows the network's administrator to manage specific AP functions for access and security.

Management

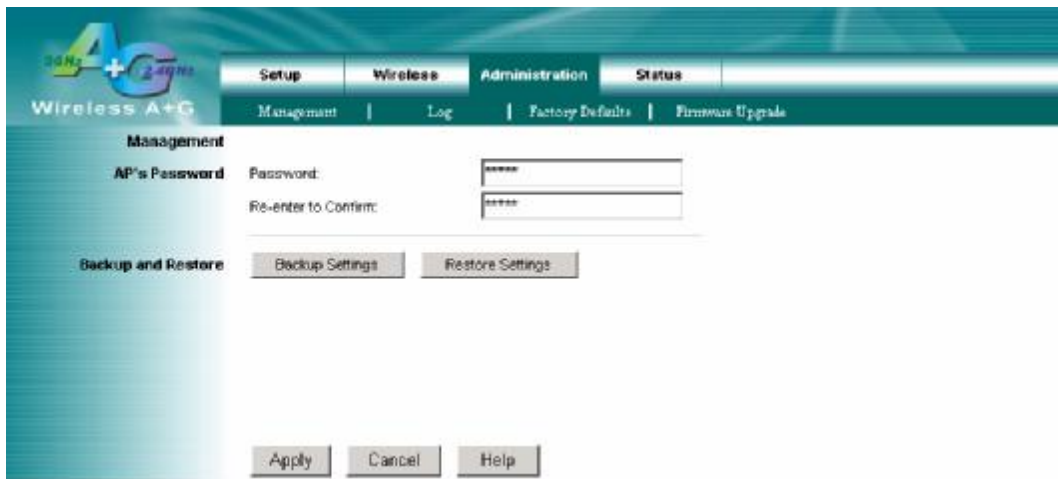
AP Password

AP Password and Re-enter to Confirm: You can change the AP's password from here. Enter a new AP password and then type it again in the Re-enter to Confirm field to confirm.

Backup and Restore

Backup Settings: To back up the AP's configuration, click this button and follow the on-screen instructions.

Restore Settings: To restore the AP's configuration, click this button and follow the on-screen instructions. (You must have previously backed up the AP's configuration.)



The screenshot displays the 'Administration' section of the Wireless A+G web interface. The navigation bar includes 'Setup', 'Wireless', 'Administration', and 'Status'. Under 'Administration', there are links for 'Management', 'Log', 'Factory Defaults', and 'Firmware Upgrade'. The 'Management' section is active, showing the 'AP's Password' configuration with two password input fields: 'Password:' and 'Re-enter to Confirm:'. Below this is the 'Backup and Restore' section with 'Backup Settings' and 'Restore Settings' buttons. At the bottom of the page are 'Apply', 'Cancel', and 'Help' buttons.

Change these settings as described here and click the **Apply** button to apply your changes or click **Cancel** to cancel your changes. For additional information, click **Help**.

4.8 Administration – Reboot AP

AP Reboot: Click this button to initialize this device.



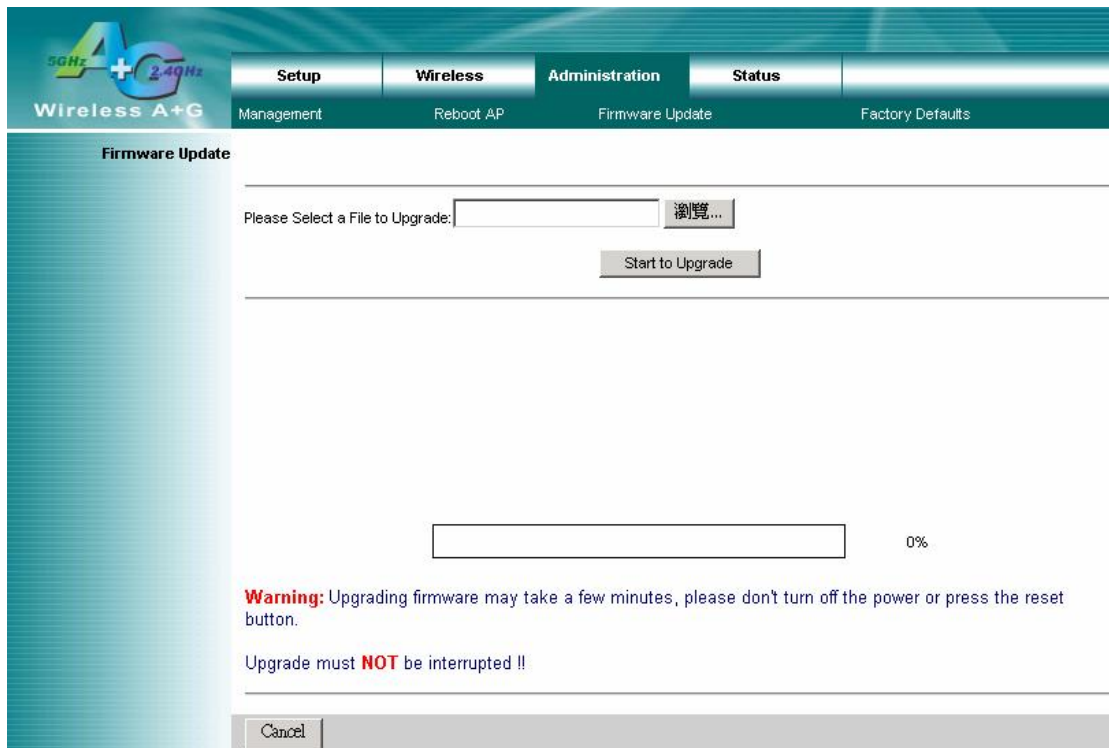
4.9 Administration – Firmware Upgrade

This Firmware Upgrade screen allows you to upgrade the AP's firmware. Do not upgrade the firmware unless you are experiencing problems with the AP or the new firmware has a feature you want to use.

Firmware Upgrade

Please select a file to upgrade: In the field provided, enter the name of the extracted firmware upgrade file, or click the **Browse** button to find this file.

Start to Upgrade: After you have selected the appropriate file, click this button for upgrade.



The screenshot shows a web interface for a Wireless A+G device. The top navigation bar includes 'Setup', 'Wireless', 'Administration', and 'Status'. Under 'Administration', there are sub-links for 'Management', 'Reboot AP', 'Firmware Update', and 'Factory Defaults'. The main content area is titled 'Firmware Update' and contains a text input field with the placeholder 'Please Select a File to Upgrade:'. To the right of the input field is a '浏览...' (Browse) button. Below the input field is a 'Start to Upgrade' button. At the bottom of the form, there is a progress bar showing 0% completion. Below the progress bar, a warning message states: 'Warning: Upgrading firmware may take a few minutes, please don't turn off the power or press the reset button. Upgrade must NOT be interrupted !!'. A 'Cancel' button is located at the bottom left of the form.

4.10 Administration – Factory Defaults

This Factory Defaults allows you to restore the AP's configuration to its factory default settings.

Factory Defaults

Restore Factory Defaults: Click this button to reset all configuration settings to their default values. Any settings you have saved will be lost when the default settings are restored.



4.11 Status – Local Network

The Local Network screen on the Status Tab displays the status of your network.

AP's Information

Firmware Version: The current AP firmware version display here.

Local Network

Local MAC Address: This is the AP's local physical MAC Address.

Connection Type: The current IP address type --- Dynamic or Static.

IP Address: The current AP's IP address.

Subnet Mask: This is AP's local subnet mask.

Default Gateway: This is the local network gateway IP.



The screenshot shows the 'Status' tab of the AP's web interface. The 'Local Network' section is active, displaying the following information:

Firmware Version:	1.1, Apr 22, 2005
Local MAC Address:	00:90:4b:da:e7:92
Connection Type :	Static IP
IP Address:	192.168.1.25
Subnet Mask:	255.255.255.0
Default Gateway :	192.168.1.1

4.12 Status – Wireless Network

The Wireless Network screen on the Status Tab displays the information of your Wireless networks.

Wireless Network

Wireless-A

MAC Address: This is the AP's Wireless-A band MAC Address.

Mode: This mode is displaying the current status of Wireless-A band network. **Enabled** means the A band network is ON.

Turbo Mode: This mode is displaying the turbo mode status. (**Enabled/Disabled**)

Network Name (SSID): The Wireless-A band network name.

Channel: 3 Channel for 5745, 5785, 5825.

Security: This displays what type of encryption you are using.

SSID Broadcast: This displays the AP's SSID Broadcast status.

Wireless-G

MAC Address: This is the AP's Wireless-G band MAC Address.

Mode: This displays the Wireless-G band network mode.

Network Name (SSID): The Wireless-G band network name.

Channel: CH1~CH11.

Security: This displays what type of encryption you are using.

SSID Broadcast: This displays the AP's SSID Broadcast status.

The screenshot shows a web interface for a wireless network. At the top, there is a navigation bar with tabs for 'Setup', 'Wireless', 'Administration', and 'Status'. Below this, there are sub-tabs for 'Local Network' and 'Wireless Network'. The main content area is titled 'Wireless Network' and is divided into two sections: 'Wireless-A Information' and 'Wireless-G Information'. Each section lists various network parameters and their current status.

Section	Parameter	Value
Wireless-A Information	MAC Address:	00:90:4b:dac:e7:90
	Mode:	Enabled
	Turbo Mode:	Disabled
	Network Name (SSID):	wlan-a
	Channel:	Auto (DFS)
	Security:	Disabled
	SSID Broadcast:	Enabled
Wireless-G Information	MAC Address:	00:90:4b:dac:e7:91
	Mode:	Mixed
	Network Name (SSID):	wlan-g
	Channel:	6 - 2.437GHz
	Security:	Disabled
	SSID Broadcast:	Enabled

4.13 Status – Wireless Statistics

Wireless Statistics: This displays the AP and stations that are currently part of the BSS.

The screenshot shows a web interface for 'Wireless A+G'. The top navigation bar includes 'Setup', 'Wireless', 'Administration', and 'Status'. Below this, there are sub-tabs for 'Local Network', 'Wireless Network', and 'Wireless Statistics'. The 'Wireless Statistics' section is active and displays the following information:

Wireless Statistics
This shows the Access Point and the stations that are currently part of the BSS.

Wireless-A 5GHz Statistics

ID	MAC Address	State
AP	00:90:4B:DA:E7:93	up

Wireless-B/G 2.4GHz Statistics

ID	MAC Address	State
AP	00:90:4B:DA:E7:94	up

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1)•This device may not cause harmful interference.

(2)•This device must accept any interference received, including interference that may cause undesired
operation.

Any changes or modifications (including the antennas) made to this device that are not expressly approved by
the manufacturer may void the user's authority to operate the equipment.

In order to maintain compliance with the FCC RF exposure guidelines, this equipment should be installed and
operated with minimum distance 20cm between the radiator and your body. Use only with supplied antenna.
Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC
regulations.

REMARK: 5150MHz~5250MHz, 5250MHz ~ 5350MHz frequency will be disabled by firmware.

A Professional installer who is trained in RF installation and knowledgeable in the local regulations prior to
connecting an external antenna to your wireless radio product.

5. Troubleshooting – Q & A

1. I'm trying to log on the AP's Web configuration page, but I do not see the login screen.

Answer:

1. Please make sure the IP address that you input on address field of IE browser is correct.
2. Make sure the physical layer connection is established. If you are using wired to connect this AP, check the relevant LAN LED whether is lit or not.
3. On Dos Prompt screen, using “ ping “ command to probe this AP, check if you got reply from it.
Command: ping < Destination IP address >
4. If you have any TCP/IP setting problem, please refer to the Quick Installation Guide.

2. I forgot my password, how to log on this AP for configuration?

Answer:

1. Reset the AP to factory default by pressing the Reset button for 10 seconds then releasing it.
2. Log on the AP's web management by <http://192.168.1.250>
Leave username blank and enter the default password **admin**.

3. How to set the AP to factory default setting.

Answer:

1. Reset the AP to factory default by pressing the Reset button for 10 seconds then releasing it.
2. After release the Reset button, the AP will get back all setting to factory default and reboot system.
3. While the reboot is complete, log on the AP's web management by default IP <http://192.168.1.250>
Leave username blank and enter the default password **admin**.

4. My AP will not turn on. No LED's light up.

Answer:

Usually it is caused by the power is not connected.
Please double check the power adapter if it connected to your AP and the other side is plugged into the power outlet.
If it still has no power, please contact your reseller.

5. I can't access the AP from a wireless client.

Answer:

Generally to make the wireless client unable to access AP with following possible issues:

1. Settings are not the same among each wireless adapter.
2. Out of range.
3. IP Address is not set correctly.

Resolution:

Make sure that the mode, SSID, Channel and encryption settings are set the same on each wireless adapter. Make sure that your computer is within range and free from any strong electrical devices that may cause interference.

6. What devices cause interference?

Answer:

The AP is operating in the unlicensed 2.4 GHz band and 5GHz. Other devices operates in this frequency range that may cause interference include microwave ovens and 2.4 GHz portable phones. PCs or analog cellular phones do not operate at 2.4 GHz and do not cause interference. Proper placement of access points usually eliminates interference problems created by other 2.4 GHz devices.