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 Setup button.

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

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

Air Live OvisLink Corp	WLAN Access Point Mode Status TCP/IP Reboot Other		
	Client Mode Setti	ngs	
This page is used to setup different wireless mode.	Alias Name: Disable Wireless L/ Band: Network Type: SSID: Channel Number: Auto Mac Clone (Si Manual MAC Clone Address: Security: Advanced Settings: Apply Changes	Wireless_AP AN Interface 2.4 GHz (B+G) Infrastructure Ad hoc 13 ingle Ethernet Client) 00000000000 Setup Setup Reset	Site Survey

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 "Ad hoc" for configuration.

Air Live	WLAN	Access Point
OvisLink Corp	Mode Status	TCP/IP Reboot Other
	Client Mode Set	tings
This page is used to setup different wireless mode	Alias Name:	Wireless_AP
wireleas moue.	🗖 Disable Wireless I	LAN Interface
	Band:	2.4 GHz (B+G) 💌
	Network Type:	Infrastructure 💌
	SSID:	Ad hoc
	Channel Number:	13
	🗖 Auto Mac Clone (Single Ethernet Client)
	Manual MAC Clone Address:	0000000000
	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/IP Reboot Other				
	Wireless Mode				
This page is used to setun different wireless	Сар	Setup	Access Point.		
mode.	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.

Air Live OvisLink Corp	WLAN Access Point			
	Wireless Mode			
This page is used to	САР	Setup	Access Point.	
mode.	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	WLAN Access Point OvisLink Corporation Mode Status TCP/IP Reboot Other				
OvisLink Corp.					
	Wireless Mode				
This page is used to	Сар	Setup	Access Point.		
mode.	C Client	Setup	Client-Infrastructure / Client Ad-Hoc.		
	C Bridge	Setup	Bridge.		
	C WDS Repeater	Setup	WDS Repeater.		
	Our Contract Contr	Setup	Universal Repeater.		
	C WISP	Setup	WISP.		
	C 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/II	P R∈boo	t Other	
	Wireless Mode			
This page is used to	САР	Setup	Access Point.	
mode.	Client	Setup	Client-Infrastructure / Client Ad-Hoc.	
	C Bridge	Setup	Bridge.	
	© 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 \rightarrow WISP + Universal Repeater" and click the Setup button for configuration.

Air Live OvisLink Corp	WLAN Access Point Mode Status TCP/IP Reboot Other			
	Wireless Mode			
This page is used to	Сар	Setup	Access Point.	
mode.	Client	Setup	Client-Infrastructure / Client Ad-Hoc.	
	C Bridge	Setup	Bridge.	
	C WDS Repeater	Setup	WDS Repeater.	
	C Universal Repeater	Setup	Universal Repeater.	
	C WISP	Setup	WISP.	
	WISP + Universal Repeater	Setup	WISP + Universal Repeater.	
		76		

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/

Eile	Edit	⊻iew	F <u>a</u> vorites	Tools	Help			
G	Back 🝷	Θ	- 🗾 🕻	2 🏠	Search 👷 Favorites	🚱 🔗 😓	📨 • 🔜 鑬 🖏	
Addre	ss હ	http://	192.168.100	1.252/hom	ne.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.

Air Live OvisLink Corport	WLAN Access Point Mode Status TCP/IP Reboot Other
	Thank you for using WLAN Access Point.

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	WLAN Access Point				
OvisLink Corp	Mode Status TC	P/IP Reboot Other			
	AP Mode Settings				
This page is used to setun different	-				
wireless mode.	Alias Name:	Wireless_AP			
	Disable Wireless LAN Interface				
	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 Dec	at			

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 othe				
	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 defa				
	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				
	a network name because essentially it is a name that identifies a wireless network.				
	The default SSID is airlive .				
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 13 .				
Wireless Client	Allow user to set the function Enabled or Disabled .				

Isolation	By the function, all wireless clients can't mutual link, but wireless client still link wi			
	LAN port adapter.			
Security	Prose the setue butten for detail configurations			
Security				
	Wireless Security Setup			
	Encryption: None Apply Cha WPA-PSK (TKIP) WPA-PSK (AES) WPA2-PSK (AES) WPA2-PSK Mixed 802.1x / RADIUS			
To provide a certain I	evel of security, the IEEE 802.11 standard has defined two types of authentication			
methods: Open Syste	m or Shared Key. And WL-5470POE also support other wireless authentication and			
encryption methods for	r enhance your wireless network.			

With Open System authentication, a wireless PC can join any network and receive any messages that are not encrypted. With Shared Key authentication, only those PCs that possess the correct authentication key can join the network. By default, IEEE 802.11 wireless devices operate in an Open System network and None data encryption. If you want secure your wireless network, you need to setup wireless security related function to enable security network.

None

Encryption: None (Encryption is set to None by default.)

If the Access Point is using **Encryption None**, then the wireless adapter will need to be set to the same authentication mode.

Wireless Secur	ity Setup
Encryption: None	T
Apply Changes	Reset

WEP

Encryption: WEP

If selected WEP encryption, you must set WEP key value:

	Wireless Security	y Setup		
	Encryption: WEP			
	Authentication Type:	Open System or Shared Key 💌		
	Key Length:	64-bit 💌		
	Key Format:	Hex (10 characters) 💌		
	Default Tx Key:	Key 1 💌		
	Encryption Key 1:	*****		
	Encryption Key 2:	****		
	Encryption Key 3:	*****		
	Encryption Koy 4:	****		
	Encryption Key 4.			
	Apply Changes	Reset		
Encryption	WEP			
Authentication Type	e You can select Open	System or Shared Key type for auther	ntication.	
Key Length	You can set 64bit or	You can set 64bit or 128bit Encryption.		
Key Format	Select ASCII if you a	Select ASCII if you are using ASCII characters (case-sensitive).		
	Select HEX if you are	Select HEX if you are using hexadecimal numbers (0-9, or A-F).		
Default TX Key	You can enter 4 different Encryption Key and select one key to use as default		to use as default.	
10 hexadecimal digi	0 hexadecimal digits or 5 ASCII characters are needed if 64-bit WEP is used;			
26 hexadecimal digi	its or 13 ASCII characters	are needed if 128-bit WEP is used.		
Shared Key is used	when both the sender and	the recipient share a secret key. So yo	u can choose Open	
system, or one Share	ed Key authentication metho	od.		
WPA-PSK				
Encryption: WPA-P	SK (TKIP) or WPA-PSK (A	<u>ES)</u>		
Wi-Fi Protected Acce	ess (WPA) with Pre-Shared	Key (PSK) provides better security than	WEP keys. It does	
not require a RADIUS	S server in order to provide a	association authentication, but you do ha	ve to enter a shared	
key for the authentica	ation purpose. The encryptic	on key is generated automatically and dy	namically.	
	Wireless Security Setup			
	Encryption: WPA-PSK (TKIP)			
	Pre-Shared Key Format: Passphrase			
	Pre-Shared Key:			
	Group Key Life Time:	86400 sec		
	Annhu Channes D			
	Apply Changes Re	eser		

	Wireless Security Setup			
	Encryption: WPA-PSK (AES)			
	Pre-Shared Key Format: Passphrase			
	Pre-Shared Key:			
	Group Key Life Time: 86400 sec			
	Apply 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. Passphrase and			
	Hex. If Hex is selected, users will have to enter a 64 characters string. For easier			
	configuration, the Passphrase (at least 8 characters) format is recommended.			
Group Key Life Ti	me Enter the number of seconds that will elapse before the group key change			
	automatically. The default is 86400 seconds.			
Encryption: WPA2	-PSK (AES) or WPA-PSK Mixed			
WPA2-PSK authen	tication method is almost like WPA-PSK. You can choose the Pre-Shared Key format and			
enter the Pre-share	d key,			
	Wireless Security Setup			
	Encryption: WPA2-PSK(AES)			
	Pre-Shared Key Format: Passphrase			
	Pre-Shared Key:			
	Group Key Life Time: 86400 sec			
	Apply Changes Reset			
	Wireless Security Setup			
	Encryption: WPA2-PSK Mixed 🔽			
	Pre-Shared Key Format: Passphrase			
	Pre-Shared Key:			
	Group Key Life Time: 86400 sec			
	Apply 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. Pa			
	Hex. If Hex is selected, users will have to enter a 64 characters string. For ea		
	configuration, the Passphrase (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: 802.1x	/ RADIUS 💌
Security: None	
Authentication RAD	IUS Server: Port 1812 IP address Password
🗖 Enable Accoun	ting
Accounting RADIUS	Server: Port 1813 IP address Password
Apply Changes	Reset
Wireless Secu	urity Setup
Encryption: 802.1×	7 RADIUS
Authentice WEP	Ver: Port 1812 IP address Password
Enable WPA (TH WPA (AE Accountin WPA2(A	(IP) ES) ES) 7: Port 1813 IP address Password III
Apply Changes	Reset
Encryption: 802.1x / RA	DIUS
security	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	S Enter the RADIUS Server IP address and Password provided by your IS		ed by your ISP.	
Server	Р	Port: Enter the RADIUS Server's port number provided by your ISP. The default			
is		1812.			
	IF	Address: En	ter the RADIUS Server's IP Address provide	ed by your ISP.	
	Р	assword: Ente	er the password that the AP shares with the	RADIUS Server.	
Accounting RADIUS	5 E	nter the Accou	Inting RADIUS Server IP address and Pass	word provided by your	
Server	15	ISP			
Advanced Settings	Р	ress the setup	button for detail configurations		
	Wire	less Advand	ed Settings		
	Fragm	ent Threshold:	2346 (256-2346)		
	RTS T	reshold:	2347 (0-2347)		
	Beaco	n Interval:	100 (20-1024 ms)		
	Inactiv	ity Time:	50000 (100-60480000 ms)		
Data R Pream Broadd IAPP: 802.119 Tx Pov E Watch Watch		ate:	Auto 💌		
		ble Type:	C Long Preamble C Short Preamble		
		ast SSID:	Enabled O Disabled		
			Enabled O Disabled		
		g Protection:	• Enabled • Disabled		
		ver Level:	Default (About 18dB)		
		nable WatchDog	1		
		Interval:	1 (1-60 minutes)		
		Host:	0.0.0		
		neout:	0.0-255, 0:Auto adjustment, Unit: 4µsec)		
			Set Default		
Apply Change		v Changes	Pacat		
Apply Changes		y changes	Reset		
It is not recommende	ed that s	settings in this	page to be changed unless advanced use	ers want to change to	
meet their wireless environment for optimal performance.					
Fragment Threshold Fra		Fragmentat	ion mechanism is used for improvir	ng the efficiency	
		when high	traffic flows along in the wireless i	network. If your	
		802.11g Wi	reless LAN PC Card often transmit larg	e files in wireless	