Air Live®
Powered by OvisLink Corp.

WL-5470POE

## Hi-Powered POE Access Point with eight Operation Modes

As the leading global WISP solution provider, AirLive understands the application environments of WISP operators. As a result, we are constantly upgrading our AP's firmware to meet the changing demand of WISP operators. The firmware adds high end features not commonly found in the AP of this class. AirLive multi-function Access Points not only work for long distance application, but also work much better than the competition.

8 Modes	802.3af PoE	Bandwidth Control	Watchdog	DHCP Relay	SSH
Router	4MB Flash	16MB DRAM	802.11g/b	Signal Survey	

8 Wireless Operation Modes

The AirLive WL-5470POE can operate in eight different wireless modes. It can work as a Wireless Router, AP, Client, Repeater, Bridge, and much more. Whether it is for home, office, or WISP; the AirLive AP has a solution for you.
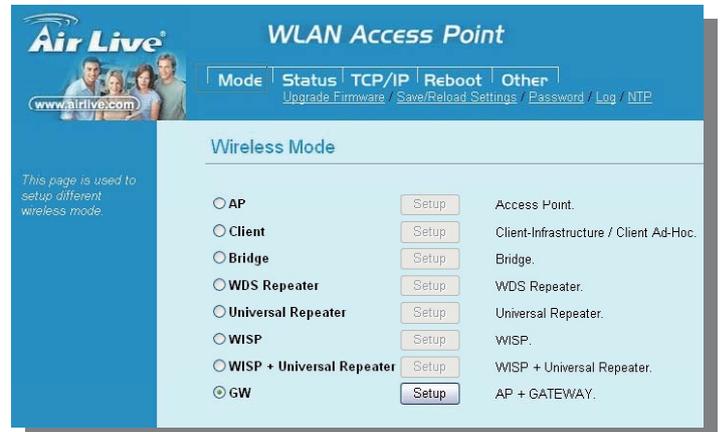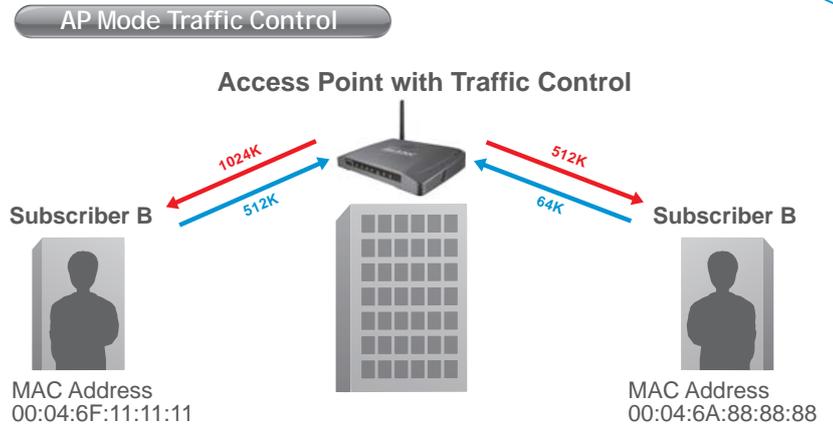
Up to 400mW of Output Power*

AirLive's high quality hardware let the AP expand its RF output power up to 26dBm using South American firmware. That's four times the output power of regular AP! It means much greater distance and coverage.

* For South America only. Not available for other regions.

Manufacturer

OvisLink Corp.

5F, No.96, Min-ChuanRd, Hsin-tien City, Taipei, Taiwan

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Traffic Control QoS Function

Traffic Control is a great tool to control the bandwidth of the WISP subscribers. Therefore, the WISP operators can offer different class of connection speeds for different subscription fees - just like the ADSL service! The AirLive advanced Traffic Control firmware can control the bandwidth by user interface or IP/MAC.

AP Mode Traffic Control

Access Point with Traffic Control

1024K
512K
512K
64K

Subscriber B

Subscriber B

MAC Address
00:04:6F:11:11:11

MAC Address
00:04:6A:88:88:88

Dynamic Signal Survey Function for Antenna Alignment

Having trouble align your antenna correctly to the other outdoor AP? The AirLive Wireless Signal Survey function tells you the receiving signal strength dynamically as your antenna turns. It automatically refreshes itself in the process, therefore, making antenna alignment much simpler than before.

Antenna Alignment Survey

Outdoor AP

Signal 70

Signal 20

WL-5470POE
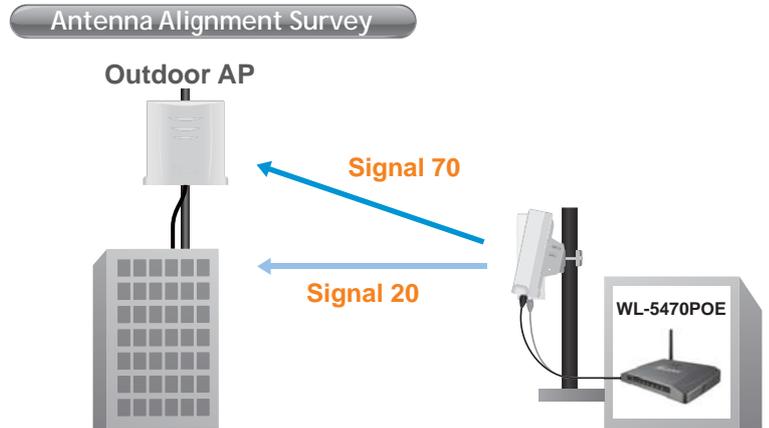
Signal Survey

SSID	BSSID	Channel	Type	Encrypt	Signal
airlive	00:50:18:21:d2:27	1 (B+G)	AP	no	83

Wireless Site Survey Connection Wizard

During a new WISP service installation, the installer will need to find out which outdoor AP provides the best signal in the area for connection. The AirLive wireless site survey function provides one step setup for this process. First, the site survey page shows which AP has the strongest signal. Then the installer performs antenna alignment by using the signal survey function. At last, the installer simply clicks on "connect" button to establish connection. The site survey is available even in AP mode, so the installer can check the channels used by surrounding APs to avoid interferences.

Wireless Site Survey

SSID	BSSID	Channel	Type	Encrypt	Signal	Select
testd	00:0b	11 (B+G)	AP	WPA-PSK	100	○
Gateway	00:4f:	11 (B+G)	AP	no	85	○
airlive	00:50	1 (B+G)	AP	no	83	⊙
AirForce-2	0a:4	2 (B+G)	AP	no	82	○
AirLive	00:4	2 (B+G)	AP	no	82	○
Air-force-1	06:4f	2 (B+G)	AP	no	82	○
Freedom	00:05	6 (B)	AP	WEP	67	○
802.11g-SSID	00:e0	11 (B+G)	AP	no	63	○
CL-WLAN	00:13	1 (B+G)	AP	WPA	62	○

[Refresh] [Connect] [Signal Survey]

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Telnet Function

Some WISP operators prefer to use CLI command line for configurations. The firmware provides full command line feature via Telnet.

```
Telnet 192.168.0.123                                         - □

Welcome !!!

WL-5470AP> ip help
valid subcommands are:
------------------
          address subnetmask gateway dhcp dns ping status urlfilter ipfilter macfi
lter nat

WL-5470AP> _
```

SSH login

WL-5470POE provides SSH secure connection for remote management. The program SSH (Secure Shell) is a secure replacement for Telnet. It provides an encrypted channel for logging into WL-5470POE over a network, executing commands on WL-5470POE from your workstation. SSH provides strong host-to-host and user authentication as well as secure encrypted communications over an insecure Internet.

Wireless Client Isolation

AirLive firmware's **Client Isolation** function protects the security and privacy of each individual subscriber. Therefore, subscriber does not need to worry about hacker attacks in the same wireless network.

Client Isolation

WL-5470POE
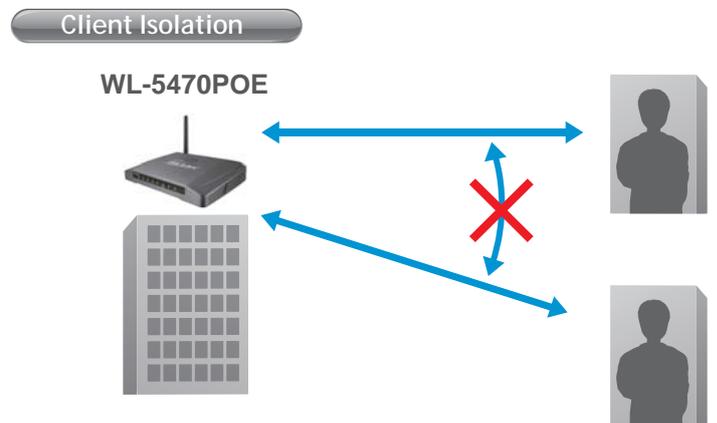
Emergency Recovery

How many times your machine crashed and lost access completely?
The AirLive's Emergency web server function means you can recover your AP even if the machine failed during a firmware upgrade. This greatly reduces the service loading for WISP operators.

Flash Memory

Firmware Area

Bootloader Area

Emergency
Web Server
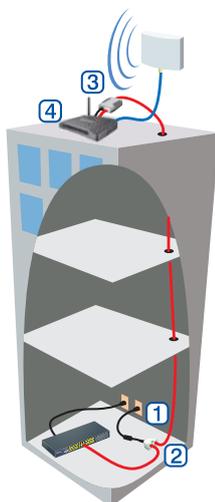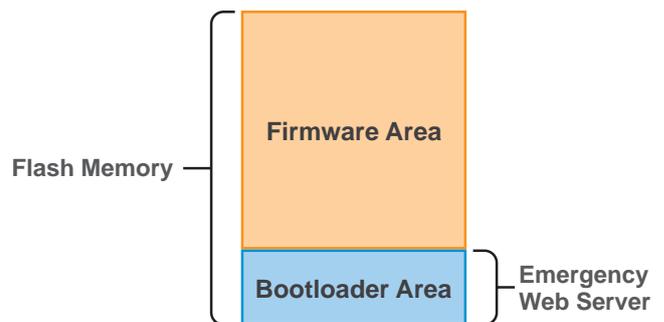
① Power Adapter
② Base Unit
③ Terminal Unit
④ DC Power Card

Power over Ethernet

For applications that require user to put a network device (such as AP) in a place where there is no electrical outlet available, the Power over Ethernet is the best solution. Power over Ethernet allows both data and electricity to be transmitted over a Cat.5 UTP/STP cable at up to 100 meter of distance. This allows electronic devices to be placed in the outdoor or difficult to reach places, while utilizing the power source and the Ethernet network indoor.

* The TX output power is limited to 20dBm in EU region.

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FEATURES & SPECIFICATIONS

Features

- AP, Bridge, Client, Repeater functions
- Router and Gateway mode
- WISP Client Router mode WISP + Universal Repeater Mode
- Up to 26dBm output power (South America)
- R-SMA antenna connector, detachable Antenna
- IEEE802.3af standard compliant
- 802.1x, WPA, WPA2 and Web Mgt
- 4MB Flash, 16MB SDRAM
- 20dBm(EU) or 26dBm(South America) Output Power
- TX power regulation in 6 levels
- Bandwidth Control and Signal Survey
- Client Isolation, Watchdog, and TX Power egulation
- SSH2/HTTP/Telnet managements
- DHCP Relay Agent Supported
- Up to 40 Access Control List
- ACK Timeout Adjustment
- Watchdog, and TX Power Regulation
- Watchdog function use PING
- WDS Site Survey
- 802.11g Protection
- 40 MAC Access Control List

Specifications

Hardware
- 2 x 10/100Mbps LAN Port LAN 1 compliant with IEEE802.3af standard
- 4MB Flash, 16MB SDRAM
- Reversed SMA Antenna Port
- Power, LAN, WLAN LED indicators

Antenna
- 2 dBi detachable Dipole Antenna
- Reversed SMA Connector

WISP Mode
- DHCP, PPTP, L2TP, PPPoE ISP Authentication Support
- Wireless Client function as WAN
- To configure the WISP mode, you PC must be connected to the LAN port

Gateway Mode
- LAN 1 becomes to WAN port
- NAT Routing between WAN and LAN port
- Wireless used for LAN side
- Virtual Server, MAC filtering, DMZ, Firewall, IP filtering functions

Security
- 64/128-bit
- 802.1x Radius Support
- WPA/WPA2-PSK support
- WPA Enterprise support in AP/WDS mode

Configuration
- Web/Telnet/SSH2 Management
- WDS (Bridge, Client, Repeater) mode
- Hide ESSID
- 802.1x

Frequency Range
- USA (FCC) 11 Channels: 2.412GHz~2.462GHz
- Europe (ETSI) 13 Channels : 2.412GHz~2.472GHz
- Japan (TELEC) 14 Channels :2.412GHz~2.483GHz

Receiver Sensitivity

Rx Senstivity @ 25°C				
			Spec.	
IEEE 802.11b	Min (dBm)	1Mbps	-	-95
		2Mbps	-	-91
		5.5Mbps	-	-90
		11Mbps	-76	-86
IEEE 802.11g	Min (dBm)	6Mbps	-82	-86
		9Mbps	-81	-86
		12Mbps	-79	-85
		18Mbps	-77	-83
		24Mbps	-74	-81
		36Mbps	-70	-77
		48Mbps	-66	-73
		54Mbps	-65	-71

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Modulation Technique
- 11g Orthogonal Frequency Division Multiplexing (64QAM, 16QAM, QPSK, BPSK)
- 11b Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK) Data Rate: 54, 48, 36, 24, 18,11, 5.5, 2, 1 Mbps

Output Power
- 20dBm(EU), 23dBm(FCC), 26dBm(South America)
- Adjustable in 6 levels
- MAC Access Control
- MAC Access Table
- Wireless Client Isolation
- SSID, Channel, RTS Threshold, Fragment Threshold

Environmental
- Operating temperature: 0~60 ℃; Operating humidity (non-condensing): 20~80%
- Storage temperature: -20~65 ℃
- Storage humidity: 95% Max

Power Supply
- DC12V or 82.3af PoE

EMI
- FCC, CE

Product Weight (g)
- 236 g

Product Size (L x W x H (mm))
- 60 x 115 x 30 mm

Ordering Information:

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