

**123 Manual for the Installation of the LP-1520ai as a
Universal Repeater.**

LP1520ai_M123_ENG01W

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LP-1520ai as a Universal Repeater.**

Dear user, please consider the following data in this installation procedure:

- 1 Name of the Network whose signal you wish to repeat.
- 2 Channel of the Network whose signal you wish to repeat.
- 3 Key and Cyphering mode of the Network whose signal you wish to repeat.
- 4 Cyphering mode shall be: WEP, WPA(TKIP) o WPA2(AES).
- 5 Please take in mind if you have MAC or IP access control in the router or AP you wish to repeat the signal from.

In this configuration, the LP-1520ai will be a client of the network you wish to repeat and an additional Access point of the selected wireless network.

1

Please go to your network card's properties and select: **Internet Protocol**, select: **Properties**, as shown in figure 1.

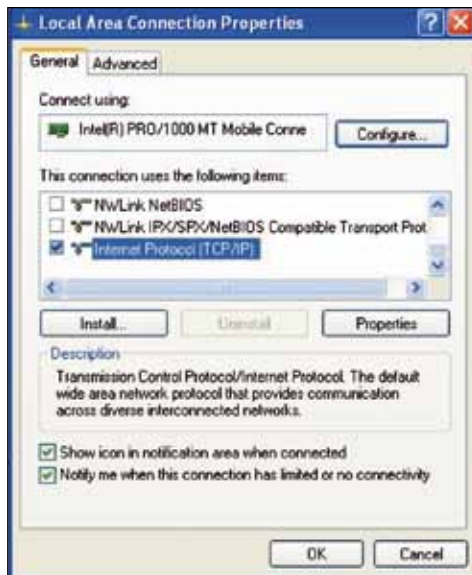


Figure 1

2

Once the properties window pops-up, as shown in figure 2, please select: Use the following IP address and input an IP address inside the default IP range of the LP-1520ai. In this example we have selected the IP address: 192.168.1.201. The LP-1520ai has a default address of 192.168.1.254, input in: Subnet mask 255.255.255.0, in: Default Gateway the destination router address, in the DNS please input your ISP's DNS address or the destination router address that provides the Internet service, this is permits the corresponding queries reach the destination network's router.

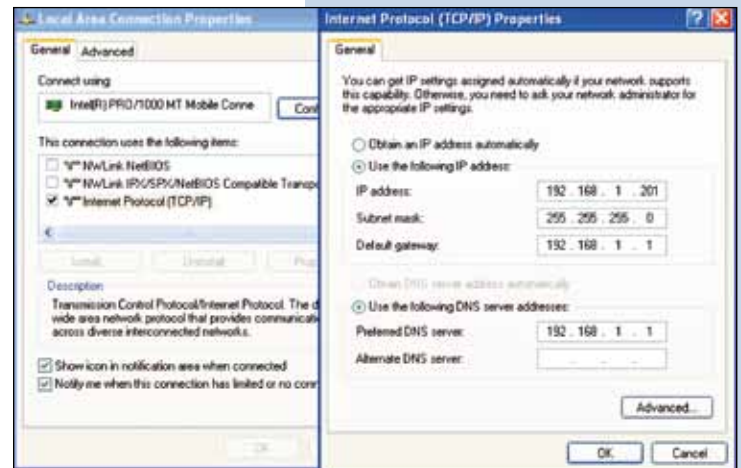


Figure 2

Once finished, select: **Ok** and then: **Close**.

3

Proceed to connect to the LP-1520ai.

Open your preferred browser and input the default address 192.168.1.254, as shown in figure 3.

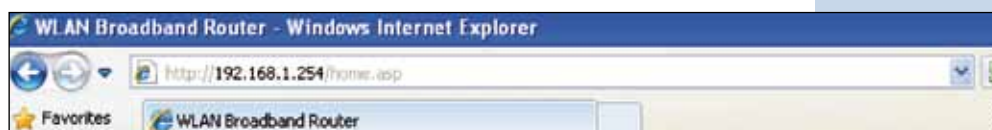


Figure 3

4

Select option: **TCP/IP Settings, LAN Interface** and in the DHCP field select: **Disabled**. Then select: **Apply changes**, as shown in figure 4. (Remember to verify that the LP-1520ai's IP address is not being used in the network to which you will connect to, we recommend to use an IP address inside the destination network so it can be managed).

The screenshot shows the 'LAN Interface Setup' page for the LANPRO LP-1520ai High Power AP. The page title is 'LAN Interface Setup' and the subtitle is '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 address, subnet mask, DHCP, etc.'. The configuration fields are as follows:

IP Address:	192.168.1.254
Subnet Mask:	255.255.255.0
Default Gateway:	0.0.0.0
DHCP:	Disabled
DHCP Client Range:	192.168.1.100 - 192.168.1.200
Domain Name:	
S02.1d Spanning Tree:	Disabled
Clone MAC Address:	000000000000

Buttons: Apply Changes, Reset

Figure 4

5

In figure 5, select: **Operation Mode**, select also: **Bridge**, then select: **Apply Changes**, wait for the equipment to reboot.

The screenshot shows the 'Operation Mode' page for the LANPRO LP-1520ai High Power AP. The page title is 'Operation Mode' and the subtitle is 'You can setup different modes to LAN and WLAN interface for NAT and bridging function.'. The configuration options are as follows:

<input type="radio"/> Gateway:	In this mode, the device is supposed to connect to internet via ADSL Cable Modem. The NAT is enabled and PCs in LAN ports share the same IP to ISP through WAN port. The connection type can be setup in WAN page by using PPPoE, DHCP client, PPTP client or static IP.
<input checked="" type="radio"/> Bridge:	In this mode, all ethernet ports and wireless interface are bridged together and NAT function is disabled. All the WAN related function and firewall are not supported.
<input type="radio"/> Wireless ISP:	In this mode, all ethernet ports are bridged together and the wireless client will connect to ISP access point. The NAT is enabled and PCs in ethernet ports share the same IP to ISP through wireless LAN. You must set the wireless to client mode first and connect to the ISP AP in Site-Survey page. The connection type can be setup in WAN page by using PPPoE, DHCP client, PPTP client or static IP.

Buttons: Apply Change, Reset

Figure 5

6

As shown in figure 6, select: **Wireless, Basic Settings**, in: **Mode** select: **AP**. The SSID will be different to the one of the network you will connect to because this will be a new Access point. In: **Channel Number**, select the same channel of the network you will repeat the signal from, select option: **Enable Universal Repeater Mode**, input in: **SSID of external Interface** the name of the SSID of the network you will repeat the signal from and then select: **Apply Changes**, once done, the equipment will reboot.

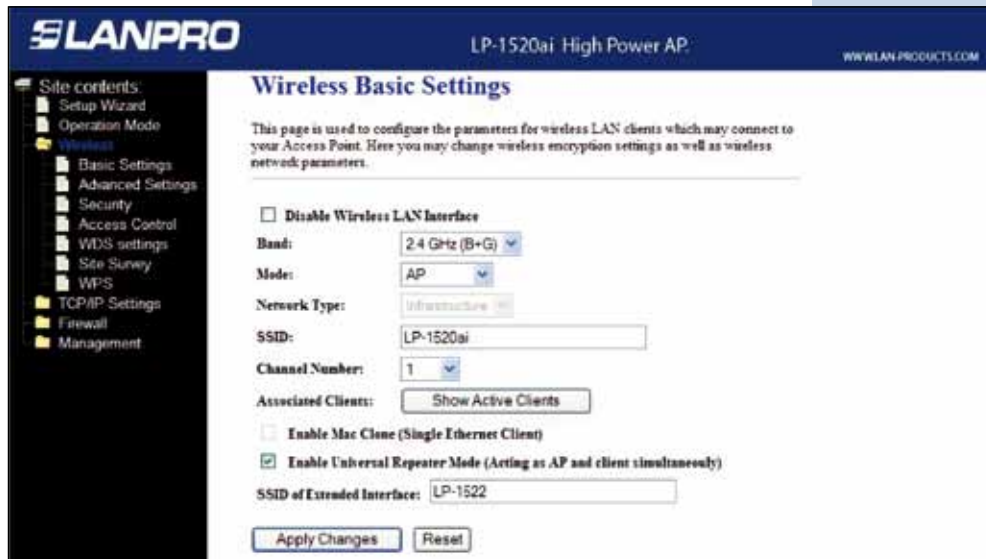


Figure 6

7

You will now configure the wireless network security in case the destination router has it enabled. Always remember then in this configuration, the LP-1520ai behaves as a client of the destination router. Please configure its security as if it were another client of this network. Please take in mind that the security mode WPA2 is not supported in Client Mode. This same encryption will be used by the clients that connect to this new Access point.

Select: **Wireless, Security**, in mode: **Encryption**, use the corresponding one and input the key.

Then select: **Apply changes**, as shown in figure 7.



Figure 7

8

Select: **OK** as shown in figure 8.

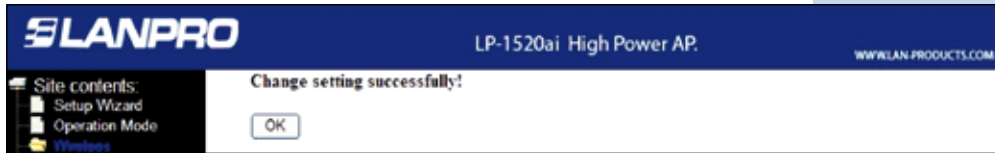


Figure 8

The equipment will reboot now.

Once the configuration has been done, the LP-1520ai will automatically connect even though you disconnect it and connect it again.

9

Highly Recommended:

As shown in figure 9, proceed to change the Administration Password of your equipment. In order to do this action, select: **Management**, then: **Password**. Input the user name: **admin**, the input the new password in: **New Password** and in: **Confirmed Password**, select then: **Apply changes**. In order to be able to access the equipment again, you will have to input the new data when asked by the equipment.



Figure 9