# 123 Fast Installation Guide LanPro's LP-1520ai Radio in Client Mode

LP1520ai\_M123\_ENE01W



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This Fast Installation Guide will let you perform a fast installation of this device.

Check the box contents and physical installation as per the following list:

- LP-1520ai Radio.
- LP-PoE150 Injector
- Power cable.

## Physical connections

- Connect the Data + Power UTP Cable coming from the LP-PoE150 injector to the Watertight connector on the bottom of the LP-1520ai Radio from LanPro.
- Connect a Cat5e cable as per the 568a or 568b standard from the port marked as Data on the LP-PoE150 to the Switch. (In case you want to configure the Radio in a direct manner, please use a crossed cable).

#### Logical Configuration

3.1 Please go to your Network Card (NIC) properties as shown in figure 1 and configure the IP protocol to obtain an IP address automatically as shown in figure 2.

Advanced	
Connect using: Intel(R) PR0/1000 MT Mobile Conne Configure	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.
his connection uses the following items:	Obtain an IP address automatically
WWLink IPX/SPX/NetBIOS Compatible Transport Prot	O Use the following IP address:
AEGIS Protocol (IEEE 802.1x) v3.0.0.8	IP address:
Some Internet Protocol (TCP/IP)	Subnet mask:
	Default gateway.
Install Uninstall Properties	Obtain DNS server address automatically
Description	Use the following DNS server addresses:
wide area network protocol that provides communication	Preferred DNS server:
across diverse interconnected networks.	
Show icon in notification area when connected	
	Advanced.

Figure 1

Figure 2

Open your preferred Browser and input the following address: 192.168.1.254 as shown in figure 3. The configuration window will pop-up but won't ask for a Username or Password. Note: remember to select a Username and password for your equipment as the configuration might be accessed by any one.

C WLAN	AP WebUI - Windows Internet Exp	plorer	
	▼ 🙋 192.168.1.254		*
* *	C WLAN AP WebUI		
		Figure 3	

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3.3 You should define the functionality of your Radio. The possible modes are:

- WDS: in case you want to create a link between two or more points (PtP, PtmP).
- WDS+Client: case you want to create a link between two or more points (PtP, PtmP) and accept Client type connections.
- AP: mode AP in which your equipment will serve to extend your wired network into a wireless way.
- Client: Mode in which the AP will be a client of a wireless network, or to link two wired networks, or as a client of a WLAN that is farther than a Wireless card can reach.

3.4 In the window shown in figure 4, you should disable the DHCP service and change the IP address by selecting options TCP/IP Settings, LAN Interface, change the IP address as per your convenience, select DHCP and Disabled. Please select Apply Changes in order to activate them.

- LANPRU	LP-1520ai High Power AP.	WWLAN-PRODUCTS.COM
Site contents: Setup Wizard Operation Mode Wireless Advanced Settings Security Access Control WOS settings	LAN Interface Setup 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 addresss, subnet mask, DHCP, etc IP Address: Subnet Mask: 255255255.0	-
LAN Interface	Default Gateway:     B.0.0.0       DHCP:     Server       DHCP Client Range:     Client       Domain Name:     Server       802.1d Spanning Tree:     Disabled       Clone MAC Address:     00000000000       Apply Changes     Reset	

3.5 Please go to your NIC card properties as shown in figure 5 and configure the IP protocol as shown in figure 6 so that it is in the equipment range. In this example, it should be in the segment 192.168.1.x. where x must be different to 254 as it belongs to the LP-1520ai.

Advanced	General	
Intel(R) PR0/1000 MT Mobile Conne Configure	You can get IP settings assigned this capability. Otherwise, you ne the appropriate IP settings.	d automatically if your network supports eed to ask your network administrator for
his connection uses the following items:	Obtain an IP address autor	natically
STNWLink IPX/SPX/NetBIOS Compatible Transport Prot	<ul> <li>Use the following IP address</li> </ul>	<b>K</b>
AEGIS Protocol (IEEE 802.1x) v3.0.0.8	IP address:	192.168.1.1
Themet Protocol (TCP/IP)	Subnet mask:	255 . 255 . 255 . 0
	Default gateway:	192.168.1.254
Description	Obtain DNS server address	automatically
Transmission Control Protocol/Internet Protocol. The default	<ul> <li>Use the following DNS service</li> </ul>	ver addresses:
wide area network protocol that provides communication across diverse interconnected networks.	Preferred DNS server:	192.168.1.254
Show icon in notification area when connected	Alternate DNS server:	
Notify me when this connection has limited or no connectivity		Advanced

Figure 5

Figure 6

Please open your preferred browser and place the following address: 192.168.1.254. A configuration window will pop-up as shown in figure 7, it won't ask for a Username or password. Note: please remember to define a username and password because anyone could Access the Configuration and change it without your permission.

C WLAN	AP WebUI - Windows Internet Ex	kplorer	
00	▼ 🙋 192.168.1.254		*
* *	HIAN AP WebUI		
		Figure 7	

# Modes Configuration:

## 4.1 In figure 8,

**Mode Client:** Please select option **Basic Settings**, select **Mode Client**, and select also mode **Infrastructure**. Once these changes are done, select **Apply Changes** in order to save the changes.

≅LANPRO	LP-1520ai High Power AP.	WWWLAN-PRODUCTS.COM
Site contents: Setup Wizard Operation Mode Wireless Basic Settings Advanced Settings Security Advanced Settings Security	Wireless Basic Settings This page is used to configure the parameters for wireless LAN cheets which may your Access Point. Here you may change wireless encryption settings as well as network parameters. Disable Wireless LAN Interface	y connect to wireless
Access Control     WOS settings     Site Survey     WPPS     TCP/IP Settings     Firewall     Management	Band: 2.4 GHz (B+G) Mode: Network Type: SSID: Channel Number: Associated Clients: Show Active Clients	
	Enable Mac Clone (Single Ethernet Client)     Enable Universal Repeater Mode (Acting as AP and client simultaneouly) SSID of Extended Interface:     Apply Changes     Reset	



In figure 9, you can now configure the LP-1520ai security, by selecting Wireless, Security, then choose between several configuration options shown for the AP against which you wish to connect. Finish by selecting option Apply Changes in order to save the changes. Remember that the LP-1520ai is a client of an already existing WLAN.

SLANPRO		LP-1520ai High Power AP.	www.lan-products.com
Site contents: Setup Wizard Operation Mode TBasic Settings Advanced Settings Scanty Wild Settings Scanty Wild Settings TCP/IP Settings LAN Interface Firewall Management	Wireless Security This page allows you setup the wir could prevent any unauthorized ac Encryption: WPA2 V Use 802.1x Authentication WPA Authentication Mode: WPA2 Cipher Suite: Pre-Shared Key: Enable Pre-Authentication Authentication RADIUS Server:	LP-1520ai High Power AP. Setup eless security. Turn on WEP or WPA by using E cess to your wireless network. Set WEP Key • WEP 64bits WEP 128bits • Enterprise (RADIUS) • Personal (Pre-Sha • TKIP AES • TKIP AES • Passphrase • • Port 1812 IP address Pa	www.an.PRODUCTS.COM
	Note: When encryption WEP is se	lected, you must set WEP key value. et	

Figure 9



In figure 10, select option **Site Survey** in order to locate the WLAN you wish to connect to as a client, select **Select** and **Connect**.

Site contents: Setup Wizard Operation Mode	Wireless Sit	te Survey	etwork. If	any Acc	ess Point o	or IBSS is	found.
Wireless Basic Settings Advanced Settings Security Access Control WWS settings WS settings WPS	you could choose to c	onnect it manually when	n client mo	de is en	abled.		
	0000	Beerb	~	-	-	01 1	0.1
	Lanpro1	00:14:78:53:12:18	4 (B+G)	AP	WPA- PSK	41	Select
	Lanpro2	00:18:39:cc:c0:5d	6 (B+G)	AP	WPA- PSK	40	0
TCP/IP Settings	Lanpro3	00:1c:c5:d8:c6:8a	11 (B+G)	AP	WPA- PSK	7	0

Figure 10

In figure 11, once the equipment has been configured, you must select a password by selecting option Management, Password and filling in the corresponding data. Once done, select Apply changes.

3 LANPRO	LP-152	20ai High Power AP.	WWW.LAN-PRODUCTS.COM
<ul> <li>Site contents:</li> <li>Setup Wizard</li> <li>Operation Mode</li> <li>Wireless</li> <li>Basic Settings</li> <li>Advanced Settings</li> <li>Security</li> <li>Access Control</li> <li>WDS settings</li> <li>Site Survey</li> <li>WPS</li> <li>TCP/IP Settings</li> <li>LAN Interface</li> <li>WAN Interface</li> <li>Status</li> <li>Status</li> <li>Status</li> <li>Status</li> <li>Status</li> <li>Time Zone Setting</li> <li>Denial-of-Service</li> <li>Log</li> </ul>	Apply Changes Reset	the web server of Access Point. E	www.LAN-PRODUCTSCOM
Upgrade Firmware			

Figure 11

#### Notes

For antenna alignment, you must have a line of sight with the other radio antenna. The aperture of this antenna is about 45 degrees in the horizontal plane. There are applications in which a distance of 6 Km has been achieved with excellent results.

This radio can be fixed to a post or a wall, taking care of positioning it in a manner that the cable enters from the bottom.