

# WL-5460AP v2

802.11g Multi-function Wireless Access Point

# **User's Manual**



#### **Declaration of Conformity**

We, Manufacturer/Importer OvisLink Corp. 5F., NO.6, Lane 130, Min-Chuan Rd., Hsin-Tien City, Taipei County, Taiwan

Declare that the product

#### 802.11g Multi-function Wireless Access Point

WL-5460AP, WL-5450AP

is in conformity with

In accordance with 89/336 EEC-EMC Directive and 1999/5 EC-R & TTE Directive

<u>Clause</u>	<b>Description</b>
---------------	--------------------

- EN 300 328 V1.6.1 Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission equipment operating in the 2.4GHz ISM band And using spread spectrum modulation techniques; Part 1 : technical Characteristics and test conditions Part2 : Harmonized EN covering Essential requirements under article 3.2 of the R&TTE Directive
- EN 301 489-1 V1.4.1 Electromagnetic compatibility and Radio spectrum Matters (ERM);
   (2002-08) Electromagnetic compatibility(EMC) standard for radio equipment and
   EN 301 489-17 V1.2.1 Services; Part 17 : Specific conditions for wideband data and HIPERLAN equipment
- EN 55022: 1998/A1 Limits and methods of measurement of radio disturbance characteristics of information technology equipment
- EN 55024:1998/A1 Information Technology equipment-Immunity characteristics-Limits and :2001/A2:2003 Methods of measurement
- EN 50385 Product standard to demonstrate the Compliance of radio base stations and Fixed terminal stations for wireless Telecommunication System with the Basic restrictions or the reference levels related to human exposure to radio Frequency electromagnetic fields (110 MHz 40 GHz) General public
- EN 60950-1:2001/ Safety for information technology equipment including electrical business equipment

■ CE marking

# (€0560Ф

Signature : Name : Position/ Title :

<u>Manuf</u>	<u>°acturer/Importer</u>
Albert V	le
Albert Yeh	
Vice President	1

Date : 2007/4/18

(Stamp)

#### WL-5450(5460)AP CE Declaration Statement

Country	Declaration	Country	Declaration
cs	OvisLink Corp. tímto prohlašuje, že tento	lt	šiuo OvisLink Corp. deklaruoja, kad
Česky [Czech]	WL-5450(5460)AP je ve shodě se základními	Lietuvių	šisWL-5450(5460)AP atitinka esminius reikalavimus
	požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.	[Lithuanian]	ir kitas 1999/5/EB Direktyvos nuostatas.
da	Undertegnede OvisLink Corp. erklærer herved, at		Hierbij verklaart OvisLink Corp. dat het toestel
Dansk [Danish]	følgende udstyr WL-5450(5460)APoverholder de	Nederlands [Dutch	WL-5450(5460)AP in overeenstemming is met de
	væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.		essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
de	Hiermit erklärt OvisLink Corp., dass sich das	mt	Hawnhekk, OvisLink Corp, jiddikjara li dan
Deutsch	Gerät WL-5450(5460)APin Übereinstimmung mit	Malti [Maltese]	WL-5450(5460)AP jikkonforma mal-ħtiġijiet
[German]	den grundlegenden Anforderungen und den		essenzjali u ma provvedimenti oħrajn relevanti li
	übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.		hemm fid-Dirrettiva 1999/5/EC.
et		hu	Alulírott, OvisLink Corp nyilatkozom, hogy a
Eesti [Estonian]	WL-5450(5460)AP vastavust direktiivi 1999/5/EÜ	Magyar	WL-5450(5460)AP megfelel a vonatkozó alapvető
		[Hungarian]	követelményeknek és az 1999/5/EC irányelv egyéb
	teistele asjakohastele sätetele.		előírásainak.
en	Hereby, OvisLink Corp., declares that this	pl	Niniejszym OvisLink Corp oświadcza, że
English	WL-5450(5460)AP is in compliance with the	Polski [Polish]	WL-5450(5460)AP jest zgodny z zasadniczymi
-	essential requirements and other relevant		wymogami oraz pozostałymi stosownymi
	provisions of Directive 1999/5/EC.		postanowieniami Dyrektywy 1999/5/EC.
es	Por medio de la presente OvisLink Corp. declara	pt	OvisLink Corp declara que este
Español	que el WL-5450(5460)APcumple con los	Português	WL-5450(5460)APestá conforme com os requisitos
[Spanish]	requisitos esenciales y cualesquiera otras	[Portuguese]	essenciais e outras disposições da Directiva
	disposiciones aplicables o exigibles de la		1999/5/CE.
	Directiva 1999/5/CE.		
el	$M \to THN ΠΑΡΟΥΣΑ OvisLink Corp. ΔΗΛΩΝΕΙ$	sl	OvisLink Corp izjavlja, da je ta WL-5450(5460)AP v
Ελληνική [Greek]	ΟΤΙWL-5450(5460)ΑΡ ΣΥΜΜΟΡΦΩΝΕΤΑΙ	Slovensko	skladu z bistvenimi zahtevami in ostalimi relevantnimi
	ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ	[Slovenian]	določili direktive 1999/5/ES.
	ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ		
	1999/5/EK.		
fr	Par la présente OvisLink Corp. déclare que	sk	OvisLink Corp týmto vyhlasuje, že WL-5450(5460)AP
Français [French]	l'appareil WL-5450(5460)AP est conforme aux	Slovensky [Slovak]	spĺňa základné požiadavky a všetky príslušné
	exigences essentielles et aux autres dispositions		ustanovenia Smernice 1999/5/ES.
	pertinentes de la directive 1999/5/CE		
it	Con la presente OvisLink Corp. dichiara che	fi	OvisLink Corp vakuuttaa täten että
Italiano [Italian]	questo WL-5450(5460)AP è conforme ai requisiti	Suomi [Finnish]	WL-5450(5460)AP tyyppinen laite on direktiivin
	essenziali ed alle altre disposizioni pertinenti		1999/5/EY oleellisten vaatimusten ja sitä koskevien
	stabilite dalla direttiva 1999/5/CE.		direktiivin muiden ehtojen mukainen
1×	Ar šo OvisLink Corp. deklarē, ka		Hér með lýsir OvisLink Corp yfir því að
Latviski [Latvian]	WL-5450(5460)AP atbilst Direktīvas 1999/5/EK	Íslenska [Icelandic]	WL-5450(5460)AP er í samræmi við grunnkröfur og
	būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.		aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC.
sv	Härmed intygar OvisLink Corp. att denna	no	OvisLink Corp erklærer herved at utstyret
Svenska	WL-5450(5460)AP står I överensstämmelse med	Norsk [Norwegian]	WL-5450(5460)AP er i samsvar med de
[Swedish]	de väsentliga egenskapskrav och övriga		grunnleggende krav og øvrige relevante krav i
	relevanta bestämmelser som framgår av direktiv		direktiv 1999/5/EF.
	1999/5/EG.		

A copy of the full CE report can be obtained from the following address:

OvisLink Corp. 5F, No.6 Lane 130, Min-Chuan Rd, Hsin-Tien City, Taipei, Taiwan, R.O.C.

This equipment may be used in AT, BE, CY, CZ, DK, EE, FI, FR, DE, GR, HU, IE, IT, LV, LT, LU, MT, NL, PL, PT, SK, SI, ES, SE, GB, IS, LI, NO, CH, BG, RO, TR

# FCC Certifications

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

# CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

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

# FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

# **CE Mark Warning**

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

All trademarks and brand names are the property of their respective proprietors.

Specifications are subject to change without prior notification.

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# Introduction

• WL-5460APv2 is world's most popular multi-function access point. It features an impressive total of 7 wireless multi-function modes that are not available in normal access point. In addition, the ACK timeout and RSSI feature makes it suitable for long distance application. From ordinary AP application to Hotspot and WISP usage, you will find the WL-5460AP is the device you want.

• WL-5460APv2 is an IEEE802.11b/g compliant 11 Mbps & 54 Mbps Ethernet Wireless Access Point. The Wireless Access Point is equipped with two 10/100 M Auto-sensing Ethernet ports for connecting to LAN and also for cascading to next Wireless Access Point.

• WL-5460APv2 provides 64/128bit WEP encryption, WPA-PSK, WPA2-PSK and IEEE802.1x which ensures a high level of security to protect users' data and privacy. The MAC Address filter prevents the unauthorized MAC Addresses from accessing your Wireless LAN. Your network security is therefore double assured.

The web-based management utility is provided for easy configuration that your wireless network connection is ensured to be always solid and hassle free.

# Features

- 1. 2x100Mbps LAN ports for Wireless AP cascade.,2MB flash,16MB SDRAM.
- 2. 18dBm output Power.
- 3. **AP**, **Client**, **Bridge**, **WDS Repeater**, **Universal Repeater** mode.
- 4. WISP Client Router, WISP+ Universal Repeater mode.
- 5. Allows WEP 64/128 bit.
- 6. Support WPA-PSK, WPA2-PSK encryption.
- 7. Support data rate automatic fallback.
- 8. Automatic channel selection.
- 9. Allowable channels: 1~11 (USA [FCC]), 1~13 (Europe [ETSI])
- 10. Client access control.
- 11. Supports 802.1x/Radius client with EAP-TLS, TKIP, AES encryption.
- 12. Supports IAPP.
- 13. Adjustable Tx power, Tx rate, and SSID broadcast.
- 14. ACK Timeout , Watch dog function.
- 15. Web interface management.
- 16. Support System event log and statistics.
- 17. MAC filtering (For wireless only).

# Parts, Names, and Functions

#### 1. Front Panel: (LED Indicators) (5460AP / 5460AP v2)

Power Status Link/Act. WEP/WPA MAC Ctrl Bridge /Repeater LAN1 LAN2 WL-5460AP 1 2 3 4 5 6 7 8

	LED		Status	
	Indicator	Color	Solid	Flashing
1	Power	Green	Turns solid green when power is	N/A.
			applied to this device.	
2	Status	Red	Turns solid red when the device is	
			booting, after boot successfully, the	
			light turn off.	
3~6	Link/Act.	Green	Turns solid green when connected	Receiving/
Wireless			and associated to at least a client	Sending data
			station.	
	WEP/WPA	Orange	Turns solid orange when wireless	N/A
			security is enabled.	
	MAC Ctrl	Orange	e Turns solid orange when MAC Control N/A	
			is enabled.	
	Bridge /	Orange	Turn solid <b>orange</b> when Bridge or N/A	
	Repeater		Repeater is enabled.	
7~8	LAN 1	Croon	Turns solid green when linked to a Receiving/	
Wired	LAN 2	Green	local network.	Sending data

Table 1: LED Indicators

#### 2. Rear Panel: Connection Ports (5460AP / 5460AP v2)



	Port/button	Functions	
Α	12V DC	Connects the power adapter plug	
В	LAN1	Connects to Ethernet	
С	LAN2	Connects to Ethernet	
D	(Factory)	Press over 3 seconds to reboot this device.	
	RESET	Press for over 10 seconds to restore factory settings.	
		Performing the Factory Reset will erase all previously entered	
		device settings.	

#### Table 2: Connection Ports

# Factory Default Settings

Setting	Wireless Access Point	
Device Name	WL-5460AP v2	
SSID	Default value: <b>airlive</b>	
Channel	Default value: <b>13</b>	
WEP	Default value: <b>Disabled</b>	
IP Address	Default value: 192.168.100. 252	
DHCP Server	• In <b>AP</b> , <b>Client</b> , and <b>Repeater</b> mode, the default DHCP Server is	
	disabled, Please set your PC's IP to the same subnet as the AP to	
	access the AP.	
	• In <b>WISP</b> mode, the default DHCP server is <b>enabled</b> . Please restart	
	your PC to renew the IP address.	
DHCP Server IP Range	192.168.100.100~192.168.100.200	

Table 3: Default Setting

# **Hardware Connection**

Note: Before you starting hardware connection, you are advised to find an appropriate location to place the Access Point. Usually, the best place for the Access Point is at the center of your wireless network, with line of straight to all your wireless stations. Also, remember to adjust the antenna; usually the higher the antenna is placed; the better will be the performance.



- 1. Connect to your local area network: connect an Ethernet cable to one of the Ethernet port.
- 2. (LAN1 or LAN2) of this Wireless Access Point, and the other end to a hub, switch, router, or another wireless access point.
- 3. Power on the device: connect the included AC power adapter to the Wireless Access Point's power port and the other end to a wall outlet.

#### · Check the LED:

The Power and LAN # LED should be ON. LAN# LED will even blink if there is traffic.

The Link/Act LED will be on in static when associated with a station and blink whenever this AP receives data packets in the air.

If the Status LED glows after self-test, it means the Wireless Access Point fails on self test. Please ask your dealer for technical support.

- 4. Please make sure your computer IP is in the same subnet as the AP (i.e. 192.168.100.x).
- 5. please make sure your computer has wireless network adapter installed.
- 6. Open the web browser and enter http://192.168.100.252/.

# **About the Wireless Operation Modes**

The WL-5460AP v2 device provides all 7 modes of wireless operational applications with:

- 1 Access Point Mode.
- 2 Client Mode.
- 3 Bridge Mode.
- 4 WDS Repeater Mode.
- 5 Universal Repeater Mode.
- 6 WISP (Client Router) Mode.
- 7 WISP + Universal Repeater Mode.

This device is shipped with configuration that is functional right out of the box. If you want to change the settings in order to perform more advanced configuration or even change the mode of operation, you can use the web-based utility provided by the manufacturer as described in the following sections.

#### **Access Point Mode**

When acting as an access point (default setting), this device connects all the stations (PC/notebook with wireless network adapter) to a wired network. All stations can have the Internet access if only the Access Point has the Internet connection. See the sample application below.



To set the operation mode to "Access Point", please go to "Mode  $\rightarrow$  AP" and click the Setup button.

Air Live	WLAN Access Point					
OvisLink Corp	Mode Status TCP/IP Reboot Other System / Statistics / Active Clients					
	Wireless Mode	Wireless Mode				
This page is used to setup different wireless mode.	© AP	Setup	Access Point.			
	C Client	Setup	Client-Infrastructure / Client Ad-Hoc.			
	C Bridge	Setup	Bridge.			
	O WDS Repeater	Setup	WDS Repeater.			
	C Universal Repeater	Setup	Universal Repeater.			
	C WISP	Setup	WISP.			
	O WISP + Universal Repeater	Setup	WISP + Universal Repeater.			

#### **Client Mode (Infrastructure)**

If set to Client (Infrastructure) mode, this device can work like a wireless station when it's connected to a computer so that the computer can send packets from wired end to wireless interface.

Refer to the illustration below. This station (AP1 plus the connected computer 1) can associate to another Access Point (AP2), and then can have the Internet access if the other Access Point (AP2) has the Internet connection.



#### Client Mode (Infrastructure)

To set the operation mode to "Client (Infrastructure)", Please go to "Mode  $\rightarrow$ Client" and click the <u>Setup</u> button.

In the "Network Type" field, select as "infrastructure" for configuration.



## Client Mode (Ad-hoc)

If set to the Client (Ad-hoc) mode, this device can work like a wireless station when it is connected to a computer so that the computer can send packets from wired end to wireless interface. You can share files and printers between wireless stations (PC and laptop with wireless network adapter installed). See the sample application below.



To set the operation mode to "Client (Ad-Hoc)", Please go to "Mode  $\rightarrow$ Client" and click the <u>Setup</u> button. In the "Network Type" field, select as "infrastructure" for configuration.

<b>Air Live</b>	WLAN	Access Point	
OvisLink Corp	Mode Status	TCP/IP Reboot Other	
	Client Mode Se	ttings	
This page is used to setup different wireless mode.	Alias Name:	Wireless_AP	1
mileleoo moue.	🗖 Disable Wireless	LAN Interface	
	Band:	2.4 GHz (B+G)	
	Network Type:	Infrastructure 💌	
	SSID:	Infrastructure Ad hoc	Site Survey
	Channel Number:	13 🗾	
	🗖 Auto Mac Clone	(Single Ethernet Client)	
	Manual MAC Clone Address:	00000000000	
	Security:	Setup	
	Advanced Settings:	Setup	
	Apply Changes	Reset	

## Bridge Mode

In this mode, 2 access points in two remote locations connect to each other to provide a wireless bridge between 2 remote LANs. It is mostly used by enterprise to connect 2 remote office's network together. The bridge modes are connected by using either the WDS (Wireless Distribution System) or Ad-Hoc topology. This feature is also useful when users want to bridge networks between buildings where it is impossible to deploy network cable connections between these buildings.



To set the operation mode to "Bridge", Please go to "Mode  $\rightarrow$  Bridge" and click the **Setup** button for configuration.

Air Live	WLAN Access Point			
OvisLink Corp	Mode Status TCP/IF	R∈boot	Other	
	Wireless Mode			
This page is used to setup different wireless mode.	Сар	Setup	Access Point.	
	C Client	Setup	Client-Infrastructure / Client Ad-Hoc.	
	Bridge	Setup	Bridge.	
	C WDS Repeater	Setup	WDS Repeater.	
	C Universal Repeater	Setup	Universal Repeater.	
	C WISP	Setup	WISP.	
	C WISP + Universal Repeater	Setup	WISP + Universal Repeater.	

## WDS Repeater Mode

A repeater's function is to extend the wireless coverage of another wireless AP or router. For WDS repeater to work, the remote wireless AP/Router must also support WDS function.



To set the operation mode to "WDS Repeater", Please go to "Mode  $\rightarrow$ WDS Repeater" and click the Setup button for configuration.

<b>Air Live</b>	WLAN Access Point				
OvisLink Corp	Mode Status TCP/IP Reboot Other				
	Wireless Mode				
This page is used to setup different wireless mode.	C AP	Setup	Access Point.		
micress mode.	C Client	Setup	Client-Infrastructure / Client Ad-Hoc.		
	C Bridge	Setup	Bridge.		
	WDS Repeater	Setup	WDS Repeater.		
	C Universal Repeater	Setup	Universal Repeater.		
	C WISP	Setup	WISP.		
	C WISP + Universal Repeater	Setup	WISP + Universal Repeater.		

## Universal Repeater Mode

A universal repeater can also extend the wireless coverage of another wireless AP or router. But the universal repeater does not require the remote device to have WDS function. Therefore, it can work with almost any wireless device.

Note: When you are using the universal repeater mode, please make sure the remote AP/Router's WDS function is turned off.



To set the operation mode to "Universal Repeater", Please go to "Mode  $\rightarrow$ Universal Repeater" and click the **Setup** button for configuration.

Air Live OvisLink Corport	WLAN Acce		
	Wireless Mode		
This page is used to setup different wireless mode.	САР	Setup	Access Point.
	C Client	Setup	Client-Infrastructure / Client Ad-Hoc.
	C Bridge	Setup	Bridge.
	C WDS Repeater	Setup	WDS Repeater.
	• Universal Repeater	Setup	Universal Repeater.
	C WISP	Setup	WISP.
	© WISP + Universal Repeater	Setup	WISP + Universal Repeater.

## WISP ( Client Router) Mode

#### WISP (Client Router) mode

In WISP mode, the AP will behave just the same as the Client mode for wireless function. However, Router functions are added between the wireless WAN side and the Ethernet LAN side. Therefore, The WISP subscriber can share the WISP connection without the need for extra router.



To set the operation mode to "WISP", Please go to "Mode  $\rightarrow$ WISP" and click the **Setup** button for configuration.

Air Live	WLAN Access Point			
OvisLink Corp	Mode Status TCP/IF	P <sup> </sup> R∈boot	Other	
	Wireless Mode			
This page is used to setup different wireless mode.	САР	Setup	Access Point.	
	C Client	Setup	Client-Infrastructure / Client Ad-Hoc.	
	C Bridge	Setup	Bridge.	
	C WDS Repeater	Setup	WDS Repeater.	
	C Universal Repeater	Setup	Universal Repeater.	
	• WISP	Setup	WISP.	
	C WISP + Universal Repeater	Setup	WISP + Universal Repeater.	

#### WISP + Universal Repeater Mode

In this mode, the AP behaves virtually the same as the WISP mode, except one thing: the AP can also send wireless signal to the LAN side. That means the AP can connect with the remote WISP AP and the indoor wireless card, and then provide IP sharing capability all at the same time! However, the output power is divided between 2 wireless sides and proper antenna installation can influence the performance greatly.



To set the operation mode to "WISP + Universal Repeater", Please go to "Mode →WISP + Universal Repeater" and click the Setup button for configuration.

<b>Air Live</b>	WLAN Acc	WLAN Access Point			
OvisLink Corp	Mode Status TCP/I	P <sup>│</sup> R∈boot	Other		
	Wireless Mode				
This page is used to setup different wireless mode.	O AP	Setup	Access Point.		
	C Client	Setup	Client-Infrastructure / Client Ad-Hoc.		
	C Bridge	Setup	Bridge.		
	O WDS Repeater	Setup	WDS Repeater.		
	O Universal Repeater	Setup	Universal Repeater.		
	C WISP	Setup	WISP.		
	WISP + Universal Repeater	Setup	WISP + Universal Repeater.		

# Configuration

- 1. Start your computer. Connect an Ethernet cable between your computer and the Wireless Access Point.
- 2. Make sure your wired station is set to the same subnet as the Wireless Access Point, i.e. 192.168.100.X
- 3. Start your WEB browser. In the Address box, enter the following:

http://192.168.100.252/

🚰 WL-5460AP v2 - Microsoft Internet Explorer			
<u>File Edit View Favorites Iools Help</u>			
🕝 Back 👻 🕑 - 💌 😰 🏠 🔎 Search 🤺 Favorites 📢 Media 🥝 🔗 - چ 🚍			
Address 🙆 http://192.168.100.252/home.asp			

The configuration menu is divided into five categories:

#### Mode, Status, TCP/IP, Reboot and Other.

Click on the desired setup item to expand the page in the main navigation page. The setup pages covered in this utility are described below.



## Mode

You can choose and setup different wireless mode for detail configurations



Wireless Mode	
AP	Select the AP and press Setup button for Wireless AP mode configuration.
Client	Select the Client and press Setup button for Wireless Client mode configuration.
Bridge	Select the Bridge and press Setup button for Wireless Bridge mode configuration.
WDS Repeater	Select the WDS Repeater and press Setup button for Wireless WDS Repeater mode configuration.
Universal Repeater	Select the Universal Repeater and press Setup button for Wireless Universal repeater mode configuration.
WISP	Select the WISP and press Setup button for WISP (Client Router) mode configuration.
WISP + Universal	Select the WISP + Universal Repeater and press Setup button for WISP
Repeater	+ Universal Repeater mode configuration.

# AP Mode Setting

Air Live OvisLink Corp	WLAN Access Point Mode   Status   TCP/IP   Other		
	AP Mode Settings		
This page is used to setup different wireless mode.	Alias Name:	Wireless_AP	
	Disable Wireless LAN I Band:	2.4 GHz (B+G) ▼	
	SSID:	airlive	
	Channel Number:	13 💌	
	Wireless Client Isolation:	Disabled 💌	
	Security:	Setup	
	Advanced Settings:	Setup	
	Access Control:	Setup	
	Apply Changes Res	et	

Alias Name	You can set the alias name for this device. Limited not exceed 32 characters.		
□ Disable Wireless	Check the box to disable the Wireless LAN Interface, by so doing; you won't be able		
LAN Interface	to make wireless connection with this Access Point in your located network. In other		
	words, this device will not be visible by any wireless station.		
Band	You can choose one mode of the following you need.		
	⊙ 2.4GHz (B+G): 802.11b supported rate and 802.11g supported rate. The default		
	is 2.4GHz <b>(B+G)</b> mode.		
SSID	The SSID differentiates one WLAN from another; therefore, all access points and all		
	devices attempting to connect to a specific WLAN must use the same SSID. It is		
	case-sensitive and must not exceed 32 characters. A device will not be permitted		
	to join the BSS unless it can provide the unique SSID. An SSID is also referred to as		
	a network name because essentially it is a name that identifies a wireless network.		
	The default SSID is <b>airlive</b> .		
Channel Number	Allow user to set the channel manually or automatically.		
	If set channel manually, just select the channel you want to specify.		
	If "Auto" is selected, user can set the channel range to have Wireless Access Point		
	automatically survey and choose the channel with best situation for communication.		
	The number of channels supported depends on the region of this Access Point. All		
	stations communicating with the Access Point must use the same channel.		
	The default channel is <b>13</b> .		

Wireless Client	Allow user to set the function <b>Enabled</b> or <b>Disabled</b> .			
Isolation	By the function, all wireless clients can't mutual link, but wireless client still link with			
	LAN port adapter.			
	The default value is <b>Disabled</b> .			
Security	Press the setup button for detail configurations			
To provide a certain lev methods: <b>Open System</b> encryption methods for e With Open System auth not encrypted. With Sha can join the network. By None data encryption. If function to enable securi <b>None</b> <b>Encryption: None</b> (Enc	Wireless Security Setup         Encryption:         None         Apply Charlow EP         WPA-PSK (AES)         WPA2-PSK (AES)         WEA         WEA         WEA         WEA         WEA         WEA         WEA         WEA <td< td=""></td<>			
WEP				
Encryption: WEP				
If selected WEP encryption, you must set WEP key value:				

	Wireless Security Setup			
	En	cryption: WEP		
	A	uthentication Type:	Open System or Shared Key 💌	
	К	ey Length:	64-bit 💌	
	К	ey Format:	Hex (10 characters) 💌	
	D	efault Tx Key:	Key 1 💌	
	Er	ncryption Key 1:	*****	
	Er	ncryption Key 2:	****	
		ncryption Key 3:	*****	
		ncryption Key 4:	****	
		Apply Changes	Reset	
Encryption		WEP		
Authentication Typ	е	You can select Ope	n System or Shared Key type for auth	entication.
Key Length		You can set 64bit or	r 128bit Encryption.	
Key Format		Select ASCII if you a	are using ASCII characters (case-sens	itive).
		Select <b>HEX</b> if you ar	e using hexadecimal numbers ( <b>0-9, or</b>	<b>A-F</b> ).
Default TX Key		You can enter 4 different Encryption Key and select one key to use as default.		
10 hexadecimal dig	gits or 5 ASCII characters are needed if 64-bit WEP is used;			
26 hexadecimal dig	digits or 13 ASCII characters are needed if 128-bit WEP is used.			
•			I the recipient share a secret key. So y	ou can choose Open
-	ed Key	/ authentication methe	od.	
WPA-PSK				
		KIP) or WPA-PSK (A		
		·	Key (PSK) provides better security th	-
not require a RADIUS server in order to provide association authentication, but you do have to enter a shared				
key for the authentic	cation purpose. The encryption key is generated automatically and dynamically.			
	vvir	Nireless Security Setup		
	Епсту	ption: WPA-PSK (	TKIP)	
	Pre-S	Shared Key Format:	Passphrase 💌	
		Shared Key:		
	Grou	p Key Life Time:	86400 sec	
			eset	

	Wire				
	Encryp				
	Pre-S				
	Pre-S	hared Key:			
	Group	<b>Key Life Time:</b> 86400 sec			
	Ар	ply Changes Reset			
Encryption		You can select WPA-PSK (TKIP) or WPA-PSK (AES)	method for data		
		encryption.			
Pre-shared Key		There are two formats for choice to set the Pre-shared key, i.e	. <b>Passphrase</b> and		
		Hex. If Hex is selected, users will have to enter a 64 character	-		
		configuration, the <b>Passphrase</b> (at least 8 characters) format is			
Group Key Life Ti		Enter the number of seconds that will elapse before the g	group key change		
		automatically. The default is 86400 seconds.			
WPA2-PSK					
		<b>\ES)</b> or <b>WPA-PSK Mixed</b> nethod is almost like WPA-PSK, You can choose the Pre-Sha	ed Key format and		
enter the Pre-share			curkey format and		
	•	lace Security Setup			
	vvire	less Security Setup			
	Епстур	tion: WPA2-PSK(AES) 🔽			
	Pre-S	hared Key Format: Passphrase 🔽			
	Pre-SI	hared Key:			
	Group	Key Life Time: 86400 sec			
	Apply Changes Reset				
	Wireless Security Setup				
	<b>F</b>	tion: WPA2-PSK Mixed			
		nared Key Format: Passphrase			
		nared Key:			
		Key Life Time: 86400 sec			
	Арр	ly Changes Reset			

Encryption	You can select WPA2-PSK (AES) or WPA2-PSK Mixed method for data
	encryption
Pre-shared Key	There are two formats for choice to set the Pre-shared key, i.e. Passphrase and
	Hex. If Hex is selected, users will have to enter a 64 characters string. For easier
	configuration, the <b>Passphrase</b> (at least 8 characters) format is recommended.
Group Key Life Time	Enter the number of seconds that will elapse before the group key change
	automatically. The default is 86400 seconds.

#### 802.1x / RADIUS

## Wireless Security Setup

Encryption: 802.1>	
Security: None	
Authentication RAI	DIUS Server: Port 1812 IP address Password
🗖 Enable Accoun	iting
Accounting RADIUS	S Server: Port 1813 IP address Password
Apply Changes	Reset
Wireless Secu	urity Setup
Encryption: 802.1) Security: None	<pre>« / RADIUS •</pre>
Authentica None	rver: Port 1812 IP address Password
Enable WPA (TH WPA (Al Accountin WPA2(A WPA2 M Apply Changes	ES) AES) F: Port 1813 IP address Password
ncryption: 802.1x / RA	DIUS
ecurity	You can select None, WEP, WPA (TKIP), WPA (AES), WPA2 (AES), WPA
	Mixed method for data encryption.

#### Encryption: None

No data encryption and Use 802.1x Authentication is disable.

#### Encryption: WEP

802.1x Authentication is enabled and the RADIUS Server will proceed to check the 802.1x Authentication, and make the RADIUS server to issue the WEP key dynamically.

You can select WEP 64bits or WEP 128bits for data encryption.

#### Encryption: WPA (TKIP) / WPA (AES)

WPA-RADIUS authentication use WPA (Wi-Fi Protect Access) data encryption for 802.1x authentication.

WPA is an encryption standard proposed by WiFi for advance protection by utilizing a password key (TKIP) or certificate. It is more secure than WEP encryption.

#### Encryption: WPA2-AES / WPA2-Mixed

The two most important features beyond WPA to become standardized through 802.11i/WPA2 are: pre-authentication, which enables secure fast roaming without noticeable signal latency. Pre-authentication provides a way to establish a PMK security association before a client associates. The advantage is that the client reduces the time that it's disconnected to the network.

Authentication RAD	IUS E	Enter the RADIUS Server IP address and Password provided by your ISP.		
Server	P	Port: Enter the RADIUS Server's port number provided by your ISP. The defau		your ISP. The default
	is	is 1812.		
	IP	IP Address: Enter the RADIUS Server's IP Address provided by your ISP.		
	P	assword: Ente	er the password that the AP shares with the	RADIUS Server.
Accounting RADIUS	E	nter the Accou	Inting RADIUS Server IP address and Pass	word provided by your
Server	IS	P	-	
Advanced Settings	P	ress the setup	button for detail configurations	
	Wire	ess Advanc	ed Settings	
	Fragme	ent Threshold:	2346 (256-2346)	
		reshold:	2347 (0-2347)	
	Beacor	n Interval:	100 (20-1024 ms)	
	Inactivi	ity Time:	50000 (100-60480000 ms)	
	Data Ra	ate:	Auto 💌	
	Pream	ble Type:	Long Preamble     C Short Preamble	
	Broadc	ast SSID:	Enabled O Disabled	
	IAPP:		Enabled O Disabled	
		Protection:	• Enabled • Disabled	
	Tx Pow	ver Level:	Default (About 18dB)	
	🗖 Er	nable WatchDog	1	
	Watch	Interval:	1 (1-60 minutes)	
	Watch	Host:	0.0.0	
	Ack tim	eout:	0 (0-255, 0:Auto adjustment, Unit: 4µsec)	
			Set Default	
	Appl	y Changes	Reset	
It is not recommande				are want to change to
	It is not recommended that settings in this page to be changed unless advanced users want to change to			
	et their wireless environment for optimal performance.  agment Threshold Fragmentation mechanism is used for improving the efficience			a the officiency
Fragment Thresh	ola	U	·	5
			traffic flows along in the wireless r	J
	802.11g Wireless LAN PC Card often transmit large files in wireless			

	notwork, you can anter now Fragment Threshold yolys to aplit the
	network, you can enter new Fragment Threshold value to split the
	packet. The value can be set from 256 to 2346. The default value
	is <b>2346</b> .
RTS Threshold	RTS Threshold is a mechanism implemented to prevent the "Hidden Node"
	problem. "Hidden Node" is a situation in which two stations are within range of
	the same Access Point, but are not within range of each other. Therefore, they
	are hidden nodes for each other. When a station starts data transmission with
	the Access Point, it might not notice that the other station is already using the
	wireless medium. When these two stations send data at the same time, they
	might collide when arriving simultaneously at the Access Point. The collision
	will most certainly result in a loss of messages for both stations.
	Thus, the RTS Threshold mechanism provides a solution to prevent data
	collisions. When you enable RTS Threshold on a suspect "hidden
	station", this station and its Access Point will use a Request to Send
	(RTS). The station will send an RTS to the Access Point, informing
	that it is going to transmit the data. Upon receipt, the Access Point
	will respond with a CTS message to all station within its range to
	notify all other stations to defer transmission. It will also confirm the
	requestor station that the Access Point has reserved it for the
	time-frame of the requested transmission.
	If the "Hidden Node" problem is an issue, please specify the packet size. <u>The</u>
	RTS mechanism will be activated if the data size exceeds the value you set
	The default value is <b>2347</b> .
	Warning: Enabling RTS Threshold will cause redundant network overhead
	that could negatively affect the throughput performance instead of providing
	a remedy.
	This value should remain at its default setting of 2347. Should you encounter
	inconsistent data flow, only minor modifications of this value are
	recommended.
Beacon Interval	Beacon Interval is the amount of time between beacon transmissions. Before
	a station enters power save mode, the station needs the beacon interval to
	know when to wake up to receive the beacon (and learn whether there are
	buffered frames at the access point).
Data Rate	By default, the unit adaptively selects the highest possible rate for
	transmission. Select the basic rates to be used among the following options:
	Auto, 1, 2, 5.5, 11or 54 Mbps. For most networks the default setting is Auto
	which is the best choice. When Auto is enabled the transmission rate will

	select the optimal rate. If obstacles or interference are present, the system wil			
	automatically fall back to a lower rate.			
Preamble Type	A preamble is a signal used in wireless environment to synchronize the			
	transmitting timing including Synchronization and Start frame delimiter. In a			
	"noisy" network environment, the Preamble Type should be set to Long			
	Preamble. The Short Preamble is intended for applications where minimum			
	overhead and maximum performance is desired. If in a "noisy" network			
	environment, the performance will be decreased.			
Broadcast SSID	Select enabled to allow all the wireless stations to detect the SSID of this			
	Access Point.			
IAPP	IAPP (Inter Access Point Protocol) is designed for the enforcement of unique			
	association throughout a ESS (Extended Service Set) and a secure exchange			
	of station's security context between current access point (AP) and new AF			
	during handoff period.			
802.11g Protection	The 802.11g standard includes a protection mechanism to ensure mixed 802.11b and			
	802.11g operation. If there is no such kind of mechanism exists, the two kinds of			
	standards may mutually interfere and decrease network's performance.			
TX Power Level	For countries that impose limit on WLAN output power, it might be necessary			
	to reduce TX (transmit) power. There are 7 TX Power Levels to choose			
	from — select a level to make sure that the output power measured at the			
	antenna end will not exceed the legal limit in your country.			
Enable Watch dog	Check and enable this watch dog function			
Watch Interval	Setup the interval time for watch dog function between 1 to 60 mins			
Watch Host	Enter the watch dog host ip address .			
ACK Timeout	When a packet is sent out from one wireless station to the other, it will waits			
	for an Acknowledgement frame from the remote station. If the ACK is NOT			
	received within that timeout period then the packet will be re-transmitted			
	resulting in reduced throughput. If the ACK setting is too high then			
	throughput will be lost due to waiting for the ACK Window to timeout on lost			
	packets. By having the ability to adjust the ACK setting we can effectively			
	optimize the throughput over long distance links. This is especially true for			
	802.11a and 802.11g networks			
	You can set as default for auto adjustment.			
Apply Change	Press to save the new settings on the screen.			
Reset	Press to discard the data you have entered since last time you press Apply			
	Change.			
Access Control	Press the setup button for detail configurations			

r					
	Wireless	Access Control			
	Wireless Ac	Access Control Mode: Disable			
	MAC Addres	ss: Comment:			
	Apply Ch	anges Reset			
	Current Acc	ase Control List			
		CAddress Comment Select			
	<u> </u>				
	Delete Se	lected Delete All Reset			
When Enabl	le Wireless A	ccess Control is checked, only those clients whose wireless MAC addresses			
		list can access this Access Point. If the list contains no entries with this function			
		ents will be able to access this Access Point.			
Wireless Ac	cess Control	Select the Access Control Mode from the pull-down menu.			
Mode		Disable: Select to disable Wireless Access Control Mode.			
		Allow Listed: Only the stations shown in the table can associate with the AP.			
		<b>Deny Listed</b> : Stations shown in the table won't be able to associate with the AP.			
MAC Addres	SS	Enter the MAC Address of a station that is allowed to access this Access Point.			
Comment		You may enter up to 20 characters as a remark to the previous MAC Address.			
Apply Chan	ges	Press to save the new settings on the screen.			
Reset		Press to discard the data you have entered since last time you press Apply			
		Change.			
Delete Selec	ted	To delete clients from access to this Access Point, you may firstly check the			
		Select checkbox next to the MAC address and Comments, and press Delete			
		Selected.			
Delete All		To delete all the clients from access to this Access Point, just press Delete All			
		without selecting the checkbox.			
Reset		If you have made any selection, press Reset will clear all the select mark.			

# **Client Mode Setting**

Air Live OvisLink Corp	WLAN Access Point Mode Status TCP/IP Reboot Other			
	Client Mode Settings			
This page is used to setup different wireless mode.	Alias Name: Wireless_AP   Disable Wireless LAN Interface   Band: 2.4 GHz (B+G) •   Network Type: Infrastructure •   SSID: Infrastructure •   SSID: Ad hoc   Channel Number: 13 •   Auto Mac Clone (Sile Ethernet Client)   Manual MAC Clone   Address:   Security: Setup   Advanced Settings:   Setup			

LAN Interface       able to make wireless connection with this Access Point in the network you a located. In other words, this device will not be visible by any wireless station.         Band       You can choose one mode of the following you need.         © 2.4GHz (B): 802.11b supported rate only.       2.4GHz (G): 802.11g supported rate only.         © 2.4GHz (B+G): 802.11b supported rate and 802.11g supported rate. The default is 2.4GHz (B+G) mode.         Network Type       Client mode have two Network type :         Infrastructure       A wireless network that is built around one or more access points, providing wireless clients access to wired LAN or Internet service. It is the most popular WLAN network structure today.         AdHoc wireless network do not use wireless AP orrouter as the central hub of the network. Instead, wireless client are connected directly to each other.         SSID       The SSID differentiates one WLAN from another; therefore, all access points a			
LAN Interface       able to make wireless connection with this Access Point in the network you a located. In other words, this device will not be visible by any wireless station.         Band       You can choose one mode of the following you need.         © 2.4GHz (B): 802.11b supported rate only.       2.4GHz (G): 802.11g supported rate only.         © 2.4GHz (B+G): 802.11b supported rate and 802.11g supported rate. The default is 2.4GHz (B+G) mode.         Network Type       Client mode have two Network type :         Infrastructure       A wireless network that is built around one or more access points, providing wireless clients access to wired LAN or Internet service. It is the most popular WLAN network structure today.         AdHoc wireless network do not use wireless AP orrouter as the central hub of the network. Instead, wireless client are connected directly to each other.         SSID       The SSID differentiates one WLAN from another; therefore, all access points a	Alias Name	You can set the alias name for this device. limited not exceed 32 characters.	
Iocated. In other words, this device will not be visible by any wireless station.         Band       You can choose one mode of the following you need.         © 2.4GHz (B): 802.11b supported rate only.       2.4GHz (G): 802.11g supported rate only.         © 2.4GHz (B+G): 802.11b supported rate and 802.11g supported rate. The default is 2.4GHz (B+G) mode.         Network Type       Client mode have two Network type :         Infrastructure       A wireless network that is built around one or more access points, providing wireless clients access to wired LAN or Internet service. It is the most popular WLAN network structure today.         AdHoc wireless network do not use wireless AP orrouter as the central hub of the network. Instead, wireless client are connected directly to each other.         SSID       The SSID differentiates one WLAN from another; therefore, all access points a	Disable Wireless	Check the box to disable the Wireless LAN Interface, by so doing, you won't be	
Band       You can choose one mode of the following you need.         • 2.4GHz (B): 802.11b supported rate only.       • 2.4GHz (G): 802.11g supported rate only.         • 2.4GHz (B): 802.11b supported rate only.       • 2.4GHz (B+G): 802.11b supported rate and 802.11g supported rate. The default is 2.4GHz (B+G) mode.         Network Type       Client mode have two Network type :         Infrastructure       A wireless network that is built around one or more access points, providing wireless clients access to wired LAN or Internet service. It is the most popular WLAN network structure today.         AdHoc wireless network do not use wireless AP orrouter as the central hub of the network. Instead, wireless client are connected directly to each other.         SSID       The SSID differentiates one WLAN from another; therefore, all access points a	LAN Interface	able to make wireless connection with this Access Point in the network you are	
<ul> <li>O 2.4GHz (B): 802.11b supported rate only.</li> <li>O 2.4GHz (G): 802.11g supported rate only.</li> <li>O 2.4GHz (B+G): 802.11b supported rate and 802.11g supported rate. The default is 2.4GHz (B+G) mode.</li> <li>Network Type</li> <li>Client mode have two Network type :</li> <li>Infrastructure</li> <li>A wireless network that is built around one or more access points, providing wireless clients access to wired LAN or Internet service. It is the most popular WLAN network structure today.</li> <li>AdHoc wireless network do not use wireless AP orrouter as the central hub of the network. Instead, wireless client are connected directly to each other.</li> <li>SSID</li> <li>The SSID differentiates one WLAN from another; therefore, all access points and solar to the service of the service of</li></ul>		located. In other words, this device will not be visible by any wireless station.	
<ul> <li>2.4GHz (G): 802.11g supported rate only.</li> <li>2.4GHz (B+G): 802.11b supported rate and 802.11g supported rate. The default is 2.4GHz (B+G) mode.</li> <li>Network Type</li> <li>Client mode have two Network type : Infrastructure         <ul> <li>A wireless network that is built around one or more access points, providing wireless clients access to wired LAN or Internet service. It is the most popular WLAN network structure today.</li> <li>AdHoc wireless network do not use wireless AP orrouter as the central hub of the network. Instead, wireless client are connected directly to each other.</li> </ul> </li> <li>SSID</li> </ul>	Band	You can choose one mode of the following you need.	
<ul> <li>O 2.4GHz (B+G): 802.11b supported rate and 802.11g supported rate. The default is 2.4GHz (B+G) mode.</li> <li>Network Type</li> <li>Client mode have two Network type : Infrastructure         <ul> <li>A wireless network that is built around one or more access points, providing wireless clients access to wired LAN or Internet service. It is the most popular WLAN network structure today.</li> <li>AdHoc wireless network do not use wireless AP orrouter as the central hub of the network. Instead, wireless client are connected directly to each other.</li> </ul> </li> <li>SSID The SSID differentiates one WLAN from another; therefore, all access points and services access points and services.</li> </ul>		⊙ 2.4GHz (B): 802.11b supported rate only.	
default is 2.4GHz (B+G) mode.         Network Type       Client mode have two Network type :         Infrastructure       A wireless network that is built around one or more access points, providing wireless clients access to wired LAN or Internet service. It is the most popular WLAN network structure today.         AdHoc wireless network do not use wireless AP orrouter as the central hub of the network. Instead, wireless client are connected directly to each other.         SSID       The SSID differentiates one WLAN from another; therefore, all access points a		⊙ 2.4GHz (G): 802.11g supported rate only.	
Network Type       Client mode have two Network type :         Infrastructure       A wireless network that is built around one or more access points, providing wireless clients access to wired LAN or Internet service. It is the most popular WLAN network structure today.         AdHoc wireless network do not use wireless AP orrouter as the central hub of the network. Instead, wireless client are connected directly to each other.         SSID       The SSID differentiates one WLAN from another; therefore, all access points a		⊙ 2.4GHz (B+G): 802.11b supported rate and 802.11g supported rate. The	
Infrastructure         A wireless network that is built around one or more access points, providing wireless clients access to wired LAN or Internet service. It is the most popular WLAN network structure today.         AdHoc wireless network do not use wireless AP orrouter as the central hub of the network. Instead, wireless client are connected directly to each other.         SSID       The SSID differentiates one WLAN from another; therefore, all access points and the service of th		default is 2.4GHz <b>(B+G)</b> mode.	
A wireless network that is built around one or more access points, providing wireless clients access to wired LAN or Internet service. It is the most popular WLAN network structure today.         AdHoc wireless network do not use wireless AP orrouter as the central hub of the network. Instead, wireless client are connected directly to each other.         SSID       The SSID differentiates one WLAN from another; therefore, all access points a	Network Type	Client mode have two Network type :	
<ul> <li>wireless clients access to wired LAN or Internet service. It is the most popular WLAN network structure today.</li> <li>AdHoc wireless network do not use wireless AP orrouter as the central hub of the network. Instead, wireless client are connected directly to each other.</li> <li>SSID</li> <li>The SSID differentiates one WLAN from another; therefore, all access points and the service of the servic</li></ul>		Infrastructure	
WLAN network structure today.         AdHoc wireless network do not use wireless AP orrouter as the central hub of the network. Instead, wireless client are connected directly to each other.         SSID       The SSID differentiates one WLAN from another; therefore, all access points and the structure today.		A wireless network that is built around one or more access points, providing	
AdHoc wireless network do not use wireless AP orrouter as the central hub of the network. Instead, wireless client are connected directly to each other.         SSID       The SSID differentiates one WLAN from another; therefore, all access points and the second se		wireless clients access to wired LAN or Internet service. It is the most popular	
network. Instead, wireless client are connected directly to each other.         SSID       The SSID differentiates one WLAN from another; therefore, all access points a		WLAN network structure today.	
SSID         The SSID differentiates one WLAN from another; therefore, all access points a		AdHoc wireless network do not use wireless AP orrouter as the central hub of the	
		network. Instead, wireless client are connected directly to each other.	
all devices attempting to connect to a specific WLAN must use the same SSID. It	SSID	The SSID differentiates one WLAN from another; therefore, all access points and	
		all devices attempting to connect to a specific WLAN must use the same SSID. It is	
case-sensitive and must not exceed 32 characters. A device will not be permitted		case-sensitive and must not exceed 32 characters. A device will not be permitted	
to join the BSS unless it can provide the unique SSID. An SSID is also referred		to ising the DOO unlose it can provide the unique COUD. An COUD is also referred to	

Site Survey	netwoi	rk. Wireless S ssi airlive wlan default PLANET Refresh		BSSID 00:4f:62:0d:cb:66 00:20:e0:39:a1:bb 00:c0:02:fe:d3:68		<b>Type</b> AP	Encrypt WPA- PSK	Signal 87		
Site Survey		SSI airlive wlan default PLANET		BSSID 00:4f:62:0d:cb:66 00:20:e0:39:a1:bb 00:c0:02:fe:d3:68	13 (B+G)		WPA-			
		airlive wlan default PLANET	ID	00:4f:62:0d:cb:55 00:20:e0:39:a1:bb 00:c0:02:fe:d3:68	13 (B+G)		WPA-			
		airlive wlan default PLANET	ID	00:4f:62:0d:cb:55 00:20:e0:39:a1:bb 00:c0:02:fe:d3:68	13 (B+G)		WPA-			
		wlan default PLANET		00:20:e0:39:a1:bb 00:c0:02:fe:d3:68		AP		87		
		default PLANET		00:c0:02:fe:d3:68	) 3 (B)		For		•	
		PLANET				AP	WEP	26	0	
						AP	N0 WEP	16		
		Refresh		00:18:e7:11:43:d8	і (в+с)	AP	VVEP	15		
			Connect							
	Site si	Site survey displays all the active Access Points and IBSS in the neighborhood.								
									•	
	You can select one AP to associate. Press Site Survey button to se						1 10 366	alon u		
Channel Number	wireless device that this client want to connect.									
	If set channel manually, just select the channel you want to specify. If "Auto" is selected, user can set the channel range to have Wireless Access Poir automatically survey and choose the channel with best situation for communication. All stations communicating with the Access Point must use the									
					situat	ion f				
					nt must	use th				
	same channel.									
	when setup infrastructure of Client mode, the channel number can not									
	Be cha	anged. You	have to g	go to AP mod	e to cha	inge th	ne char	nnel nu	umber	
Auto MAC Clone	Check the box to enable MAC Clone for Single Ethernet Client.									
Manual MAC Clone	Enter the MAC Address of Single Ethernet Client.									
Address										
Security	Please refer the AP mode settings→ Security for details.									
-	In client mode are not supported with RADIUS 802.1x authentication.									
	Wireless Security Setup									
		Villele	55 Oe	cunty Oet	up					
		Encryptio	n: WP	A-PSK (TKIP)	-					
		Pre-Shar	None		rase	<u>,</u>	-			
				⊃ A-PSK (TKIP)		*				
		Pre-Shar		4-PSK (TKIP) 4-PSK (AES)						
		Group Ke		42-PSK(AES)		se	ес			
		Apply	Changes	Reset						
Advance Setting	Please refer the AP mode settings $\rightarrow$ Advance Setting for details.									

# Bridge Mode Setting

Air Live	WLAN Access Point
OvisLink Corp.	Mode   Status   TCP/IP   Reboot   Other
	Bridge Mode Settings
This page is used to setup different wireless mode.	Alias Name:       Wireless_AP         Disable Wireless LAN Interface         Band:       2.4 GHz (B+G) •         Channel Number:       13 •         802.1d Spanning Tree:       Disabled •         WDS Security:       Setup         Advanced Settings:       Setup         Apply Changes       Reset
	AP MAC Address: Site Survey Comment:
	Add MAC Address Reset Show Statistics

Alias Name	You can set the alias name for this device. limited not exceed 32 characters.				
Disable Wireless	Check the box to disable the Wireless LAN Interface, by so doing, you won't be				
LAN Interface	able to make wireless connection with this Access Point in the network you are				
	located. In other words, this device will not be visible by any wireless station.				
Band	You can choose one mode of the following you need.				
	⊙ 2.4GHz (B+G): 802.11b supported rate and 802.11g supported rate. The				
	default is 2.4GHz (B+G) mode.				
Channel Number	In Bridge mode, both wireless AP/Router device need set to the same Channel				
	number.				
Security	Please refer the AP mode settings $\rightarrow$ Security for details.				
	But bridge mode are not supported with RADIUS 802.1x authentication.				
WDS Security	To enable security between wireless AP/Router , you can select WEP 64bits, WEP				
	128bits, WPA (TKIP), WPA2(AES) for data encryption.				
	For WEP encryption, Select ASCII if you are using ASCII characters. Select HEX if				
	you are using hexadecimal numbers ( <b>0-9, or A-F</b> ).				
	For WPA/WPA2 encryption, you need enter the Pre-Shared Key Information for				
	the authentication purpose.				

	WDS Security Setup				
	Encryption:   WEP Key Format:   WEP 64bits   WEP Key:   WEP 128bits   WPA (TKIP)   Pre-Shared Key:   Pre-Shared Key:   Apply Changes   Close Reset				
Advance Setting	Please refer the AP mode settings $\rightarrow$ Advance Setting for details.				
Advance octing AP MAC address	Enter 12 digits in hex numbers in the AP MAC address ( <b>BSSID</b> ) field and press the				
	Add MAC Address Button to associate with other's Wireless access point.				
	Before you want to use bridge mode to connect each other to provide				
	A wireless bridge between 2 remote LANs, you need add the BSSID of other's				
	wireless AP first.				
Site Survey	Site survey displays all the active Access Points and IBSS in the neighborhood.				
	Press Site Survey button to search the wireless device.				
	Wireless Site Survey				
	SSID BSSID Channel Type Encrypt Signal				
	PLANET 00:18:e7:11:43:d6 11 (B+G) AP WEP 26				
	default         00:c0:02:fe:d3:68         10 (B+G)         AP         no         18           vulan         00:20:e0:30:e0:30:e1.1kh         3 (D)         AD         10(ED)         16				
	wlan 00:20:e0:39:a1:bb 3 (B) AP WEP 16				
	Refresh				
Add MAC Address	Enter MAC address of remote access point.				
Reset	Press to discard the data you have entered since last time you press Apply				
	Change.				
Show Statistics	List all packets information of traffic.				
Delete Selected	To delete bridge from access to this Access Point, you may firstly check the Select				
	checkbox next to the MAC address and Comments, and press Delete Selected.				
Delete All	To delete all the clients from access to this Access Point, just press Delete All				
	without selecting the checkbox.				

# WDS Repeater Mode Setting

Air Live OvisLink Corp	Mode Status TC	WLAN Access Point Mode Status TCP/IP Reboot Other Upgrade Firmware / Save/Reload Settings / Password / Log / NTP		
	WDS Repeater Mod	le Settings		
This page is used to setup different wireless mode.	Alias Name:	Wireless_AP		
	🗖 Disable Wireless LAN I	Interface		
	Band:	2.4 GHz (B+G)		
	SSID:	airlive		
	Channel Number:	13 💌		
	Wireless Client Isolation:	Disabled 💌		
	802.1d Spanning Tree:	Disabled 💌		
	Security:	Setup		
	WDS Security:	Setup		
	Advanced Settings:	Setup		
	Access Control:	Setup		
	Apply Changes Res	et		

Alias Name	You can set the alias name for this device. limited not exceed 32 characters.			
Disable Wireless	Check the box to disable the Wireless LAN Interface, by so doing, you won't be			
LAN Interface	able to make wireless connection with this Access Point in the network you are			
	located. In other words, this device will not be visible by any wireless station.			
Band	You can choose one mode of the following you need.			
	⊙ 2.4GHz (G): 802.11g supported rate only.			
	● 2.4GHz (B+G): 802.11b supported rate and 802.11g supported rate. The			
	default is 2.4GHz (B+G) mode.			
SSID	The SSID differentiates one WLAN from another; therefore, all access points and			
	all devices attempting to connect to a specific WLAN must use the same SSID. It			
	is case-sensitive and must not exceed 32 characters. A device will not be			
	permitted to join the BSS unless it can provide the unique SSID. An SSID is also			
	referred to as a network name because essentially it is a name that identifies a			
	wireless network			
Channel Number	The number of channels supported depends on the region of this Access Point. All			
	stations communicating with the Access Point must use the same channel.			
Wireless Client	When enabled, the wireless clients are separated from each other. Please refer			
Isolation	the AP mode settings $\rightarrow$ Wireless Client Isolation for details.			
Security	Please refer the AP mode settings $\rightarrow$ Security for details,			
-----------------	--	--	--	--
	This setting is use between Wireless client and this device.			
	Wireless Security Setup			
	Encryption: None			
	None			
	Apply ChaWEP WPA-PSK (TKIP)			
	WPA-PSK (AES)			
	WPA2-PSK(AES) WPA2-PSK Mixed			
	802.1x / RADIUS			
WDS Security	Please refer to the Bridge mode settings $\rightarrow$ WDS Security for details			
	This setting is use between both wireless AP/Router devices.			
	WDS Security Setup			
	Encryption: None  None			
	WEP Key Format: WEP 64bits			
	WEP Key: WEP 128bits WPA (TKIP)			
	Pre-Shared Key WPA2 (AES)			
	Format:			
	Pre-Shared Key:			
	Apply Changes Close Reset			
	· · · · · · · · · · · · · · · · · · ·			
Advance Setting	Please refer the AP mode settings $\rightarrow$ Advance Setting for details.			
Access Control	Please refer the AP mode setting $\rightarrow$ Access Control for details.			
AP MAC Address	Enter 12 digits in hex numbers in the AP MAC address (BSSID) field and press the			
	Add MAC Address Button to associate with other's Wireless access point.			
	Before you want to use bridge mode to connect each other to provide			
	A wireless bridge between 2 remote LANs, you need add the BSSID of other's			
	wireless AP first.			
Delete Selected	To delete bridge from access to this Access Point, you may firstly check the <b>Select</b>			
	checkbox next to the MAC address and Comments, and press <b>Delete Selected</b> .			
Delete All	To delete all the clients from access to this Access Point, just press <b>Delete All</b>			
	without selecting the checkbox.			

# **Universal Repeater Mode Setting**

Air Live	WLAN Access Point					
OvisLink Corp	Mode Status TCP/IP Reboot Other					
	Universal Repeater N	/lode Settings				
This page is used to setup different wireless mode.	Alias Name:	Wireless_AP				
	Disable Wireless LAN Ir					
	Band: SSID:	2.4 GHz (B+G)				
	Channel Number:	13 💌				
	Wireless Client Isolation: SSID of Extended Interface:	Disabled 💌	Site Survey			
	802.1d Spanning Tree:	Disabled 💌	Site Sulvey			
	Security:	Setup				
	Advanced Settings:	Setup				
	Access Control:	Setup				
	Apply Changes Rese	et				

Alias NameYou can set the alias name for this device. limited not exceed 32 chDisableDisableWirelessCheck the box to disable the Wireless LAN Interface, by so doingLAN Interfaceable to make wireless connection with this Access Point in the new	, you won't be etwork you are	
	etwork you are	
LAN Interface able to make wireless connection with this Access Point in the ne		
	a atotion	
located. In other words, this device will not be visible by any wireles	ร รเสแบท.	
Band You can choose one mode of the following you need.		
	te. The default	
is 2.4GHz (B+G) mode.		
SSID The SSID differentiates one WLAN from another; therefore, all acc	ess points and	
all devices attempting to connect to a specific WLAN must use the sa	ame SSID. It is	
case-sensitive and must not exceed 32 characters. A device will no	ot be permitted	
to join the BSS unless it can provide the unique SSID. An SSID is a	also referred to	
as a network name because essentially it is a name that identif	as a network name because essentially it is a name that identifies a wireless	
network		
Channel Number The number of channels supported depends on the region of this Ac	cess Point. All	
stations communicating with the Access Point must use the same cl	stations communicating with the Access Point must use the same channel.	
SSID of extended When in Universal Repeater mode, you have to enter the ESS	SID of other's	
Interface AP/Router that device want to connect.		
The device SSID and the SSID of extended interface can be the sar	ne or different.	

	When you are using the universal repeater mode, please make sure the remote	
	AP/Router WDS function is turned off.	
Site Survey	Please refer the Bridge mode settings $\rightarrow$ Site Survey for details.	
Security	Please refer the AP mode settings $\rightarrow$ Security for details,	
	This setting used Wireless client or remote AP to link this device.	
Advance Setting	Please refer the AP mode settings $\rightarrow$ Advance Setting for details.	
Access Control	Please refer the AP mode setting $\rightarrow$ Access Control for details.	

# WISP (Client Router) Mode Setting

Air Live OrisLink Corp		Access Point TCP/IP Reboot Other	
	WISP Mode Sett	ings	
This page is used to setup different wireless mode.	Alias Name:	Wireless_AP	
	🗖 Disable Wireless L	AN Interface	
	Band:	2.4 GHz (B+G) 💌	
	SSID:	airlive	Site Survey
	Clone MAC Address:	00000000000	
	Security:	Setup	
	Advanced Settings:	Setup	
	Wan Port:	Setup	
	Virtual Server:	Setup	
	Special Application:	Setup	
	DMZ:	Setup	
	Remote Management:	Setup	
	Apply Changes	Reset	

Alias Name	You can set the alias name for this device. limited not exceed 32			
	characters			
Disable Wireless	Check the box to disable the Wireless LAN Interface, by so doing, you won't be			
LAN Interface	able to make wireless connection with this Access Point in the network you are			
	located. In other words, this device will not be visible by any wireless station.			
Band	You can choose one mode of the following you need.			
	⊙ 2.4GHz (B+G): 802.11b supported rate and 802.11g supported rate. The			
	default is 2.4GHz <b>(B+G)</b> mode.			
SSID	The SSID differentiates one WLAN from another; therefore, all access points an			
	all devices attempting to connect to a specific WLAN must use the same SSID. In			
	WISP mode, you have to enter the WISP Outdoor AP			
	SSID manually or click the "site survey" button to connect and get			
	SSID automatically.			
Site Survey	Please refer the Client mode settings $\rightarrow$ Site Survey for details.			
MAC Clone Address	Enter the MAC Address of Single Ethernet Client.			
Security	Please refer the AP mode settings $\rightarrow$ Security Survey for details.			
	Not supported with RADIUS 802.1x authentication.			

Advance Setting	Please refer the AP mode settings $\rightarrow$ Advance Setting for details.			
WAN port	WAN Port Configuration			
	WAN Access Type:       DHCP Client I         © Attain DNS Automatically         © Set DNS Manually         DNS 1:         DNS 2:         DNS 3:         Clone MAC Address:         00000000000         IC         Respond to WAN Ping         IC         Enable UPnP         IC         Enable IPsec pass through on VPN connection         IC         Enable L2TP pass through on VPN connection			
	Save Reset			
	You can select many WAN Access Type : Static IP , DHCP Client, PPPOE,			
Virtual Server	PPTP, and L2TP for WAN connection depend on you WISP provided. Virtual Servers			
	In WISP mode, you can setup and enable Virtual server function. Like Web, FTP, Email, DNS, Telnet server. Select one virtual server type and enter the Local IP address, Local Port Range and click the save button.			
Special Application	Special Applications			
	Name Incoming Incoming Start Incoming End Trigger Trigger Start Trigger End Name Type Port Port Type Port Port Port			
	Quick Time 4 BOTH 🗨 6970 6999 BOTH 💌 654 🕫			
	Dialpad BOTH - 51200 51201 BOTH - 7175 7175 F			
	Paltalk BOTH 2090 2091 BOTH 8200 8700 F			
	Battle.net         UDP         6112         6119         TCP         6112         6112			
	You can enable some system default special application, like Qucktime 4			

	Audio/Video application, Dialpad internet phone service. or define the special			
	application manually, select the incoming type (TCP/UDP) Incoming start ~ End			
	port ,	Trigger St	tart ~ End	port. Select the Trigger Type.
DMZ				Enable DMZ
			Save	Reset
	Enable DMZ and enter the DMZ Host IP address.			
Remote Management	Remote Management			
		Port Ni	ımber:	<ul> <li>Enable Web Server Access via WAN</li> <li>80</li> <li>Save Reset</li> </ul>
	Enable the function that setting configuration from Internet.			

# WISP + Universal Repeater Mode Setting

Âir Li	WLAN Access Point			
OvisLink Cor	Mode Status TCP/IP Reboot Other			
www.ovislink.com	WISP + Universal Repeater Mode Settings			
This page is used setup different				
wireless mode.	Alias Name: Wireless_AP			
	Disable Wireless LAN Interface			
	Band: 2.4 GHz (B+G)			
	SSID: airlive Site Survey			
	SSID of Extended Interface:			
	Clone MAC Address: 0000000000			
	Enable Encryption On: Both WAN and WLAN side			
	Security: Setup			
	Advanced Settings: Setup			
	Wan Port: Setup			
	Virtual Server: Setup			
	Special Application: Setup			
	Remote Management: Setup			
Alias Name	You can set the alias name for this device. limited not exceed 32			
□ Disable Wireless	characters			
	Check the box to disable the Wireless LAN Interface, by so doing, you won't be			
LAN Interface	able to make wireless connection with this Access Point in the network you are			
	located. In other words, this device will not be visible by any wireless station.			
Band	You can choose one mode of the following you need.			
	⊙ 2.4GHz (B+G): 802.11b supported rate and 802.11g supported rate. The			
	default is 2.4GHz (B+G) mode.			
SSID	The SSID differentiates one WLAN from another; therefore, all access points and			
	all devices attempting to connect to a specific WLAN must use the same SSID. In			
	WISP mode, you have to enter the WISP Outdoor AP			
	SSID manually or click the "site survey" button to connect and get			
	SSID automatically.			
Site Survey				
	Please refer the Client mode settings $\rightarrow$ Site Survey for details.			
SSID of extended	Please refer the Client mode settings $\rightarrow$ Site Survey for details. Please refer the Universal repeater mode settings $\rightarrow$ SSID of extended Interface			
SSID of extended Interface				

Enable Encryption On	Enable Encryption On: Security: Advanced Settings:	Both WAN and WLAN side Both WAN and WLAN side WLAN side only WAN side only		
	You can designate security to us	e for WLAN side, WAN side or both sides.		
	Both WAN and WLAN side: The security is used on both the WISP and the			
	Wireless Client(PC side) connection			
	WLAN side only: The security used on wireless client connection only. The			
	WISP side is not encrypted.			
	WAN side only: The security us	ed on WISP connection only. The WLAN side is		
	not encrypted			
Security	Please refer the AP mode setting	gs → Security Survey for details.		
	Not supported with RADIUS 802	.1x authentication.		
Advance Setting	Please refer the AP mode settings $\rightarrow$ Advance Setting for details.			
WAN port	Please refer the WISP mode settings $\rightarrow$ WAN port Setting for details.			
Virtual Server	Please refer the WISP mode settings $\rightarrow$ Virtual Server Setting for details.			
Special Application	Please refer the WISP mode set	tings $\rightarrow$ Special Application Setting for details.		
DMZ	Please refer the WISP mode set	tings $\rightarrow$ DMZ Setting for details.		
Remote Management	Please refer the WISP mode set	tings $\rightarrow$ Remote Management Setting for details.		

## Status

In this screen, you can see the current settings and status of this Access Point. You can change settings by selecting specific tab described in below.



#### System

•

lystem	
Uptime:	Oday:3h:27m:49s
Firmware Version:	5460APv2_e8
Wireless	
Mode:	AP
Physical Address:	00:4f:62:0d:cb:55
Band:	2.4 GHz (B+G)
SSID:	airlive
Channel Number:	13
Encryption:	Disabled
Associated Clients:	0
BSSID:	00:4f:62:0d:cb:55
LAN Configuration	
Connection Method:	Fixed IP
Physical Address:	00:4f:62:0d:cb:54
IP Address:	192.168.100.252
Network Mask:	255.255.255.0
Nefault Gateway:	192 168 100 254

System

Uptime	The time period since the device was up.		
Firmware Version	The current version of the firmware installed in this device.		
Wireless			
	There are 7 modes supported, The default mode is Access Point. If you want to change to other mode, please click the Mode and select the wireless mode you want.		
Physical Address	Display wireless MAC address information.		
Band	Display wireless band type information.		
SSID	Display the SSID of this device.		
Channel Number	The number of channels supported depends on the region of this Access Point. All stations communicating with the Access Point must use the same channel.		
Encryption	Display encryption setting information.		
Associated Clients	Displays the total number of clients associated to this AP. You can have up to 64 clients to associate to this Access Point.		
	BSSID displays the ID of current BSS, which uniquely identifies each BSS. In AP mode, this value is the MAC address of this Access Point.		
LAN Configuration (TCP	/IP)		
Connection Method:	Display the connection method, you can setup in TCP/IP section		
Physical Address:	Display the LAN MAC address		
IP Address:	Display the LAN IP address, you can setup in TCP/IP section		
Network Mask:	Display the network mask, you can setup in TCP/IP section		
Default Gateway:	Display the default gateway ip , you can setup in TCP/IP section		
DHCP Server:	Default the DHCP Server is enabled(ON)		
DHCP Start IP Address:	Display the DHCP server start IP address.		
DHCP Finish IP Address:	Display the DHCP server finish IP address.		
Internet Configuration			
Connection Method:	Display the internet connection method, you can setup in WISP mode→WAN Port configuration		
Physical Address:	Display the AP MAC address information		
IP Address: Display the internet IP Address, you can setup in WISP mode→WAN Port configuration			
Network Mask:	Display the network mask, you can setup in WISP mode→WAN Port configuration		
Default Gateway:       Display the default gateway , you can setup in WISP mode→WAN         Port configuration			

## • Statistics

Statistics		
[		
Wireless LAN	Sent Packets	1380
WILCIESS LAW	Received Packets	8679
Ethernet LAN	Sent Packets	1867
Ethernet LAN	Received Packets	0
Ethernet WAN	Sent Packets	3906
	Received Packets	4856
Refresh		

The Statistics table shows the packets sent/received over wireless and ethernet LAN respectively.

## • Active Clients

Active Wireless Client Table				
MAC Address	Tx Packet	Rx Packet	Tx Rate (Mbps)	Power Saving
None				
Refresh				

Display the active Wireless Clients information, include wireless MAC address, TX/Rx Packet, TX Rate, and Power Saving information.

## TCP/IP

Air Live OvisLink Corp		Access Point TCP/IP Reboot Other
	LAN Interface Se	ətup
This page is used to configure the parameters for local area network which connects to the LAN port of your Access Point. Here you may change the setting for IP address, subnet mask, DHCP, etc	IP Address: Subnet Mask: Default Gateway: DHCP: DHCP Client Range: DNS Server: Clone MAC Address: Apply Changes	192.168.100.252         255.255.255.0         0.0.0.0         Server       ▼ Server IP: 0.0.0.0         192.168.100.100       − 192.168.100.200         Show Client         000000000000

In this page, you can change the TCP/IP settings of this Access Point, select to enable/disable the DHCP Client, 802.1d Spanning Tree, and Clone MAC Address.

This field can be modified only when DHCP Client is disabled. If your system		
manager assigned you static IP settings, then you will have to enter the		
information provided.		
Enter the information provided by your system manager.		
Enter the information provided by your system manager.		
Select Disable, Client or Server from the pull-down menu.		
Disable: Select to disable DHCP server function.		
Client: Select to automatically get the LAN port IP address from ISP (For		
ADSL/Cable Modem).		
Server: Select to enable DHCP server function.		
WL-5060AP IP addresses continuing from 192.168.100.1 to 192.168.100.253		
Click to show Active DHCP Client table.		
Enter the Domain Name Service IP address.		
To enable 802.1d Spanning Tree will prevent the network from infinite loops.		
Infinite loop will happen in the network when WDS is enabled and there are		
multiple active paths between stations.		



# Reboot

Click the **Reboot** button to restart device.



## Other



Upgrade Firmware

Upgrade Firmware	
Select File:	Browse
Upload Reset	

- 1. Download the latest firmware from your distributor and save the file on the hard drive.
- 2. Start the browser, open the configuration page, click on **Other**, and click **Upgrade Firmware** to enter the **Upgrade Firmware** window.
- 3. Enter the new firmware's path and file name (i.e. C:\FIRMWARE\firmware.bin) or click the **Browse** button to find and open the firmware file (the browser will display to correct file path).
- 4. Click **Upload** button to start the upgrade function or **Reset** button to clear all the settings on this page.

If firmware upgrade fail, please see Appendix A.

· Save / Reload Settings

Save/Reload Set	tings
Save Settings to File: Load Settings from File: Reset Settings to Default:	Save Browse Upload Reset

This function enables users to save the current configuration as a file (i.e. **config.dat**) or loades configuration from a file. Enter the file name or click **Browse...** to find the file from your computer.

Save Settings to File: Click SAVE.. to save the current configuration to file.

Load Settings From File: Click Browse... if you want to load a pre-saved file, enter the file name with the correct path and then click on **Upload** or click **Browse**... to select the file.



Reset Settings to Default: Click Reset button to restore the default configuration.

### Password

Password Setup	
New Password:	
Confirmed Password:	
Apply Change	Reset

For secure reason, It is recommended that you set the account to access the web server of this Access Point. Leaving the password blank will disable the protection. The login screen prompts immediately once you finish setting password. Remember your password for you will be asked to enter them every time you access the web server of this Access Point.

New Password	Set your new password. Password can be up to 30 characters long. Password	
	can contain letter, number and space. It is case sensitive.	
Confirm Password	Re-enter the new password for confirmation.	

**Note:** when you setup the password and click the apply change button, system will pop-up Window and ask the username and password, Please enter system default username "**admin**" (**not changeable**) and your password for entering the configuration WEB UI.

### Log

System Log		
This page can be used to set i	mote log server and show the system log.	
Enable Log System all	Wireless only	
Apply Changes		
		<u>^</u>
		~
Refresh Clear		

This function can list all log information about device.

Enable Log	Enabled or Disabled display system log information.
System All	List system all log information.
Wireless Only	List wireless log information only.
Refresh	Refresh log information.
Clear	Clear all information in window.

<ul> <li>NTP</li> </ul>
-------------------------

Time Zone S	Setting	
Current Time:	Year 2000 Month 1 Day 1 Hr 3 Min 33	Sec 9
	Enable NTP client update	
Time Zone Selec	rt: (GMT+08:00)Taipei	*
NTP server:	⊙ 192.5.41.41 - North America 💽	
	O (Manual IP Setting)	
Save Reset	Refresh	

This function can setting system time from local computer or Internet.

Current Time	Setting system time	
Enable NTP client update	Enable or Disable setting system from Internet NTP Server.	
Time Zone Select	Select system time zone.	
NTP Server	Select NTP Server by Server list or manual inputing.	
Save	Save configurayion to flsh.	
Reset	Reset system time configurayion.	
Refresh	Refresh system time information.	

# Appendix A

### • Emergency Code

Should firmware upgrade fail, WL-5460AP will enter Emergency Mode. Please do the following instructions for firmware recovery:

1. Open the internet protocol dialogue and set IP address at http://192.168.1.X/.

Internet Protocol (TCP/IP) Propertie	s <u>? x</u>				
General					
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.					
C Obtain an IP address automatically					
─● Use the following IP address: ──					
IP address:	192.168.1.100				
S <u>u</u> bnet mask:	255.255.255.0				
Default gateway:	· · ·				
C Obtain DNS server address autor	natically				
─● Use the following DNS server add	dresses:				
Preferred DNS server:	· · ·				
Alternate DNS server:					
	Ad <u>v</u> anced				
	OK Cancel				

2. Open WEB broswer and enter the IP address http://192.168.1.6/ to enter Emergency Mode setup page.

We detected your system had been crashed Please upload your Image file again!			
System Upgrade	Browse UPGRADE		

3. Click the Browser button to find and open the firmware file.



4. Click UPGRADE button to start upgrade firmware. Wait for about 35 to 40 seconds for the firmware upgrade to complete.



5. Reopen the internet protocol dialogue. Set IP address at <u>http://192.168.100.X/</u>.

ernet Protocol (TCP/IP) Prop	erties
ieneral	
	automatically if your network supports ad to ask your network administrator for
C Obtain an IP address autom	atically
─● Use the following IP address	s:
IP address:	192 . 168 . 100 . 100
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
Default gateway:	· · · ·
C Obtain DNS server address	n terrationly.
<ul> <li>Ugan DNS server address</li> <li>Use the following DNS server</li> </ul>	
Preferred DNS server:	
– Alternate DNS server:	
	Ad <u>v</u> anced

6. Open WEB browser. Enter the IP address http://192.168.100.252/ to login to the configuration menu.

🖉 WL-5460AP v2 - Microsoft Internet	Explorer	<u> </u>	Ð×
<u>File Edit View Favorites Tools (</u>	Help		<b>R</b>
🕞 Back 🔻 💮 👻 😫 🚮	🔎 Search 📌 Favorites 🜒 Media 🤣 🍰 🍃 层		
Address 🙆 http://192.168.100.252/home	asp.	💌 🄁 Go 🛛 Lin	ks »
Air Live OvisLink Corport	WLAN Access Point Mode   Status   TCP/IP   Reboot   Other		
	Thank you for using WLAN Access Point.		
Cone		👔 Internet	