

WL-1600USB

High Power Wireless 11G USB Dongle

User's Manual

www.airlive.com

	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
	High Power Wireless 11G USB Dongle
	AirLive L-1600USB
In	is in conformity with accordance with 2004/108/EC Directive and 1999/5 EC-R & TTE Directive
<u>Clause</u>	Description
■ EN 300 328 v1.6.1 (2004-11)	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 301 489-01 V1.6.1 (2005-09)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic compatibility(EMC) standard for radio equipment and
■ EN 301 489-17 V1.2.1 (2002-08)	Services; Part 17 : Specific conditions for wideband data and HIPERLAN equipment

■ CE marking

€€

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Position/ Title $:$	Vice President	(Stamp)

Date : 2008/9/15

AirLive WL-1600USB CE Declaration Statement

Country	Declaration	Country	Declaration
cs	OvisLink Corp. tímto prohlašuje, že tento AirLive	lt	Šiuo OvisLink Corp. deklaruoja, kad šis AirLive
Česky [Czech]	WL-1600USB je ve shodě se základními	Lietuvių	WL-1600USB atitinka esminius reikalavimus ir kitas
	požadavky a dalšími příslušnými ustanoveními	[Lithuanian]	1999/5/EB Direktyvos nuostatas.
	směrnice 1999/5/ES.		
da	Undertegnede OvisLink Corp. erklærer herved, at	nl	Hierbij verklaart OvisLink Corp. dat het toestel AirLive
Dansk [Danish]	følgende udstyr AirLive WL-1600USB overholder	Nederlands [Dutch	WL-1600USB in overeenstemming is met de
	de væsentlige krav og øvrige relevante krav i	_	essentiële eisen en de andere relevante bepalingen
	direktiv 1999/5/EF.		van richtlijn 1999/5/EG.
de	Hiermit erklärt OvisLink Corp., dass sich das	mt	Hawnhekk, OvisLink Corp, jiddikjara li dan AirLive
Deutsch	Gerät AirLive WL-1600USB in Übereinstimmung	Malti [Maltese]	WL-1600USB jikkonforma mal-ħtiġijiet essenzjali u
[German]	mit den grundlegenden Anforderungen und den		ma provvedimenti ofirajn relevanti li hemm
	übrigen einschlägigen Bestimmungen der		fid-Dirrettiva 1999/5/EC.
	Richtlinie 1999/5/EG befindet.		
et	Käesolevaga kinnitab OvisLink Corp. seadme	hu	Az OvisLink Corporation kijelenti, hogy az AirLive
Eesti [Estonian]	AirLive WL-1600USB vastavust direktiivi	Magyar	WL-1600USB megfelel az 1999/05/CE irányelv
	1999/5/EÜ põhinõuetele ja nimetatud direktiivist	[Hungarian]	alapvető követelményeinek és egyéb vonatkozó
	tulenevatele teistele asjakohastele sätetele.		rendelkezéseinek.
en	Hereby, OvisLink Corp., declares that this AirLive	pl	Niniejszym OvisLink Corp oświadcza, że AirLive
English	WL-1600USB is in compliance with the essential	Polski [Polish]	WL-1600USB jest zgodny z zasadniczymi wymogami
0	requirements and other relevant provisions of		oraz pozostałymi stosownymi postanowieniami
	Directive 1999/5/EC.		Dyrektywy 1999/5/EC.
es	Por medio de la presente OvisLink Corp. declara	pt	OvisLink Corp declara que este AirLive WL-1600USB
Español	que el AirLive WL-1600USB cumple con los	Português	está conforme com os requisitos essenciais e outras
[Spanish]	requisitos esenciales y cualesquiera otras	[Portuguese]	disposições da Directiva 1999/5/CE.
	disposiciones aplicables o exigibles de la		1 3
	Directiva 1999/5/CE.		
el	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ OvisLink Corp. ΔΗΛΩΝΕΙ	sl	OvisLink Corp izjavlja, da je ta AirLive WL-1600USB v
Ελληνική [Greek]	OTI AirLive WL-1600USB 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 AirLive
Français [French]	l'appareil AirLive WL-1600USB est conforme aux	Slovensky [Slovak]	WL-1600USB spĺňa základné požiadavky a všetky
	exigences essentielles et aux autres dispositions		príslušné 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 AirLive
Italiano [Italian]	questo AirLive WL-1600USB è conforme ai	Suomi [Finnish]	WL-1600USB tyyppinen laite on direktiivin 1999/5/EY
	requisiti essenziali ed alle altre disposizioni		oleellisten vaatimusten ja sitä koskevien direktiivin
	pertinenti stabilite dalla direttiva 1999/5/CE.		muiden ehtojen mukainen
lv	Ar šo OvisLink Corp. deklarē, ka AirLive		Hér með lýsir OvisLink Corp yfir því að AirLive
Latviski [Latvian]	WL-1600USB atbilst Direktīvas 1999/5/EK	Íslenska [lcelandic]	WL-1600USB er í samræmi við grunnkröfur og aðrar
	būtiskajām prasībām un citiem ar to saistītajiem		kröfur, sem gerðar eru í tilskipun 1999/5/EC.
	noteikumiem.		
sv	Härmed intygar OvisLink Corp. att denna AirLive	no	OvisLink Corp erklærer herved at utstyret AirLive
Svenska	WL-1600USB står I överensstämmelse med de	Norsk [Norwegian]	WL-1600USB er i samsvar med de grunnleggende
[Swedish]	väsentliga egenskapskrav och övriga relevanta		krav og øvrige relevante krav i direktiv 1999/5/EF.
_	bestämmelser som framgår av direktiv		
	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

USING THIS DOCUMENT

This document provides detailed user guidelines for Wireless LAN USB Adapter operation and setting-up. Though every effort has been made to ensure that this document is up-to-date and accurate, more information may have become available subsequent to the production of this guide.

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Chapter 1 Introduction

Thank you for purchasing Wireless LAN USB Adapter. Wireless LAN USB Adapter is a perfect combination of both performance and cost-effective product introduced. It is sincerely hoped that you can enjoy the wireless world through this solidly profiled wireless adapter.

It provides a full solution of all the IEEE 802.11 b/g protocols, that pass the WiFi tests and are compatible with all the wireless products with WiFi logo. If you have a Wireless LAN USB Adapter on hand, it means you can connect to the wireless world without any difficulty.

It also provides all the data rates in the IEEE 802.11 b/g standards, with both short and long preambles to ensure the compatibility of legacy wireless products and new ones, saving the panic works for end users to find compatible products.

Since the security issue has become one of the most important one in the wireless society, it provides you with the full security coverage from the 64/128bits WEP encryptions, second generation WPA-PSK encryption, to the most advanced WPA2-AES encryption. WPA2 is the latest security standard currently approved by WiFi standards.

Saving mode, Adhoc wireless Lan, Wake on Lan (WOL) and other exciting features are also included in this Wireless LAN USB Adapter. This user manual will guide you through these exciting features in the following chapters and we is believed that you will be greatly satisfied with its performance and ease of use.

Chapter 2 Specifications

Host system connections

Interface	Fully complies with USB 2.0 or 1.1
USB date transfer rate	USB high speed (480Mbps), and full speed (12Mbps)

Wireless LAN (WLAN) environment connections

	Multimode features
	Fully complies with IEEE 802.11 b/g specifications
	802.11 b:DQPSK with data scrambling capability to provide data
	rate of 1,2,5.5 and 11Mbps
WLAN transfer rate	802.11 g:A high-speed Fast Fourier
	Transform(FFT)/Inverse Fast Fourier Transform(IFFT)
	provide data rate of 6,9,12.18,24,36,48 and 54Mbps
WLAN Frequency Band	2.4 ~ 2.497 GHz ((Industrial Scientific Medical Band)
Operation Channel	Channel 1 ~ 11
Coverage Area	Indoors:100ft with straight path
Compatibility	Fully compatible to IEEE 802.11 b/g devices
Socurity	Hardware-based IEEE 802.11i encryption/decyption
Security	engine, including 64-bit/128-bit WEP, TKIP, and AES
Antenna	Detachable dipolar antenna
	On: link is on
LED present	Off: ling is off
(Green/Red light)	Quick blinking: data trasition
	Slow blinking with 5 times: scan wireless nodes
Wake on WLAN	Wake up system by wireless LAN(AP mode)

SYSTEM REQUIREMENTS

Windows System : Windows 98SE, Me, 2000, XP 32/64 bit, Vista 32/64 bit

PCs must have a device driver installed. It allows you to communicate with WLAN Mini USB Adapter.

PACKAGE CONTENTS

- 1. Wireless LAN USB Adapter
- 2. Installation Software CD
- 3. User Manual

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Chapter 3 Installation/ Uninstallation

Warning! Do not cover or block the airflow to the adapter. The adapter will reach a high temperature during use.

3.1 Installation

Before you proceed with the installation, please notice the following descriptions.

Note1: The following installation was operated under Windows Vista. (Procedures are similar for Windows 98SE/Me/2000/XP.)

Note2: If you have installed the WLAN USB driver & utility before, please uninstall the old version first.

 Do not plug the wireless LAN USB adapter into your computer USB port before installing the software program. Insert the software program CD, then auto installation window pops up on following:
 While the following screen pops out, click Install Driver And Utility

	Air Live	/// High Power Wi	WL-1600US reless 11G USB Dor	SB Igle
	Quick Setup Guide			
	User's Manual			
	Install Driver And U	tility	08000	
	Acrobat Reader		Alter	
	Browse CD			
	EXIT			
///	Driver & Manual CD		(www.airlive.co	m

3. Choose a set up language. Click Next to process the installation.

AirLive Wireless IIg Wireless Driver and Utility Choose Setup Language Select the language for the installation from the choices below. Basque	
Choose Setup Language Select the language for the installation from the choices below.	<u>×</u>
Basque	
Basque	
Basque	
Bulgarian	
Catalan	
Chinese (Simplified)	
Croatian	
Czech	
Danish Dutch	
English	
Finnish Franch (Constring)	
French (Standard)	
German	
Liteek	
InstallShield	
< Back Next > Cancel	

4. Click Next



5. Click Install

AirLive Wireless 11g Wireless Driver and Utility	
AirLive Wireless 11g Wireless Driver and Utility	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.	
InstallShield	-
< <u>B</u> ack Install Cancel	

6. The system starts software installation of the WLAN USB adapter.

AirLive Wireless 11g Wireless Driver and Utility	X
Setup Status	
The InstallShield Wizard is installing AirLive Wireless 11g Wireless Driver and	d Utility
Installing	
C:\\AirLive WL1600USB Wireless Lan Utility\Driver\difxapi.dll	
Instalioniela	Cancel

7. Click Finish to complete the installation



9. After click **Finish** to complete the installation, under Windows Vista <ALL Programs> menu, AirLive USB wireless LAN Utility program installed.



10. Insert the wireless LAN USB adapter into your computer USB port, the computer detect and drive the wireless LAN USB adapter automatically.

3.2 Uninstallation

From "Wireless Network Driver and Utility", "Control Panel" "Change or Remove Programs".

A. Uninstall the WLAN USB Adapter Driver from "Start", "All Programs", Click "Uninstall" (or "Change/Remove") to remove Wireless LAN USB Adapter driver.





B. Click "Yes" if you want to remove Wireless LAN USB Adapter Driver.



C. Click "Finish" to complete the uninstallation.

AirLive Wireless 11g Wireless Driver and Utility		
	Uninstall Complete InstallShield Wizard has finished uninstalling AirLive Wireless 11g Wireless Driver and Utility. To complete the uninstallation, you must restart your computer. Yes, I want to restart my computer now: No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.	
	< <u>B</u> ack Finish Cancel	

Chapter 4

Rt WLAN: Wireless LAN Management GUI

4.1 Introduction of Main Window



A. Main Menu

The main menu includes five submenus.

1.Refresh(R)

When clicking the refresh menu, you can update and re-enumerate the contents of adapter list area.

2. Set Wizard(S)

2.1 Wizard-1

Click Set Wizard(S) menu to enter operation wizard. Click AP: Setup a wireless network. To configure Access Point parameters.



2.2 Wizard-2

User defines wireless network Name [SSID](less than 32 characters). User may skip wireless security. Strongly recommend user to setup wireless security to avoid invalid users..

Set Wizard Wireless Network Pro Setting AP the mode param		
Network Name(SSID):	AirLive-AP	
The SSID can be dia default, the SSID is packet sent over the Encryption: Disabled	scovered by network sniffing. By part of the packet header for every e WLAN.	
Wired Equivalent Privacy - makes 802.11b wireless LANs more secure. WEP is a protocol that adds security to wireless local area networks (WLANs) based on the 802.11b standard.		
< Back	Next > Cancel	

2.3 Wizard-3

This page shows SSID & Security settings .

Set Wizard
Show Setting Information
Confirms the parameter.
Calling Irel and
Network Name(SSID) :
AirLive-AP
Network Key :
< Back Next > Cancel

2.4 Wizard-4

Show all settings under AP mode. Click Finish to complete wizard setup.



3. Mode (M)

Wireless configuration is quickly switched to either [Station] or [AP].



4. View (V)

Enable/disable the presence of E. Status Bar. Without the check mark (v) the E. Status Bar will be hidden.

5. About(A)

Click the "About" to show the utility information dialog. The application version and license information are shown in utility information dialog.

Thirtie WL1600USB Wireless Lan Utility							
Refresh(R) Set Wizard(S) M	ode(M) View(V) About(A)						
MyComputer	General Profile Available Network Advanced Status Statistics Wi-Fi Protect Setup						
	Status: Not Associated Throughput:						
	Speed: N/A						
	Type: Infrastructure						
	Encryption: N/A						
	SSID:						
	About						
	Ne AirLive WL1600USB Wireless Lan Utility Version 500.1510.1203.2007 Copyright (C) 2003-2007						
	Subnet Mask: 0.0.0.0						
	Gateway:						
	ReNew IP						
Chave Tana Tana	Princhle Adventure						
	Disable Adapter	Close					
Radio Off							
Ready		NUM					

B. Adapter List Area

All connected adapters on this system with multiple adapter installations are displayed in this area. It is easy for users to change the selected adapter by one click. The contents of properties area are dependent on wireless configuration that the selected adapter is set up. If only single adapter is installed on the system, only one adapter is always selected.



C. Properties Area

The contents of this area are dependent on current wireless configuration. The current configuration is determined on previous explanation of submenu "Mode". The more detailed contents are described in the following wireless configuration sections for both Station and AP mode.

General Profile Availab	le Network Advanced Status Statistics Wi-Fi Protect Setup
Chathan	Net Associated Throughput:
Status:	Not Associated Throughput.
Speed:	N/A
Type:	Infrastructure
Encryption:	N/A
SSID:	
Signal Strength:	
Link Quality:	
Network Address:	
	Mac Address: 00:1A:EF:01:97:E0
	IP Address: 0.0.0.0
	Subnet Mask: 0.0.0.0
	Gateway:
	ReNew IP

D. Global Control Bar

Show Tray Icon	Disable Adapter	Close
🔲 Radio Off		

Each control item on this bar affects the adapter or management GUI directly.

Show Tray Icon

Checking "Show Tray Icon" and clicking "Close" button, the management GUI will be minimized and stay on the tray icon which is located at the right bottom corner of Windows. If not, management GUI will shut down while clicking "Close" button with unchecked condition



Radio Off

Turn off the radio to save power. While the radio is off, the links with other wireless network nodes are disconnected. User should be aware that while the wireless configuration is in AP mode. The radio off will cause the sub network which belongs to the AP to be disconnected with internet/intranet.

Disable Adapter

Stop wireless USB device.



E. Status Bar

The hints or status of the management GUI are presented in the status bar.

Ready

NUM

4.2 Station Mode

The following explanations focus on the properties area.

AirLive WL1600USB Wire	less L	an Utility							- 0 X
Refresh(R) Set Wizard(S)	Mo	de(M) View(V)	About	t(A)					
🖃 🚽 MyComputer	\checkmark	Station		Network	Advanced	Status	Statistics	Wi-Fi Protect Setup	
AirLive WL1600U		Access Point		Not Assoc	isted	1	Throughpu	it:	
11	1000		ucus, 1	NOT ASSOC	lated		moughpu	it.	

Infrastructure and Ad-Hoc

With both Infrastructure and Ad-Hoc types, the properties should look like the picture above. Six property pages present different information of current wireless network status. Please read the following explanations before you reviewing these pages, it could help you to well understand the wireless environment around the system. It is easy to use to switch property pages just by clicking left button of mouse on the title of each page. The following six sections describe detailed information of each page.

A. General Page

General Profile Available Network Advanced Status Statistics Wi-Fi Protect S	etup
Status: Not Associated Throughput: Speed: N/A Type: Infrastructure Encryption: N/A SSID: Signal Strength:	
Link Quality:	
Network Address:	
Mac Address: 00:1A:EF:01:97:E0	
Subnet Mask: 0.0.0.0	
Gateway:	
ReNew IP	

This page represents the general information of this adapter.

1. Status

The status of station connection to AP.

2. Speed

Current transition speed in Mbps (Mega-Bits-Per-Second).

3. Type

Current wireless LAN configuration type.

4. Encryption

Current encryption mode used.

5. SSID

Name of wireless network.

6. Signal Strength

The average signal quality of packets received from wireless network.

We recommend connecting AP with over 70% signal strength.

7. Throughput Diagram

Current throughput, including transmission (Tx) and total traffic (Total).

8. Network Address

Mac Address: six two-digital number of this Wireless LAN USB adapter

IP Address: assigned network address by DHCP server or self-definition in four three-digital number format.

- Subnet Mask: the only valid value is 2555.255.255.0
- Gateway: It comes from connected AP. Your system can not connect internet with this field empty.

B. Profile Page

This page provides profiles management such as add, remove, edit and duplicate just by pressing the respected button.

Available Profile(s)

The list box shows all the created profiles.



1. Add

Add a new profile for AP or IBSS (Ad-Hoc mode).

2. Remove

Remove the selected profile.

3. Edit

Edit contents of selected profile.

4. Duplicate

Make copy of selected profile.

5. Set Default

Set the selected profile as default selection.

6. Available Network Page

This page presents all BSS, including AP and IBSS, around this system. You can pick any one of these network connections.

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C. Available Network(s)

Show network connection around this system

Available Net	work(s)	Chr			Natura	k Authoptication	Cianal	Tune	RCCID
Airlive-	AP I	Cha	1 1	None None None	Unknov	vn vn	88% 63%	Infrastructure Infrastructure	00:1A:EF:01:D1:20 00:1A:EF:00:00:B7
•									ł
Note Double	Re click on iten	efresh m to joir	n/create	e profile.	Add to	Profile			

1. Refresh

Rescan network connection around this system.

2. Add to Profile

Create profile for selected network connection and add it to profile list.

D. Advanced Page

	General	Profile	Available	Network	Advanced	Status	Statistics	Wi-Fi Protect Setu	ρ
	P No Mir Ma	rower S ne n x	ave	Turk OFF ON ON	bo Mode O	256	Fragment	Threshold: 2346	; 2432
802.11g/b 802.11b 802.11g/b Auto	Wirele (Prean	ss Mode 802.11 able Mod	e: g/b ▼ de: ▼			0	KIS	1 nresnola: 234)	2432
Long Short Auto	l Chanr (nel Plan: ETSI	•						
		9	et Defau	ilts			A	pply	

1. Power Save

None: without power save function.

Min: wake up more frequently to receive packets.

Max: wake up less frequently to receive packets.

2. Wireless Mode

802.11b

802.11g/b

3. 802.11b Preamble Mode

Long: higher quality but with lower performance than preamble short mode.

Short: Normal quality but with higher performance than preamble long mode.

Auto: use the preamble mode of current.

4. Fragment Threshold

The threshold of fragment length. Higher threshold increase data transition performance with good signal quality. However, in a poor signal quality environment, data throughput might be worse on high fragment threshold than low fragment threshold.

5. RTS Threshold

Threshold of Request To Send mechanism. The RTS frame will not send out until the packet size over threshold.

6. WOL (Wake On LAN)

The wake-on-LAN is applied for remote control purpose. You could wake up a system through network packets. For Wireless LAN USB Adapter, only the same adapter on another system could wake it up.

Input MAC Address: the six two-digit numbers of Wireless LAN USB Adapter on target system.

Wake Up: click this button to wake it up .

7. Set Defaults

Restore the default value to be current settings.

8. Apply

Apply the current settings to GUI.

General Profile Available Network Advanced Status Statistics Wi-Fi Protect Setup	
Manufacturer Airlive	
NDIS Driver Version 6.1304.1119.2007	
Short Radio Header Yes	
Encryption Disabled	
Authenticate Open	
Channel Set ETSI	
MAC Address 00:E0:4C:81:87:01	
Data Rate (AUTO) 54 Mbps	
Channel (Frequency) 7 (2442 MHz)	
Status Associated	
SSID TEST2-AP	
Network Type Infrastructure	
Power Save Mode None	
Associated AP MAC 00:1A:EF:01:01:01	
Up Time (hh:mm:ss) 1:19:47	

1. NDIS Driver Version

Driver version

2. Short Radio Header

Yes

3. Encryption

Current encryption mode.

4. Authenticate

Authentication state

5. Channel Set

Selected channel plan currently.

6. MAC Address

MAC address of this adapter.

7. Data Rate

Wireless LAN transition speed

8. Channel(Frequency)

Current channel number

9. Status

Wireless network status

10. SSID: name of connecting AP

11. Network Type

Indicate current network configuration type

12. Power Save Mode

Current setting power save mode

13. Associated AP MAC

MAC address of connecting AP

14. Up Time

Total connection time

F. Statistics Page

You could watch the Tx/Rx status of current wireless connection. This page shows a statistic analysis of packet transition.

General	Profile	Available Network	Advanced	Status	Statistics	Wi-Fi Protect	Setup
	Cour	nter Name				Value	
	Tx C	Ж				153	
	Tx E	rror				0	
	Rx O	Ж				1086	
	Rx P	acket Count				1086	
	Rx R	etry				2	
	Rx I	CV Error				0	
							_
							_
						Reset	

4.3 AP Mode

A. General Page

This page provides general information of this AP, including name, MAC address and list of joined stations.

1. SSID

The name of this AP.

2. BSSID

Six two-digital numbers of the MAC address of this AP.

3. Association Table

It is the list of joined stations to this AP.

4. AID (Association ID)

The AID field is a value assigned by an AP during association that represents 16-bit ID of a station.

It is a unique value assigned by AP.

5. MAC address

It is the six two-digit numbers that assemble the MAC address of respected joined station.

6. Life Time

It is the timer that counts down from 10 minutes whenever the AP connects the station successfully. If an STA associated to SW AP does not have any interaction with the AP in 10 minutes, it will be disassociated from the Infra-structure BSS.

7. Config

Wireless Network Properties:	
This is a computer-to-computer(ad hoc) network; wireless access points are not used.	
Profile Name: AirLive-AP	
Network Name(SSID): AirLive-AP	
Channel: 1 (2412MHz) 🔻	
Wireless network security	
This network requires a key for the following:	
Network Authentication: Open System	Open System
Data encryption: Disabled	Shared Key WPA-PSK WPA2-PSK
ASCII PASSPHRASE	
Key index (advanced): 1	
Confirm network key:	
OK <u>Cancel</u>	

A dialog of this AP is shown for configuration modification.

7.1. Network Name (SSID)

Name of the AP searchable by other wireless nodes. The length of SSID should be shorter than 32 characters.

7.2. Channel

Select the wireless channel within current channel plan.

7.3. Network Authentication & Data Encryption

There are three types of authentication:

• Open System

It is combined with data encryption type to be WEP or to be disabled.

Encryption ~ disabled: you decide to open this AP to every one without network authentication.

Encryption ~ WEP: you decide to setup the basic data encryption with a defined network key.

• Shared Key + WEP

You decide to apply both authentication and data encryption to prevent unauthorized login.

WPA-PSK + TKIP & WPA2-PSK + TKIP

The most advanced authentication and data encryption that provide the best security protection.

7.4. ASCII/ PASSPHRASE

The most advanced authentication and data encryption that provide the best security protection.

- ASCII: You should provide either 5 or 13 ASCII characters on Network key edit box.
- PASSPHRASE: You could input words on Network Key edit box.
 64 bits: The generated pass key is 64-bit to be complied with data packets.
 128 bits: The generated pass key is 128-bit to be complied with data packets.
- Hexadecimal: While both ASCII and PASSPHRASE are not checked, you should input hexadecimal number in the network key box. For example, 10 digits hex number for 64-bit WEP or 26 digits hex number for 128-bit WEP.

7.5. Key index (1 ~4)

At most four key index to represent the opposite network key.

B. Advanced Page

Users could setup the advanced characteristics of network packet for transmission on this page.



1. Beacon Interval

This filed indicates the interval between each beacon that this AP sends out in unit of TU (1024 micro-seconds).

2. DTIM Period

The DTIM Period field is the number of Beacon intervals between successive DTIMs.

3. Preamble Mode

- Long: higher quality but with lower performance than preamble short mode.
- Short: Normal quality but with higher performance then preamble long mode.

• Auto: select the proper preamble mode by current signal frame information.

C. Statistics Page

The Tx/Rx status of current wireless connection is shown. A statistic analysis of packet transition is listed.

Rx Packet Count	0
Rx ICV Error	0

D. ICS Page

General Advanced Statistics IC	25	
Setting Internet Connection Sharing (ICS)		
ConnName	Device Name	
Local Area Connection Airlive Fast Ethernet NIC		
•	• III	
Public Network		
Local Area Connection Airlive Fast Ethernet NIC		
Apply		

1. ConnName

List all network connections to this system. You can pick up one from the listed item(s) whose network domain you would want to connect to.

2. Select

Make the desired network connection to public network.

3. ICS

Internet Connection Sharing. It enables this AP to create the domain to share this internet/intranet network connection.

4. Firewall

Any of a number of security schemes that prevents unauthorized users from gaining access to a computer network, or that monitors transfers of information to and from the network.

5. Apply

Execute the current settings.