

WH-5420CPE

Hi-Powered Wireless outdoor CPE

A s 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. The AirLive multi-function Access Points not only work for long distance application, but also work much better than the competitions.













Manufacturer OvisLink Corp.



8 Wireless Operation Modes

The AirLive WH-5420CPE can operate in 8 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.



Tx Power Level:	Default (About 17dB)
🔲 Enable WatchDog	Level 1 (About 26dB) Level 2 (About 23dB)
Watch Interval:	Level 3 (About 20dB) Default (About 17dB)
Watch Host:	Level 5 (About 15dB)
Ack timeout:	Level 6 (About 13dB) U (U-255, U:Auto adjustment, Unit: 4µsec) Set Default
Apply Changes	Reset

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.

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 advance Traffic Control firmware can control the bandwidth by Interface or IP/MAC.





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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.

	SSID	BSSID	Channel	Туре	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.

Telnet Function

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

SSH login

WH-5420CPE provides SSH secure connection for remote management. The program SSH

Antenna Alignment Survey

SSID	BSSID	Channel	Туре	Encrypt	Signal	Select
testd	00:0Ł	11 (B+G)	AP	WPA- PSK	100	0
Gateway	00:4f:	11 (B+G)	AP	no	85	0
airlive	00:50	1 (B+G)	AP	no	83	٢
AirForce-2	0a:4	2 (B+G)	AP	no	82	0
AirLive	00:4	2 (B+G)	AP	no	82	0
Air-force-1	06:4f	2 (B+G)	AP	no	82	0
Freedom	00:05	6 (B)	AP	WEP	67	0
802.11g-SSID	00:e0	11 (B+G)	AP	no	63	0
CL-WLAN	00:13	1 (B+G)	AP	WPA	62	0

🔤 Telnet 192.	168.0.123								
Welcome !!!									
WL-5470AP> ip he valid subcommane									
address lter nat	subnetmask	gateway	dhcp	dns	ping	status	urlfilter	ipfilter	macfi
WL-5470AP> 🛓									

(Secure Shell) is a secure replacement for Telnet. It provides an encrypted channel for logging into WL-5420POE over a network, executing commands on WH-5420CPE from your workstation. SSH provides strong host-to-host and user authentication as well as secure encrypted communications over an insecure Internet.



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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.

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.

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

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)
- Built-in 14dBi Patch antenna
- 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

- 1 x 10/100Mbps LAN Port compliant with IEEE802.3af standard
- 4MB Flash, 16MB SDRAM
- IP65 Weather proof Enclosure

Antenna

- Built-in 14dBi patch antenna
- 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

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Gateway Mode

- LAN port 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

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		

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

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 °C; Operating humidity (non-condensing): 20~80%
- Storage temperature: -20~65 °C
- Storage humidity: 95% Max

Power Supply

- 82.3af PoE 48V, 0.35A

EMI

- FCC, CE

Product Weight (g)

- 1105 g

Product Size

- (L x W x H (mm)) 225 x 122 x 225 mm

Ordering Information:

AirLive WH-5420CPE AirLive OD-25M Hi-Powered Wireless outdoor CPE Optional 25 meter POE Cable



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