



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ZYXEL P-330W V2. You'll find the answers to all your questions on the ZYXEL P-330W V2 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual ZYXEL P-330W V2**  
**User guide ZYXEL P-330W V2**  
**Operating instructions ZYXEL P-330W V2**  
**Instructions for use ZYXEL P-330W V2**  
**Instruction manual ZYXEL P-330W V2**

## *P-330W, P-330W v2*

*802.11g Secure Wireless Internet Sharing Router*

### **User's Guide**

Version 1.90  
1/2008  
Edition 1

DEFAULT LOGIN	
IP Address	http://192.168.10.1
User Name	admin
Password	1234

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**ZyXEL**  
www.zyxel.com



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**Manual abstract:**

· ZyXEL Web Site Please refer to <http://www.us.zyxel.com> for additional support documentation and product certifications. User's Guide Feedback Help us help you. Send all User's Guide-related comments, questions or suggestions for improvement to the following address, or use e-mail instead. Thank you! The Technical Writing Team, ZyXEL Communications Corp., 6 Innovation Road II, Science-Based Industrial Park, Hsinchu, 300, Taiwan. E-mail: [techwriters@zyxel.com](mailto:techwriters@zyxel.com).

tw P-330W User's Guide 3 Document Conventions Document Conventions Warnings and Notes These are how warnings and notes are shown in this User's Guide. Warnings tell you about things that could harm you or your P-330W. Notes tell you other important information (for example, other things you may need to configure or helpful tips) or recommendations. Syntax Conventions · The P-330W may be referred to as the "P-330W", the "device", the "system" or the "product" in this User's Guide. · Product labels, screen names, field labels and field choices are all in bold font.

· A key stroke is denoted by square brackets and uppercase text, for example, [ENTER] means the "enter" or "return" key on your keyboard. · "Enter" means for you to type one or more characters and then press the [ENTER] key. "Select" or "choose" means for you to use one of the predefined choices. · A right angle bracket ( > ) within a screen name denotes a mouse click. For example, Maintenance > Log > Log Setting means you first click Maintenance in the navigation panel, then the Log sub menu and finally the Log Setting tab to get to that screen.

· Units of measurement may denote the "metric" value or the "scientific" value. For example, "k" for kilo may denote "1000" or "1024", "M" for mega may denote "1000000" or "1048576" and so on. · "e.g.," is a shorthand for "for instance", and "i.e.," means "that is" or "in other words". Icons Used in Figures Figures in this User's Guide may use the following generic icons. The P-330W icon is not an exact representation of your P-330W. 4 P-330W User's Guide

Document Conventions Table 1 P-330W Computer Notebook Server Printer Telephone Switch Router Internet Cloud Firewall Modem Wireless Signal P-330W User's Guide 5 Safety Warnings Safety Warnings For your safety, be sure to read and follow all warning notices and instructions.

· Do NOT use this product near water, for example, in a wet basement or near a swimming pool. · Do NOT expose your device to dampness, dust or corrosive liquids. · Do NOT store things on the device. · Do NOT install, use, or service this device during a thunderstorm. There is a remote risk of electric shock from lightning. · Connect ONLY suitable accessories to the device. · Do NOT open the device or unit. Opening or removing covers can expose you to dangerous high voltage points or other risks. ONLY qualified service personnel should service or disassemble this device. Please contact your vendor for further information.

· Make sure to connect the cables to the correct ports. · Place connecting cables carefully so that no one will step on them or stumble over them. · Always disconnect all cables from this device before servicing or disassembling. · Use ONLY an appropriate power adaptor or cord for your device. Connect it to the right supply voltage (for example, 110V AC in North America or 230V AC in Europe).

· Do NOT allow anything to rest on the power adaptor or cord and do NOT place the product where anyone can walk on the power adaptor or cord. · Do NOT use the device if the power adaptor or cord is damaged as it might cause electrocution. · If the power adaptor or cord is damaged, remove it from the device and the power source. · Do NOT attempt to repair the power adaptor or cord. Contact your local vendor to order a new one.

· Do not use the device outside, and make sure all the connections are indoors. There is a remote risk of electric shock from lightning. · Do NOT obstruct the device ventilation slots, as insufficient airflow may harm your device. · Antenna Warning! This device meets ETSI and FCC certification requirements when using the included antenna(s). Only use the included antenna(s). · If you wall mount your device, make sure that no electrical lines, gas or water pipes will be damaged. · Make sure that the cable system is grounded so as to provide some protection against voltage surges. This product is recyclable. Dispose of it properly. 6 P-330W User's Guide Safety Warnings P-330W User's Guide 7 Safety Warnings 8 P-330W User's Guide Contents Overview Contents Overview

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.. 99 *Figure 60 Advanced: Ping* .....

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..... 100 *Figure 61 Advanced: DoS* ..

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.... 102 *Figure 62 Advanced: Diagnostic* .....

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. 103 *Figure 63 Administrator: Remote Management* ....

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..... 106 *Figure 65 Temporarily Disconnected* .....

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*... 150 Figure 109 Pop-up Blocker .....*

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. 175 Table 67 Wireless Security Levels .....

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The WLAN is active. The WLAN is sending/receiving data. The WLAN connection is turned off. An Ethernet device is connected to the LAN port. The P-330W is sending/receiving data on this port. An Ethernet device is connected to the LAN port. The P-330W is sending/receiving data on this port. No device is connected to the LAN port. P-330W User's Guide 27 Chapter 1 Introducing the P-330W 28 P-330W User's Guide CHAPTER 2 Introducing the Web Configurator This chapter describes how to access the P-330W web configurator and provides an overview of its screens.

2.1 Web Configurator Overview The embedded web configurator allows you to manage the P-330W from anywhere through a browser such as Microsoft Internet Explorer or Netscape Navigator. Use Internet Explorer 6.0 and later or Netscape Navigator 7.0 and later versions with JavaScript enabled. It is recommended that you set your screen resolution to 1024 by 768 pixels. The screens you see in the web configurator may vary somewhat from the ones shown in this document due to differences between individual P-330W models or firmware versions. 2.2 Accessing the P-330W Web Configurator 1 Make sure your P-330W hardware is properly connected and prepare your computer/ computer network to connect to the P-330W (refer to the Quick Start Guide). 2 Launch your web browser.

3 Type "192.168.10.1" as the URL. 4 Type "admin" as the User Name 5 Type "1234" (default) as the password. 6 Click OK to login. You should now see the MAIN MENU screen. The management session automatically times out when there has been no activity for several minutes. Simply log back into the P-330W if this happens to you. P-330W User's Guide 29 Chapter 2 Introducing the Web Configurator 2.

2.1 Resetting the P-330W If you forget your password or cannot access the web configurator, you will need to use the RESET button at the back of the P-330W to reload the factory-default configuration file. This means that you will lose all configurations that you had previously and the password will be reset to "1234". Procedure To Use The Reset Button 1 Make sure the PWR LED is on (not blinking). 2 Press the RESET button for approximately ten seconds or until the PWR LED begins to blink and then release it. When the PWR LED begins to blink, the defaults have been restored and the P-330W restarts. (If you press the RESET button for less than 5 seconds, the P-330W will reboot, but will not reset the configuration). 2.2.2 Navigating the P-330W Web Configurator The following summarizes how to navigate the web configurator from the SITE MAP screen.

· Click SETUP WIZARD for initial configuration including general setup, Wireless LAN Setup, ISP parameters for Internet Access and WAN IP/DNS Server/MAC address assignment. · Click a link under WIRELESS to configure wireless settings. · Click a link under ADVANCED to configure advanced P-330W features. · Click LOGOUT at any time to exit the web configurator. · Click ADMINISTRATOR to view information about your P-330W or upgrade configuration/firmware files.

Administrator includes Statistics, Remote Management, Upgrade Firmware, Config File (Backup, Restore, Defaults) and Time Zone Settings. Figure 4 The MAIN MENU Screen of the Web Configurator 30 P-330W User's Guide Chapter 2 Introducing the Web Configurator 2.2.3 Navigation Panel After you log in, use the sub-menus on the navigation panel to configure P-330W features. The following table describes the sub-menus.

Table 3 Screens Summary LINK SETUP WIZARD TAB FUNCTION Use these screens for initial configuration including general setup, Wireless LAN setup, ISP parameters for Internet Access and WAN IP/DNS Server/MAC address assignment. Use this screen to switch the P-330W between gateway, bridge, and wireless client mode. Use this screen to configure you LAN, including default IP address of the P-330W, LAN DHCP, and viewing current DHCP clients. Use this screen to change your password. This screen contains administrative and system-related information. Basic Settings Advanced Settings Site Survey Security WDS Setting Trusted Stations WPS ADVANCED Access Control Dynamic DNS DMZ Virtual Servers Special Applications WAN Port Ping DoS Settings Diagnostics Use this screen to configure the wireless LAN. Use this screen to configured advanced wireless system behavior. Use this screen to scan the wireless network. Use this screen to configure wireless encryption and authorization settings. Use this screen to configure the P-330W to connect more APs via wireless.

Use this screen to set up MAC address filtering for WLAN clients. Use this screen to set up WPS (Wi-Fi Protected Setup). Use this screen to set up packet filtering policies. Use this screen to configure dynamic DNS service settings. Use this screen to isolate a specific device from the rest of the network. Use this screen to configure servers behind the P-330W. Use this screen to change your P-330W's trigger port settings. Use this screen to change your P-330W's WAN ISP settings. Use this screen to verify network connectivity. Use this screen to configure Denial of Service settings.

Use this page to look up DNS information. OPERATION MODE LAN PASSWORD STATUS WIRELESS P-330W User's Guide 31 Chapter 2 Introducing the Web Configurator Table 3 Screens Summary LINK Administrator TAB Remote Management Config File Logs IP Filtering MAC Filtering FUNCTION Use this page to allow remote clients to manage the P-330W. Use this screen to backup and restore the configuration or reset the factory defaults to your P-330W. Use this screen to change your P-330W's log settings and to view the logs for the categories that you selected. Use this page to configure a list of IP addresses that the router will not allow traffic to or from.

Use the MAC filter screen to configure the P-330W to block access to devices or block the devices from accessing the P330W. This screen contains administrative and system-related information. Use this screen to change your P-330W's time and date or enable NTP server use. Use this screen to upload firmware to your P-330W. This screen allows you to block sites containing certain web sites based on their URL.

Click this label to exit the web configurator. Statistics Time Zone Setting Upgrade Firmware URL Filtering LOG OUT 32 P-330W User's Guide PART II Tutorials and Wizard Tutorials (35) Wizard Setup (39) 33 34 CHAPTER 3.1 Connect to the Wireless Network 3 Tutorials This section describes how to connect the wireless client to your WiFi network. 3.1.1 Connecting to a Wireless LAN The following sections show you how to join a wireless network using the ZyXEL utility, as in the following diagram. The wireless client is labelled C and the access point is labelled AP. There are three ways to connect the client to an access point. · Configure nothing and leave the wireless client to automatically scan for and connect to any available network that has no wireless security configured.



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· Manually connect to a network.

· Configure a profile to have the wireless client automatically connect to a specific network or peer computer. This example illustrates how to manually connect your wireless client to an access point (AP) which is configured for WPA-PSK security and connected to the Internet. Before you connect to the access point, you must know its Service Set IDentity (SSID) and WPA-PSK pre-shared key. In this example, the SSID is "SSID\_Example3" and the pre-shared key is "ThisismyWPA-PSKpre-sharedkey". After you install the ZyXEL utility and then insert the wireless client, follow the steps below to connect to a network using the Site Survey screen. P-330W User's Guide 35 Chapter 3 Tutorials 1 Open the ZyXEL utility and click the Site Survey tab to open the screen shown next. 2 The wireless client automatically searches for available wireless networks. Click Scan if you want to search again. If no entry displays in the Available Network List, that means there is no wireless network available within range. Make sure the AP or peer computer is turned on or move the wireless client closer to the AP or peer computer.

3 When you try to connect to an AP with security configured, a window will pop up prompting you to specify the security settings. Enter the pre-shared key and leave the encryption type at the default setting. Use the Next button to move on to the next screen. You can use the Back button at any time to return to the previous screen, or the Exit button to return to the Site Survey screen. Figure 5 ZyXEL Utility: Security Settings 4 The Confirm Save window appears.

Check your settings and click Save to continue. 36 P-330W User's Guide Chapter 3 Tutorials Figure 6 ZyXEL Utility: Confirm Save 5 The ZyXEL utility returns to the Link Info screen while it connects to the wireless network using your settings. When the wireless link is established, the ZyXEL utility icon in the system tray turns green and the Link Info screen displays details of the active connection. Check the network information in the Link Info screen to verify that you have successfully connected to the selected network. If the wireless client is not connected to a network, the fields in this screen remain blank.

Figure 7 ZyXEL Utility: Link Info 6 Open your Internet browser and enter <http://www.zyxel.com> or the URL of any other web site in the address bar. If you are able to access the web site, your wireless connection is successfully configured. If you cannot access the web site, try changing the encryption type in the Security Settings screen, check the Troubleshooting section of this User's Guide or contact your network administrator. P-330W User's Guide 37 Chapter 3 Tutorials 38 P-330W User's Guide CHAPTER 4.1 Wizard Setup Overview 4 Wizard Setup This chapter provides information on the Wizard Setup screens in the web configurator. The web configurator's setup wizard helps you configure your device to access the Internet. The second screen has five variations depending on what encapsulation type you use. Leave a field blank if you don't have that information.

The fifth wizard screen varies according to the type of encapsulation that you select in the third wizard screen. 4.2 Wizard Setup: Screen 2 The P-330W offers five choices of encapsulation. They are DHCP Client, Static IP, over Ethernet, L2TP or PPTP. PPP 4.2.1 DHCP Client Choose DHCP Client when the WAN port is used as regular Ethernet and your ISP assigns you an IP address via DHCP. Figure 8 Wizard 2: DHCP Client Encapsulation 4.2.2 Static IP Choose Static IP when the WAN port is used as regular Ethernet and your ISP assigns you a fixed IP address.

P-330W User's Guide 39 Chapter 4 Wizard Setup Figure 9 Wizard 2: Static IP Encapsulation The following table describes the labels in this screen. Table 4 Wizard 2: Ethernet Encapsulation LABEL IP Address Subnet Mask Default Gateway DNS DESCRIPTION The fixed IP address should be in the same subnet as your broadband modem or router. This should be provided to you by your ISP Enter a Subnet Mask appropriate to your network. Enter the Gateway IP Address of the neighboring device, if you know it. If you do not, leave the Gateway IP Address field blank.

DNS (Domain Name System) is for mapping a domain name to its corresponding IP address and vice versa. The DNS server is extremely important because without it, you must know the IP address of a computer before you can access it. Enter your DNS Server IP address here. Click Cancel to abort the setup wizard. Click Back to return to the previous screen.

Click Next to continue. ISP Parameters for Internet Access Cancel Back Next 4.2.3 PPPoE Encapsulation Point-to-Point Protocol over Ethernet (PPPoE) functions as a dial-up connection. PPPoE is an IETF (Internet Engineering Task Force) draft standard specifying how a host personal computer interacts with a broadband modem (for example DSL, cable, wireless, etc.) to achieve access to high-speed data networks. For the service provider, PPPoE offers an access and authentication method that works with existing access control systems (for instance, Radius). For the user, PPPoE provides a login and authentication method that the existing Microsoft Dial-Up Networking software can activate, and therefore requires no new learning or procedures for Windows users. One of the benefits of PPPoE is the ability to let end users access one of multiple network services, a function known as dynamic service selection. This enables the service provider to easily create and offer new IP services for specific users.

Operationally, PPPoE saves significant effort for both the subscriber and the ISP/carrier, as it requires no specific configuration of the broadband modem at the subscriber's site. 40 P-330W User's Guide Chapter 4 Wizard Setup By implementing PPPoE directly on the P-330W (rather than individual computers), the computers on the LAN do not need PPPoE software installed, since the P-330W does that part of the task. Furthermore, with NAT, all of the LAN's computers will have Internet access. Refer to the appendix for more information on PPPoE. Figure 10 Wizard 2: PPPoE Encapsulation The following table describes the labels in this screen. Table 5 Wizard 2: PPPoE Encapsulation LABEL User Name Password Cancel Next Back DESCRIPTION Type the user name given to you by your ISP. Type the password associated with the user name above. Click Cancel to abort the setup wizard. Click Next to continue. Click Back to return to the previous screen.

ISP Parameter for Internet Access 4.2.4 PPTP Encapsulation Point-to-Point Tunneling Protocol (PPTP) is a network protocol that enables transfers of data from a remote client to a private server, creating a Virtual Private Network (VPN) using TCP/IP-based networks. PPTP supports on-demand, multi-protocol, and virtual private networking over public networks, such as the Internet.



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Refer to the appendix for more information on PPTP.

The P-330W supports one PPTP server connection at any given time. P-330W User's Guide 41 Chapter 4 Wizard Setup Figure 11 Wizard 2: PPTP Encapsulation The following table describes the fields in this screen Table 6 Wizard 2: PPTP Encapsulation LABEL IP Address Subnet Mask Default Gateway Server IP Address User Name Password Cancel Back Next DESCRIPTION Type the (static) IP address assigned to you by your ISP. Type the subnet mask assigned to you by your ISP. Type the default gateway assigned to you by your ISP. Type the IP address of the PPTP server. Type the user name given to you by your ISP. Type the password associated with the User Name above. Click Cancel to abort the setup wizard. Click Back to return to the previous screen. Click Next to continue. ISP Parameters for Internet Access 4.2.5 L2TP Encapsulation Layer Two Tunneling Protocol (L2TP) is a network protocol that enables transfers of data from a remote client to a private server, creating a Virtual Private Network (VPN) using TCP/IP-based networks. 42 P-330W User's Guide Chapter 4 Wizard Setup Figure 12 Wizard 2: L2TP Encapsulation The following table describes the fields in this screen Table 7 Wizard 2: L2TP Encapsulation LABEL Attain IP Automatically Set IP Manually IP Address IP Subnet Mask Default Gateway Server IP Address User Name Password Cancel Back Next DESCRIPTION Select this if your ISP automatically assigns you an IP Address. Select this if your ISP has assigned you a fixed IP address.

Type the (static) IP address assigned to you by your ISP. Type the subnet mask assigned to you by your ISP. Type the default gateway assigned to you by your ISP. Type the IP address of the L2TP server. Type the user name given to you by your ISP. Type the password associated with the User Name above. Click Cancel to abort the setup wizard. Click Back to return to the previous screen. Click Next to continue. 4.

3 Wizard Setup: Screen 3 Set up the basics of your wireless LAN using the third wizard screen. P-330W User's Guide 43 Chapter 4 Wizard Setup Figure 13 Wizard 3: Wireless LAN Basic Setup The following table describes the labels in this screen. Table 8 Wizard 3: Wireless LAN Basic Setup LABEL Band DESCRIPTION Choose the operating mode of your wireless access point. 2.4GHz (B+G) offers the greatest compatibility. 2.4 GHz (B) will only allow 802.11b clients to connect to the wireless LAN. 2.4 GHz (G) will only allow 802.

11g clients to connect to the wireless LAN. Enter a descriptive name (up to 32 printable 7-bit ASCII characters) for the wireless LAN. If you change this field on the P-330W, make sure all wireless stations use the same SSID in order to access the network. To manually set the P-330W to use a channel, select a channel from the drop-down list box. Select this check box to disable the wireless LAN capabilities of your P-330W. Click Cancel to abort the setup wizard. Click Back to display the previous screen. Click Next to proceed to the next screen. SSID Channel Number Disable Access Point Cancel Back Next The wireless stations and P-330W must use the same SSID, channel ID and encryption key (if encryption is enabled) for wireless communication. 4.

4 Wizard Setup: Screen 4 There are 5 different versions of this page depending on what method of encryption you want to enable on your wireless LAN. 44 P-330W User's Guide Chapter 4 Wizard Setup 4.4.1 No Encryption Choose None to allow the WLAN to operate without encryption. Warning: With no encryption enabled anyone will be able to access your network and view any data you send over the wireless LAN. 4.4.2 WEP Encryption Choose WEP to setup WEP Encryption parameters. Figure 14 Wizard 4: Wireless LAN Setup: WEP Security The following table describes the labels in this screen. Table 9 Wizard 4: Wireless LAN Setup: WEP Security LABEL Key Length Key Format DESCRIPTION Select 64-bit WEP or 128-bit WEP data encryption. Select ASCII in order to enter ASCII characters as the WEP keys. Select Hex to enter hexadecimal characters as the WEP keys. Default Tx Key This key refers to which key below will be used as the default key. Key 1 to Key 4 The WEP keys are used to encrypt data. Both the P-330W and the wireless stations must use the same WEP key for data transmission.

If you chose 64-bit WEP, then enter any 5 ASCII characters or 10 hexadecimal characters ("0-9", "A-F"). If you chose 128-bit WEP, then enter 13 ASCII characters or 26 hexadecimal characters ("0-9", "A-F"). You must configure at least one key, only one key can be activated at any one time. The default key is key 1. Click Cancel to abort the setup wizard.

Cancel P-330W User's Guide 45 Chapter 4 Wizard Setup Table 9 Wizard 4: Wireless LAN Setup: WEP Security LABEL Back Next DESCRIPTION Click Back to display the previous screen. Click Next to proceed to the next screen. 4.4.3 WPA Choose WPA security in the Wireless LAN Setup screen to set up a Pre-Shared Key using TKIP or AES encryption. Figure 15 Wizard 4: Wireless LAN Setup: WPA Security The following table describes the labels in this screen. Table 10 Wizard 4: Wireless LAN Setup: WPA Security LABEL WPA Cipher Suite WPA (PreShared Key) Format WPA PreShared Key Cancel Back Next DESCRIPTION Choose the encryption type (TKIP or AES) for data encryption. You can choose to enter the pre-shared key manually in HEX format or use a passphrase. Note, many client devices only allow entry via passphrase. For Passphrase: Type from 8 to 63 case-sensitive ASCII characters.

For HEX: Type a 64 character hex key. Click Cancel to abort the setup wizard. Click Back to display the previous screen. Click Next to proceed to the next screen. 4.4.4 WPA2 (AES) Choose WPA2 (AES) security in the Wireless LAN Setup screen to set up a Pre-Shared Key using AES encryption. 46 P-330W User's Guide Chapter 4 Wizard Setup Figure 16 Wizard 4: Wireless LAN Setup: WPA2 Security The following table describes the labels in this screen. Table 11 Wizard 4: Wireless LAN Setup: WPA2 Security LABEL WPA (PreShared Key) Format WPA (PreShared Key) Format Cancel Back Next DESCRIPTION You can choose to enter the pre-shared key manually in HEX format or use a passphrase. Note, many client devices only allow entry via passphrase. For Passphrase: Type from 8 to 63 case-sensitive ASCII characters. For HEX: Type a 64 character hex key. Click Cancel to abort the setup wizard. Click Back to display the previous screen. Click Next to proceed to the next screen.

4.4.5 WPA2 Mixed Choose WPA2 Mixed security in the Wireless LAN Setup screen to set up a Pre-Shared Key using both TKIP and AES encryption. This allows both WPA and WPA2 clients to connect. Figure 17 Wizard 4: Wireless LAN Setup: WPA2 Security The following table describes the labels in this screen.

Table 12 Wizard 4: Wireless LAN Setup: WPA2 Security LABEL WPA Format WPA (PreShared Key) Format DESCRIPTION You can choose to enter the pre-shared key manually in HEX format or use a passphrase.



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Note, many client devices only allow entry via passphrase. For Passphrase: Type from 8 to 63 case-sensitive ASCII characters. For HEX: Type a 64 character hex key. P-330W User's Guide 47 Chapter 4 Wizard Setup Table 12 Wizard 4: Wireless LAN Setup: WPA2 Security LABEL Cancel Back Next DESCRIPTION Click Cancel to abort the setup wizard. Click Back to display the previous screen. Click Next to proceed to the next screen. 4.5 Basic Setup Complete Click Finish to complete the wizard setup and save your configuration. Well done! You have successfully set up your P-330W to operate on your network and access the Internet.

48 P-330W User's Guide PART III Advanced System Screens (51) Wireless (57) Advanced Options (85) Administrator Options (105) 49 50 CHAPTER Figure 18 System Screen Menu Options 5 System Screens This chapter provides information on the options configurable from the main System screens. 5.1 Setup Wizard See the Setup Wizard chapter for more information on this selection. 5.2 Operation Mode Click Operation Mode to open the Operation Mode screen. Figure 19 Operation Mode Setup P-330W User's Guide 51 Chapter 5 System Screens The following table describes the labels in this screen. Table 13 System General Setup LABEL Gateway Bridge DESCRIPTION This is the standard operating mode. The P-330W takes on all the usual roles of a home router, including NAT, DHCP Server, and Firewall. Select this to turn your P-330W into a pure bridge, directly linking all computers on your network to the WAN. In this mode, you have no protection from Internet based threats.

In this mode, the wireless LAN is disabled and instead the wireless module is acts as a client to connect to a Wireless ISP. All the normal router functions are enabled. Click Save to save your changes back to the P-330W. Click Reset to begin configuring this screen afresh. Wireless ISP Save Reset 5.

3 LAN Local Area Network (LAN) is a shared communication system to which many computers are attached. The LAN screens can help you configure a LAN DHCP server, manage IP addresses, and partition your physical network into logical networks. 5.3.1 DHCP Setup DHCP (Dynamic Host Configuration Protocol, RFC 2131 and RFC 2132) allows individual clients to obtain TCP/IP configuration at start-up from a server.

You can configure the P-330W as a DHCP server or disable it. When configured as a server, the P-330W provides the TCP/IP configuration for the clients. If DHCP service is disabled, you must have another DHCP server on your LAN, or else the computer must be manually configured. 5.3.2 IP Pool Setup The P-330W is pre-configured with a pool of 33 IP addresses starting from 192.168.10.33 to 192.168.

10.65. This configuration leaves 32 IP addresses (excluding the P-330W itself) in the lower range for other server computers, for instance, servers for mail, FTP, TFTP, web, etc., that you may have. 5.3.3 System DNS Servers Refer to the IP Address and Subnet Mask section in the Setup Wizard chapter. 5.3.4 LAN TCP/IP The P-330W has built-in DHCP server capability that assigns IP addresses and DNS servers to systems that support DHCP client capability.

5.3.5 Factory LAN Defaults The LAN parameters of the P-330W are preset in the factory with the following values: 52 P-330W User's Guide Chapter 5 System Screens · IP address of 192.168.10.

1 with subnet mask of 255.255.255.0 (24 bits) · DHCP server enabled with 33 client IP addresses starting from 192.168.

10.33. These parameters should work for the majority of installations. If your ISP gives you explicit DNS server address(es), read the embedded web configurator help regarding what fields need to be configured. 5.3.6 IP Address and Subnet Mask Refer to the IP Address and Subnet Mask section in the Wizard Setup chapter for this information. 5.3.7 Configuring IP Click LAN to open the IP screen.

Figure 20 LAN IP Setup The following table describes the labels in this screen. Table 14 LAN IP Setup LABEL IP Address Subnet Mask DESCRIPTION Type the IP address of your P-330W in dotted decimal notation 192.168.10.1 (factory default). The subnet mask specifies the network number portion of an IP address. Your P330W will automatically calculate the subnet mask based on the IP address that you assign. Unless you are implementing subnetting, use the subnet mask computed by the P-330W 255.255.255.

0. P-330W User's Guide 53 Chapter 5 System Screens Table 14 LAN IP Setup LABEL DHCP DESCRIPTION DHCP (Dynamic Host Configuration Protocol, RFC 2131 and RFC 2132) allows individual clients (computers) to obtain TCP/IP configuration at startup from a server. Choose Server box selected unless your ISP instructs you to do otherwise. Choose Disabled the P-330W acting as a DHCP server. When configured as a server, the P-330W provides TCP/IP configuration for the clients.

If not, DHCP service is disabled and you must have another DHCP server on your LAN, or else the computers must be manually configured. When set as a server, fill in the following four fields. Push this button opens a new window which will show you a list of the clients that have received an IP address from the internal DHCP server. Type the MAC address of computer which you want to assign specific IP on you LAN. Type the IP address that you want to assign the computer on your LAN.

Click Apply to save your changes back to the P-330W. Click Reset to begin configuring this screen afresh. DHCP Client Range This field specifies the contiguous addresses in the IP address pool. Show DHCP Client MAC Address Lease IP Address Save Reset 5.4 Configuring Password To change your P-330W's password (recommended), click the Password tab. The screen appears as shown. This screen allows you to change the P-330W's password. Figure 21 Password The following table describes the labels in this screen. Table 15 Password LABEL New Password Confirmed Password Save Reset DESCRIPTION Type the new password in this field. The password is case sensitive and may be up to 36 characters long.

Type the new password again in this field. Click Save to save your changes back to the P-330W. Click Reset to begin configuring this screen afresh. 54 P-330W User's Guide Chapter 5 System Screens 5.5 Status Screen Click STATUS to open the Status screen, which you can use to monitor your P-330W. Note that these fields are READ-ONLY and only for diagnostic purposes. Figure 22 Status The following table describes the labels in this screen. Table 16 Status LABEL Connection Method DESCRIPTION This is the method you have selected for connection to the Internet. You can change it using the Setup Wizard. Internet IP Address This is the WAN port IP address.

Connection Details This button opens a new window that provides you with more detail on the WAN connection. LAN IP Address Network Mask DHCP Server System Firmware Version System Data Refresh Screen Displays the current version number of the firmware on the P-330W.



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Provides a greater level of detail on your current system configuration. Causes the P-330W to refresh the screen with the latest information. This is the LAN port IP address.

This is the LAN port subnet mask. This is the LAN port DHCP role - Server (ON) or Disabled. P-330W User's Guide 55 Chapter 5 System Screens 56 P-330W User's Guide CHAPTER This chapter discusses how to configure the Wireless screens on the P-330W. 6 Wireless 6.1 Wireless LAN Overview This section introduces the wireless LAN(WLAN) and some basic scenarios.

6.1.1 IBSS An Independent Basic Service Set (IBSS), also called an Ad-hoc network, is the simplest WLAN configuration. An IBSS is defined as two or more computers with wireless adapters within range of each other that form an independent (wireless) network without the need of an access point (AP). Figure 23 IBSS (Ad-hoc) Wireless LAN 6.1.2 BSS A Basic Service Set (BSS) exists when all communications between wireless stations or between a wireless station and a wired network client go through one access point (AP). Intra-BSS traffic is traffic between wireless stations in the BSS. When Intra-BSS is enabled, wireless station A and B can access the wired network and communicate with each other. When Intra-BSS is disabled, wireless station A and B can still access the wired network but cannot communicate with each other.

P-330W User's Guide 57 Chapter 6 Wireless Figure 24 Basic Service set AP 6.1.3 ESS An Extended Service Set (ESS) consists of a series of overlapping BSSs, each containing an access point, with each access point connected together by a wired network. This wired connection between APs is called a Distribution System (DS). An ESSID (ESS IDentification) uniquely identifies each ESS. All access points and their associated wireless stations within the same ESS must have the same ESSID in order to communicate. 58 P-330W User's Guide Chapter 6 Wireless Figure 25 Extended Service Set 6.1.4 RTS/CTS A hidden node occurs when two stations are within range of the same access point, but are not within range of each other. The following figure illustrates a hidden node.

Both stations (STA) are within range of the access point (AP) or wireless gateway, but out-of-range of each other, so they cannot "hear" each other, that is they do not know if the channel is currently being used. Therefore, they are considered hidden from each other. Figure 26 RTS/CTS When station A sends data to the P-330W, it might not know that station B is already using the channel. If these two stations send data at the same time, collisions may occur when both sets of data arrive at the AP at the same time, resulting in a loss of messages for both stations. P-330W User's Guide 59 Chapter 6 Wireless 6.

2 Configuring Wireless If you are configuring the P-330W from a computer connected to the wireless LAN and you change the P-330W's SSID or WEP settings, you will lose your wireless connection when you press Save. You must then change the wireless settings of your computer to match the P-330W's new settings Click the WIRELESS link to open the Wireless Options screen. Figure 27 The Wireless Options Screen 6.3 Basic Settings Click BASIC SETTINGS to configure the basic settings of your wireless LAN. Figure 28 Wireless: Basic Settings 60 P-330W User's Guide Chapter 6 Wireless The following table describes the basic wireless LAN labels in this screen.

Table 17 Wireless: Basic Settings LABEL Disable Access Point Band DESCRIPTION Select this check box to disable the wireless LAN capabilities of your P-330W. Choose the operating mode of your wireless access point. 2.4Ghz (B+G) offers the greatest compatibility. 2.4 GHz (B) will only allow 802.11b clients to connect to the wireless LAN. 2.4 GHz (G) will only allow 802.11g clients to connect to the wireless LAN.

Mode allows you to change the wireless behavior of the P-330W. This allows you to switch AP, WDS, AP+WDS, Client. Use this mode to connect to a WISP or metroarea wireless network. Used when operating in Client mode. This allows you to switch between Infrastructure and Ad Hoc networking modes. (Service Set IDentity) The SSID identifies the Service Set with which a wireless station is associated. Wireless stations associating to the access point (AP) must have the same SSID. Enter a descriptive name (up to 32 printable 7-bit ASCII characters) for the wireless LAN. Mode Network Type SSID Note: If you are configuring the P-330W from a computer connected to the wireless LAN and you change the P-330W's SSID or WEP settings, you will lose your wireless connection when you press Apply to confirm. You must then change the wireless settings of your computer to match the P-330W's new settings.

Channel Number Associated Clients Save Reset To manually set the P-330W to use a channel, select a channel from the drop-down list box. Click Show Active Clients to be shown a list of wireless clients currently connected to the Wireless LAN Click Save to save your changes back to the P-330W. Click Reset to reload the previous configuration for this screen. 6.4 Wireless Advanced Settings Click ADVANCED SETTINGS to configure the advanced settings of your wireless LAN.

6.4.1 Authentication Three different methods can be used to authenticate wireless stations to the network: Open System, Shared Key, and Auto. The following figure illustrates the steps involved. P-330W User's Guide 61 Chapter 6 Wireless Figure 29 WEP Authentication Steps Open system authentication involves an unencrypted two-message procedure.

A wireless station sends an open system authentication request to the AP, which will then automatically accept and connect the wireless station to the network. In effect, open system is not authentication at all as any station can gain access to the network. Shared key authentication involves a four-message procedure. A wireless station sends a shared key authentication request to the AP, which will then reply with a challenge text message. The wireless station must then use the AP's default WEP key to encrypt the challenge text and return it to the AP, which attempts to decrypt the message using the AP's default WEP key. If the decrypted message matches the challenge text, the wireless station is authenticated. When your P-330W's authentication method is set to open system, it will only accept open system authentication requests. The same is true for shared key authentication. However, when it is set to auto authentication, the P-330W will accept either type of authentication request and the P-330W will fall back to use open authentication if the shared key does not match. 6.

4.2 Preamble Type A preamble is used to synchronize the transmission timing in your wireless network. There are two preamble modes: Long and Short. Short preamble takes less time to process and minimizes overhead, so it should be used in a good wireless network environment when all wireless clients support it.



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62 P-330W User's Guide Chapter 6 Wireless Select Long if you have a 'noisy' network or are unsure of what preamble mode your wireless clients support as all IEEE 802.11b compliant wireless adapters must support long preamble. However, not all wireless adapters support short preamble. Use long preamble if you are unsure what preamble mode the wireless adapters support, to ensure interoperability between the P-330W and the wireless stations and to provide more reliable communication in 'noisy' networks. The P-330W and the wireless stations MUST use the same preamble mode in order to communicate. 6.4.3 Quality of Service (QoS) You can turn on Wi-Fi MultiMedia (WMM) QoS to improve the performance of voice and video applications in the wireless network. QoS gives high priority to voice and video, which makes them run more smoothly. Similarly, it gives low priority to many large file downloads so that they do not reduce the quality of other applications. Figure 30 Wireless: Advanced Settings The following table describes the advanced wireless LAN labels in this screen.

Table 18 Wireless: Advanced Settings LABEL Authentication Type Preamble Type Broadcast SSID IAPP WMM Save Reset DESCRIPTION Select Auto, Open System or Shared Key from the menu. Select a preamble type from the menu. Choices are Long or Short. The default setting is Long. Select this to hide the SSID in the outgoing beacon frame so a station cannot obtain the SSID through passive scanning using a site survey tool.

Used in a multiple AP environment where 802.1x is used for authentication. Use WMM (WiFi MultiMedia) to prioritize voice and video applications in a wireless network. Click Save to save your changes back to the P-330W. Click Reset to reload the previous configuration for this screen. P-330W User's Guide 63 Chapter 6 Wireless 6.5 Site Survey Click Site Survey to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it when P330's wireless mode is set to Client mode. Figure 31 Wireless: Site Survey 6.6 Wireless Security Overview Wireless security is vital to your network to protect wireless communication between wireless stations, access points and the wired network.

The figure below shows the possible wireless security levels. EAP (Extensible Authentication Protocol) is used for authentication and utilizes dynamic WEP key exchange. It requires interaction with a RADIUS (Remote Authentication Dial-In User Service) server either on the WAN or your LAN to provide authentication service for wireless stations. Figure 32 P-330W Wireless Security Levels If you do not enable any wireless security on your P-330W, your network is accessible to any wireless networking device that is within range. 64 P-330W User's Guide Chapter 6 Wireless Select NONE for Encryption to allow wireless stations to communicate with the access points without any data encryption. Figure 33 Wireless Security Setup: No Security The following table describes the labels in this screen. Table 19 Wireless Security Setup: No Security LABEL Encryption Use 802.1x Authentication DESCRIPTION Choose None from the drop-down list box. Mark this check box to enable 802.1x security using an external RADIUS server.

Data will not be encrypted, however wireless clients will be required to authenticate before they are allowed to pass traffic to the network. Both the client and the RADIUS server will need to support the same EAP protocols. Click Save to save your changes back to the P-330W. Click Reset to reload the previous configuration for this screen. Save Reset P-330W User's Guide 65 Chapter 6 Wireless 6.

7 Security Parameters Summary Refer to this table to see what other security parameters you should configure for each Authentication Method/ key management protocol type. You enter manual keys by first selecting 64-bit WEP or 128-bit WEP from the WEP Encryption field and then typing the keys (in ASCII or hexadecimal format) in the key text boxes. MAC address filters are not dependent on how you configure these security features. Table 20 Wireless Security Relational Matrix AUTHENTICATION METHOD/ KEY MANAGEMENT PROTOCOL Open Open Shared WPA WPA-PSK WPA2 WPA2-PSK WPA2-Mixed WPA2-Mixed PSK ENCRYPTION METHOD None WEP WEP TKIP TKIP AES AES AES & TKIP AES & TKIP ENTER MANUAL KEY No No Yes No Yes No Yes No Yes IEEE 802.1X Disabled Enable with 802.

1x Disabled Enable with 802.1x Disable Enable Disabled Enable Disabled Enable Disabled 6.7.1 WEP Overview WEP (Wired Equivalent Privacy) as specified in the IEEE 802.11 standard provides methods for both data encryption and wireless station authentication. 6.7.2 Data Encryption WEP provides a mechanism for encrypting data using encryption keys. Both the AP and the wireless stations must use the same WEP key to encrypt and decrypt data. Your P-330W allows you to configure up to four 64-bit or 128-bit WEP keys, but only one key can be enabled at any one time.

6.7.3 Configuring WEP Encryption In order to configure and enable WEP encryption; click the SECURITY link under WIRELESS to display the Wireless Security screen. Select Static WEP from the Encryption list. 66 P-330W User's Guide Chapter 6 Wireless WEP is extremely insecure. Its encryption can be broken by an attacker, using widely-available software. It is strongly recommended that you use a more effective security mechanism. Use the strongest security mechanism that all the wireless devices in your network support. For example, use WPA-PSK or WPA2-PSK if all your wireless devices support it, or use WPA or WPA2 if your wireless devices support it and you have a RADIUS server. If your wireless devices support nothing stronger than WEP, use the highest encryption level available.

Figure 34 Wireless Security Setup: WEP Encryption The following table describes the wireless LAN security labels in this screen Table 21 Wireless Security Setup: Static WEP Encryption LABEL Encryption Set WEP Key Use 802.1x Authentication WEP Encryption DESCRIPTION Choose WEP from the drop-down list box. Click this to configure WEP without 802.1x. Mark the check box here to use 802.

1x authentication. Select 64-bit WEP or 128-bit WEP. Used only when using 802.1x authentication. Authentication RADIUS Server P-330W User's Guide 67 Chapter 6 Wireless Table 21 Wireless Security Setup: Static WEP Encryption LABEL Port IP Address Password Save Reset DESCRIPTION The port number on the RADIUS server.

Enter the IP address of the RADIUS server. Enter the password (shared secret) for the RADIUS server. Click Save to save your changes back to the P-330W. Click Reset to reload the previous configuration for this screen. Click SET WEP KEY to configure WEP encryption. Figure 35 Wireless Security Setup: WEP Encryption The following table describes the wireless LAN security labels in this screen Table 22 Wireless Security Setup: WEP Encryption LABEL Key Length Key Format Default Tx Key Encryption Key 1 to 4 DESCRIPTION Select 64-bit WEP or 128-bit WEP.



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