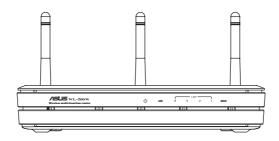


WL-500W SuperSpeed N Wireless Multi-Function Router



User Manual

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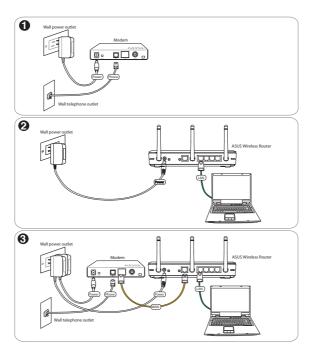


1. Package contents

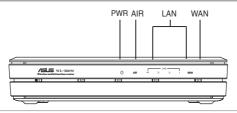
- WL-500W wireless router x 1
- · Power adapter x 1
- Utility CD x 1
- · RJ45 cable x 1
- · Quick Start Guide x 1

2. Connecting ADSL modem and wireless router

1) Cable connection



2) Status indicators



PWR (Power)

Off No power On System ready

Flashing-slow Firmware upgrade failed Flashing-quick EZsetup processing

AIR (Wireless Network)

Off No power

On Wireless system ready

Flashing Transmitting or receiving data (wireless)

WAN (Wide Area Network)

Off No power or no physical connection

On Has physical connection to an Ethernet network
Flashing Transmitting or receiving data (through Ethernet cable)

LAN 1-4 (Local Area Network)

Off No power or no physical connection

On Has physical connection to an Ethernet network
Flashing Transmitting or receiving data (through Ethernet cable)

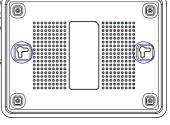
3) Wall mount option

The ASUS WL-500W Wireless Router is designed to sit on a raised flat surface like a file cabinet or book shelf. The unit may also be converted for mounting to a wall or ceiling.

Follow these steps to mount the ASUS Wireless Router to a wall:

- 1. Look on the underside for the two mounting hooks
- 2. Mark two upper holes in a flat surface.
- 3. Tighten two screws until only 1/4" is showing.
- 4. Latch the hooks of the ASUS Wireless Router onto the screws.

Note: Re-adjust the screws if you cannot latch the ASUS Wireless Router onto the screws or if it is too loose.







3. Getting started

The ASUS WL-500W Wireless Router can meet various working scenarios with proper configuration. The default settings of the wireless router may need change so as to meet your individual needs. Therefore, before using the ASUS Wireless Router, check the basic settings to make sure they all work in your environment.

ASUS provides a utility named EZSetup for fast wireless configuration. If you would like to use EZSetup for your wireless network configuration, refer to chapter 6 for details.



Note: Wired connection for initial configuration is recommended to avoid possible setup problems due to wireless uncertainty.

1) Wired connection

The WL-500W Wireless Router is supplied with an Ethernet cable in the package. The wireless router has an integrated auto-crossover function. Thus, you can either use straight-through or crossover cable for wired connection. Plug one end of the cable to the LAN port on the rear panel of the router and the other end to the Ethernet port on your PC.

2) Wireless Connection

For establishing wireless connection, you need an IEEE 802.11b/g compatible WLAN card. Refer to your wireless adapter user manual for wireless connection procedures. By default, the SSID of ASUS Wireless Router is "default" (in lower case), encryption is disabled and open system authentication is used.

3) Setting IP address for wired or wireless client

To access the WL-500W Wireless Router, you must have correct TCP/IP settings on your wired or wireless clients. Set the IP addresses of the clients within the same subnet of WL-500W.

Getting an IP address automatically

The WL-500W Wireless Router integrates DHCP server functions, thus, your PC gets an IP address automatically.



Note: Before rebooting your PC, switch ON the wireless router and make sure the router is in ready state.

Setting up the IP address manually

To manually set the IP address, you need to know the default settings of the wireless router:

- IP address 192.168.1.1
- Subnet Mask 255.255.255.0



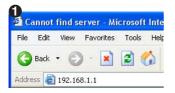
To set up the connection with a manually assigned IP address, the address of your PC and the wireless router must be within the same subnet:

- IP address: 192.168.1.xxx (xxx can be any number between 2 and 254. Make sure the IP address is not used by other device)
- Subnet Mask: 255.255.255.0 (same as WL-500GU/ GC)
- Gateway: 192.168.1.1 (IP address of WL-500GU/ GC)
- DNS: 192.168.1.1 (WL-500GU/GC), or assign a known DNS server in your network.

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4) Configuring the wireless router

Follow the steps below to enter the Web configuration interface of WL-500W.



Enter the following address in your web browser: http://192.168.1.1



Defaults

User name: admin Password: admin



After logging in, you can see the ASUS Wireless Router home page.

The homepage displays quick links to configure the main features of the wireless router.

5) Quick setup

To start quick setup, click **Next** to enter the "Quick Setup" page. Follow the instructions to setup the ASUS Wireless Router.



- Select your time zone and click Next.
- ASUS wireless router supports five types of ISP services: cable, PPPoE, PPTP, static WAN IP, and Telstra BigPond. Select your connection type and click Next to continue.





Cable or dynamic IP user

If you are using services provided by cable ISP, select Cable Modem or other connection that gets IP automatically. If your ISP provides you with the hostname, the MAC address, and the heartbeat server address, fill these information into the boxes on the setting page; if not, click Next to skip this step.





PPPoE user

If you use PPPoE service, select ADSL connection that requires username and password. It is known as PPPoE. You need to input the username and password provided by your ISP. Click Next to continue.

Set Your Account to ISP				
If you apply an account with dynamic IF. You want get also account and password from your IDP. Object 18 this strip into the following faith country, on, if you apply on ADS, account with IDP, and gover also make and password inferences.				
the Sunce	profitment and			
Paramet.				
	266 366			

PPTP user

If you are using PPTP services, select ADSL connection that requires username, password and IP address. Fill in the username, the password and the IP address provided by your ISP into the fields. Click Next to continue





Static IP user

If you are using ADSL or other connection type that uses static IP address, select ADSL or other connection type that uses static IP address. Input the IP address, the subnet mask, and the default gateway provided by your ISP. You can specify DNS servers, or get DNS information automatically.



 After the connection type setting is complete, you are to set up your wireless interface. Specify to your wireless router an SSID (Service Set Identifier), which is a unique identifier attached to packets sent over WLAN. This identifier emulates a password when a device attempts to communicate with your wireless router via WLAN.



If you want to protect transmitted data, select a Security Level to enable encryption methods.

Medium: Only users with the same WEP key settings can connect to your wireless router and transmit data using 64bits or 128bits WEP key encryption.

High: Only users with the same WPA pre-shared key settings can connect to your wireless router and transmit data using TKIP encryption.

4. Input four sets of WEP keys in the WEP Key fields (10 hexadecimal digits for WEP 64bits, 26 hexadecimal digits for WEP 128bits). You can also let the system generate the keys by inputting a Passphrase. Record the Passphrase and the WEP keys in your notebook, then click Finish.

For example, if we select WEP 64bits encryption mode and input 11111 as the Passphrase, the WEP Keys are generated automatically.

Click Save&Restart to restart the wireless router and activate the new settings.





Note: We recommend using WL-100W wireless adapters to connect WL-500W so as to achieve high speed data transmission.

6. To connect the wireless router from a wireless client, you can use Windows® Wireless Zero Configuration service to set up the connection. If you use ASUS Wireless Card on your computer, you can use the One Touch Wizard utility supplied in WLAN Card support CD for wireless connection.

Configuring ASUS WLAN Card with One Touch Wizard

If you have installed ASUS wireless card together with its utilities and drives on your PC, click Start -> All Programs -> ASUS Utility-> WLAN Card -> One Touch Wizard to launch the One Touch Wizard utility.



Select Connect to an existing wireless
 LAN (Station) radio button and click
 Next to continue.



 Set the authentication and encryption of your WLAN card the same with those at WL-500W. In the previous steps the Key Length is 64 bits, Passphrase is 11111 Click Next to continue.



 Setup the IP address of the WLAN Card according to your network condition. After the setup is complete, click Finish to exit the One Touch Wizard.



 One Touch Wizard searches and displays the available APs in the Available Networks list. Select WL-500W and press Next to continue.



 It takes several seconds for the wireless card to associate with WL-500W. Press Next to setup TCP/IP for your WLAN Card.





Configuring WLAN card with Windows® WZC service

If you use non-ASUS wireless card, you can set up the wireless connection with Windows® Wireless Zero Configuration (WZC) service.

 Double-click the wireless network icon on the task bar to view available networks. Select your wireless router and click Connect.



 Input the 10-digit keys you have set on the wireless router and click Connect. The connection is complete within several seconds.



7. Configuring advanced features

To view and adjust other settings of the wireless router, enter the Web configuration page of WL-500W. Click on items on the menu to open a submenu and follow the instructions to setup the router. Tips show up when you move your cursor over each item.



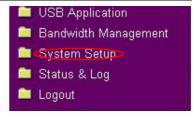
4. Wireless router features

This chapter provides setup examples of some frequently used router features. You can set up these features via your Web browser.

1) Choosing an appropriate operation mode

ASUS WL-500W Wireless Router supports three operation modes: home gateway, router, and access point. Click **System Setup -> Operation mode** to open the configuration page.

Home gateway mode is for home or SOHO users who want to connect to

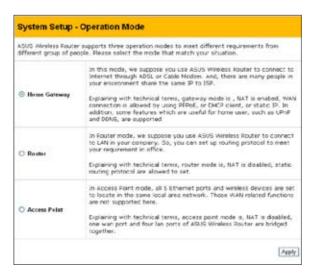


their ISPs for Internet services. In this operation mode, NAT, WAN connection, Internet firewall functions are supported.

Router mode is for office use where multiple routers and switches co-exist. You can set up routing policies in this mode; however, NAT function is disabled.

Access point mode works when you setup WL-500W as a wireless bridge. In this mode, all Ethernet ports on WL-500W (4 LAN ports and 1 WAN port) are recognized as LAN ports. WAN connection, NAT, and Internet firewall functions are disabled in access point mode.

Select a proper mode which complies to your network scenario and press Apply





2) Setting up wireless encryption

WL-500W provides a set of encryption and authentication methods to meet the different demands of home, SOHO, and enterprise users. Before setting up encryption and authentication for WL-500W, contact your network administrator for advice.



Click **Wireless** -> **Interface** to open the configuration page.





Note: For 802.11n performance, select 40MHz bandwidth. Channel option will depend on the bandwidth that you select.

Encryption

The encryption modes supported by WL-500W are: WEP (64bits), WEP (128bits), TKIP, AES, and TKIP+AES.

WEP stands for Wired Equivalent Privacy, it uses 64bits or 128bits static keys to encrypt the data for wireless transmission. To setup WEP keys, set **WEP Encryption** to **WEP-64bits** or **WEP-128bits**, then manually type in four sets **WEP Keys** (10 hexadecimal digits for 64-bit key or 26 hexadecimal digits for 128-bit key). You can also let the system generate the keys by entering a **Passphrase**.

TKIP stands for Temporal Key Integrity Protocol. TKIP dynamically generates unique keys to encrypt every data packet in a wireless session.

AES stands for Advanced Encryption Standard. This solution offers stronger protection and increases the complexity of wireless encryption.

TKIP+AES is used when both WPA and WPA2 clients co-exist in the wireless network

Authentication

The authentication methods supported by WL-500W include: Open, shared key, WPA-PSK, WPA, and Radius with 80.211x.

Open: This option disables authentication protection for wireless network. Under Open mode, any IEEE802.11b/g client can connect to your wireless network.

Shared: This mode uses the WEP keys currently in use for authentication.

WPA/WPA2 and WPA-PSK/WPA2-PSK: WPA stands for WiFi-Protected Access. WPA provides two security modes: WPA for enterprise network, and WPA-PSK for home and SOHO users. For enterprise network, WPA uses the already existing RADIUS server for authentication; for home and SOHO user, it provides Pre-Shared Key (PSK) for user identification. The Pre-Shared Key consists of 8 to 64 characters.

Radius with 802.1X: Similar with WPA, this solution also uses RADIUS server for authentication. The difference lays on the encryption methods: WPA adopts TKIP or AES encryption methods, while Radius with 802.1X does not provide encryption.

When authentication and encryption are set, click Finish to save the settings and restart the wireless router.

3) Setting up virtual server in your LAN

Virtual server is a Network Address Translation (NAT) function which turns a computer within a LAN into a server by allowing data packets of certain service, such as HTTP, from Internet.

- 1. Click Virtual Server in NAT Setting folder to open the NAT configuration page.
- 2. Select Yes to enable virtual server. For example, if host 192.168.1.100 is the FTP server that the user will access, it means all packets from Internet with destination port as 21 are to be directed to the host. Set Well-known Application to FTP. Port range to 21, Local IP to the host IP. Local Port to 21, Protocol to TCP.
- Click Finish.
- 4 Click Save & Restart to restart the wireless router and activate the settings.



NAT Setting

USE Application Bandwidth Management

Status & Log

4) Setting up virtual DMZ in your LAN

To expose an internal host to the Internet and make all services provided by this host available to outside users, enable Virtual DMZ function to open all ports of the host. This function is useful when the host plays multiple roles such as HTTP server and FTP server. However, in doing this, your network becomes less secure.

1. Click Virtual DMZ in the NAT Setting menu.



2. Enter the IP address of the host and click **Finish**.



Click Save & Restart to restart the wireless router and activate the settings.



5) Setting up DDNS

DNS enables host who uses static IP address to associate with a domain name; for dynamic IP users, they can also associate with a domain name via dynamic DNS (DDNS). DDNS requires registering and account-creating at DDNS service providers' website. The DDNS server updates your IP address information once you are assigned to a new IP address. Thus, the Internet user can always access your network.

1. Click Miscellaneous from IP Config folder.



Select Yes to enable the DDNS service. If you do not have a DDNS account, click Free Trial to register for a trial account.



 After clicking Free Trial, you are directed to the homepage of www.DynDNS. org, where you can register and apply for DDNS service.

Read the policy and select "I have read...".



 Enter your user name, e-mail address, password, then click Create Account



- A message prompts out informing that your account has been created.
 An E-mail is sent to your mailbox. Open your mailbox and read the mail.
- Account Created

 For socials, account has been created. Discrimin the activating your socials have been sect accountification on. To complete expensions, gives white the discrimes that you will necessary for social complete these single within 20 hours to exempte your expensions.

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- You can find the activation letter in your E-mail box. Click the hyperlink.

Tour DysDMS user account 'account' has been created. Tou must visit the confirmation address below within 48 hours of the time this a mail was sent to complete the account creation process.

Our basic service offerings are free, but they are supported by our premium services. See http://www.dysdms.com/services/ for a full listing of all of our available services.

To confirm your account, please go to the address below:

https://www.dysdms.com/account/confirm/hbWtbWIDMJaTM-awCrqh

7. The link directs you to a login page. Click **login**.



8. Enter the user name and password then click **Login**.





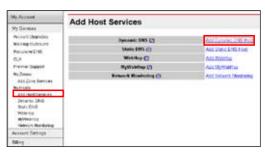
9. After logging in, you can see this welcome message.

Logged In
You are currently logged in as: account Gazago

10. Select Services tab.



11. Click Add Dynamic DNS
Host



12. Enter the host name then click **Add Host**.



 You can see this message when your hostname is successfully created.





14. Fill the account information into the DDNS setting fields of your wireless router.



15 Click Finish



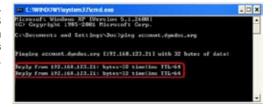
16. Click Save & Restart to restart the wireless router and activate the settings.



17. Verify whether DDNS is working. Click Start menu and select Run. Type cmd and click OK to open the CLI console.



18. Type ping account.
dyndns.org (your DDNS
domain name). If you can
see the reply like what is
shown in the right picture,
DDNS is working correctly.





6) Setting up Bandwidth Management

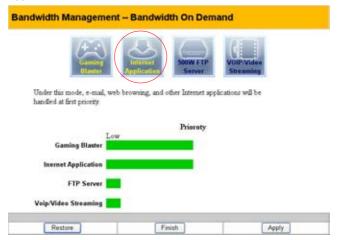
Bandwidth Management provides a mechanism that controls the traffic of you network. To set up bandwidth management:

1. Click Basic Config page in Bandwidth Management folder. In this page you can see four buttons including Gaming Blaster, Internet Application, 500W FTP Server, and VOIP/Video Streaming. In this page, you can click each item to set its priority higher. After you click each item, the letters on the button turns yellow (see figures below) and the green bar behind it automatically grows longer, indicating its bandwith status is the first priority. Click Finish and Apply to complete the configuration. The following figures shows different bandwith priority settings:

Gaming Blaster



Internet Application



500W FTP Server

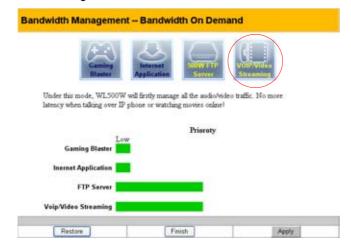


After you applying the **500W FTP Server** settings, a screen appears asking you to do further configuration:

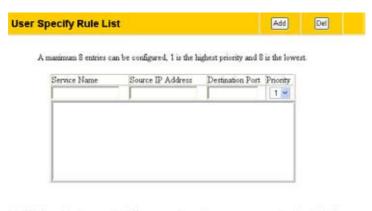




VOIP/Video Streaming



You can also configure the bandwith manually by clicking "User Specify Services". Input the IP adress, destination port and choose the priority status from the drop-down list.



The "FTP Server" mode was enabled! You can use the scroll bar to reserve more upload bandwidth for WL500W's FTP Server Service. If you set "0%", it means that FTP server has only high priority but no esserved bandwidth.



5. Application features

ASUS WL-500W Wireless Router provides two USB2.0 ports for connecting the USB storage, the USB camera, and the USB printer. Thus, you can monitor the working environment, share data and printer with both wired and wireless users in your network. Furthermore, WL-500W provides a download utility -- the Download Master -- to facilit ate and share the download files.



Warning: Before unplugging the USB storage disk from WL-500W, you must eject the disk in **Status & Log -> External USB Disk** page to prevent data corruption.



Note: Before applying change and rebooting WL-500W, make sure all USB applications are disabled, it would take more than 20 seconds for WL-500W to reboot.

1) Sharing USB storage

To use this feature, you need to plug a USB hard disk to the USB2.0 port on the rear panel of WL-500W. Make sure the hard disk is formatted and partitioned properly.



Note: FAT32 has a 2GB file size limitation and do not support files above that size. If you want to use files of above 2GB, you must format the disk to EXT2 file system.

Creating user account

To share the data in the USB storage, you need to create user accounts first

 Click USB Application -> User List in the left side menu to open the configuration page.



- Input User Name and Password for the accounts. Click Add to add the account to the list.
- To delete an account, select the account from the list and click **Del**.
- Click **Apply** to apply the changes and restart the wireless router.



Creating share folder and access right

You can create a new share folder or share an existing folder in your hard disk.

 Click USB Application -> Share Nodes in the left side menu to open the configuration page.





Click Add to add a share folder



 Select the folder you want to share from Folder Manager and click Ok.
 To create a share folder, input the folder name in Add Folder field and press Add.



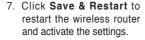
 Define the access right for the share folder by appoint User Name and Access Right. Click Add to add the access right rule. When finished, click Apply to save the configuration.



 Set Network Neighbourhood Mode to Apply rules in shared node list, Work Group to WORKGROUP to enable all computers within WORKGROUP to access WL-500W USB storage.



6. Click Finish.









2) Setting up FTP site

WL-500W can also serve as an FTP site. You can make your FTP site accessible to all users, or set up an access policy to restrict anonymous login. To use this feature, you need to plug a USB storage disk to the USB2.0 port on the rear panel of WL-500W. Make sure the hard disk is formatted and partitioned properly.

Notwork Heighburhund Made:

Davice Name:

Work Group:

FTF Bloke

Solid Solpe

Marinova Legia Usec Initial Script

Share Nodes List

USB Application - Share Nodes

ASSIS Werker Bouter apports the eneral folds "Shared Name" not exceeding to letters

 To allow anonymous login: Set Network Neighborhood Mode to Share all partitions in disk, FTP Mode to Login to first partition. The anonymous login directory is the root directory of first partition.

To allow account login only: Set Network Neighborhood Mode to Apply rules in shared node list, FTP Mode to Login to first matched shared node. Click Add in the Share Node List to specify the access directory and access right of FTP account.

 The Maximum Login User field specifies the maximum number of concurrent users. The default value is 6.



Share all partitions in disk

WI SOOW

WORKSROUP

Chernel House

Lager to first partition

Esk

- Click Finish to activate the settings and reboot. This process may take several minutes.
- Type ftp://192.168.1.1 into the address box of your Web browser and press Enter to login the FTP site.







3) Download Master

The Download Master helps to manage the download tasks without turning your computer on. To use this function, you need to: 1) mount a USB storage to WL-500W Wireless Router; and 2) install ASUS Utilities from the support CD. Refer to chapter 6 for utility installation procedures.

1. Click Basic Config page in USB Application folder.



 Set Enable Download Master to Yes. If you want to share the downloaded file with your LAN users, set Enable Download Share to Yes. Click Finish and save and restart the wireless router.

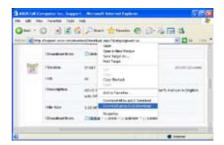


Open Download Master from Start
 -> AII Programs -> ASUS Utility
 ->WL-500W Wireless Router ->
 Download Master. Click File ->
 Connect to associate with WL-500W



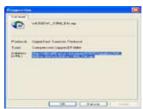
4. HTTP download (1)

Right click the download link on the Web page and click **Download using ASUS Download**. A window in step 5 appears to indicate download progress.



HTTP download (2)

Right click the download link on the Web page and click **Properties**. Copy the download **Address (URL)**.



If you select **Download using ASUS Download**, you can see the download task is added to the **Transfer** list. The blue bars indicate the progress of download tasks

If you copy the download address, click **Assign** button in the utility. Paste the address into **Getting File From** box, select **HTTP** from **Options**, and click **Download** button to start.

5. FTP download

Click **Transfer** button of the Download Master and select **FTP** in the **Options** field. Input the FTP site address, Port number, User Name, Password. Click Download to start

6. BT download

Save the BT seed on your computer. Click **Transfer** button of the Download Master and select **BT** in the Options field. Click **Browse** to locate the seed file. Click **Download** to start.

 Click Folder button to view the download file. Open the Complete folder to view or copy the finished files to your local hard disk. The unfinished tasks are kept in InComplete folder.











4) Web camera

The ASUS Wireless Router implements several applications for a USB Web camera, enabling you to capture images and send them over the Internet. For this function, you need to plug a USB camera onto WL-500W and enable ActiveX for your Web browser.

■ NAT Satting Internal Firewall USB Application In Bandwidth Management System Setup Status & Log Legant

Web camera

- 1. Click Web Camera page in USB Application folder.
- Enable Web Camera Selecting LAN Only enables Web Camera for LAN users.
 Selecting LAN and WAN enableds Web Camera for both LAN users and WAN users through firewall.



Web Camera Mode - Select the appropriate camera mode from the drop down list. ActiveX Only enables user to execute ActiveX clients on an Windows® IE platform and get the best image quality. ActiveX and Refresh enables user to get a basic image on both IE and other browsers. Refresh Only provides to all users still images which are refreshed in a specified interval.



Web Camera Driver - When you plug a supported Web Camera into the USB2.0 port in the wireless router, the appropriate driver is selected automatically. Refer to the USB Web Camera support list on ASUS Website (www.asus.com) for supported Web Camera models.

Image Size - Select the image size from the drop down list. 320 x 240 provides a larger image while 160 x 120 provides faster transmission. Click Preview to see the effect.

Sense Level - This field indicates the sensitivity at which image movement is detected.

Refresh Time in Seconds - This field indicates the time interval in seconds in which the system reloads images. The range of values is 1~65535.

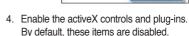
HTTP Port - This field indicates the port that HTTP server listens on to communicate. For example, by default, you can connect to your web camera by using http://192.168.1.1:7776 without password checking. (The password checking field is unchecked.)

ActiveX Port - This field indicates the port that server listens on to communicate with ActiveX clients.

Enabling ActiveX for your IE

If you use Internet Explorer®, you need to enable ActiveX or the Web Camera cannot function properly. For clients using Netscape or other browsers, ignore this part.





(30a) - () N

Select Security tab and click Custom Level button.





5. By default, these three items are enabled. Enable them if changed.



6. Click Yes to change the security settings.



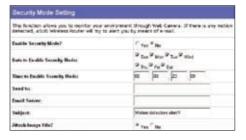
Enable Web Camera to WAN users

With proper setting to DDNS, you can monitor your working environment from anywhere on Internet, even if dynamic WAN IP address is used. If any motion is detected by the camera, WL-500W captures the images and send them to your appointed E-mail box. Refer to page 15-17 for DDNS setup procedures.

 Enable Security Mode? -Select Yes to enable security function on the data and time you set below.

Date to Enable Security Mode -This field defines the date that Security Mode is enabled.

Time to Enable Security Mode -This field defines the time interval that Security Mode is enabled.



Send to - Input the E-mail address you wish WL-500W send the image to.

Email Server - This field indicates the E-mail server you use for exchanging E-mail. If you leave this field blank, WL-500W uses the mail server of your E-mail address in **Send to** field.

Subject - This field is for the subject of E-mail.

Attach Image File? - This field allows you to attach the captured image in the E-mail.

Remote monitors

This function allows you to monitor up to 6 Web Cameras in your LAN. You can enter the IP addresses of other ASUS Wireless Routers which have Web Camera attached.



Note: When enabling "LAN and WAN" remote control in the Wireless Router, packets from Internet with destination ports 8081 to 8086 will be forwarded to WL-500W in Remote Control fields. To make sure packets from WL-500W are routed back to Internet, you need to set a static route entry for WL-500W. The IP address and gateway address are same as the address of WL-500W.



Remote Site 1-6 - This field stands for the IP address and port number of Remote Site. The value of this field is [IP Address]:[Connection Port].

Preview - Click Preview to see the view of all the Web Camera sites you set in Remote Site.



5) Sharing USB printer

You can connect a compatible USB printer to the USB2.0 port of WL-500W to share the printer with your LAN users. Follow the procedures below to setup your computers to utilize the printer server function of WL-500W.

Installing USB printer

Plug your USB printer to the USB2.0 port on WL-500W rear panel. To verify whether your printer is properly installed and to WL-500W Wireless router, click **Status & Log -> Status**. If **Printer Model** is correct and **Printer Status** is **On-Line**, you can share this printer within your LAN.





Note: Visit ASUS Website for compatible printer vendor and models.



Setting up printer client under Windows XP

Follow the steps below to install network printer on your clients.

 Run Add Printer Wizard from Start -> Printers and Faxes -> Add a printer.



Select Local printer attached to this computer and click Next.



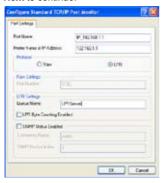
 Select Create a new port and set Type of port to Standard TCP/IP Port, then click Next.



Input the IP address of WL-500W in the Printer Name of IP Address field and click Next.



 Set Protocol to LPR and type LPRServer in Queue Name field. Click Next to continue.



4. Click **Next** to setup TCP/IP port for accessing the network printer.



6. Select Custom and click Settings.



8. Press **Next** to finish standard TCP/IP port setting.





Press Finish to complete the settings and return to Add Printer Wizard.



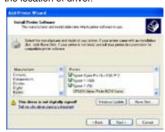
11. Click **Next** to accept the default name for the printer.



13. The installation is complete. Click **Finish** to quit the Add Printer Wizard.



10. Install printer driver from the vendormodel list. If your printer is not in the list, click Have Disk to manually assign the location of driver.



12. Select **Yes** to print a test page. Click **Next** to print.





Note: If you have already installed the printer locally on your computer, right click the printer icon and select Property -> Port tab to add a standard TCP/IP port. Click Add Port then select Standard TCP/IP Port and click New Port button. Refer to step 5-8 for setting procedures.



Note: If you use Windows® 98 or ME which does not support Standard TCP/IP port, you need to use Remote Port which is supported by WL-500W.

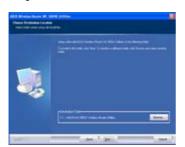
6. Setting up using ASUS utility

1) Utility Installation for WL-500W

Click Install ASUS Wireless Router
 Utilities to run the setup installation
 program.



3. Click **Next** to install the utility in the designated location.



5. Press Finish to quit the installation program.



2. Click Next to continue.



4. Select a program folder and click Next.



6. Open the EZSetup Wizard.





2) EZSetup

Wireless LAN setup will complete in two easy steps. First open the EZSetup utility form Start menu, then push the EZSetup button on the rear panel for 3 seconds.





- 1) If the setup button is pushed without running the EZsetup wizard utility, the PWR indicator will flash and Internet connections will pause for a short period but will then return to normal operation without change.
- To use EZSetup, we recommend using an ASUS wireless adapter such as WL-100W, WL-100gE, and WL-169gE.



Click the **EZSetup** button in the utility.

Note: Use EZSetup Wizard with one wireless client at a time. If the wireless client computer cannot discover the wireless router while in EZSetup mode, please shorten the distance between the client and the router.





Wireless settings, including network name and network keys, are generated automatically. You can modify these settings manually. Note if your wireless router is configured before, select **Preserve original wireless router settings** to use the current value. Click **Next** to continue.



If you need to configure the ISP settings for your wireless router, select **Configure ISP settings**, click **Next** and follow the instructions to complete the settings.



Setup is complete, press **Print/Save Wireless LAN Settings** button for future reference. Click Finish to exit the EZSetup utility.



7. Configure WL-500W under Vista OS

The Windows Simple Config function, which is preinstalled in the ASUS WL-500W, enables the device to be configured via WCN Net process of Windows Vista.

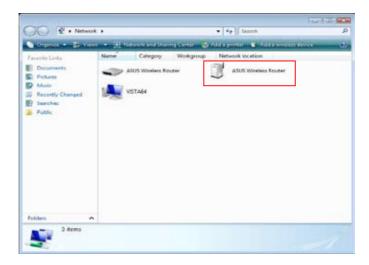


Note: The WCN Net process of Windows Vista can only discover the device when it is not configured and is in the default settings state. If the device is configured, you have to set up the device by WEB or EZsetup. You can also push the Reset button and then begin WCN-NET setup.

1) Configuring the device

Follow the steps below to configure the device using WCN-Net process of Windows Vista:

- 1. Connect the device to your PC and power on it.
- 2. Click Start > Network from the Vista desktop. The Network screen appears.
- 3. Double-click ASUS Wireless Router.

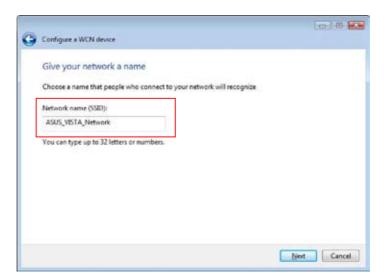




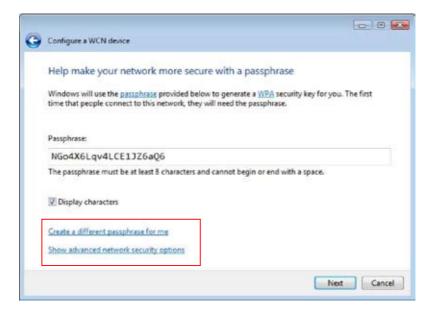
A screen prompts you to enter the PIN, which is located on the sticker posted on the device. Enter the PIN in the PIN box, then click Next.



5. Give the network a name and type it in the **Network name** box, then click **Next**.



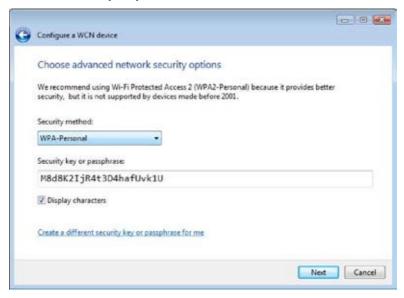
6. A Passphrase is generated for WPA security for the network. Click **Next** from this screen.



If you want to create a different passphrase, click **create a different passphrase for me**. If you want to use security method other than WPA-Personal, click **Show advanced network security options**.

The screens for **Create a different passphrase** and **Security methods** are shown in the next page.

Create a different passphrase



Four security methods



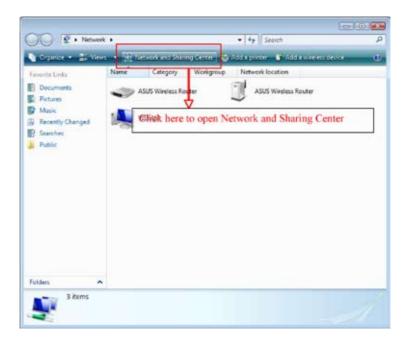
Click Next from the above screens after the configuration is completed. The complete configuration screen appears as shown below. Click Close to finish the process and exit.



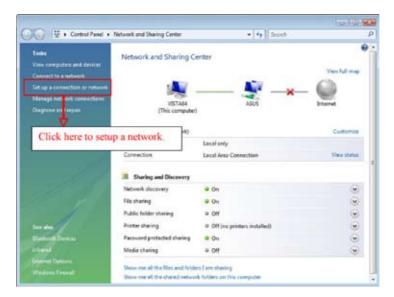
2) Setting up the network sharing center

Follow the steps below to set up a sharing center to allow the network users to share printer, file and media.

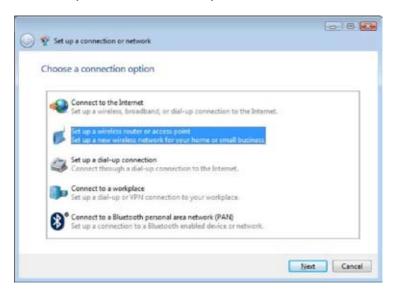
- 1. Connect the device to your PC and power it on.
- Click Network and Sharing Center in the navigation bar. The Network and Sharing Center screen appears.



3. Click Set up a wireless router or network.

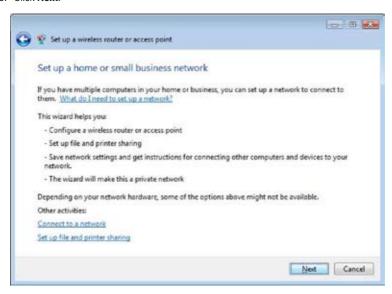


4. Choose Set up a wireless router or access point, then click Next.





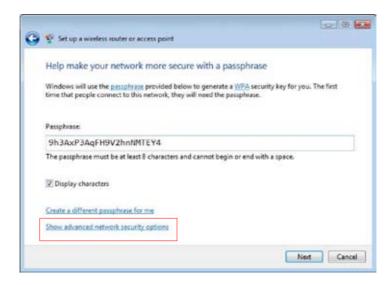
5. Click Next.



In the screen that appears, type a network name in the Network name box, then click Next. A passphrase is generated for the WPA security.



Click Next. If you want to use security methods other than WPA-Personal, click Show advanced network security options.



8. Choose a security method and click Next.



A screen prompts you to enter the PIN for the device. Enter the PIN, which is located on the sticker posted on the device, then click Next.

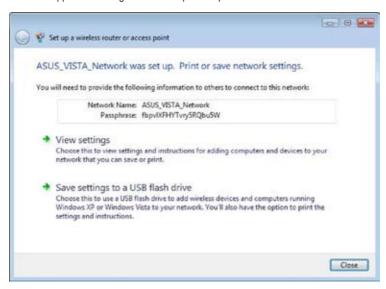


10. Choose a file and printer sharing option and click Next.



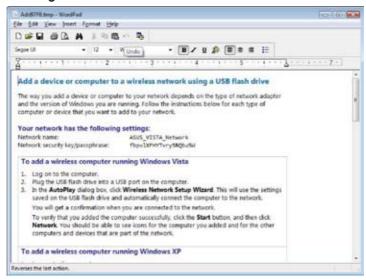


A screen appears showing that the set up is complete as shown below.

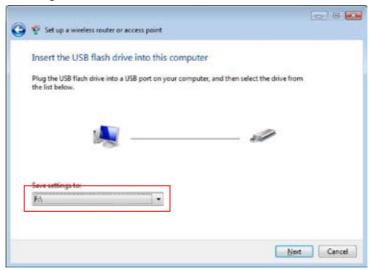


11. From the above screen you can choose to View settings or, Save settings to a USB flash drive. The respective screens are shown below.

View settings screen

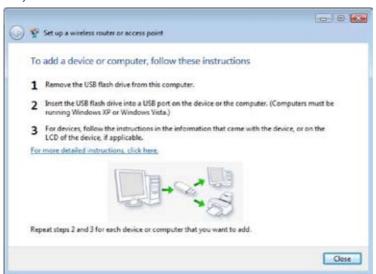


Save settings to a USB flash drive screen



12. When Save settings to a USB flash drive screen appears, plug a USB flash drive into your computer, then select the drive from the Save settings to box and click Next. The settings starts to be saved into the USB drive.

After the saving process is completed, a screen appears to instruct you to add computer or other devices into the network. Follow the instructions to add computers and devices into your network.





8. Troubleshooting

Cannot access to web browser for router configuration





1. Open a web browser and open "Internet Options" dialog box.

2. Click on "Delete Cookies" and "Delete Files".

Cannot Establish Connection via Wireless

Out of Range:

- · Put the router closer to the wireless client
- · Try to change the channel setting.

Authentication:

- · Use wired connection to connect to router.
- Check the wireless security setting.
- Do the hard reset on the wireless router by pressing the Reset button on the rear panel for more than 5 seconds.

Couldn't find the router:

- Do the hard reset on the wireless router by pressing the Reset button on the rear panel for more than 5 seconds.
- · Check the setting in the wireless adapter such as SSID and encryption setting.

Cannot get access to the Internet via wireless LAN adapter

- · Move the router closer to the wireless client.
- · Check whether the wireless adapter is connected to the correct AP.
- Check whether the wireless channel in use conforms to the channels available in your country/ area.
- Check encryption setting.
- · Check whether the ADSL or Cable connection is correct.
- · Retry using another Ethernet cable.

Internet is not accessible

- · Check the lights on ADSL modem and the Wireless Router.
- Check whether the "WAN" LED on the Wireless Router is ON. If the LED is not ON, change the cable and try again.

When ADSL Modem "Link" light is ON (not blinking), this means Internet Access is Possible.

- · Restart your computer.
- Refer to the Quick Setup Guide of the wireless router and reconfigure the settings.
- · Check whether the WAN LED on the router is ON or not.
- · Check wireless encryption settings.
- Check whether the computer can get the IP address or not (via both wired network and wireless network).
- Make sure your Web browser is configured to use the local LAN, and is not configured to use a proxy server.

If the ADSL "LINK" light blinks continuously or stays off, Internet access is not possible - the Router is unable to establish a connection with the ADSL network.

- · Make sure your cables are all correctly connected .
- Disconnect the power cord from the ADSL or Cable modem, wait a few minutes, then reconnect the cord.
- If the ADSL light continues to blink or stays OFF, contact your ADSL service provider.

Network name or encryption keys are forgotten

- Try to setup the wired connection for setup the wireless encryption again.
- Do the hard reset on the wireless router by pressing the Reset button on the rear panel for more than 5 seconds.

How to reset to defaults

The following are factory default values. If you push the Restore button on the back of the ASUS Wireless Router for over 5 seconds, or click the "Restore" button on the "Factory Default" page under "Advanced Setup", the following default settings overwrite the old settings on your wireless router

User Name: admin Subnet Mask: 255.255.255.0 Password: admin DNS Server 1: 192.168.1.1 Enable DHCP: Yes (if plug in Wan cable) DNS Server 2: (Blank) IP address: 192 168 1 1 SSID: default

Domain Name: (Blank)

9. Appendix



FC FCC Warning Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no quarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Prohibition of Co-location

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Safety Information

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use on the supplied antenna.

Declaration of Conformity for R&TTE directive 1999/5/EC

Essential requirements - Article 3

Protection requirements for health and safety – Article 3.1a

Testing for electric safety according to EN 60950-1 has been conducted. These are considered relevant and sufficient.

Protection requirements for electromagnetic compatibility - Article 3.1b

Testing for electromagnetic compatibility according to EN 301 489-1 and EN 301 489-17 has been conducted. These are considered relevant and sufficient.

Effective use of the radio spectrum - Article 3.2

Testing for radio test suites according to EN 300 328- 2 has been conducted. These are considered relevant and sufficient.

CE Mark Warning



This is a Class B product, in a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

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DGT warning

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