



User Manual for User-friendly Firmware Nfiniti High Power Wireless N Router & Access Point WZR-HP-G300NH



www.buffalotech.com

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Chapter 1 Product Overview

Installing Your AirStation

To install your AirStation, insert the software CD from your package into your computer and follow the directions on the screen. For more infomation about installation, turn to chapter 3 of this manual.

Professional or User-friendly?

This AirStation wireless router comes with two different firmware packages. You may use either the dd-wrt-based Professional firmware or the simple User-friendly firmware. By default, the Professional firmware is installed. Turn to page 26 for instructions on switching between the two firmware packages.

Note: Most of this manual documents the User-friendly firmware. For more information on the dd-wrt-based Professional firmware, consult the help files in its web-based configuration interface or go to **www.dd-wrt.com/wiki**.

Features

Supports IEEE802.11n and IEEE802.11b/g

With support for current Wireless-N, Wireless-G, and Wireless-B standards, the AirStation can transfer data to and from all standard 2.4 GHz wireless clients.

Dual speed mode

Dual speed mode makes wireless transmission faster by using 2 channels, allowing 300 Mbps data transmission.

Support AOSS and WPS

Both AOSS (AirStation One-touch Secure System) and WPS (Wi-Fi Protected Setup) are supported. These automatic connection standards make connection with compatible wireless devices easier.

Security Features

The AirStation is equipped with following security features:

- AOSS
- WPS
- WPA-PSK (TKIP/AES)
- WPA2-PSK(TKIP/AES)
- WPA/WPA2 mixed PSK

- WEP (128/64 bit)
- Privacy Separator
- MAC address access restriction
- Deny Any Connection/Stealth SSID
- Password protection for settings
- · Firewall with easy rules

Automatic Channel Selection

Monitors wireless interference and automatically assigns the clearest, best channel.

Roaming

You can use multiple AirStations to cover a large area. Wireless clients can automatically switch AirStations for the best signal.

Initialization

To restore settings back to the factory defaults, hold down the reset button on the bottom of the unit.

Browser Based Administration

This unit can be easily configured from a web browser on your computer.

Auto Mode (Router/Bridge Automatic Recognition)

In Auto mode, the AirStation will detect whether or not your network has a router and automatically switch to the appropriate router or bridge mode. You can also manually switch between modes. (See page 10.)

MovieEngine

MovieEngine uses QoS to optimise your network for mutimedia streaming. This can reduce jumps, distorted audio, and dropped frames while watching streamed video.

NAS (Network Attached Storage)

Attach a USB hard drive to the AirStation and share it on the network as a NAS. All connected clients can access it.

Gigabit Ethernet

This unit supports gigabit Ethernet, allowing transmission rates of up to a billion bits per second.

Air Navigator CD Requirements

The AirStation wireless router and access point works with most wired and wireless devices. However, the automatic installation program on the CD requires a connected Windows 7, Vista or XP computer to run. If you use the AirStation with a different operating system, you will have to configure your network settings manually from a browser window.

300 Mbps High Speed Mode

300 Mbps is the link speed when using Wireless-N mode. It represents actual wireless data speeds, including overhead. Because the overhead is not available for user data transfer, usable wireless throughput will be substantially slower.

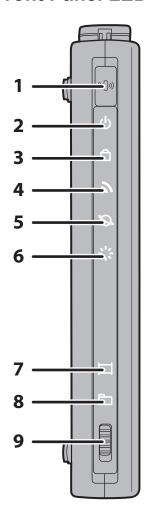
Package Contents

The following items are included in your AirStation package. If any of the items are missing, please contact your vender.

• WZR-HP-G300NH	1
AC adapter	1
Stand for vertical/wall-mounting	1
Screws for wall-mounting	
• LAN cable	
Air Navigator CD	1
Quick Setup Guide	

Hardware Overview

Front Panel LEDs



1 AOSS Button

To initiate AOSS, hold down this button until the Security LED flashes (about 1 second). Then, push or click the AOSS button on your wireless client device to complete the connection. Both devices must be powered on for this to work.

2 Power LED (Green)

On: The AC adapter is connected.
Off: The AC adapter is not connected.

3 Security LED (Amber)

Indicates security status.

Off: AOSS or Encryption is not set.

On: AOSS/WPS activated; accessed to exchange

security keys.

Encryption has been set.

2 blinks: The unit is waiting for an AOSS or WPS security

kev.

Blinking: AOSS/WPS error; failed to exchange security

keys.

Note: The Security LED is lit if an encryption key has been

set

4 Wireless LED (Green)

Indicates wireless LAN status.

On: Wireless LAN is transmitting.

Off: Wireless LAN is connected but not active.

5 Router LED (Green)

On: Router functionality is enabled.
Off: Router functionality is disabled.

6 Diag LED (Red)

This indicates the status of this unit depending on the number of blinks per cycle.

Note: When the unit is first turned on or restarted, the Diag LED will blink for almost a minute during boot. This is normal.

Diag LED status	Meaning	Status
2 blinks *1	Flash ROM error	Cannot read or write to the flash memory.
3 blinks *1	Ethernet (wired) LAN error	Ethernet LAN controller is malfunctioning.
4 blinks *1	Wireless LAN error	Wireless LAN controller is malfunctioning.
5 blinks	IP address setting error	Because the network addresses of both the Internet port (WAN port) and the LAN port are the same, it is not possible to establish communication. Change the LAN side IP address of this unit.
Continuously blinking *2	Updating the firmware Saving settings Initializing settings	Updating the firmware. Saving the settings. Initializing the settings.

^{*1} Unplug the AC adapter from the wall socket, wait for a few seconds, and then plug it again. If the light still flashes, please contact technical support.

7 Movie Engine On LED (Blue)

On: Movie Engine functionality is enabled.
Off: Movie Engine functionality is disabled.

8 Movie Engine Off LED (Blue)

On: Movie Engine functionality is disabled.
Off: Movie Engine functionality is enabled.

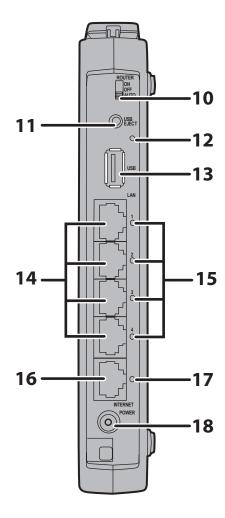
9 Movie Engine Switch

Switches the movie engine function between enabled and disabled.

On: Movie Engine functionality is enabled.
Off: Movie Engine functionality is disabled.

^{*2} Never unplug the AC adapter while the Diag LED is blinking.

Back Panel



10 Router Switch

Switches router mode between enabled, disabled, and auto.

On: Router functionality is enabled (router mode).
Off: Router functionality is disabled (bridge/AP

Router functionality is disabled (bridge/A

mode).

Auto: This switches between modes automatically

based on whether or not another router is

detected on the Internet port. The default setting

for this switch is Auto.

11 USB Eject Button

To dismount a USB hard drive, hold down this button until the USB LED flashes (about 3 seconds). The USB drive can then be unplugged safely.

12 USB LED (Blue)

On: The USB disk is connected.

Flashing: The USB disk can be removed.
Off: The USB disk is not connected.

Note: Never disconnect the USB disk or turn off the unit,

while the USB LED lights up.

13 USB Port

Connect the USB drive.

Note: Refer to the technical restriction on page 122.

14 LAN Port

Connect your computer, hub, or other Ethernet devices to these ports. This switching hub supports 10Mbps, 100Mbps, and 1000Mbps connections.

15 LAN LED (Green)

On: An Ethernet device is connected.

Flashing: An Ethernet device is communicating.

16 Internet Port 10Mbps, 100Mbps, and 1000Mbps connections are supported.

Note: In bridge/AP mode (router switch off), the Internet port becomes a

regular LAN port, for a total of 5 usable LAN ports.

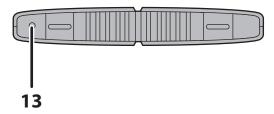
17 Internet LED (Green)

On: The Internet port is connected.

Flashing: The Internet port is transmitting data.

18 DC Connector Connect the included AC adapter here.

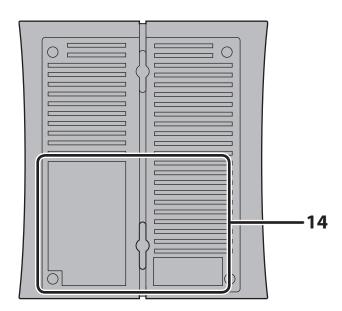
Bottom



13 Reset Button

To reset all settings, hold down this button until the Diag LED comes on (about 3 seconds). Power must be on.

Right Side



Note: The right side of the unit may become hot. Please be careful not to place anything next to it that could be damaged by heat.

14 Factory Default Settings

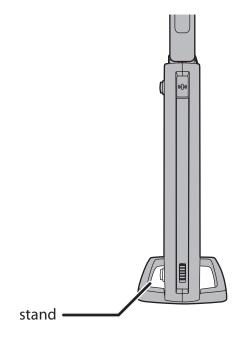
This sticker shows the AirStation's SSID, default encryption key, and WPS PIN code. Encryption key is blank if encryption is disabled in default settings.

Chapter 2 Placing Your AirStation

Vertical Placement

If the AirStation is to be placed vertically, attach the stand as shown.



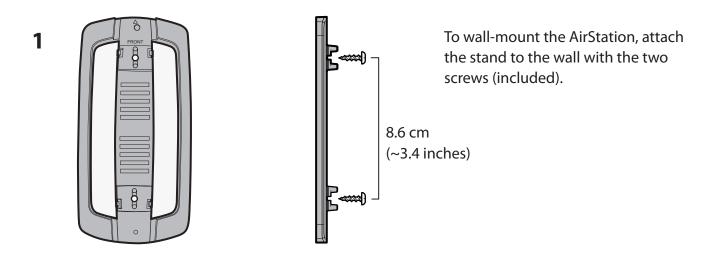


Horizontal Placement

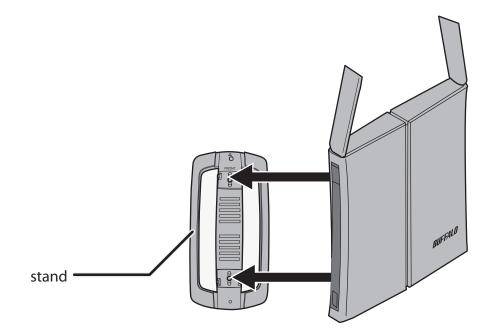
The stand is not used if the AirStation is placed horizontally.



Wall-Mounting



2 Snap the center of the AirStation to the stand as shown.



Chapter 3 Installation

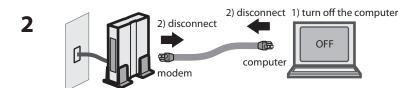
CD Setup

The AirNavigator CD can step you through installing your AirStation. To step through the setup program, insert the CD into your Windows 7/Vista/XP PC and follow the instructions on the screen. If your computer uses a different operating system, use manual setup instead.

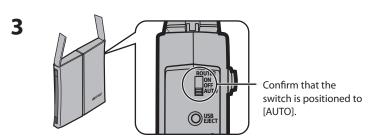
Manual Setup

To configure your AirStation manually, follow the procedure below.

1 Turn off your computer and modem.

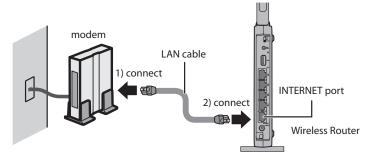


Unplug the LAN cable which connects your computer and modem.

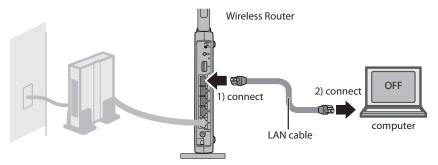


Make sure the mode switch on the back of the AirStation is in the [AUTO] position.

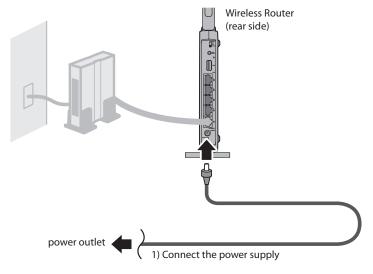
4 Plug one end of the LAN cable into your modem and the other side to the Internet port of the AirStation. Turn on your modem.



5 Connect your computer to one of the AirStation's LAN ports with the LAN cable.



Turn on the AirStation, wait one minute, and then turn on your computer.



7 Once your computer has booted, the AirStation's LEDs should be lit as described below:

POWER Green light on.

WIRELESS Green light on or blinking.

ROUTER Green light on or off depending on your network.

DIAG Off

LAN Green light on or blinking.

INTERNET Green light on or blinking.

For LED locations, refer to chapter 1.

Launch a web browser. If the [home] setup screen is displayed, setup is complete.

If a user name and password screen is displayed, enter [root] (in lower case) for the user name, leave the password blank, and click [OK]. Step through the wizard to complete setup.

You've completed initial setup of your AirStation. Refer to Chapter 4 for advanced settings.

Firmware Differences

You can choose between two different firmwares for your AirStation. By default, the Professional firmware (DD-WRT) is installed. If you prefer, you may install the User-friendly firmware instead. the two firmwares have slightly different features, as shown in the chart below.

Function	Professional firmware (DD-WRT)	User-friendly firmware
Router switch function	_	>
Default administrator name	root	root (fixed)
Default administrator password	admin	none
AOSS	✓	>
WPS	_	~
WDS	✓	~

Changing Firmware

To change between the Professional firmware (DD-WRT) and the User-friendly firmware, follow the steps below.

1 Insert the AirNavigator CD into your computer. The setup wizard will automatically launch.

Note: If the Setup Wizard does not launch, open the CD and double-click [ASSetWiz.exe] to launch manually.





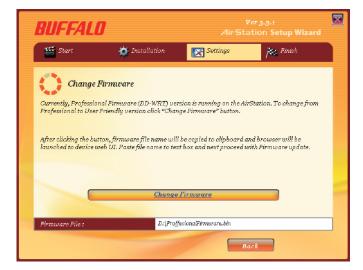
Click [Change Firmware].

3



The procedure for wiring will be displayed. Step through the wizard to connect your AirStation.

4



When this screen is displayed, click [Change Firmware].

5



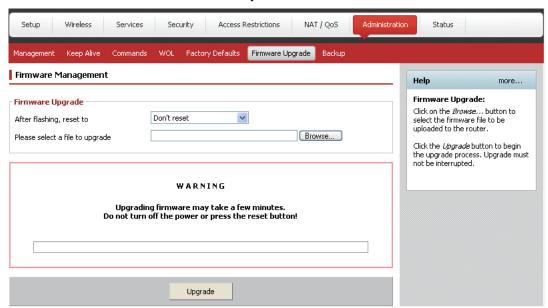
If requested, enter the AirStation's username and password.

Note: By default, the Professional firmware doesn't have a username and a password configured. Set them before you go to the next step.

When the following screen is displayed, make sure that the firmware file name is displayed, click [Update] or [Update Firmware], and follow the instructions on the screen.

Note: If the firmware name is not displayed on the screen, click [Browse...] and select the desired firmware. Firmware files are in the root directory on the AirNavigator CD.

Professional firmware (DD-WRT) update screen:



User-friendly firmware update screen:



About this User Manual

This user manual is primarily for AirStations with the User-friendly firmware. For more information on the Professional firmware (DD-WRT), refer to the WZR-HP-G300NH Professional Firmware user manual or to **www.dd-wrt.com/wiki**.

Chapter 4 Configuration

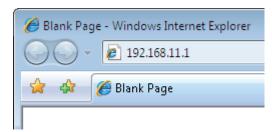
The web-based configuration tool lets you change advanced settings for the AirStation. Don't change these settings unless you know what you're doing.

How to Access the Web-Based Configuration Utility

To configure the AirStation's advanced settings manually, log in to the web-based configuration utility as shown below.

1 Launch a web browser.

2



Enter the AirStation's LAN-side IP address in the address field, and press the [Enter] key.

Note: • The AirStation's default LAN-side IP address depends on the position of the mode switch.

In router mode: 192.168.11.1 In bridge mode: 192.168.11.100

Note: If the router switch is set to [AUTO] and the unit is in bridge mode, then the AirStation's IP

address was assigned by an external DHCP server.

· If you changed the IP address of the AirStation, then use the new IP address.

3

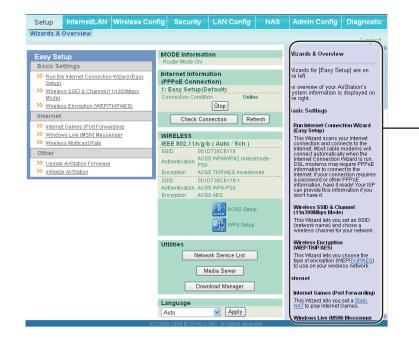


When this screen appears, enter [root] (in lower case) for the user name and the password that you set during initial setup. Click [OK].

Note: · By default, the password is blank (not set).

 If you forget your password, hold down the Reset button (page 12) to initialize all settings. The password will then be blank.
 Note that all other settings will also revert to their default values.





This is the configuration utility, where most AirStation settings can be configured.

Help is always displayed on the right side of each screen. Refer to the Help screens for more information on using the configuration utility.

Note: This example, like others in this manual, shows the User-friendly firmware. The dd-wrt based Professional firmware is somewhat different. For more information on the Professional firmware, visit dd-wrt's website at **www.dd-wrt.com**.

Configuration Utility Menus in Router Mode

The menu structure for the AirStation in router mode is as follows. Please refer to the pages listed at right for explanations of each item.

Main screen	Descriptions	Page
Internet/LAN		
Internet	Configure Internet side port and settings.	Page 28
PPPoE	PPPoE settings (DSL login).	Page 29
DDNS	DNS settings.	Page 32
VPN Server	VPN server settings.	Page 33
LAN	LAN side port configuration.	Page 36
DHCP Lease	DHCP lease settings.	Page 38
NAT	Network address translation settings, used to connect LAN side devices to the Internet.	Page 39
Route	Configure the AirStation's IP communication route.	Page 40
Wireless Config		
WPS	WPS settings and status.	Page 41
AOSS	AOSS (AirStation One-touch Secure System) settings and status.	Page 42
Basic	Configure basic wireless settings.	Page 44
Advanced	Configure advanced wireless settings.	Page 48
WMM	Set priorities for Wireless Multimedia Extensions (Wi-Fi Multimedia).	Page 49
MAC Filter	Limit access to specific devices.	Page 51
Multicast Control	Configure limits on sending unnecessary multicast packets to the wireless LAN port.	Page 52
WDS	Configure communication among AirStation	Page 53
Security		
Firewall	Protect your computer from outside intruders.	Page 55
IP Filter	IP filters for packets passing through the LAN side and the Internet side.	Page 57
VPN Passthrough	Configure IPv6 passthrough, PPPoE passthrough, and PPTP passthrough.	Page 58
LAN Config		
Port Forwarding	Configure port translation and exceptions for games and other programs.	Page 59

DMZ	Configure a destination to transfer communication packets without a LAN side destination.	Page 61
UPnP	Configure UPnP (Universal Plug and Play).	Page 62
QoS	Configure priority for packets that require a guaranteed data flow.	Page 63
Movie Engine	Configure options for the Movie Engine feature.	Page 62
NAS		
Disk Management	View the status and configure of attached USB disks.	Page 67
Shared Folder	Set the USB disk to use as shared folders.	Page 69
User Management	Configure users to access shared folders.	Page 71
Shared Service	Configure shared folder access.	Page 72
Web Access	Configure Web Access.	Page 71
Media Server	Configure a Media Server.	Page 76
BitTorrent	Configure a BitTorrent client.	Page 77
Admin Config		
Name	Configure the AirStation's name.	Page 79
Password	Configure the AirStation's login password for access to the configuration utility.	Page 80
Time/Date	Configure the AirStation's internal clock.	Page 81
NTP	Configure the AirStation to synchronize with an NTP server to automatically set the AirStation's internal clock.	Page 82
ECO	Configure the AirStation's ECO Mode.	Page 83
Access	Configure access restrictions to the AirStation's configuration screens.	Page 85
Log	Configure a syslog server to manage the AirStation's logs.	Page 88
Save/Restore	Save or restore the AirStation's configuration from a configuration file.	Page 87
Initialize/Restart	Initialize the AirStation or reboot it.	Page 88
Update	Update the AirStation's firmware.	Page 89
Diagnostic		
System Info	View current system information for the AirStation.	Page 90
Logs	Check the AirStation's logs.	Page 92
Packet Info	View all packets transferred by the AirStation.	Page 93
Client Monitor	View all devices currently connected to the AirStation.	Page 94
Ping	Test the AirStation's connection to other devices on the network.	Page 95
Logout		
Click this to log out	of the AirStation's configuration screens.	

Configuration Utility Menus in Bridge Mode

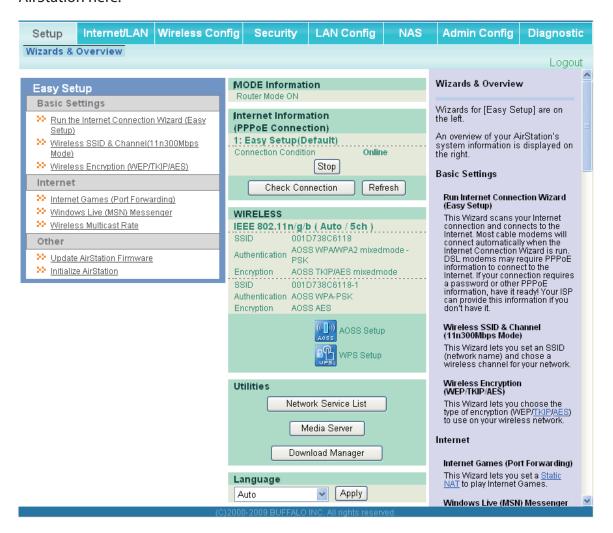
The menu structure in bridge mode is as follows. Please refer to the pages listed at right for explanations of each item.

Main screen	Descriptions	Page
LAN Config		
LAN	Configure LAN side ports and devices.	Page 36
Route	Configure the AirStation's IP communication route.	Page 40
Wireless Config		
WPS	WPS settings and status.	Page 41
AOSS	AOSS (AirStation One-touch Secure System) settings and status.	Page 42
Basic	Configure basic wireless settings.	Page 44
Advanced	Configure advanced wireless settings.	Page 48
WMM	Set priorities for Wireless Multimedia Extensions (Wi-Fi Multimedia).	Page 49
MAC Filter	Limit access to specific devices.	Page 51
Multicast Control	Configure limits on sending unnecessary multicast packets to the wireless LAN port.	Page 52
WDS	Configure communication among AirStation	Page 53
QoS		
Movie Engine	Configure options for the Movie Engine feature.	Page 65
NAS		
Disk Management	View the status and configure of attached USB disks.	Page 67
Shared Folder	Set the USB disk to use as shared folders.	Page 69
User Management	Configure the name to access shared folders.	Page 7
Shared Service	Configure the name to access shared folders.	Page 72
Web Access	Set to use the Web Access function.	Page 74
Media Server	Set to use the Media Server function.	Page 70
BitTorrent	Set to use the BitTorrent function.	Page 77
Admin Config		
Name	Configure the AirStation's name.	Page 79
Password	Configure the AirStation's login password for access to configuration screens.	Page 80
Time/Date	Configure the AirStation's internal clock.	Page 8

NTP	Configure the AirStation to synchronize with an NTP server to automatically set the AirStation's internal clock.	Page 82
ECO	Configure the AirStation's ECO Mode.	Page 83
Access	Configure access restrictions to the AirStation's configuration screens.	Page 85
Log	Check the AirStation's logs.	Page 86
Save/Restore	Save or restore the AirStation's configuration from a configuration file.	Page 87
Initialize/Restart	Initialize the AirStation or reboot it.	Page 88
Update	Update the AirStation's firmware.	Page 89
Diagnostic		
System Info	View current system information for the AirStation.	Page 90
Logs	Check the AirStation's logs.	Page 92
Packet Info	View all packets transferred by the AirStation.	Page 93
Client Monitor	View all devices currently connected to the AirStation.	Page 94
Ping	Test the AirStation's connection to other devices on the network.	Page 95
Logout		
Click this to log out	of the AirStation's configuration screens.	

Setup

Setup is the home page of the configuration utility. You can verify settings and the status of the AirStation here.



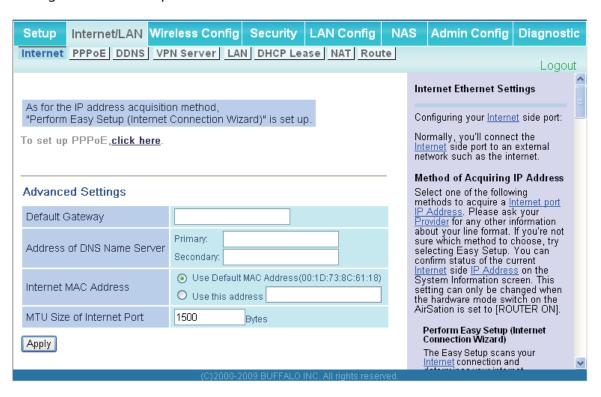
Parameter	Meaning
Internet/LAN (LAN Config)	Displays the configuration screen for the Internet port and LAN ports.
Wireless Config	Click this button to display the configuration screen for wireless settings.
Security	Click this button to display the configuration screen for security.
LAN Config	Click this button to display the configuration screen to open ports for games and applications.

Parameter	Meaning
NAS	Click this button to display the configuration screen for NAS settings.
Admin Config	Click this button to display the configuration screen for administration settings.
Diagnostic	Click this button to display the status of the AirStation.
Easy Setup	Enables you to easily configure the AirStation's network settings automatically.
Internet Information	Displays WAN-side system information for the AirStation.
Check Connection	Click this button to check if the AirStation is connected to the Internet properly.
Refresh	Click this button to refresh the current screen.
WIRELESS	Displays the current wireless settings.
AOSS Setup	Click this button to display the AOSS configuration screen.
WPS Setup	Click this button to display the WPS configuration screen.
Network Service List	Displays the list of the network devices for which information is provided from the network on the LAN-side.
Media Server	Displays the status of the media server.
Download List	Displays the list of BitTorrent files downloading.
Language	Enables you to select the language you use.
Logout	Log out from the configuration screen of the AirStation. If the AirStation does not communicate for 5 minutes, it will log out automatically.

Internet/LAN (LAN Config)

Internet (Router Mode only)

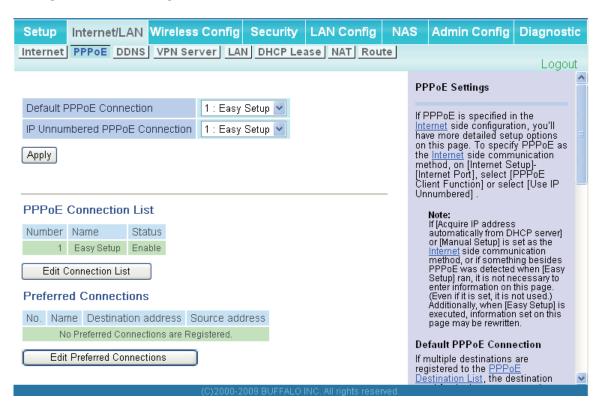
Configure a WAN-side port.



Parameter	Meaning
Method of Acquiring IP Address	Specify how the WAN-side IP address is obtained.
Default Gateway	Configure an IP address for the default gateway.
Address of DNS Name Server	Specify an IP address for the DNS server.
Internet MAC Address	Configure the Internet side MAC address. Note: Configuring an improper MAC address may make the AirStation unusable. Change this setting at your own risk.
MTU size of Internet Port	Configure the MTU value of the Internet port. Values of 578 to 1500 bytes may be entered.

PPPoE (Router Mode only)

Configure PPPoE settings.



Parameter	Meaning
Default PPPoE Connection	If you have registered multiple connection destinations in the PPPoE Connection List, connection destinations selected here have priority. You need to configure the route to which PPPoE is connected to if you don't use the default settings.
IP Unnumbered PPPoE Connection	Select the destination from the PPPoE Connection List which is used when specifying [Use IP Unnumbered] in Method of Acquiring IP Address (page 28).
PPPoE Connection List	Edit PPPoE destination. You can register up to 5 sessions.
[Edit Connection List]	Click this button to display the screen to edit the settings of destination.

Parameter Meaning PPPoE Connection No.*-Add This is displayed when [Edit Connection List] is clicked. **Name of Connection** Enter the name to identify the connected destination. You may enter up to 32 alphanumerical characters and symbols. **User Name** Enter the user name specified by your ISP for PPPoE certification. You may enter up to 32 alphanumerical characters and symbols. **Password** Enter the password specified by your ISP for PPPoE certification. You may enter up to 32 alphanumerical characters and symbols. **Service Name** Fill in this field only if your ISP specifies a Service Name. Leave blank otherwise. You may enter up to 32 alphanumerical characters and symbols.

Connection Type

Specifies the timing for the AirStation to connect to your provider.

Automatic disconnection

Set time to disconnect after communication is stopped when the connection method is set to [Connect on Demand] or [Manual]. You can enter up to 1440 minutes.

Authorization

Configure an authorization method with a provider.

MTU Size

Configure the MTU value for PPPoE. Values of 578 to 1500 bytes may be entered..

MRU Size

Configure MRU (Maximum Receive Unit) for PPPoE. Values of 578 to 1492 may be entered.

Parameter	Meaning
PPPoE Connection No. *-Add	Keep Alive If Keep Alive is enabled, then the AirStation will issue an LCP echo request once a minute in order to maintain the connection with the PPPoE. If the server does not respond for more than 6 minutes, the line is recognized as disconnected and the AirStation will terminate the connection. [Disabled] is the recommended setting.
Preferred Connections	Displays information you have set regarding to the connection destination route.
[Edit Preferred Connections]	Click to edit the connection destination route settings.
Preferred PPPoE Connection -Add	Click [Edit Preferred Connections] to display.
	Name The destination to connect by PPPoE if [Destination address] and [Source address] match. Select the destination registered to the PPPoE Connection List.
	Destination address When communicating to this address, the AirStation will communicate with [Name of Connection].
	Source address When communicating from this address, the AirStation will communicate with [Name of Connection].

DDNS (Router Mode only)

Configure Dynamic DNS settings. Many settings are only available when the appropriate Dynamic DNS service is enabled.

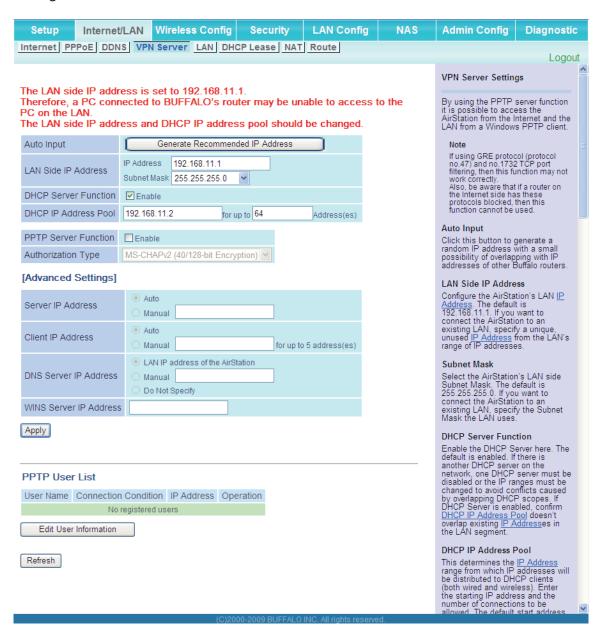


Parameter	Meaning
Dynamic DNS Service	Select a provider (DynDNS or TZO) for Dynamic DNS.
User Name	Enter the Dynamic DNS user name. You may enter up to 64 alphanumerical characters and symbols.
Password	Enter the Dynamic DNS password. You may enter up to 64 alphanumerical characters and symbols.
Host Name	Enter the Dynamic DNS host name. You may enter up to 255 alphanumerical characters, hyphens, and periods.
Email Address	Enter the email address which is registered to the Dynamic DNS service. You may enter up to 64 alphanumerical characters and symbols.
TZO Key	Enter the TZO Key which is registered to the Dynamic DNS service. You may enter up to 64 alphanumerical characters and symbols.
Domain Name	Enter the domain name which is registered to the Dynamic DNS service. You may enter up to 255 alphanumerical characters, hyphens, and periods.

Parameter	Meaning
IP Address Update Period	Specifies the period to notify the dynamic DNS service provider of the current IP address. For DynDNS, set it between 0 and 35 days. For TZO, set it between 0 and 99 days. If 0 (zero) days is set, no periodic update is performed.
Internet Side IP Address	The WAN-side IP address of the AirStation's Internet port. This address is sent to the dynamic DNS service provider.
Domain Name	The domain name assigned by the dynamic DNS Service provider. The AirStation can be accessed from the Internet using this domain name.
Status	Display the status of dynamic DNS service.

VPN server (Router Mode Only)

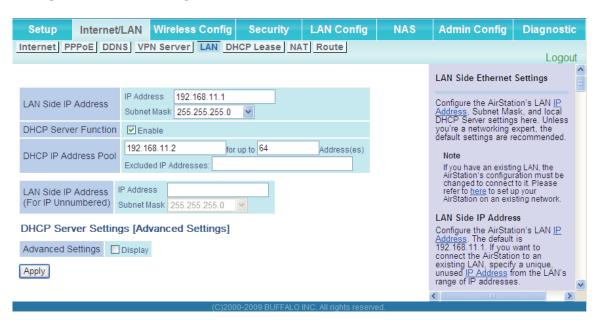
Configure the VPN server.



Parameter	Meaning
Auto Input	Click to generate a random IP address.
LAN Side IP Address	Set a LAN side IP address and subnet mask.
DHCP Server	Enable or disable the DHCP server, which assigns IP addresses automatically.
DHCP IP Address Pool	Configure the range of IP addresses to be assigned by the DHCP server and IP addresses to be excluded from that range. Values from 0-253 may be entered.
PPTP Server	Enable to use a PPTP server.
Authorization Type	Select the authentication method for PPTP connection.
Server IP Address	Select the server IP address.
Client IP Address	Select the IP address range.
DNS Server IP Address	Set the DNS server IP address for the DHCP server to issue to clients.
WINS Server IP Address	Set the WINS server IP address for the DHCP server to issue to clients.
[Edit User Information]	Click to edit user information.
User Name	Enter the user name to connect to the PPTP server. You may enter up to 16 alphanumerical characters and symbols.
Password	Enter the password to connect to the PPTP server. You may enter up to 16 alphanumerical characters and symbols.
Method of Acquiring IP Address	Select the method to be used to assign the IP address is assigned to the PPTP client.
PPTP User List	Displays the PPTP connection user information.

LAN

Configure LAN-side settings.

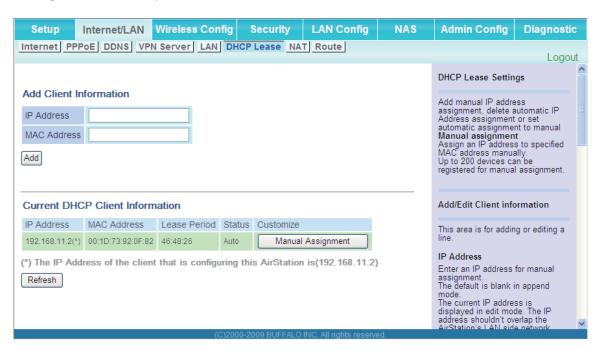


Parameter	Meaning
LAN Side IP Address	By default, the LAN side IP address is 192.168.11.1 with subnet mask 255.255.255.0. You may change it here.
DHCP Server Function	Enable or disable the DHCP server, which assigns LAN-side IP addresses automatically.
DHCP IP Address Pool	Configure the range of IP addresses to be assigned by the DHCP server and IP addresses to be excluded from that range. Values from 0 - 253 may be entered.
LAN Side IP Address (For IP Unnumbered)	Set an IP unnumbered LAN side IP address. Note: A PC with a normal LAN side IP address and a PC with an IP Unnumbered IP address cannot communicate each other.
Advanced Settings	Check [Display] to display DHCP server advanced settings options.
Lease Period	Set the effective period of an IP address assigned by the DHCP server. Up to 999 hours may be entered.
Default Gateway	Set the default gateway IP address for the DHCP server to issue to clients.

Parameter	Meaning
DNS Servers *Router Mode only	Set the DNS server IP address for the DHCP server to issue to clients.
WINS Server *Router Mode only	Set the WINS server IP address for the DHCP server to issue to clients.
Domain Name * Router Mode only	Set the domain name for the DHCP server to issue to clients. You may enter up to 127 alphanumerical characters, hyphens, and periods.
Default Gateway * Bridge Mode only	Set the default gateway IP address.
DNS Server Address * Bridge Mode only	Set the DNS server IP address.

DHCP Lease (Router Mode only)

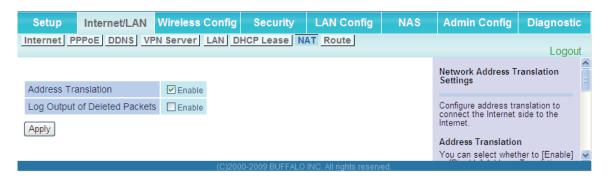
Configure DHCP Exceptions.



Parameter	Meaning
IP Address	Enter an IP address to lease manually. The IP address should be from the same subnet as the DHCP scope, but not be within the range that DHCP is assigning to other devices.
MAC Address	Enter the MAC address which identifies the client.
Current DHCP Client Information	Displays information for current leases. An IP address which is leased automatically can be changed to be leased manually by clicking [Manual Assignment].

NAT (Router Mode only)

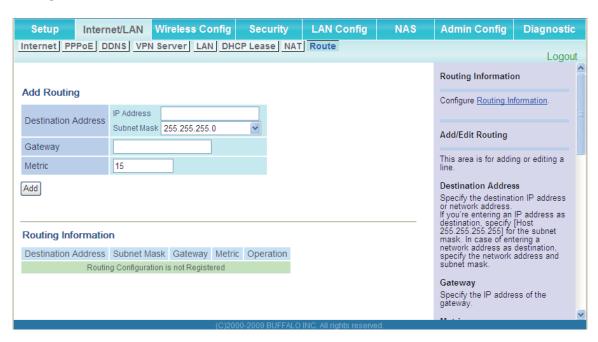
Configure network address translation settings. This enables LAN-side devices to communicate with the Internet.



Parameter	Meaning
Address Translation	Enable to use Network Address Translation.
Log Output of Deleted Packets	Enable to log deleted packets (such as errors) during address translation.

Route

Configure the AirStation's IP communication route.

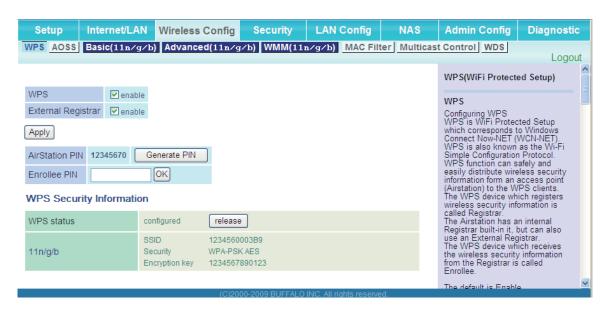


Parameter	Meaning
Destination Address	Adds a destination IP address and subnet mask to a routing table.
Gateway	Adds a gateway address to a routing table.
Metric	The metric is the maximum number of router hops a packet may take on the way to its destination address. Values between 1 and 15 may be entered. The default value is 15.
Routing Information	Manual entries will appear here after being added.

Wireless Config

WPS

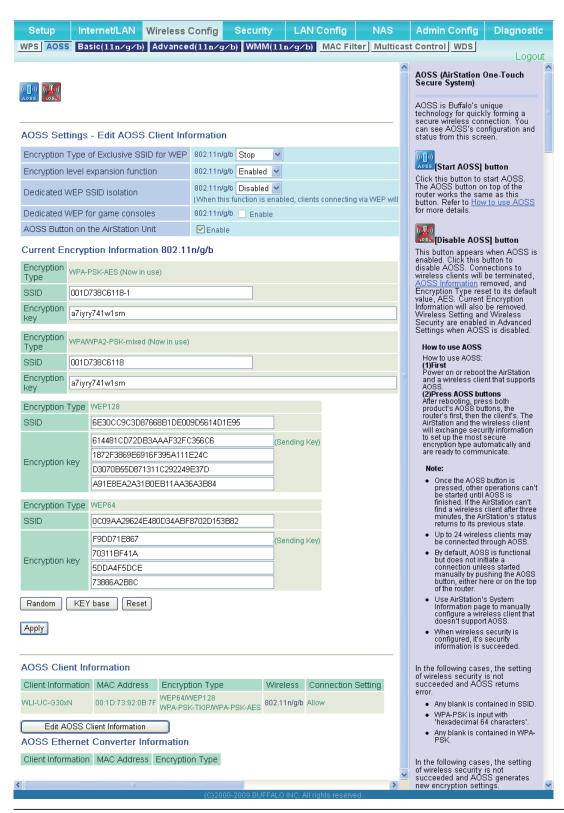
WPS Status and Settings.



Parameter	Meaning
WPS	Enable to use WPS automatic configuration.
External Registrar	Enable to accept the external configure requests from other WPS devices. Note: External configure requests will not be accepted if AOSS is in use.
AirStation PIN	Displays the PIN code of the AirStation. Clicking [Generate PIN] will generate a new PIN code. This code can be entered into other wireless devices that support WPS.
Enrollee PIN	Enter the PIN code for the other wireless device and click [OK].
WPS status	Displays [configured] if all available wireless bands are configured. Displays [unconfigured]if at least one wireless band is unconfigured.

AOSS

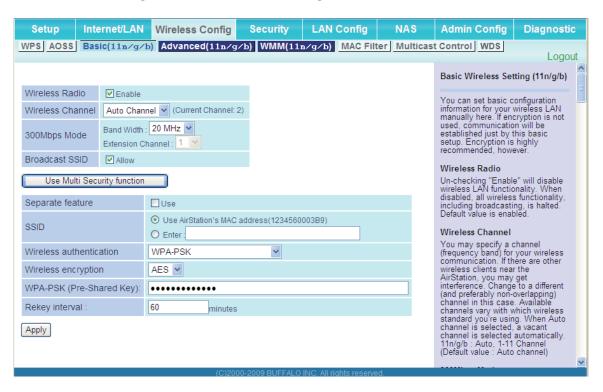
AOSS Status and Settings.



Parameter Parameter	Meaning
(([])) AOSS	Initiates AOSS automatic wireless configuration. Click this, then press or click the AOSS button on your AOSS-compatible wireless client. Repeat for additional AOSS clients.
(Pa)	Click this button to disconnect AOSS connections. Note: If AOSS connections are disconnected, the SSID and encryption keys will be restored to their most recent settings before using AOSS.
Encryption Type of Exclusive SSID for WEP	You may allow a separate SSID specifically for WEP connections. If [disabled] is selected, then clients will not be able to connect with WEP.
Encryption level expansion function	Expands security method from TKIP to WPA/WPA2-PSK-mixed mode.
Dedicated WEP SSID isolation	Set a separate SSID and network segment specifically for WEP connections. Devices connected with WEP will not be able to communicate with devices connected using AES/TKIP. All connected devices will be able to communicate with the internet.
Dedicated WEP for game consoles	When enabled, the AirStation allows wireless devices to connect with 64 or 128 bit WEP.
AOSS Button on the AirStation Unit	Uncheck to disable the physical AOSS button on the AirStation.
Current Encryption Information * AOSS Connection only	Displays the encryption type, SSID, an encryption key configured by AOSS.
[Random]	Click to enter random values for SSID, encryption key, and other settings.
[KEY base]	Click to return the SSID, encryption key, and other wirelesss settings to the values on the case sticker.
[Reset]	Click to return the SSID, encryption key, and other wireless settings to their previous values.
AOSS Client Information*	Displays AOSS clients connected to the AirStation and information of the devices which are wirelessly communicated.
AOSS Ethernet Converter Information* * Only displayed if there are AOSS Connections	Displays information about ethernet converters connected to the AirStation via AOSS.

Basic

The screen to configure a basic wireless settings.



Parameter	Meaning
Wireless Radio	Determines whether to allow wireless communication. If this is unchecked, then no wireless connections will be allowed.
Wireless Channel	Sets a channel (a range of frequencies) used for wireless connections. With Auto Channel selected, the AirStation will automatically use the best available channel.
300Mbps Mode	300 Mbps mode uses twice the normal frequency range, 40 MHz instead of 20 MHz. In uncongested areas this can increase performance. To use 300 Mbps mode, set the Bandwidth to 40 MHz and choose an Extension Channel. Note: If using Auto Channel for the wireless channel, then the Extension Channel is set automatically.

Parameter	Meaning
Broadcast SSID	If [Allow] is checked, then the AirStation will respond to SSID searches from wireless devices by broadcasting its SSID. If [Allow] is unchecked, then the AirStation ignores SSID searches from wireless devices.
[Use Multi Security function] [Do not use Multi Security function]	Clicking [Use Multi Security function] will enable Multi Security, allowing the use of multiple SSIDs, each with different wireless security settings. Clicking [Do not use Multi Security function] will disable the Multi Security function. The AirStation will then allow one SSID and one type of wireless security. Note: When using Multi Security, you need to enable at least one of the following: SSID1, SSID2, or SSID3.
SSID1	Multi Security SSID1 can use WPA-PSK-TKIP or WPA/WPA2-Mixed for wireless security.
SSID2	Multi Security SSID2 can use WPA-PSK-AES for wireless security.
SSID3	Multi Security SSID3 can use WEP for wireless security.
Separate feature	When [Separate] is enabled, wireless devices connected to the AirStation can communicate only with the Internet side, not with each other.
SSID	Set SSID using 1 - 32 alphanumeric characters.
Wireless authentication	Specifies an authentication method used when connecting to a wireless device.

Parameter	Meaning
Wireless encryption	You may use any of the following types of encryption:
	No encryption Data is transmitted without encryption. Avoid this option since any communication may be intercepted. [No encryption] can be selected only when [No authentication] is selected for Wireless authentication.
	WEP WEP is a common encryption method supported by most devices. Use an encryption key to communicate with a wireless device. WEP can only be selected when [No authentication] is selected
	for Wireless authentication.
	TKIP TKIP is an encryption method which is more secure than WEP, but slower. Use an pre-shared-key to communicate with a wireless device. TKIP can be selected only when WPA-PSK or WPA2-PSK is selected for Wireless authentication.
	AES
	AES is more secure than TKIP, and faster. Use a pre-shared-key to communicate with a wireless device. AES can be selected only when WPA-PSK or WPA2-PSK is selected for Wireless authentication.
	TKIP/AES mixed mode TKIP/AES mixed mode allows both TKIP and AES authentication and communication. TKIP/AES mixed mode can be selected only when WPA/WPA2 mixed mode - PSK is selected for Wireless authentication.
WPA-PSK (Pre-Shared Key)	A pre-shared key or passphrase is the [password] for your wireless connections. There are two different formats for a pre-shared key. Use 8 to 63 alphanumeric characters (case-sensitive) for an ASCII passphrase, or use 64 digits using 0 to 9 and a to f (not case-sensitive) for a hexadecimal passphrase
Rekey interval	Set the update interval for the encryption key between 0 and 1440 (minutes).

Parameter	Meaning
Set up WEP encryption key	A WEP encryption key (passphrase) may have any of four different formats. An ASCII passphrase may use either 5 or 13 alphanumeric characters (case-sensitive). A hexadecimal passphrase may use either 10 or 26 digits using 0 to 9 and a to f (not case-sensitive).

Advanced

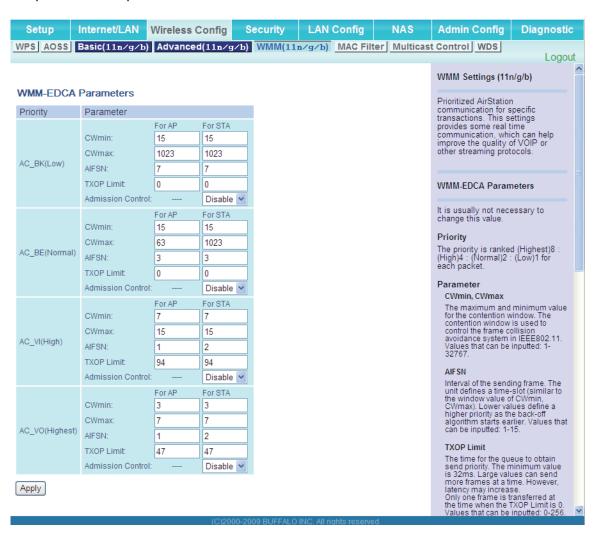
Configure advanced wireless settings.



Parameter	Meaning
Multicast Rate	Set the communication speed for multi-cast packets.
DTIM Period	Set the beacon responding interval (1 -255) for which the AirStation responds to a wireless device. This setting is effective only when power management is enabled for the wireless device.
Privacy Separator	If enabled, the Privacy Separator blocks communication between wireless devices connected to the AirStation. Wireless devices will be able to connect to the Internet but not with each other. Devices that are connected to the AirStation with wired connections will still be able to connect to wireless devices normally.

WMM

Set priorities for specific communications.



Parameter	Meaning
WMM-EDCA Parameters	You don't usually need to change these settings. Using the default settings is recommended.
	Priority The following priorities may be applied to individual transmission packets: (Highest) 8, (High) 4, (Normal) 2, and (Low) 1. From the queue, these packets are processed in order of priority.
	CWmin, CWmax The maximum and minimum value of the contention window. The contention window is used in the frame collision avoidance structure performed in IEEE802.11, and generally, the smaller the value in the window, the higher the probability that the queue obtains the right to send.
	AIFSN The interval to send frames. The unit of the AIFSN is a slot, just as the window defined by CWmin and CWmax is. The smaller the interval of sending frames, the faster the algorithm can restart. As a result, the priority of the queue is higher.
	TXOP Limit The period of time that the queue can use after obtaining the right to send. The unit is 32 ms. The longer this time, the more frames can be sent per right to send. However, the queue may interfere with other packet transmissions. If TXOP Limit is set to 0 (zero), only one frame can be sent per right to send.
	Admission Control Restricts new frames from interfering with a previous queue. New packets are prioritized lower until a queue of them is collected. As the new queue accumulates more packets, its priority increases.

MAC Filter

Restrict access to specific wireless devices.



Parameter	Meaning
Enforce MAC Filtering	Enable to restrict wireless connections to devices with registered MAC addresses.
Registration List	Displays the MAC addresses of registered devices which are permitted to connect wirelessly.
[Edit Registration List]	Click to add a wireless device to the list of permitted devices.
MAC Addresses to be Registered	Enter a MAC address of a wireless device to permit to connect to the AirStation. Click [Register] to add that MAC address to the list.
List of all clients that are associated with this AirStation	Display the list of all MAC addresses of wireless devices connected to the AirStation.

Multicast Control

Configure restrictions on unnecessary multicast packets sent to the wireless LAN port.



Parameter	Meaning
Snooping	If enabled, snooping supervises multicast administrative packets such as IGMP and restricts unnecessary multicast transfers to wired or wireless ports.
Multicast Aging Time	Set the time to hold the data from multicast snooping in the range of 1 to 3600 (seconds). Enter a value bigger than the IGMP/MLD query interval.

WDS

WDS bridging allows communication between AirStations.

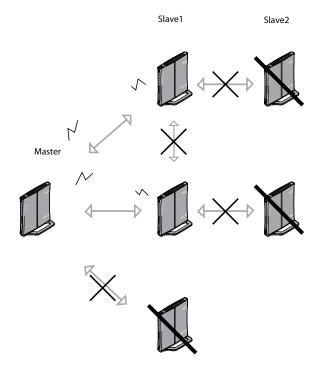


Parameter	Meaning
WDS	Check to use WDS bridging.
Specify Master/Slave	Define this AirStation's role in a WDS bridge.
	Master This AirStation will the master in a WDS bridge. It will have the Internet connection, and other AirStations in the bridge will be connected through this AirStation.
	Slave Slave AirStations are connected to the master AirStation.
	Automatically switches between Master and Slave modes depending on the surrounding network. If an AirStation works as a router, it will automatically be set as a master. If the Airstation works as a bridge and a DHCP server exists in the network, it will automatically be set as a master. If the AirStation works as a bridge and no DHCP server is available, it will automatically be set as a slave.

Parameter	Meaning
SSID	Configure the Master Airstation's SSID.
[Search]	Click to search for other AirStations' SSIDs.
Wireless authentication	Configure authentication method for the master AirStation
Encryption for wireless	Choose encryption type for the master AirStation.
WPA-PSK (Pre Shared Key)	Set the master AirStation's Encryption key.

Notes: A master AirStation can communicate with two slaves only.

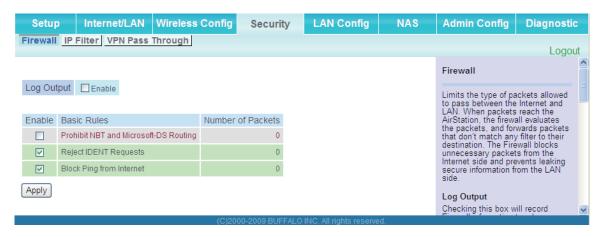
A slave AirStation cannot communicate with any AirStation other than its master.



Security (Router Mode only)

Firewall (Router Mode only)

Configure the AirStation's firewall.



Parameter	Meaning
Log Output	Enable to output a log of firewall activity.
Basic Rules	Enable to use any of the quick filters. Preconfigured quick filters include:
	Prohibit NBT and Microsoft-DS Routing When this is enabled, you cannot use these protocols between the LAN and WAN sides of the router. You can configure this with PPPoE if you select [Use PPPoE Client] or [Use IP Unnumbered] in Method of Acquiring IP address (on page 28), or if Easy Setup identified a PPPoE connection during setup.

Parameter Meaning

Reject IDENT Requests

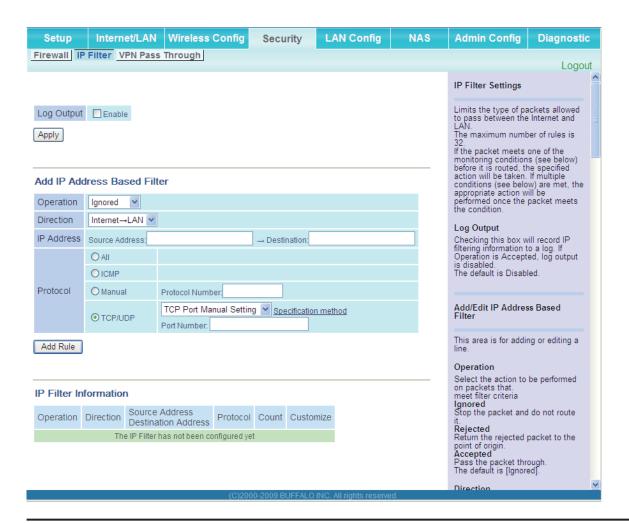
Enabling this option will answer IDENT requests from the Internet side with corresponding rejection packets. Enable this option if you experienced slow transfer speeds for network applications such as sending mail, using ftp, or browsing. If you have configured transfer of IDENT requests to the LAN side computer in the address translation settings (DMZ or TCP port:113), then that setting has higher priority, and overrides this setting.

Block Ping from Internet

If this is enabled, the AirStation will not respond to pings from the Internet (WAN) side. You can configure this with PPPoE if you select [Use PPPoE Client] or [Use IP Unnumbered] in Method of Acquiring IP address (page 28), or if Easy Setup identified a PPPoE connection during setup.

IP Filter (Router Mode only)

Edit IP filters.



Parameter	Meaning
Log Output	If enabled, IP filter activity is saved to a log.
Operation	Specify how to process target packets.
Direction	Specify the transmission direction of target packets.
IP Address	Specify the sender's IP address and receiver's IP address of the target packets.
Protocol	Select a protocol for target transmission packet.
IP Filter Information	Display the list of IP filters which have been registered.

VPN Pass Through (Router Mode only)

Configure IPv6 pass through, PPPoE pass through, and PPTP pass through.

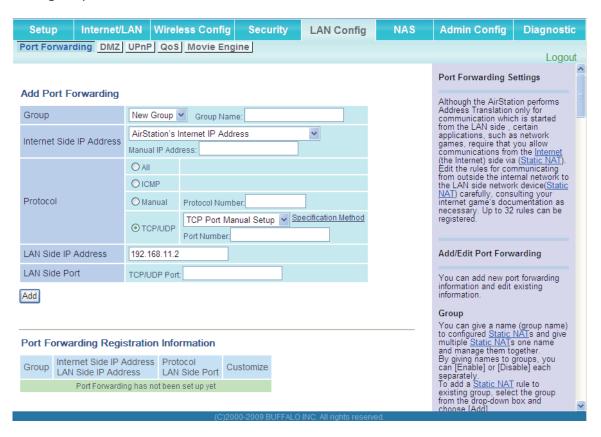


Parameter	Meaning
IPv6 Pass Through	Enable to use IPv6 pass-through for address translation.
PPPoE Pass Through	Enable to use PPPoE bridge. Using PPPoE bridge lets you automatically obtain an IP address from your provider using the PPPoE protocol from your computer connected to the LAN side because all PPPoE packets can pass through between the Internet and LAN.
PPTP Pass Through	Enable to use PPTP pass-through for address translation.

LAN Config (QoS)

Port Forwarding (Router Mode only)

Configure port translation.



Parameter	Meaning
Group	Specify a group name for a new rule to belong to. Select [New Group] and enter the new group name in the Group Name field to create a new group. A group name can include up to 16 alphanumeric letters.
Internet Side IP Address	Enter the Internet side IP address (before translation) for the port translation table entry.
Protocol	Select the Internet side protocol (before translation) for the port translation table entry.

Parameter	Meaning
LAN Side IP Address	Enter the LAN side IP address (after translation) for the port translation table entry.
LAN Side Port	Select the LAN side (after translation) port number (1 - 65535) for the port translation table entry.
Port Forwarding Registration Information	Shows current entries in the port translation table.

DMZ (Router Mode only)

Configure a destination to transfer communication packets without a LAN side destination to.



Parameter	Meaning
IP Address of DMZ	Enter the IP address of the destination to which packets which are not routed by a port translation table are forwarded. Note: RIP protocol packets (UDP port number 520) will not be forwarded.

UPnP (Router Mode only)

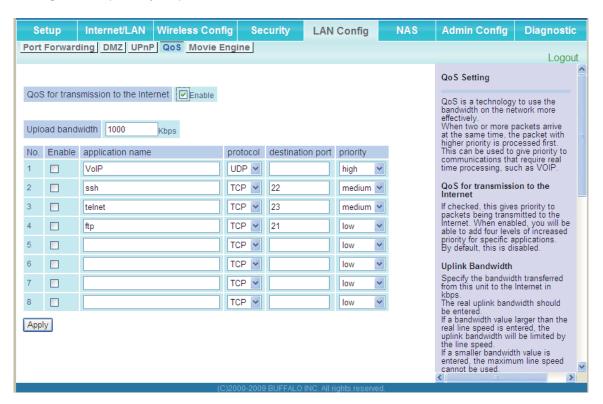
Configure UPnP (Universal Plug and Play).



Parameter	Meaning
UPnP	Enable or disable Universal Plug and Play (UPnP) functionality.

QoS (Router Mode only)

Configure the priority of packets sent to the Internet.

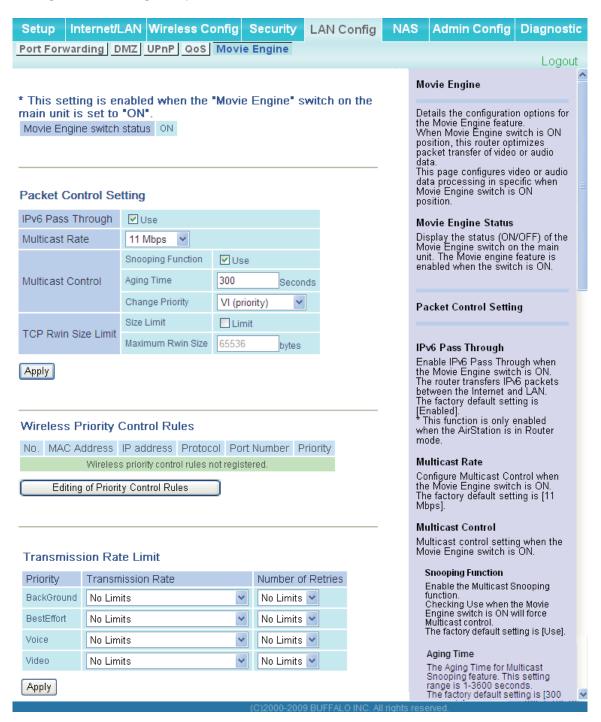


Parameter	Meaning
QoS for transmission to the Internet	Determine whether or not to prioritize packets sent to the Internet. Check this box to enable QoS.
Upload bandwidth	Specify the upstream bandwidth in kbps from the AirStation to the internet side. Set the actual value for the upstream bandwidth.
Enable	Enable or disable this entry.
application name	Enter an application name. Names may use up to 32 alphanumeric characters, double or single tick marks ("'), quotation marks ("), and semicolons (;).
protocol	Select either TCP or UDP.
destination Port	Specify a destination port with the value of 1 - 65535. If this field is empty, a random port is selected.

Parameter	Meaning
priority	Select high, medium or low. If packets do not qualify for classification as a type on the list, then their priority is treated as a level between medium and low.

Movie Engine

Configure Movie Engine options.

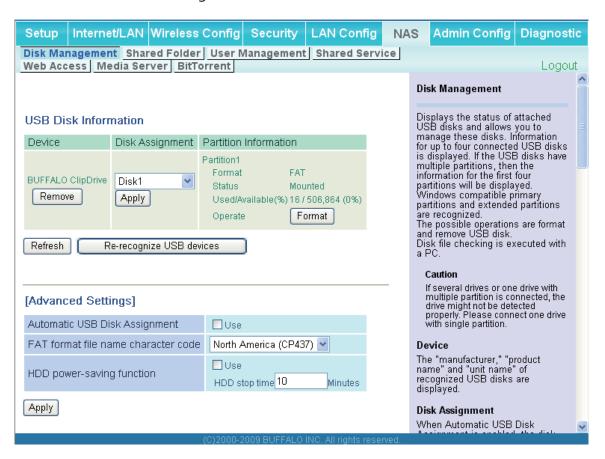


Parameter	Meaning
Movie Engine switch status	Display the status of the Movie Engine switch.
IPv6 Pass Through	Set to enable the IPv6 Pass Through.
Multicast Rate	Select the rate of the Multicast Control.
Multicast Control	Set the Multicast Control setting to on.
TCP Rwin Size Limit	Configure TCP packets Rwin size limitation to pass AirStation's wireless LAN.
Wireless Priority Control Rules	Display the list of rules controls the priority pass through of packets in the AirStation wireless LAN.
Transmission Rate Limit	Select the transmission limit to prevent transmission rate fall down.
Number of Retries	Select limit number of retries.

NAS

Disk management

View the status of and configure attached USB hard disks.

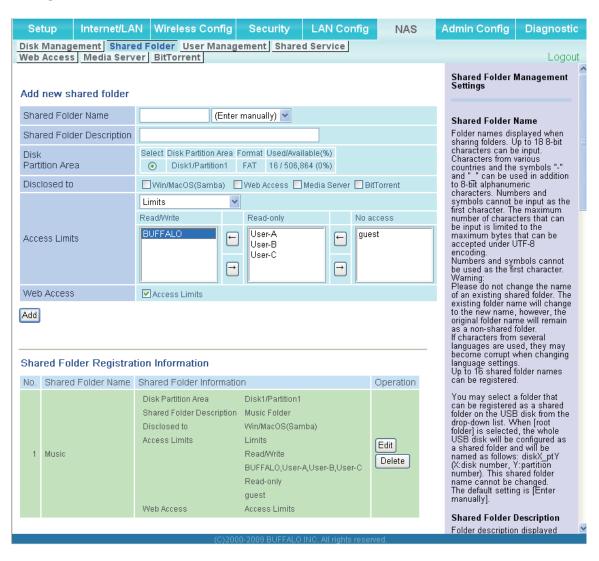


Parameter	Meaning
Device	Displays information for attached USB disks. Disks are removed when [Remove] in the Device column is clicked.
Disk Assignment	A disk number will be automatically assigned to the disk or you can choose a number. Select a disk number, or select [Do not assign], and then click [Apply] to assign a disk number.
Partition Information	Displays the partition information for the selected USB disk. Click [Format] to format the disk. Note: formatting a disk will erase all information from it.
Re-recognize USB devices	Click this to re-scan for connected USB disks.

Parameter	Meaning
Automatic USB Disk Assignment	Check [Use] to automatically select an attached USB hard disk. The entire drive will be used as the shared folder. To configure your disk and share manually, uncheck [Use]. [Use] is selected by default.
FAT format file name character code	Select the file name character code used for FAT formatting.
HDD power-saving function	Set the HDD power saving function.
HDD stop time	Select a time duration after which to stop the HDD.

Shared Folder

Configure a USB hard disk for use with shared folders.



Parameter	Meaning
Shared Folder Name*	Enter a name for the shared folder. Up to 18 alphanumeric characters, space, hyphens (-), and underscores (_) may be used.
Shared Folder Description*	Enter a description of the shared folder (optional). Up to 75 alphanumeric characters, space, hyphens (-), and underscores (_) may be used.
Disk Partition Area*	Displays the partition area, format type, and the capacity of the USB disk.
Disclosed to*	Check the functionality that you want to support. Win/Mac OS (Samba NAS), Web Access, Media Server, and/or BitTorrent may be checked. Only one folder may be chosen for either Media Server or BitTorrent functionality.
Access Limits	If access limits are enabled, use the arrows to move highlighted users between the columns for [Read/Write], [Read-only] or [No access] privileges.
Web Access	You may also select to enforce access limits on users accessing through Web Access by checking the Access Limits checkbox. Users will have the same access levels as assigned above. If Access Limits is not checked, then all users accessing the shared folder via Web Access will have [Read only] access
Shared Folder Registration Information*	Displays information about the shared folder.

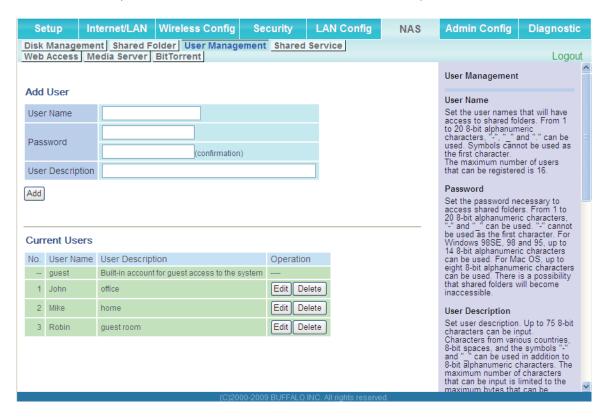
^{*}These parameters are displayed when [Automatic USB Disk Assignment] (page 68) is not set to [Use]:

The following settings are used for [Shared Folder] when [Disk Management] is activated.

- All folders: [Access Limits] settings in effect.
- Shared Folder/ Web Access: All folders are shared.
- Media Server/BitTorrent: The first folder is shared.

User Management

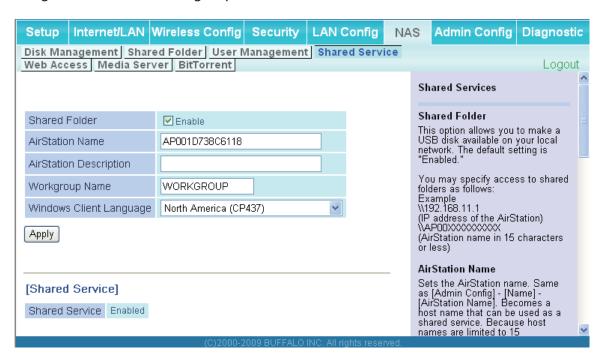
This screen lets you add users to the access list with the ability to access shared folders.



Parameter	Meaning
User Name	Enter the name of a user to be given access to the shared folder. Up to 20 alphanumeric characters, space, hyphens (-), and underscores (_) may be used for each user. Up to 16 users may be entered.
Password	Enter the user's password. Use of the same password that they use to log into their computer is recommended. Up to 20 alphanumeric characters, space, hyphens (-), and underscores (_) may be used. For Windows 98SE/98/95 users, up to 14 alphanumeric characters may be used. Mac OS users may use up to 8 alphanumeric characters. If you enter a longer password than your users can use, then they will not be able to access the share.
User Description	Describe the user (optional). Up to 75 alphanumeric characters, space, hyphens (-), and underscores (_) may be used.
Current Users	Lists current users, including [guest]. [guest] is a built-in account that cannot be changed or deleted.

Shared Service

Assign AirStation and workgroup names to access shared folders.

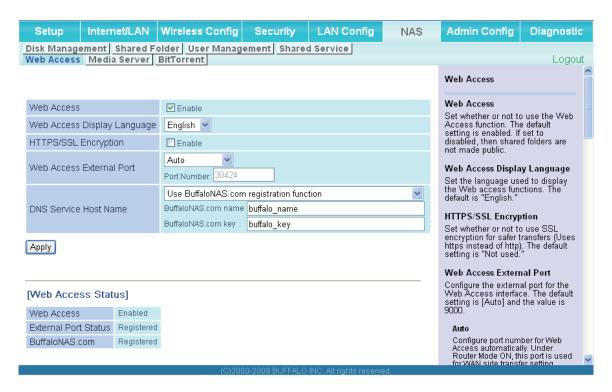


Parameter	Meaning
Shared Folder	Enable to make a USB disk available on your local network.
AirStation name	Rename your AirStation if desired. Up to 15 alphanumeric characters, space, and hyphens (-), may be used. The AirStation name is also used as the host name that will be used with the shared service. The shared service may not be available you use over 15 alphanumeric characters in your AirStation's name.
AirStation Description	Describe the AirStation (optional). Up to 48 alphanumeric characters, space, hyphens (-), and underscores (_) may be used.
Workgroup name	Enter your workgroup name. Up to 15 alphanumeric characters, space, hyphens (-), underscores (_) and period (.) may be used.
Windows Client Language	Select the language to be used by the Windows client.

Parameter	Meaning
Shared Service	Displays the status of the USB disk that is to be used with the shared service.

Web Access

The screen to set to use the Web Access function.

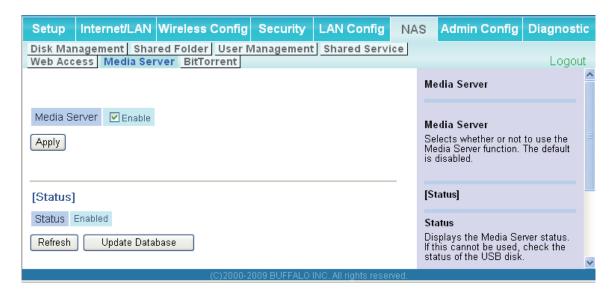


Parameter	Meaning
Web Access	Check [Enable] to use Web Access.
Web Access Display Language	Set the language to be used with Web Access.
HTTPS/SSL Encryption	Check [Enable] to use SSL encryption for protected data transfer.
Web Access External Port	Automatically sets the external port used for Web access. To select the port manually, select [Manual].
DNS Service Host Name	Sets the DNS Service Host Name when the Web access function is activated. Select [Use BuffaloNAS.com registration function] to use the Web access function easily. You'll have to configure a [BuffaloNAS.com name] and [BuffaloNAS.com key] to use BuffaloNAS.com. Up to 3-20 alphanumeric characters, space, hyphens (-), underscores (_) and period (.), may be used in the BuffaloNAS.com name. Up to 3-20 alphanumeric characters, space, hyphens (-), underscores (_) and period (.), may be used in the BuffaloNAS.com key. Note: The registered name is deleted from the server if the AirStation is disconnected from power, even for a moment.

Parameter	Meaning
Web Access	Displays the status of web access.
External Port Status	Display the status of the external port.
BuffaloNAS.com	Display the status of BuffaloNAS.com.

Media Server

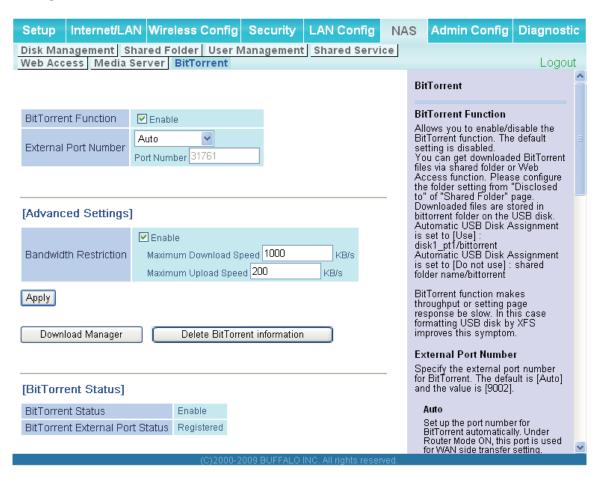
Media Server settings.



Parameter	Meaning
Media Server	Enable to use the media server.
Status	Displays the status of the media server.

BitTorrent

Configure the BitTorrent client.



Parameter	Meaning
BitTorrent Function	Enable to use the BitTorrent client. If the BitTorrent client is enabled, overall communication performance may decrease and the reactions to setting screens slow down. If that happens, reformat the USB disk with XFS. This may reverse the performance slowdown.
External Port Number	Select the external port number.

Parameter	Meaning
Bandwidth Restriction	Set a bandwidth limit for BitTorrent.
[Download Manager]	Displays the BitTorrent download manager screen. Add a torrent and then click [Add] to download the file(s).
[Delete BitTorrent information]	Deletes all files, including the torrent files and files which are currently downloading. The downloaded file is not deleted.
BitTorrent Status	Display the status of the BitTorrent client.
BitTorrent External Port Status	Display the external port status of the BitTorrent client.

Access here to download the latest BitTorrent client for PC. http://www.bittorrent.com/

Admin Config

Name

Configure basic AirStation's settings.



Parameter	Meaning
AirStation Name	Enter a name for the AirStation. Names may include up to 64 alphanumeric characters and hyphens (-).
List Network Services	Enable or disable this item to display the computers and devices on your network with their supported services.

Password

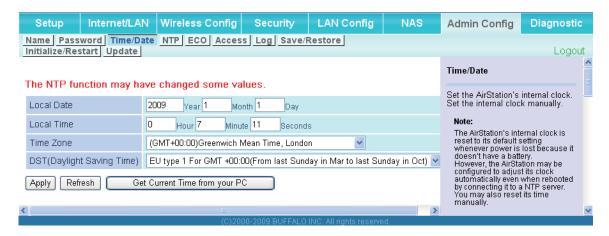
Configure the password to log in to the AirStation's configuration screen.



Parameter	Meaning
Administrator Name	The Administrator name is used to log in to the AirStation's configuration utility. This name is fixed as [root].
Administrator Password	The password is required to log in. It may contain up to 8 alphanumeric characters and underscores (_).

Time/Date

Configure the AirStation's internal clock.



Parameter	Meaning
Local Date	You may manually set the date of the AirStation's internal clock.
Local Time	You may manually set the time of the AirStation's internal clock.
Time Zone	Specify the time zone (offset of Greenwich Mean Time) of the AirStation's internal clock.
DST(Daylight Saving Time)	You may configure the AirStation to use DST(Daylight Saving Time). Select appropriate time according to your local time, and it changes time when DST starts it and also returns it automatically when DST finishes.

NTP

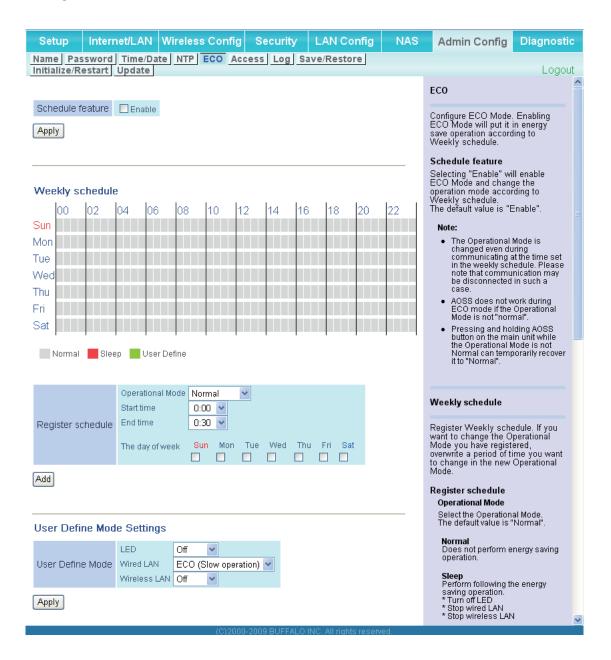
Configure an NTP server to automatically synchronise the AirStation's internal clock.



Parameter	Meaning
NTP Functionality	Enable to use an NTP server. The default is Enabled.
NTP Server	Enter the name of the NTP server as a host name, host name with domain name, or IP address. Up to 255 alphanumeric characters, hyphens (-), and underscores (_) may be used. The default is [time. nist.gov].
Update Interval	How often will the AirStation check the NTP server for the correct time? Intervals of 1 - 24 hours may be set. The default is 24 hours.

ECO

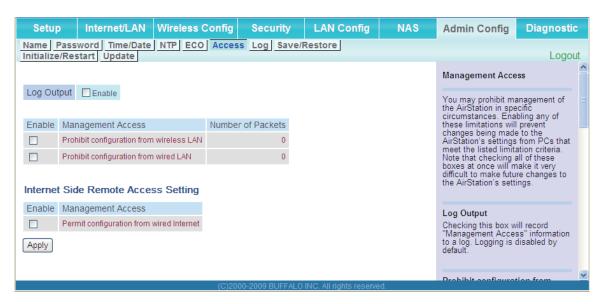
Configure Eco mode from this screen.



Parameter	Meaning
Schedule feature	Enable to schedule Eco mode.
	Note: If Schedule is enabled, AOSS will only function while the AirStation is in Normal Operating Mode.
Weekly schedule	Graphically displays the configured schedule.
Register schedule	Configure operational mode for time periods in the weekly schedule. If User Defined mode is chosen, configure it below.
User Define Mode	Individual power saving elements may be configured individually for User Defined mode.

Access

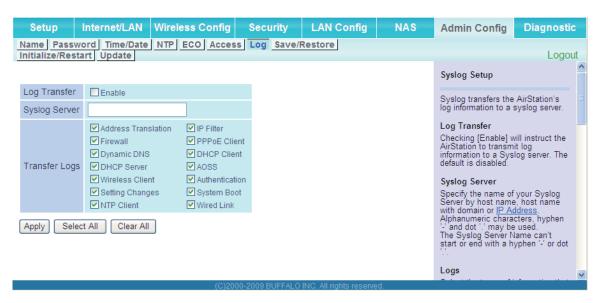
Restrict access to the AirStation's settings screens.



Parameter	Meaning
Log Output	Enabling outputs a log of changes to access settings.
Prohibit configuration from wireless LAN	If enabled, prevents access to settings screens from wirelessly connected devices (only wired devices may configure).
Prohibit configuration from wired LAN	If enabled, prevents access to settings screens from wired devices (only wirelessly connected devices may configure).
Permit configuration from wired Internet	If enabled, allows access to settings screens from network devices on the WAN (Internet) side.
Permitted IP address	Displayed only if Internet side configuration is enabled. Enter the IP address of a device that is permitted to configure the AirStation remotely from the WAN (Internet) side.
Permitted Port	Displayed only if Internet side configuration is enabled. Set a port number (1 - 65535) to configure the AirStation from the WAN (Internet) side.

Log

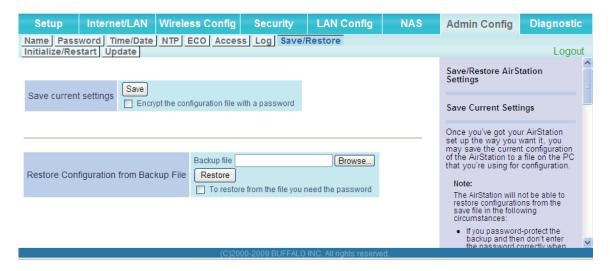
Transfer the AirStation's logs to a syslog server.



Parameter	Meaning
Log Transfer	Enable to send logs to a syslog server.
Syslog Server	Identify the syslog server by host name, host name with domain name, or IP address. You may enter up to 255 alphanumeric characters, hyphens (-), and underscores (_).
Transfer Logs	Choose which logs will be transferred to the syslog server.

Save/Restore

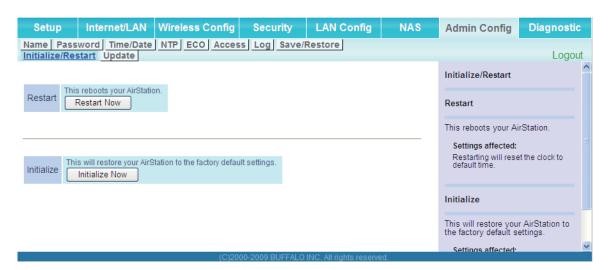
Save AirStation settings as a file, and restore from them later.



Parameter	Meaning
Save current settings	Clicking [Save] will save the current configuration of the AirStation to a file. If the [Encrypt the configuration file with a password] option is checked, then the configuration file will be password protected with the current Administrator Password.
Restore Configuration from Backup File	Restore the configuration of the AirStation from a saved configuration file by clicking the [Browse] button, navigating to the configuration file, and then clicking Restore. If the configuration file was password protected, then put a check next to [To restore from the file you need the password], enter the password, and click [Open].

Initialize/Restart

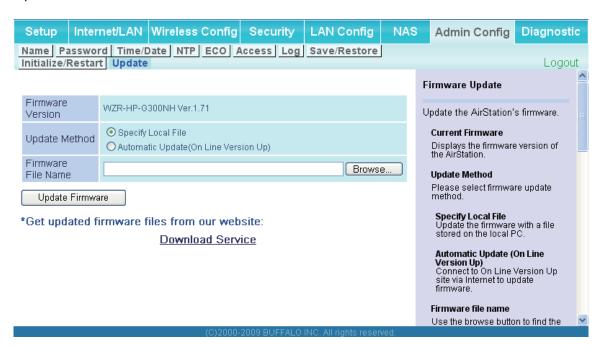
Initialize or restart the AirStation.



Parameter	Meaning
Restart	Click [Restart Now] to restart the AirStation.
Initialize	Click [Initialize Now] to initialize and restart the AirStation.

Update

Update the AirStation's firmware.

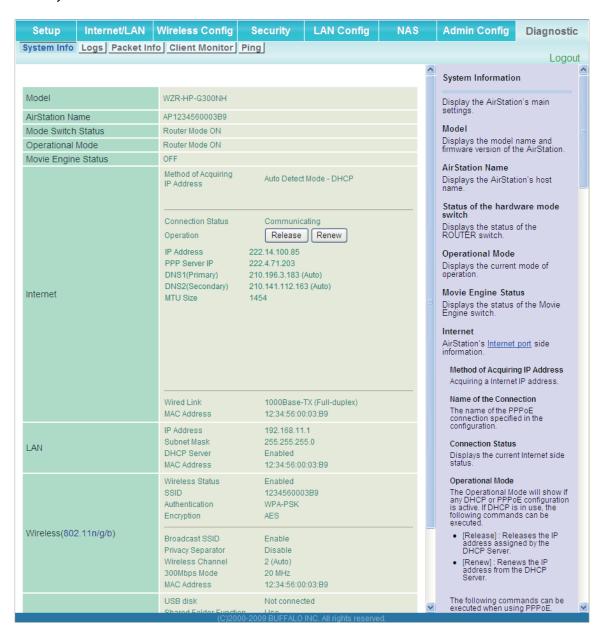


Parameter	Meaning
Firmware Version	Displays the current firmware version of the AirStation.
Update method	Specify Local File Updates the firmware stored on your computer.
	Automatic Update (On Line Version Up) Automatically updates the latest firmware that is available online.
Firmware File Name	Click [Browse] to specify a firmware file and click [Update Firmware.] You don't need to specify the firmare lodcation if selecting [Automatic Update].

Diagnostic

System Info

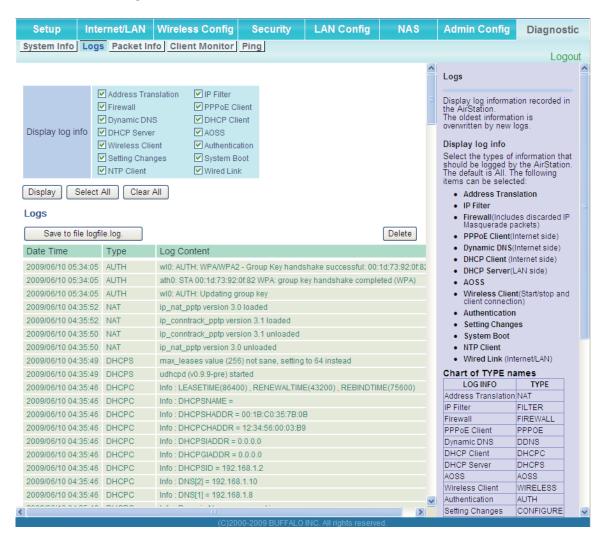
View system information for the AirStation.



Parameter	Meaning
Model	Displays the product name of the AirStation and the firmware version.
AirStation Name	Displays the AirStation Name.
Mode Switch Status	Displays the status of the mode switch on the back of the AirStation.
Operational Mode	Displays the current operational mode of the AirStation.
Movie Engine Status	Displays the current Movie Engine Status.
Internet	Displays the information about the Internet port.
LAN	Displays the information about the LAN port.
Wireless	Displays the wireless status.
NAS	Displays the information about USB disk.

Logs

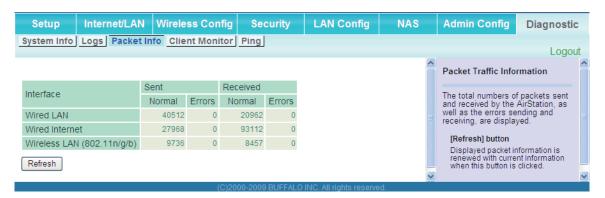
The AirStation's logs are recorded here.



Parameter	Meaning
Display log info	Choose the types of logs to display.
Logs	Displays the log information recorded in the AirStation.

Packet Info

Viewpacket transfer information.



Parameter	Meaning
Sent	Displays the number of packets sent to the Internet side of Ethernet, the LAN side of the Ethernet, and the LAN side of the wireless connection.
Received	Displays the number of packets received from the Internet side of Ethernet, the LAN side of the Ethernet, and the LAN side of the wireless connection.

Client Monitor

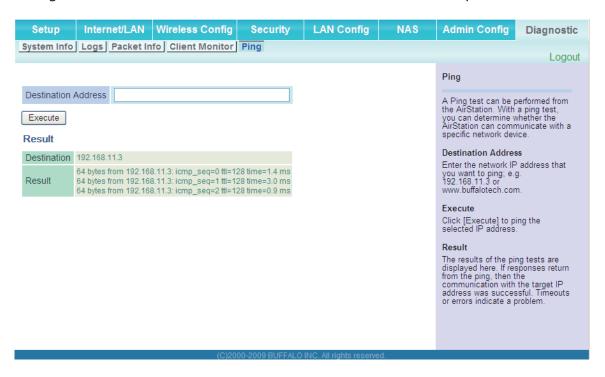
This screen shows devices that are connected to the AirStation.



Parameter	Meaning
Client Monitor	Displays information (MAC address, lease IP address, host name, communication method, wireless authentication and 802.11n) for devices that are connected to the AirStation.

Ping

A Ping test checks whether the AirStation can communicate with a specific network device.



Parameter	Meaning
Destination Address	Enter an IP address or a host name of the device for which you try to verify the connection, and click [Execute]. The result will be displayed in the [Result] field.

Note: Examples in this manual show the [User-friendly] firmware. The dd-wrt based Professional firmware is somewhat different. For more information on the Professional firmware, visit dd-wrt's website at **www.dd-wrt.com**.

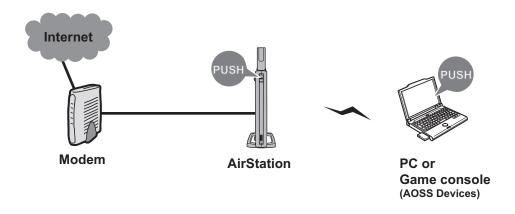
Chapter 5 Connect to a Wireless Network

Automatic Secure Setup (AOSS/WPS)

AOSS and WPS are systems which enable you to automatically configure wireless LAN settings. Just pressing the buttons will connect wireless devices and complete security settings. Easily connect to any wireless devices, computers, or game machines which support AOSS or WPS.



AOSS (AirStation One-Touch Secure System) was developed by Buffalo Technology. WPS was created by the Wi-Fi Alliance.



- Before using AOSS or WPS to connect to a Buffalo wireless client, install Client Manager software from the included AirNavigator CD. Consult your wireless client's documentation for more information.
- Buffalo's Client Manager software can be used with the wireless LAN devices built into your computer. However, it is not guaranteed to work with all wireless LAN devices available. Some wireless clients may require manual setup.

Windows 7/Vista (Client Manager V)

If you are using Windows 7/Vista, use the included Client Manager V software to connect wirelessly with AOSS/WPS.

- 1 Click the icon in the system tray.
- BUFFALO
 Client Manager V Ver 1.3.7

 BUFFALO
 WLI-UC-G300N

 Profile (Disconnected)
 Transmission Speed ---

When the screen at left is displayed, click [Create Profile].

3 When the message [A Program needs your permission to continue] appears, click [Continue].

Create Profile
Advanced

Click the [WPS AOSS] button. 4 Create profile Perform setup of wireless connection to the AirStation BUFFALO WLI-UC-G300N Wireless Adapter Select the Setup Method Automatic Secure Setup (((<mark>|</mark>|))) Perform connection and security configuration automatically. Advanced Setup Select a Network Name (SSID) or enter the SSID, then connect manually Otherwise connect with WPS-PIN method. Client Manager V Ver.1.3.7 Option (Expert only)

Follow any instructions displayed on the screen. When the Security LED on the front of the AirStation stops flashing and is lit steadily, the connection is complete.

Windows XP (Client Manager 3)

If you are using Windows XP, use Client Manager 3 to connect wirelessly with AOSS/WPS.

1 Right-click on the ? icon in the system tray, and select [Profile].



Click the [WPS AOSS] button.

Follow any instructions displayed on the screen. When the Security LED on the front of the AirStation stops flashing and is lit steadily, the connection is complete.

Other Devices (e.g. Game Console)

If you are using a game machine which supports AOSS or WPS, refer to that device's manual to initiate AOSS/WPS. When instructed, hold down the AOSS button on the AirStation for 1 second.

When the Security LED stops blinking and is lit steadily, the connection is complete.

Manual Setup

You can also connect to the AirStation without installing Client Manager V or Client Manager 3 by using the utility built-in to Windows. The procedure varies depending on which version of Windows you are using.

Windows 7 (WLAN AutoConfig)

With Windows 7, use WLAN AutoConfig to connect to the AirStation.

1 Click on the network icon in the system tray.





Select the target AirStation's name and click [Connect]. If you will be connecting to this device in the future, checking [Connect automatically] is recommended.

3

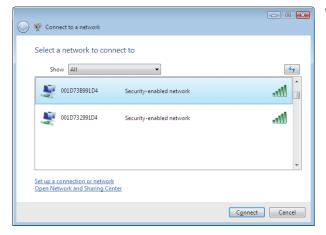


Enter the encryption key and click [OK].

Windows Vista (WLAN AutoConfig)

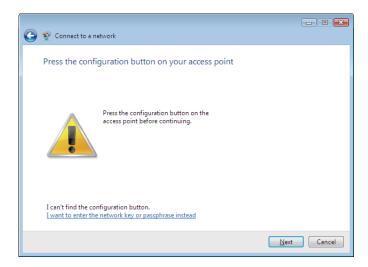
With Vista, use WLAN AutoConfig to connect to the AirStation.

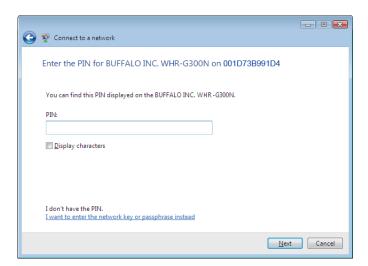
- 1 Right-click on the wireless network icon in the system
- 2 Click [Connect to a network].
- 3



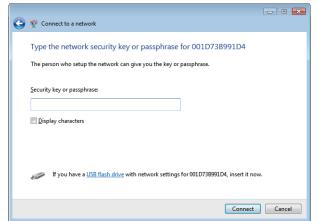
When the screen at left is displayed, select the network to connect to and click [Connect].

If the screen below is displayed, click [I want to enter the network key or passphrase instead]. Otherwise, go to step 4.









Enter the encryption key and click [Connect].

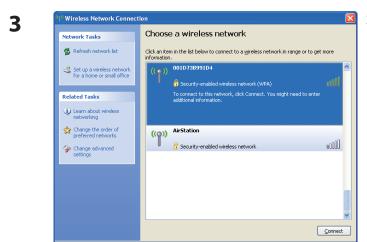
Step through the wizard to finish configuration. If the Set Network Location screen is displayed, select [Home], [Work], or [Public location] depending where you're using the AirStation.

Windows XP (Wireless Zero Configuration)

Windows XP includes a built-in utility to connect to your AirStation.

Note: If Client Manager 3 is installed on your computer, Wireless Zero Configuration is disabled. Uninstall Client Manager 3 to use Wireless Zero Configuration, or just use Client Manager 3 to connect to the AirStation.

- 1 Right-click on the wireless network icon displayed in the system tray.
- **2** Click [View Available Wireless Networks].



Select the network to connect to and click [Connect].



Enter the encryption key (twice) and click [Connect].

Follow the instructions displayed on the screen to finish configuration.

Chapter 6 Trouble Shooting

Cannot connect to the Internet over wired connection.

- Make sure that your AirStation is plugged in!
- Check that the status LEDs of your AirStation are lit as below:

Power Green light is ON

Wireless Green light is ON or flashing

Router Green light is ON or OFF (depending on your environment)

Diag OFF

LAN Green light is ON or flashing Internet Green light is ON or flashing

- Make sure that your computer is set to [obtain an IP address automatically]. (see appendix C)
- Restart your AirStation.

Cannot access the web-based configuration utility.

- See chapter 4 for instructions to open the AirStation's configuration utility.
- Enter the correct user name and password to login to the configuration screen. The factory defaults are [root] (in lower case) for the user name and a blank password (enter nothing). If you changed the password, enter the new password that you set.
- Verify that your web browser is not set to use proxies.
- Make sure that your computer is configured to [Obtain an IP Address Automatically.] (see appendix
 C)
- Restart your AirStation.

Cannot connect to the network wirelessly.

• Configure your wireless client with the same SSID, encryption type, and encryption key as set on the AirStation.

The factory defaults are:

SSID - The AirStation's MAC address (printed on the label)

Encryption Type - WPA/WPA2 mixed mode - PSK (Connect with either WPA-PSK TKIP or

WPA2-PSK AES).

Encryption Key - Printed on the label of the AirStation (if not, the AirStation is not

encrypted in the default configuration.)

• Place your AirStation and wireless devices 2 - 10 feet apart.

Restart your AirStation.

You forgot AirStation's SSID, Encryption Key, or Password.

Hold down the Reset button on the base of your AirStation for 3 seconds to initialize its settings. All settings, including your password, SSID, and encryption key will be initialized to their defaults. The factory defaults are:

SSID - The AirStation's MAC address (printed on the label)

Encryption Type - WPA/WPA2 mixed mode - PSK (Connect with either WPA-PSK TKIP or

WPA2-PSK AES).

Encryption Key - Printed on the label of the AirStation (if not, the AirStation is not

encrypted in the default configuration.)

The link speed is slower than 300 Mbps (Maximum link speed is only 150Mbps).

By default, the AirStation's 300 Mbps mode is not enabled. You may enable it with the following procedure:

- 1. Open the configuration utility (chapter 4).
- 2. Click [Wireless SSID & Channel (11n 300Mbps Mode)] in Easy Setup.
- 3. Change the value in [300Mbps Mode] [Band Width] to 40 MHz and click [Apply].

If you still cannot connect at 300 Mbps, check the settings of your wireless client device.

Other Tips

Issue:

I reset my wireless router to factory settings and forgot how to log in to the configuration utility.

Answer:

Open your browser and enter 192.168.11.1 in the address bar. Hit the Enter key. You will be prompted to log in. Enter "root" for the username and leave the the password box empty (no password). Click [OK] to complete the login and the option to reset your password will be available on the first page.

Issue:

How do I forward ports on my wireless router for my gaming console?

Answer:

Log in to the router's configuration utility. From the home page, go to the Internet Game/ Port Mapping section. Enter the port that needs to be forwarded and the IP address of the gaming console.

Issue:

How do I enable or modify security encryption settings on the wireless router?

Answer:

Log in to the configuration utility with your browser. Go to the Wireless Config tab and then select the Security tab. Buffalo recommends WPA for wireless encryption. The passphrase/key should be at least 8 characters in length.

Issue:

How do I change my wireless router's broadcasted network name (SSID)?

Answer:

Log in to the configuration utility. Go to the Wireless Config tab and then select the Basic tab if necessary. Find the settings area for SSID. Select the [Use] radio button and enter the name you

wish to use for your network in the text field provided. Click [Apply] to save the settings. Once the wireless router has rebooted, you will need to manually select the new network name for all wireless devices and enter your encryption key if necessary.

Issue:

What can I do if my wireless connection drops randomly or seems slow?

Answer:

There are many environmental factors that may cause this. First, ensure the issue is not range related by moving the wireless router and the client device closer together. If the the connection drops continue, continue, then range is probably not the issue.

Other 2.4 GHz devices such as microwaves, other wireless networks, and 2.4 GHz wireless phones may impact performance. Try a different wireless channel for your wireless router. Log in to the wireless router with your browser. Click on the Wireless Config tab and then the Basic tab. Wireless channels from 1 - 11 may be selected. Try the Auto-Channel option if available. Otherwise, manually select an alternate channel and click [Apply].

Issue:

Though I am able to successfully make a connection with my wireless router, I am unable to access the Internet with my web browser.

Answer:

First, power off the cable or DSL modem, the wireless router, and your computer. Move the router's mode switch to the *on* position. Verify that the modem is connected to the wireless router with an Ethernet cable to the WAN port. Power on the modem and wait one minute. Power on the wireless router and wait another minute. Power on the computer. Open a browser on the computer and navigate to a familiar website to verify whether the Internet connection is functioning normally. If after these steps, an Internet connection is still unavailable, power off the cable or DSL modem and computer again and connect your computer directly to the modem with an Ethernet cable. Power on the modem and wait one minute. Power on the computer and again check for an Internet connection.

If an Internet connection is *not available* with a direct connection to the computer, please call the Internet Service Provider who installed the modem.

If an Internet connection is available with a direct connection to the computer, please call Buffalo Technology's customer support.

Issue:

Where can I download the latest drivers, firmware and instructions for my Buffalo wireless products?

Answer:

The latest drivers and firmware are available online at **www.buffalotech.com**

Appendix A Specifications

Wireless LAN Interface		
Standard Compliance	IEEE802.11b / IEEE802.11g / IEEE802.11n	
Transmission Method	Direct Sequence Spread Spectrum (DSSS), OFDM, MIMO	
Frequency Range	2,412 - 2,462MHz (Channels 1 - 11)	
Transmission Rate	802.11b/g:	
	54, 48, 36, 24, 18, 12, 9, 6, 11, 5.5, 2, 1Mbps	
	802.11n	
	20MHz BW	
	(LongGl) 130, 117, 104, 78, 52, 39, 26, 13Mbps (2 stream)	
	65, 58.5, 52, 39, 26, 19.5, 13, 6.5Mbps (1 stream) (ShortGl) 130, 115.5, 86.6, 57.7, 43.3, 28.8, 14.4Mbps (2 stream)	
	65, 72.2, 57.8, 43.3, 28.9, 21.7, 14.4, 6.5Mbps (1 stream)	
	40MHz BW	
	(LongGl) 270, 243, 216, 162, 108, 81, 54, 27Mbps (2 stream)	
	135, 121.5, 108, 61, 54, 40.5, 27, 13.5Mbps (1 stream)	
	(ShortGl) 300, 270, 240, 180, 120, 90, 60, 30Mbps (2 stream)	
	150, 135, 120, 90, 60, 45, 30, 15Mbps (1 stream)	
Access Mode	Infrastructure Mode	
Security	AOSS, WPA2-PSK (TKIP/AES), WPA/WPA2 mixed PSK, WPA-PSK (TKIP/AES),	
	128/64bit WEP, Mac Address Filter	
Wired LAN Interface		
Standard Compliance	IEEE802.3u (100BASE-TX), IEEE802.3 (10BASE-T)	
Transmission Rate	10 / 100 / 1000 Mbps	
Transmission Encoding	1000BASE-T 4DPAM5, 100BASE-TX 4B5B/MLT-3, 10BASE-T Manchester Cording	
Access Method	CSMA/CD	
Speed and Flow Control	10/100/1000 Mbps, Auto Sensing, Auto MDIX	
Number of LAN Ports	4	
LAN Port Connector	RJ-45	
USB Interface		
Interface	USB 2.0	
Connector Type	Type A (plug)	

Compliance	5.0 V 500 mA (Max. 1000 mA)	
Other		
Power Supply	External AC 100-240 V Universal, 50/60 Hz	
Power Consumption	About 14.0 W (Max)	
Dimensions	165 mm x 158 mm x 30 mm (6.5" x 6.2" x 1.2")	
Weight	338 g (12 oz.) (not including the stand)	
Operating Environment	0 - 40° C (32 - 104° F), 20 - 80% (non-condensing)	

Appendix B Default Configuration Settings

Feature	Parameter	Default Setting	
Internet	Method of Acquiring IP Address	Perform Easy Setup (Internet Connection Wizard)	
(Router Mode only)	Default Gateway	none	
	Address of DNS Name Server	none	
	Internet MAC Address	Use Default MAC Address	
	MTU Size of Internet Port	1500 Bytes	
PPPoE	Default PPPoE Connection	No Active Session	
(Router Mode only)	IP Unnumbered PPPoE Connection	No Active Session	
	PPPoE Connection List	none	
	Preferred Connections	none	
DDNS	Dynamic DNS Service	Disabled	
(Router Mode only)	Current Dynamic DNS Information	none	
VPN Server	LAN Side IP Address	192.168.11.1(255.255.255.0)	
(Router Mode only)	DHCP Server Function	Enabled	
	DHCP IP Address Pool	192.168.11.2 for up to 64 Address(es)	
	PPTP Server Function	Disabled	
	Authorization Type	MS-CHAPv2 (40/128-bit Encryption)	
	Server IP Address	Auto	
	Client IP Address	Auto	
	DNS Server IP Address	LAN IP address of the AirStation	
	WINS Server IP Address	None	
	PPTP User List	None	

Feature	Parameter	Default Setting
LAN	LAN Side IP Address	Router Mode (Router Switch AUTO/ON): 192.168.11.1 (255.255.255.0)
		Bridge Mode (Router Switch OFF): 192.168.11.100 (255.255.255.0)
		Bridge Mode (Router Switch AUTO): Obtain automatically from DHCP Server
	DHCP Server Function (Router Mode only)	Enabled
	DHCP IP Address Pool (Router Mode only)	192.168.11.2 for up to 64 Addresses
	LAN Side IP Address (IP Unnumbered) (Router Mode only)	none
	Lease Period (Router Mode only)	48Hours
	Default Gateway (Router Mode only)	AirStation's IP Address
	DNS Servers (Router Mode only)	AirStation's IP Address
	WINZ Server (Router Mode only)	Do Not Specify
	Domain Name (Router Mode only)	Assigned Domain Name
	Default Gateway (Bridge Mode only)	none
	DNS Server Address (Bridge Mode only)	none
DHCP Lease (Router Mode only)	Current DHCP Client Information	none
NAT	Address Translation	Enabled
(Router Mode only)	Log Output of Deleted Packets	Disabled
Route	Routing Information	none

Feature	Parameter	Default Setting	
WPS	WPS	Enabled	
	External Registrar	Enabled	
	AirStation PIN	An 8-digit random value (Printed on the label of the AirStation)	
	WPS Security Information	WPS status: configured SSID: AirStation's MAC Address Security: WPA/WPA2 mixedmode - PSK TKIP/AES mixedmode Encryption key: A 13-digit random value or disabled. (Printed on the label of the AirStation if enabled.)	
AOSS	Encryption Type of Exclusive SSID for WEP	None	
	Encryption level expansion function	Enabled	
	Dedicated WEP SSID isolation	Disabled	
	Dedicated WEP for game consoles	Enabled	
	AOSS Button on the AirStation Unit	Enabled	
Basic	Wireless Radio	Enabled	
	Wireless Channel	Auto Channel	
	300Mbps Mode	Band Width: 20MHz Extension Channel: -	
	Broadcast SSID	Allow	
	Separate feature	not used	
	SSID	Use AirStation's MAC address	
	Wireless authentication	WPA/WPA2 mixedmode - PSK, or no authentication	
	Wireless encryption	TKIP/AES mixedmode, or no encryption	
	WPA-PSK (Pre-Shared Key)	A 13-digit random value or disabled (Printed on the label of the AirStation if enabled.)	
	Rekey interval	60 minutes	
Advanced	Multicast Rate	Auto	
	DTIM Period	1	
	Privacy Separator	Disabled	

Feature	Parameter	Default Setting		
WMM	WMM-EDCA Parameters		For AP	For STA
	(Priority AC_BK (Low))	CWmin	15	15
		CWmax	1023	1023
		AIFSN	7	7
		TXOP Limit	0	0
		Admission Control		Disabled
	WMM-EDCA Parameters		For AP	For STA
	(Priority AC_BE (Normal))	CWmin	15	15
		CWmax	63	1023
		AIFSN	3	3
		TXOP Limit	0	0
		Admission Control		Disabled
	WMM-EDCA Parameters		For AP	For STA
	(Priority AC_VI (High))	CWmin	7	7
		CWmax	15	15
		AIFSN	1	2
		TXOP Limit	94	94
		Admission Control		Disabled
	WMM-EDCA Parameters		For AP	For STA
	(Priority AC_VO (Highest))	CWmin	3	3
		CWmax	7	7
		AIFSN	1	2
		TXOP Limit	47	47
		Admission Control		Disabled
MAC Filter	Enforce MAC Filter	Disabled		
	Registration List	none		
Multicast	Snooping	Enabled		
Control	Multicast Aging Time	300 Sec.		
WDS	WDS	Use		
	Specify Master/Slave	Master		
Firewall	Log Output	Disabled		
(Router Mode only)	Basic Rules	Prohibit NBT and Microsoft-DS Routing Disabled Reject IDENT Requests Enabled Block Ping from Internet Enabled		

Feature	Parameter	Default Setting	
IP Filter	Log Output	Disabled	
(Router Mode only)	IP Filter Information	none	
VPN Pass	IPv6 Pass Through	Disabled	
Through	PPPoE Pass Through	Disabled	
(Router Mode only)	PPTP Pass Through	Enabled	
Port Forwarding (Router Mode only)	Port Forwarding Registration Information	none	
DMZ (Router Mode only)	IP Address of DMZ	none	
UPnP (Router Mode only)	UPnP	Enabled	
QoS (Router Mode only)	QoS for transmission to the Internet	Disabled	
Movie Engine	Movie Engine switch status	OFF	
	IPv6 Pass Through	Use	
	Multicast Rate	11 Mbps	
	Multicast Control	Snooping Function Use Aging Time Seconds Change Priority VI (priority)	
	TCP Rwin Size Limit	Size Limit No limit Maximum Rwin Size 65536 bytes	
	Wireless Priority Control Rules	None	
	Transmission Rate Limit	No Limits	
Disk	Automatic USB Disk Assignment	Use	
Management	FAT format file name character code	North America (CP437)	
	HDD power-saving function	Not used HDD stop time 10 Minutes	
Shared Folder	Access Limits	No Limits (Read/Write)	
	Web Access	Use Access Limits	
User Management	Current Users	guest	

Feature	Parameter	Default Setting	
Shared Service	Shared Folder	Enabled	
	AirStation Name	AP + AirStation's MAC Address	
	AirStation Description	None	
	Workgroup Name	WORKGROUP	
	Windows Client Language	North America (CP437)	
	Shared Service	None	
Web Access	Web Access	Disabled	
	Web Access Display Language	English	
	HTTPS/SSL Encryption	Disabled	
	Web Access External Port	Auto (Port Number:9000)	
	DNS Service Host Name	Use BuffaloNAS.com registration function	
	Web Access status	None	
Media Server	Media Server	Disabled	
	Status	None	
BitTorrent	BitTorrent Function	Disabled	
	External Port Number	Auto (Port Number: 9002)	
	Bandwidth Restriction	Enabled Maximum Download Speed 1000kB/s Maximum Upload Speed 200kB/s	
	BitTorrent Status	None	
Name	AirStation Name	AP + AirStation's MAC Address	
	List Network Services	Enabled	
Password	Administrator Name	root (fixed)	
	Administrator Password	none	
Time/Date	Local Date	2009 Year 1 Month 1 Day	
	Local Time	0 Hour 0 Minute 0 Seconds	
	Time Zone	(GMT-06:00)Central Standard Time: CST, or (GMT+00:00) Greenwich Mean Time, London	
	DST(Daylight Saving Time)	USA (From Second Sunday in Mar to first Sunday in Nov), or disabled	
NTP	NTP Functionality	Enabled	
	NTP Server	time.nist.gov	
	Update Interval	24 hours	

Feature	Parameter	Default Setting			
ECO	schedule Feature	Disabled			
	Register schedule	Operational Mode:	Normal		
		Start time:	0:00		
		End time:	0:30		
		The day of week:	none		
	User Define Mode	LED:	Off		
		Wired LAN:	ECO (Slow operation)		
		Wireless LAN:	Off		
Access	Log Output	Disable			
	Limitation Item	Prohibit configuration	Prohibit configuration from wireless LAN Disabled Prohibit configuration from wired LAN Disabled Permit configuration from wired Internet Disabled		
Log	Log Transfer	Disabled			
	Syslog Server	none	none		
	Transfer Logs	Client, Dynamic DN AOSS, Wireless Clien Changes, System Bo Bridge Mode: IP Filter, DHCP Clien Authentication, Set	Address Translation, IP Filter, Firewall, PPPoE Client, Dynamic DNS, DHCP Client, DHCP Server, AOSS, Wireless Client, Authentication, Setting Changes, System Boot, NTP Client, and Wired Link		

Appendix C TCP/IP Settings in Windows

Windows 7

To configure TCP/IP in Windows 7, follow the procedure below.

- 1 Click [Start] > [Control Panel] > [Network and Internet].
- **2** Double click [Network and Sharing Center].
- **3** Click [Change Adapter Settings] on the left side menu.
- 4 Right click on [Local Area Connection], then click [Properties].
- 5 If the message "Windows needs your permission to continue" appears, click [Continue].
- **6** Select [Internet Protocol Version 4 (TCP/IPv4)] then click [Properties].
- **7** Select [Obtain an IP address automatically] and [Obtain DNS server address automatically], then click [OK].
- 8 Click [OK].

Windows Vista

To configure TCP/IP in Windows Vista, follow the procedure below.

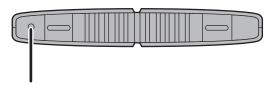
- 1 Click [Start] > [Settings] > [Control Panel].
- **2** Double click [Network and Sharing Center].
- 3 Click [Manage network connections] on the left side menu.
- 4 Right click on [Local Area Connection], then click [Properties].
- **5** When the message "Windows needs your permission to continue" appears, click [Continue].
- **6** Select [Internet Protocol Version 4 (TCP/IPv4)] then click [Properties].
- **7** Select [Obtain an IP address automatically] and [Obtain DNS server address automatically], then click [OK].
- 8 Click [Close].

Windows XP

To configure TCP/IP in Windows XP, follow the procedure below.

- 1 Click [Start] > [Settings] > [Control Panel].
- **2** Double click [Network].
- Right click on [Local Area Connection], then click [Properties].
- 4 Select [Internet Protocol (TCP/IP)], then click [Properties].
- Select [Obtain an IP address automatically] and [Obtain DNS server address automatically], and then click [OK].
- 6 Click [Close].

Appendix D Restoring the Default Configuration



With the AirStation powered on, hold down this button for 3 seconds to return it to factory default settings.

Appendix E Shared Folders and the USB Port

There are several restrictions on using the AirStation's USB port:

- Bus-powered hard drives are not supported. Always use the hard drive's AC adapter.
- When using two-byte characters (such as Japanese), keep folder and file names within 80 characters (160 bytes). You may not be able to copy a folder or a file whose name length is more than 80 characters.
- The AirStation doesn't support hidden or read-only attributes for files and folders.
- When using access restrictions, you can register up to 16 users for the AirStation.
- Please note that you are not allowed to use any of the following words as a user or group name: adm, administrator, all, bin, daemon, disk, ftp, guest, halt, hdusers, kmen, lp, mail, man, news, nobody, nogroup, none, operator, root, shadow, shutdown, sshd, sync, sys, ttyusers, utmp, uucp, www.
- Please note that you are not allowed to use any of the following words as a shared folder name: global, homes, printers, bittorrent, disk1_pt1, disk1_pt2, disk1_pt3, disk1_pt4, disk2_pt1, disk2_pt2, disk2_pt3, disk2_pt4, disk3_pt2, disk3_pt3, disk3_pt4, disk4_pt1, disk4_pt2, disk4_pt3, disk4_pt4.
- If shared folder names, work group names and file names contain any of the following characters, you may not access data or manipulate files on the AirStation properly. In such a case, use a different character.
- If a file created on a Macintosh contains any of the following characters, it will not be displayed correctly under Windows OS. Also, you cannot copy or properly display a file when connecting via SMB from Mac OS X if it contains any of these characters:

- Cancelling or aborting a file copy may leave the file incomplete, and you may no longer be able to delete the incomplete file. This can also happen during a power outage or if the LAN cable is suddenly disconnected. If it happens, restart the AirStation, delete the file, and try copying the file again.
- Use the same user name and password for the AirStation as the user's Windows login. If they are different, the user may not be able to access shared folders with access restrictions on the AirStation.
- Date and Time stamps stored on the USB hard disk may be updated by the OS accessing the AirStation. File creation or access dates may not be maintained.

- The web-based configuration interface shows the size of hard drives in gigabytes (1,000,000,000 bytes); Windows drive properties shows hard drive sizes in gibibytes (1,073,741,824 bytes). The Windows value will be a smaller number.
- If you have logged in using a "guest" account from Windows 7, Vista, XP or 2000, access restrictions may not work properly. A "guest" account already exists on the AirStation by factory default.
- If you access a shared folder from a Macintosh computer, additional Mac OS X information files may be automatically generated. Do not delete these files from a Windows computer. Otherwise, you may no longer be able to access folders from a Macintosh.
- The following device types may be connected to the AirStation's USB connector: USB hard disks, USB memory, and USB card readers. Card readers with 5 or more slots are not supported. USB devices such as a digital cameras, CD/DVD drives, USB hubs, mice, and keyboards are not supported.
- Encrypted USB hard drives are not supported.
- Only one single drive may be connected to the AirStation's USB port at a time. Drives manufactured by other companies besides Buffalo Technology are not supported.
- If your hard disk has an auto power mode switch, move the switch to "manual" or "on". Leaving the switch set to "auto" may result in unpredictable behavior.
- Up to 4 partitions can be recognized on a USB hard disk.
- The following file systems are supported for USB hard disks: FAT12, FAT16, FAT32, and XFS.

Appendix F Regulatory Compliance Information

Federal Communication Commission Interference Statement

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 guarantee 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 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.

FCC Caution:

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

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.

Important Note - FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for uncontrolled equipment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

Industry Canada statement:

This device complies with RSS-210 of the Industry Canada 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.

Important Note - Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

EN60950-1: 2006

Safety of Information Technology Equipment

EN 50385: 2002

Product standard to demonstrate the compliance of radio base stations and fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to human exposure to radio frequency electromagnetic fields (110MHz - 40 GHz) - General public

EN 300 328 V1.7.1 (2006-10)

Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 301 489-1 V1.8.1 (2008-04)

Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-17 V1.3.2 (2008-04)

Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems, 5 GHz high performance RLAN equipment and 5,8GHz Broadband Data

Transmitting Systems.

This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 – 2483.5 MHz. For detailed information the end-user should contact the national spectrum authority in France.

C€ 0560 **①**

Česky[Czech]

Buffalo Technology Inc. tímto prohlašuje, že tento AirStation WZR-HP-G300NH je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.

Dansk[Danish]

Undertegnede Buffalo Technology Inc. erklærer herved, at følgende udstyr AirStation WZR-HP-G300NH overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.

Deutsch[German]

Hiermit erklärt Buffalo Technology Inc. dass sich das Gerät AirStation WZR-HP-G300NH in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.

Eesti[Estonian]

Käesolevaga kinnitab Buffalo Technology Inc. seadme AirStation WZR-HP-G300NH vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.

English

Hereby, Buffalo Technology Inc. declares that this AirStation WZR-HP-G300NH is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Español[Spanish]

Por medio de la presente Buffalo Technology Inc. declara que el AirStation WZR-HP-G300NH cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.

Ελληνική[Greek]

ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Buffalo Technology Inc. ΔΗΛΩΝΕΙ ΟΤΙ AirStation WZR-HP-G300NΗ ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.

Français[French]

Par la présente Buffalo Technology Inc. déclare que l'appareil AirStation WZR-HP-G300NH est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

Italiano[Italian]

Con la presente Buffalo Technology Inc. dichiara che questo AirStation WZR-HP-G300NH è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

Latviski[Latvian]

Ar šo Buffalo Technology Inc. deklarē, ka AirStation WZR-HP-G300NH atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.

Lietuvių[Lithuanian]

Šiuo Buffalo Technology Inc. deklaruoja, kad šis AirStation WZR-HP-G300NH atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.

Nederlands[Dutch]

Hierbij verklaart Buffalo Technology Inc. dat het toestel AirStation WZR-HP-G300NH in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.

Malti[Maltese]

Hawnhekk, Buffalo Technology Inc., jiddikjara li dan AirStation WZR-HP-G300NH jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.

Magyar[Hungarian]

Alulírott, Buffalo Technology Inc. nyilatkozom, hogy a AirStation WZR-HP-G300NH megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.

Polski[Polish]

Niniejszym, Buffalo Technology Inc., deklaruję, że AirStation WZR-HP-G300NH spełnia wymagania zasadnicze oraz stosowne postanowienia zawarte Dyrektywie 1999/5/EC.

Português[Portuguese]

Buffalo Technology Inc. declara que este AirStation WZR-HP-G300NH está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

Slovensko[Slovenian]

Buffalo Technology Inc. izjavlja, da je ta AirStation WZR-HP-G300NH v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.

Slovensky[Slovak]

Buffalo Technology Inc. týmto vyhlasuje, že AirStation WZR-HP-G300NH spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.

Suomi[Finnish]

Buffalo Technology Inc. vakuuttaa täten että AirStation WZR-HP-G300NH tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

Svensk[Swedish]

Härmed intygar Buffalo Technology Inc. att denna AirStation WZR-HP-G300NH står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Taiwan:

SAR compliance has been established in typical laptop computer(s) with CardBus slot, and product could be used in typical laptop computer with CardBus slot. Other application like handheld PC or similar device has not been verified, may not comply with related RF exposure rules, and such use shall be prohibited.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this manual and of the computer manufacturer must therefore be allowed at all times to ensure the safe use of the equipment.

來自台灣 NCC 的警告

第十二條:

經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、加 大功率或變更原設計之特性及功能。

第十四條:

低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用,並改善至無干擾時方得繼續使用。前項合法通信,指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

이 기기는 가정용으로 전자파적합등록을 한 기기로서 주거지역에서는 물론 모든 지역에서 사용할 수 있습니다.

해당 무선설비는 전파혼신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없음

Appendix G Environmental Information

- The equipment that you have purchased has required the extraction and use of natural resources for its production.
- The equipment may contain hazardous substances that could impact health and the environment.
- In order to avoid the dissemination of those substances in our environment and to diminish the pressure on the natural resources, we encourage you to use the appropriate take-back systems.
- The take-back systems will reuse or recycle most of the materials of your end life equipment in a sound way.
- The crossed-out wheeled bin symbol invites you to use those systems.



• If you need more information on the collection, reuse and recycling systems, please contact your local or regional waste administration.

Appendix H GPL Information

The source code for Buffalo products that use GPL code is available at http://opensource.buffalo.jp/.

Appendix I Warranty Information

Buffalo Technology (Buffalo Inc.) products come with a two-year limited warranty from the date of purchase. Buffalo Technology (Buffalo Inc.) warrants to the original purchaser the product; good operating condition for the warranty period. This warranty does not include non-Buffalo Technology (Buffalo Inc.) installed components. If the Buffalo product malfunctions during the warranty period, Buffalo Technology/(Buffalo Inc.) will, replace the unit, provided the unit has not been subjected to misuse, abuse, or non-Buffalo Technology/(Buffalo Inc.) authorized alteration, modifications or repair.

All expressed and implied warranties for the Buffalo Technology (Buffalo Inc) product line including, but not limited to, the warranties of merchantability and fitness of a particular purpose are limited in duration to the above period.

Under no circumstances shall Buffalo Technology/(Buffalo Inc.) be liable in any way to the user for damages, including any lost profits, lost savings or other incidental or consequential damages arising out of the use of, or inability to use the Buffalo products.

In no event shall Buffalo Technology/(Buffalo Inc.) liability exceed the price paid for the product from direct, indirect, special, incidental, or consequential damages resulting from the use of the product, its accompanying software, or its documentation. Buffalo Technology (Buffalo Inc.) does not offer refunds for any product.

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