



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



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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.

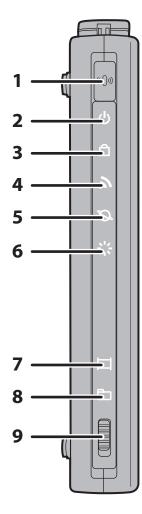
Package Contents

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

1
1
1
2
1
1
1

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 key.
- 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.
- *2 Never unplug the AC adapter while the Diag LED is blinking.

7 Movie Engine On LED (Blue)

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

8 Movie Engine Off LED (Blue)

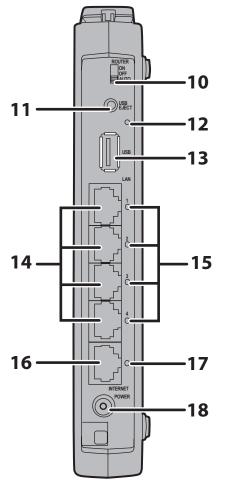
On:	Movie Engine functionality is disabled.
Off:	Movie Engine functionality is enabled.

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.

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
- 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

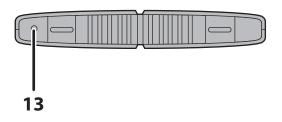
Connect your computer, hub, or other Ethernet devices to these ports. This switching hub supports 10Mbps,100Mbps, and 1000Mbps connections.

15 LAN LED (Green)

On: An Ethernet device is connected. Flashing: An Ethernet device is communicating.

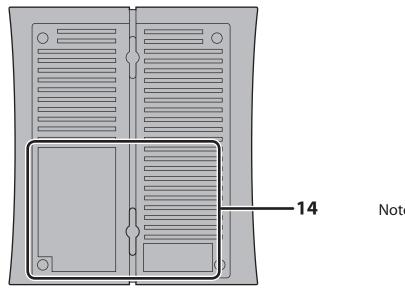
16 Internet Port	10Mbps, 100Mbps, and 1000Mbps connections are supported. Note: In bridge/AP mode (router switch off), the Internet port becomes a regular LAN port, for a total of 5 usable LAN ports.					
17 Internet LED (Gree	n)					
	On:	The Internet port is connected.				
	Flashing:	The Internet port is transmitting data.				
18 DC Connector	Connect t	he 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.

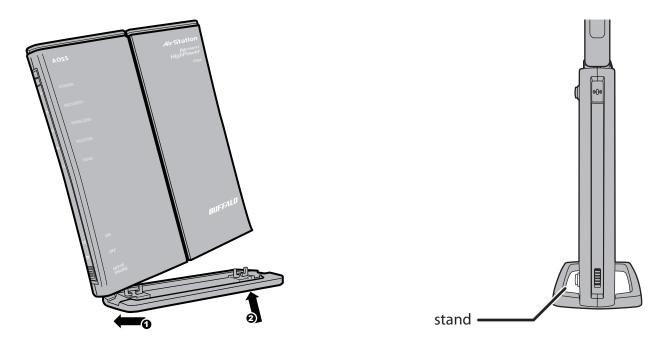
14 Factory Default Settings

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

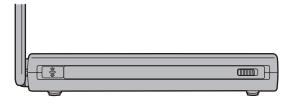
Vertical Placement

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

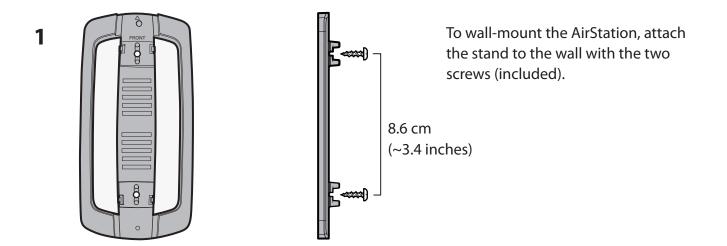


Horizontal Placement

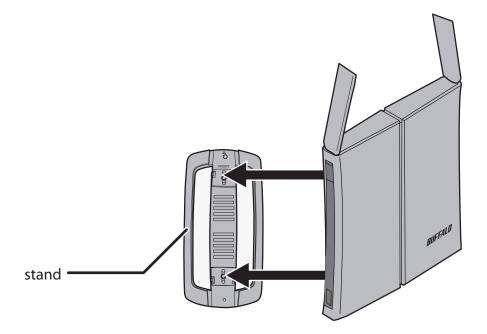
The stand is not used if the AirStation is placed horizontally.



Wall-Mounting



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



Chapter 3 Installation

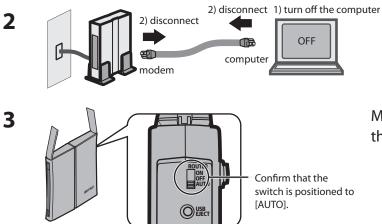
CD Setup

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.

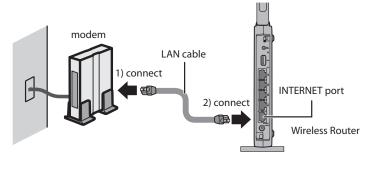
1 Turn off your computer and modem.



Unplug the LAN cable which connects your computer and modem.

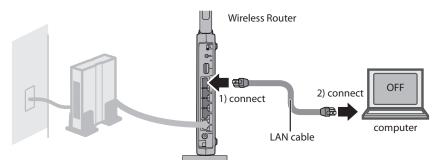
Make sure the mode switch on the back of the AirStation is in the [AUTO] position.

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.

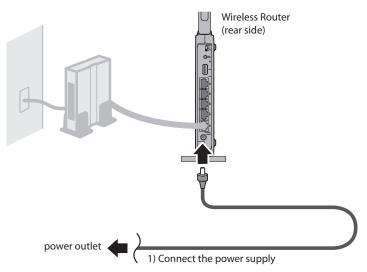


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5 Connect your computer to one of the AirStation's LAN ports with the LAN cable.



6 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.

8 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].

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

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

Program

5

4

Connect to 192.16	8.11.1
and password. Warning: This serv	8.11.1 at AirStation requires a username ver is requesting that your username and in an insecure manner (basic authentication connection).
<u>U</u> ser name:	🖸 root 👻
Password:	•••••
	Remember my password
	OK Cancel

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.

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6 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:

Setup	Wireless	Services	Security	Access R	Restrictions	NAT	/ QoS	Administration	Status	
Management	Keep Alive	Commands	WOL Fa	actory Defaults	Firmware U	pgrade	Backup			
Firmware N	1anagemen	t							Help	more
Firmware Up After flashing Please select	10.54	l	Don't reset	~		Brow	wse			vse, button to are file to be router. /e button to begin cess. Upgrade must
			g firmware i	R N I N G may take a fe er or press the		on!				
			Up	ograde						

User-friendly firmware update screen:

Setup	Internet/LAN	Wireless Config	Security	LAN Config	Admin Config	Diagnostic
	sword Time/Da estart Update	te NTP Access	Log Save/Re		Firmware Update	Logout
Firmware Version	WHR-HP-G300N Ve	er.1.61			Update the AirStation	n's firmware.
Firmware File Name				Browse	Current Firmware Displays the firmwa	re version of
Update F	irmware				the AirStation.	
*Get updat		es from our websi ownload Service	te:		Use the browse but firmware file that wil the AirStation.	ton to find the
		(C)2000-2009	BUFFALO INC. AII	I rights reserved.	"Browse" hutton	~

About this User Manual

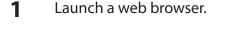
This user manual is primarily for AirStations with the User-friendly firmware. For more information on the Professional firmware (DD-WRT), refer to the WZR-HP-G300NH Professional Firmware user manual or to **www.dd-wrt.com/wiki**.

Chapter 4 Configuration

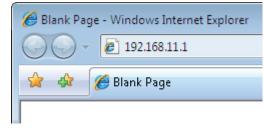
The web-based configuration tool lets you change advanced settings for the AirStation. Don't change these settings unless you know what you're doing.

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.



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.

 $\cdot\,$ If you changed the IP address of the AirStation, then use the new IP address.

3 Connect to 192.168.11.1 ? 🗙 The server 192.168.11.1 at AirStation requires a username and password. Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection). User name: 🕵 root • Password: Remember my password OK Cancel

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.

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4	etup ards & (Internet/LAN Overview	Wireless Cor	fig Security	LAN Config	NAS	Admin Config Diagnostic	This is the configuration utility, where most AirStation settings
B	Setup)			MODE Informat Router Mode ON Internet Inform (PPPoE Connect 1: Easy Setup(E Connection Condit	ation stion) Default)	10	Vizards & Overview Vizards for [Easy Setup] are on ne left. on overview of your AirStation's ystem information is displayed on he right.	can be configured.
ir X X C X	Wireles Wireles Nternet Window Window Wireles Other Update	s Encryption (WEP/) Games (Port Forwa rs Live (MSN) Messe s Multicast Rate AirStation Firmware AirStation	arding) enger	Check Co WIRELESS IEEE 802.11n/g, SSID 001 Authentication A02 Encryption A02 SSID 001 Authentication A03	Stop nnection Ref D738C6118 D738C6118 SS WPAWPA2 mixed SS TKIP/AES mixedm D738C6118-1 D738C6118-1	fresh dmode - node	And C Settings Run Internet Connection Wizard (Easy Setup) This Wizard scans your Internet connection and connects to the internet, Most Cable moderns will internet Connection Wizard is run. DBL: moderns may require PPPoE information, have it ready Your ISP can provide tims information if you don't have it. Wireless SSID & Channel	Help is always displayed on the right side of each screen. Refer to the Help screens for more information on using the
					Add Service List who Service List who and Manager Apply Mode All India Server		(11:300Mbps Mode) This Wizard lets you set an SSID (network name) and chose a wireless channel for your network. Wireless Encryption (MEPTIND AES) This Wizard lets you chose the type of encryption (MEPTIND AES) to use on your wireless network. Iternet Internet Games (Port Forwarding) This Wizard lets you set a <u>Static</u> Windows Like (MSN) Messenger	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.

lain 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

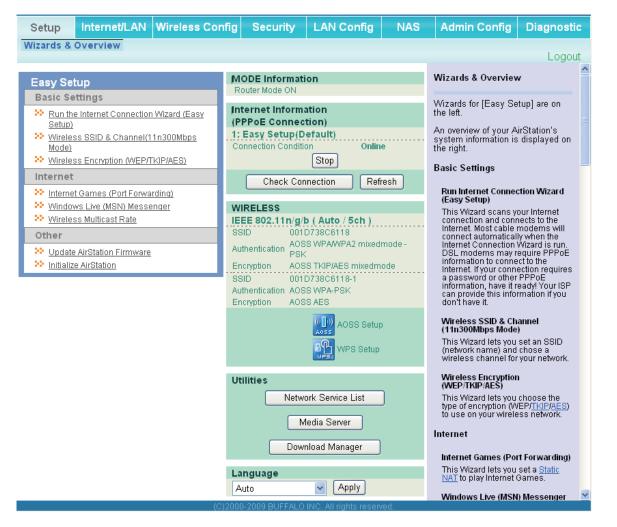
The menu structure in bridge mode is as follows. Please refer to the pages listed at right for explanations of each item.

lain 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 76
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 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	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.

Setup Internet/LAN Wir	eless Config	Security	LAN Config	NAS	S Admin Config	Diagnostic	
Internet PPPoE DDNS VPN Server LAN DHCP Lease NAT Route							
			_		Internet Ethernet Sett	^	
As for the IP address acquisition "Perform Easy Setup (Internet		ard)" is set up	o.		Configuring your Interne	et side port:	
To set up PPPoE, <u>click here</u> .					Normally, you'll connec Internet side port to an network such as the int	t the external ernet.	
Advanced Settings	Advanced Settings Method of Acquiring IP Address Select one of the following work not not a set of the following work not not not a set of the following work not						
Default Gateway					methods to acquire a <u>In</u> <u>IP Address</u> . Please ask <u>Provider</u> for any other in	your formation	
Address of DNS Name Server	Primary: Secondary:				Provider for any other in about your line format. sure which method to c selecting Easy Setup. confirm status of the cu	lf you're not hoose, try You can irrent	
Internet MAC Address	 Use Default I Use this add)0:1D:73:8C:61:18)		Internet side IP Address System Information scr setting can only be cha the hardware mode swit	een. This inged when tch on the	
MTU Size of Internet Port	1500	Bytes			AirSation is set to [ROU	,	
Apply Apply C(2000-2009 BUFFALO INC. All rights reserved.							

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.

Setup Internet/LAN Wireless Config Security LAN Config N/	AS Admin Config Diagnostic
Internet PPPoE DDNS VPN Server LAN DHCP Lease NAT Route	Logout
	PPPoE Settings
Default PPPoE Connection 1 : Easy Setup	If PPPoE is specified in the
IP Unnumbered PPPoE Connection 1 : Easy Setup	Internet side configuration, you'll have more detailed setup options on this page. To specify PPPoE as
Apply	on this page. To specify PPPoE as the <u>Internet</u> side communication method, on [Internet Setup]- [Internet Port], select [PPPoE Client Function] or select [Use IP Unnumbered].
PPPoE Connection List	Note: If (Acquire IP address
Number Name Status	automatically from DHCP server] or [Manual Setup] is set as the
1 Easy Setup Enable	Internet side communication method, or if something besides
Edit Connection List	PPPoE was detected when [Easy Setup] ran, it is not necessary to enter information on this page.
Preferred Connections	(Even if it is set, it is not used.)
No. Name Destination address Source address	Àdditionally, when [Easy Setup] is executed, information set on this page may be rewritten.
No Preferred Connections are Registered.	Default PPPoE Connection
Edit Preferred Connections	If multiple destinations are registered to the <u>PPPoE</u> <u>Destination List</u> , the destination
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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 th 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 57 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.

Setup Internet	LAN Wirel	ess Config	Security	LAN Config	NAS	Admin Config	Diagnostic	
Internet PPPoE DDNS VPN Server LAN DHCP Lease NAT Route								
						Dynamic DNS Sett	ings	
Apply	Apply						o. iis settings, for a dynamic r.	
						Dynamic DNS Serv	rice	
Current Dynamic DN	S Informatior	1				Select a dynamic DNS service provider.		
Internet Side IP Address	192.168.1.209					You can select "DynDNS" or "TZO".		
Domain Name	Disabled					 DynDNS 		
Status	Disabled					• TZO		
Refresh						The following values depending on your d service provider.	are different ynamic DNS	
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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.

Setup Inte	ernet/LAN	Wireless Config	Security	LAN Config	J NAS	Admin Config	Diagnostic		
Internet PPPoE DDNS VPN Server LAN DHCP Lease NAT Route									
Logout									
	VPN Server Settings								
The LAN side IP Therefore, a PC PC on the LAN. The LAN side IP	By using the PPTP server function it is possible to access the AirStation from the Internet and the LAN from a Windows PPTP client.								
Auto Input		Generate Recommen	ded IP Address			Note			
LAN Side IP Addre	IP Addre Subnet	ess 192.168.11.1 Mask 255.255.255.0	~			If using GRE protoc no.47) and no.1732 filtering, then this fu work correctly. Also, be aware that	2 TCP port inction may not		
DHCP Server Fund	ction 🔽 Enal	ble				the Internet side ha	is these		
DHCP IP Address	Pool 192.16	8.11.2 for u	ip to 64	Address(es)		function cannot be			
PPTP Server Fund	ction Enat					Auto Input			
Authorization Type		IAPv2 (40/128-bit Encry	ption) 🗸			Click this button to random IP address possibility of overlap	with a small		
		(addresses of other E	Buffalo routers.		
[Advanced Settin	ngsj					LAN Side IP Addre			
Server IP Address	 AL Ma 					Configure the AirSta Address. The defaul 192.168.11.1. If you connect the AirStati	t is want to		
Client IP Address	 AL Ma 		for up to	5 address(es)		existing LAN, specif unused <u>IP Address</u> range of IP addresse	y a unique, from the LAN's		
DNS Server IP Add	dress 🔿 Ma	N IP address of the AirS anual o Not Specify	tation			Subnet Mask Select the AirStation Subnet Mask. The c 255.255.255.0. If yo	lefault is u want to		
WINS Server IP Ad	Idress					connect the AirStati existing LAN, specif Mask the LAN uses	on to an fy the Subnet		
Apply									
						DHCP Server Fund Enable the DHCP S			
						default is enabled. If	there is		
PPTP User List						network, one DHCP disabled or the IP ra	server must be nges must be		
User Name Conn	ection Condit	ion IP Address Ope	eration			network, one DHCP server must be disabled or the IP ranges must be changed to avoid conflicts caused by overlapping DHCP scopes. If			
	No registere		DHCP Server is ena DHCP IP Address P	<u>'ool</u> doesn't					
Edit User Inform	ation					overlap existing <u>IP A</u> the LAN segment.	Addresses in		
						DHCP IP Address F	Pool		
Refresh						This determines the range from which IP be distributed to DH (both wired and wire the starting IP addre number of connectic allowed The default	addresses will CP clients less). Enter ess and the ons to be		

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.

Setup Internet	LAN Wireless Config	Security	LAN Config	NAS	Admin Config	Diagnostic
Internet PPPoE DDI	NS VPN Server LAN DI	HCP Lease NA	T Route			Logout
					LAN Side Ethernet	Settings
LAN Side IP Address	IP Address 192.168.11.1 Subnet Mask 255.255.255.0	~			Configure the AirStat <u>Address</u> , Subnet Ma DHCP Server setting	sk, and local
DHCP Server Function	Enable				you're a networking of default settings are r	expert, the
DHCP IP Address Pool	192.168.11.2 for Excluded IP Addresses:	up to 64	Address(es)		Note If you have an existin AirStation's configur	na LAN. the
LAN SIDE IF AUDIESS	IP Address Subnet Mask 255.255.255.0	~			changed to connect refer to <u>here</u> to set u AirStation on an exis	to it. Please ip your
	gs [Advanced Settings] Display				LAN Side IP Addree Configure the AirStat Address. The default 192.168.11.1. If you connect the AirStati existing LAN, specifi unused IP Address fi range of IP addresse	ion's LAN <u>IP</u> is want to on to an y a unique, rom the LAN's
					<	>

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.

Setup	Internet/LAN	Wireless Con	ifig \$	Security	LAN Config	NAS	Admin Config	Diagnostic
Internet PPP	Internet PPPoE DDNS VPN Server LAN DHCP Lease NAT Route							
							DHCP Lease Settin	^
Add Client In	formation						Add manual IP addre	ess
IP Address MAC Address Add							assignment, delete a Address assignment automatic assignme Manual assignmen Assign an IP address MAC address manu Up to 200 devices ca registered for manua	: or set nt to manual t s to specified ally. an be
Current DHC	P Client Inform	ation					Add/Edit Client info	ormation
IP Address	MAC Address	Lease Period	Status	Customize			This area is for addir	na or editina a
192.168.11.2(*)	00:1D:73:92:0F:82	46:48:26	Auto	Manual	Assignment		line.	
(*) The IP Add Refresh	(*) The IP Address of the client that is configuring this AirStation is(192.168.11.2) Refresh IP Address Enter an IP address for manual assignment. The default is blank in append mode. The current IP address is displayed in edit mode. The IP address is displayed in edit mode.						in append	

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.

Setup Internet/LAN Wirele	ess Config Security	LAN Config	NAS	Admin Config	Diagnostic
Internet PPPoE DDNS VPN Serv	er LAN DHCP Lease N	AT Route			Logout
Address Translation				Network Address T Settings	^
Log Output of Deleted Packets				Configure address tra connect the Internet Internet.	
Apply				Address Translation You can select wheth	
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Parameter	Mean	ing			
Address Translation Enable to use Network Address Translation.					
Log Output of Deleted Pac	kets Enable	e to log delete	ed packe	ts (such as erre	ors) during a

translation.

Route

Configure the AirStation's IP communication route.

Setup Interne	t/LAN Wireless Con	fig Security	LAN Config	NAS	Admin Config	Diagnostic
Internet PPPoE DDI	NS VPN Server LAN	DHCP Lease NA	Route			Logout
Add Routing					Routing Information	n 📩
Destination Address	P AddressSubnet Mask 255.255.255.0	~			Add/Edit Routing	<u>annanon</u> . E
Gateway Metric	15				This area is for addir	ng or editing a
Add	15				line. Destination Address Specify the destinat	-
Routing Information	Routing Information					IP address as [Host the subnet ering a destination,
	Subnet Mask Gateway I Configuration is not Register				specify the network subnet mask.	
Kouung	Configuration is not Register	su			Gateway Specify the IP addre gateway.	ss of the
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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.

Setup Inte	ernet/LAN Wire	eless Config	Security	LAN Config	NAS	Admin Config	Diagnostic
WPS AOSS Bas	ic(11n∕g∕b) Ad	vanced(11n/g/	′b) WMM(111	n∕g∕b) MAC Filt	er Multicas	t Control WDS	Logout
						WPS(WiFi Protecte	^
WPS	💌 enable					WPS	
External Registrar	💌 enable					Configuring WPS	ted Oatur
Apply						WPS is WiFi Protect which corresponds t	o Windows
AirStation PIN 12345670 Generate PIN Simple Configuration Protocol. Enrollee PIN OK OK					as the Wi-Fi n Protocol. afely and eless security access point		
WPS Security In	(Airstation) WPS Security Information						ich registers ormation is
WPS status	configure	d release]			called Registrar. The Airstation has a Registrar built-in it, t	n internal
11n/g/b	SSID Security Encryption	12345600 WPA-PSK n key 12345678	AES			The WPS device wh the wireless security from the Registrar is Enrollee.	gistrar. lich receives / information
						The default is Enable	<u> </u>

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.

Setup	Int	ternet/LAN Wireless (Config Security	LAN Config	NAS	Admin Config Di	agnostic	
WPS AOS	S Ba	sic(11n/g/b) Advance	d(11n/g/b) WMM	11n/g/b) MAC Filt	er Multicas	t Control WDS	Logout	
(([])) A055					^	AOSS (AirStation One-T Secure System)	fouch	
AOSS Set	tings	- Edit AOSS Client Info		technology for quickly for secure wireless connectio can see AOSS's configur status from this screen.	on. You			
	-	of Exclusive SSID for WEP	802.11n/g/b Stop					
						(()) AOSS [Start AOSS] butto	n	
Encryption	level t	expansion function	802.11n/g/b Enabled			Click this button to start A The AOSS button on top	AOSS.	
		SSID isolation		nabled, clients connecting	via WEP will	router works the same as button. Refer to <u>How to us</u> for more details.	this	
		or game consoles	802.11n/g/b Enable	9				
AOSS Butto	on on '	the AirStation Unit	Enable Enable			Disable AOSS] bu	tton	
Current Er Encryption Type		tion Information 802.11	n/g/b			This button appears when enabled. Click this button disable AOSS. Connectio wireless clients will be ter	AOSS is to ns to minated,	
SSID	001D	738C6118-1				AOSS Information remove Encryption Type reset to value, AES. Current Encry	its default	
Encryption key	a7iyr	y741w1sm				Value, AES. Current Encr Information will also be re Wireless Setting and Wire Security are enabled in A	moved. eless	
Encryption Type	WPAA	WPA2-PSK-mixed (Now in use)				Settings when AOSS is d	isabled.	
SSID	001D	738C6118				How to use AOSS: (1)First		
Encryption key	a7iyr	y741w1sm				Power on or reboot the AirStation and a wireless client that supports AOSS.		
Encryption	Type	WEP128				(2)Press AOSS buttons After rebooting, press bo product's AOSS buttons,	th	
SSID		6E30CC9C3D87668B1DE00	9D5614D1E95	1		router's first, then the clie AirStation and the wireles	ent's. The	
		614481CD72DB3AAAF32F0		J Conding Kath		will exchange security inf to set up the most secure	ormation	
		1872F3869E6916F395A111		(Sending Key)		encryption type automation are ready to communicat		
Encryption	key	D3070B55D871311C292249				Note:		
		A91E8EA2A31B0EB11AA38	6A3B84	Ī		 Once the AOSS butto pressed, other opera 		
Encryption	Tuno	WERA		-		be started until AOSS finished. If the AirStat	is	
SSID	Type	0C09AA29624E480D34ABF	87020163882	1		find a wireless client minutes, the AirStatio	n's status	
0012			0/020/133002]		 returns to its previous Up to 24 wireless clist 	ents may	
		F9DD71E867 70311BF41A		(Sending Key)		 bé connected through By default, AOSS is full 		
Encryption	key	5DDA4F5DCE				but does not initiate a connection unless st	1	
		73886A2B8C				manually by pushing button, either here or	the AOSS on the top	
Random KEY base Reset								
Apply • When wireless security is						client that B.		
						configured, it's secur information is succee	itý	
AOSS Clie	ent In	formation				In the following cases, the of wireless security is not	e setting	
Client Information MAC Address Encryption Type Wireless Connection Setting						succeeded and AOSS ret error.		
						 Any blank is containe WPA-PSK is input wit 	h	
Edit AOSS Client Information 'hexadecimal AOSS Ethernet Converter Information • Any blank is or PSK.								
						1 OIX		
Client Inforr	Client Information MAC Address Encryption Type							
			(C)2000-2009 BLIEF	ALO INC. All rights reserve	d 🔪	new encryption settings.	•	

WZR-HP-G300NH User Manual

Parameter	Meaning
(((]))) A055	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.
	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.

Setup Inter	rnet/LAN	Wireless Config	Security	LAN Config	NAS	6 Ad	min Config	Diagnostic
WPS AOSS Basic	C(11n∕g∕h	Advanced(11n/g	∕ ь) WMM(11 л	n∕g∕b) MAC F	ilter Mult	ticast Cor	ntrol WDS	Logout
						Bas	ic Wireless Set	^
Wireless Radio	🗹 Enable					You	i can set basic c	onfiguration
Wireless Channel	Auto Chann	el 👻 (Current Channel: 2	2)			info	rmation for your v nually here. If end	wireless LAN
300Mbps Mode Band Width : 20 MHz Extension Channel : 1							d, communicatio ablished just by t up. Encryption is ommended, howe	n will be his basic highly
Broadcast SSID	Allow						eless Radio	
Use Multi Secur	ity function					Un- wire	checking "Enable less LAN functio	nality. When
Separate feature		Use				disa	abled, all wireless uding broadcasti ault value is enab	s functionality, ng, is halted.
SSID		O Use AirStation's MAC	address(1234560	003B9)				led.
0010		O Enter :					eless Channel	
Wireless authentica	tion	WPA-PSK	*			(free	rmay specify a c quency band) for munication. If th	your wireless
Wireless encryption		AES 🗸				wire	eless clients near	the
WPA-PSK (Pre-Sha	red Key):	•••••				inte	Station, you may rference. Change	e to a different
Rekey interval :		60 minutes				cha	d preferably non- nnel in this case nnels vary with w	. Available /hich wireless
Apply						star cha cha 11n	ndard you're usin nnel is selected, nnel is selected /g/b : Auto, 1-11 fault value : Auto	g. When Auto a vacant automatically. Channel channel)
		<u>(C)200</u>	0-2009 BUFFALO	INC. All rights reser	rved.			×

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.

Setup	Internet/LAN	Wireless Config	Security	LAN Config	NAS	Admin Config	Diagnostic	
WPS AOSS Basic(11n/g/b) Advanced(11n/g/b) WMM(11n/g/b) MAC Filter Multicast Control WDS								
Multicast Rate	e Auto	1				Advanced Wireles (11n/g/b)	^	
DTIM Period	1					Specify Advanced V Settings.	Vireless	
Privacy Sepa	rator 📃 Enable					Multicast Rate		
Apply						You can select 1, 2, 12, 18, 24, 36, 48, 5 Auto. Default Value is "Au	4Mbps or	
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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.

Setup	Internet/LAN	Wireless (Config 💦	Security	LAN	Config	NAS	Admin Config	Diagnostic
WPS AOSS	Basic(11n/g/b)	Advanced	d(11n∕g∕b)	WMM(11	n∕g∕b)	MAC Filt	ter Multica	st Control WDS	
									Logout
								WMM Settings (11	n/g/b)
WMM-EDCA	WMM-EDCA Parameters							Prioritized AirStatio	
Priority	Parameter							communication for s	specific
		For AP	For STA					transactions. This s provides some real	time
	CWmin:	15	15					communication, wh improve the quality	of VOIP or
	CWmax:	1023	1023					other streaming pro	tocols.
AC_BK(Low)	AIFSN:	7	7						
	TXOP Limit:	0	0					WMM-EDCA Parar	neters
	Admission Contro	l:	Disable 💌						
		For AP	For STA					It is usually not nec change this value.	essary to
	CWmin:	15	15					Priority	
	CWmax:	63	1023					The priority is ranke	d (Highest)8 :
AC_BE(Normal)	AIFSN:	3	3					(High)4 : (Normal)2 each packet.	: (Low)1 for
	TXOP Limit:	0	0					1	_
	Admission Contro	l:	Disable 💌					Parameter CWmin, CWmax	
		For AP	For STA					The maximum and	d minimum value
	CWmin:	7	7					for the contention v contention window	
10 100 K-11	CWmax:	15	15					control the frame of avoidance system	
AC_VI(High)	AIFSN:	1	2					Values that can be 32767.	
	TXOP Limit:	94	94						
	Admission Contro	l:	Disable 💌					AIFSN Interval of the send	ling frame. The
		For AP	For STA					unit defines a time the window value of	-slot (similar to
	CWmin:	3	3					CWmax). Lower va higher priority as th	alues define a
	CWmax:	7	7					algorithm starts ea	arlier. Values that
AC_VO(Highest) AIFSN:	1	2					can be inputted: 1-	10.
	TXOP Limit:	47	47					TXOP Limit	eus te obtein
	Admission Contro	l:	Disable 🗸					The time for the qu send priority. The r	minimum value
Apply								is 32ms. Large val more frames at a t latency may increa Only one frame is i the time when the Values that can be	ime. However, ise. transferred at TXOP Limit is 0.

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.

Setup Internet/LAN Wireless Config	Security	LAN Config	NAS	Admin Config	Diagnostic
WPS AOSS Basic(11n/g/b) Advanced(11n	∕g⁄b) WMM(1	1n/g/b) MAC F	Filter Multic	ast Control WDS	Logout
				Wireless MAC Filte	ring
Enforce MAC Filtering Enable				Wireless connection: AirStation can be lim specific client MAC a enhance security ag unwanted network vis enabled, only wireles adapters with registe	ited to addresses to ainst sitors. When as client
Registration List MAC Address Connection Status				addresses will be allo connect to the AirSta wireless MAC filter is AOSS is in use.	owed to ation. The
No Registered MAC Addresses Edit Registration List				Enforce MAC Filter	ing
		INC All rights record		Check Enable to us filtering. Then, only w with registered MAC	vireless clients

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.

Setup	Internet/LAN	Wireless Config	Security	LAN Config	NAS	Admin Config	Diagnostic
WPS AOSS	Basic(11n/g/	b) Advanced(11n	/g/b) WMM(:	11n/g/b) MAC	Filter Mult	icast Control WD	s Logout
						Multicast Control	Logout A
Snooping Multicast Agin	ING Time 300	Sec.				This setting controls packet transfer to wir port.	multicast reless LAN
Apply						Snooping Snooping observes n control packets like l control unnecessary	GMP to
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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.

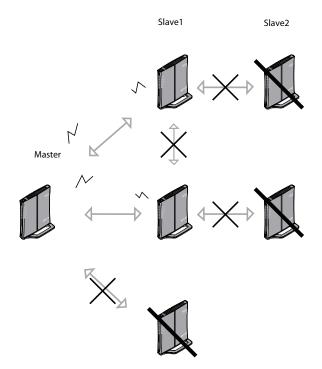
Setup	Internet/LAN	Wireless Config	Security	LAN Config	NAS	S Ad	dmin Config	Diagnos	tic		
WPS AO	WPS AOSS Basic(11n/g/b) Advanced(11n/g/b) WMM(11n/g/b) MAC Filter Multicast Control WDS Logout										
WDS 🔽	Use					WDS		LUGU			
Specify N	laster/Slave	Master 💌				Configu connec	ure establish the tion with anothei	wireless [,] AirStation.			
SSID	[Search			ommunication be				
Wireless	authentication	Do not authenticate 💌				AirStation and wireless Slave cannot be established or constant because the distance between					
Encryptic	in for wireless		those two are too far away, Install AirStation between Master and								
Apply						Slave v WDS ti	vireless devices l o solve these pro	oy using blems			
						The de	stination connec	tion needs	~		
			009 BUFFALO I	INC. All rights reserv	red.						

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.
	 Auto 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.

Setup	D Internet/LAN Wireless	Config Security	LAN Config	NAS	Admin Config	Diagnosti	c
Firewall	IP Filter VPN Pass Through					Logoi	ut
	_				Firewall	Logo	^
Log Out					Limits the type of pa to pass between the LAN. When packets	e Internet and s reach the	
Enable	Basic Rules	Number of Packets			AirStation, the firew the packets, and for	all evaluates wards packets	
	Prohibit NBT and Microsoft-DS Routing	0			that don't match an destination. The Fire	v filter to their	
	Reject IDENT Requests	0			unnecessary packet	ts from the	
	Block Ping from Internet	0			Internet side and pre secure information f		
Apply					side.		
					Log Output		
					Checking this box v	vill record	V
		(C)2000-2009 BUFF/	LO INC. All rights reserve	ed.			Γ.

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
Parameter	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.

Setup	Internet/LAN	Wireless Config	Security	LAN Config	NAS	Admin Config	Diagnostic		
Firewall IP	P Filter VPN Pas	s Through					Logout		
						IP Filter Settings			
Log Output	Enable					Limits the type of pa to pass between the LAN. The maximum numb 32. If the packet meets monitoring condition before it is routed, th	per of rules is one of the is (see below) ne specified		
Add IP Add	dress Based Fil	ter				action will be taken. conditions (see belo appropriate action w	w) are met, the		
Operation	Ignored 💌					performed once the the condition.	packet meets		
Direction	Internet-JAN 🗸					Log Output			
IP Address	Source Address:			Checking this box will record IP					
	O All					filtering information t Operation is Accept			
						is disabled. The default is Disable	led.		
Protocol	O Manual	Protocol Number:							
	⊙ TCP/UDP	TCP Port Manual Sett	ting 💙 <u>Specificat</u>	ion method		Add/Edit IP Addres Filter	ss Based		
Add Rule				<i>a</i>		This area is for addin line.	ng or editing a		
						Operation			
IP Filter Information						Select the action to be performed on packets that, meet filter criteria Ignored			
Operation		Address Protoco	ol Count Cust	tomize		Stop the packet and it.	l do not route		
	The IP Filter	has not been configured	yet			Rejected Return the rejected	packet to the		
						point of origin. Accepted Pass the packet thr The default is [Ignore	ough.		
						Direction	~		

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.

WZR-HP-G300NH User Manual

VPN Pass Through (Router Mode only)

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

Setup	Internet/LAN	Wireless Config	Security	LAN Config	NAS	Admin Config	Diagnostic
Firewall IP F	Filter VPN Pass	Through					Logout
						VPN Pass Through	^
IPv6 Pass Th	rough 📃 Enab	le				Specify VPN Pass 1 settings.	Through
PPPoE Path	Through Enab	le				IPv6 Pass Through	_
PPTP Pass T	hrough 📃 Enab	le				Select whether to us	se IPv6 Pass-
Apply						through for address The default setting is	translation. s disabled.
						Note:	
						When this function machine that supp	
		(C)200	0-2009 BUFFALO	INC. All rights reserve	ed.		

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.

Setup	Internet/L	AN V	Virele	ss Config	Secu	rity	LAN Conf	ïg	NAS	Admin Config	Diagnostic	:	
Port Forwar	ding DMZ	UPnP	QoS	Movie En	gine						Logou	t	
Add Port F	Add Port Forwarding								Port Forwarding Settings				
Group	Group Vew Group V Group Name:							Address Translation only for communication which is started					
Internet Side	Internet Side IP Address								from the LAN side , certain applications, such as network games, require that you allow communications from the Internet				
Protocol		O AII O ICMF O Manu	ual F	Protocol Num TCP Port M Port Number:	anual Setup	v	Specification Metho	od		(the Internet) side via Edit the rules for coi from outside the inte the LAN side networ NAT) carefully, cons internet game's doc necessary. Up to 32 registered.	mmunicating ernal network to k device(<u>Static</u> sulting your umentation as		
LAN Side IP	Address	192.168	8.11.2							Add/Edit Port Forw	varding		
LAN Side Po	ort	TCP/UD	P Port:							You can add new po	ort forwarding		
Add										information and edit information. Group	existing		
Port Forwarding Registration Information						You can give a name to configured <u>Static</u> multiple <u>Static NAT</u> s and manage them to	NATs and give s one name						
Group Internet Side IP Address Protocol LAN Side IP Address LAN Side Port							By giving names to g can [Enable] or [Dis	groups, you able] each					
	Port Forwardin									separately. To add a <u>Static NAT</u> existing group, selec from the drop-down choose [Add]	ot the group	*	

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.

Setup	Internet/LAN	Wireless Config	Security	LAN Config	NAS	Admin Config	Diagnostic			
Port Forwar	Port Forwarding DMZ UPnP QoS Movie Engine Logout									
						DMZ Settings				
IP Address of DMZ (*) The IP Address of the client that is configuring this AirStation is[192.168.11.2] (Apply (C)2000-2009 BUFFALO INC. All rights reserved. (C)2000-2009 BUFFALO INC. All rights reserved.										
Parame	ter		Meaning							
IP Addres	ss of DMZ		Enter the IP address of the destination to which packets which ar 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).

Setup Internet/LAN Wirele	ess Config Security	LAN Config	NAS	Admin Config	Diagnostic
Port Forwarding DMZ UPnP QoS	Movie Engine				Logout
UPnP VEnable	(C)2000-2009 BUFFALO	INC. All rights reserve	d.	UPnP Settings Setting up the interm function of UPnP: Or supports UPnP (Win The AirStation is aut recognized on the L intermet gateway. Als application which su	idowsXP, etc.), comatically AN as an so, if a network
Parameter	Mean	ing			
UPnP	Enable	or disable Ur	niversal F	Plug and Play	(UPnP) func

QoS (Router Mode only)

Configure the priority of packets sent to the Internet.

Se	etup	Internet/LAN Wireless Con	fig Se	curity LAN	Config	NAS	Admin Config	Diagnostic	
Port	Forward	ling DMZ UPnP QoS Movie I	ngine					Logou	ut
_	QoS Setting								
QoS	for trans	mission to the Internet Enable					QoS is a technology bandwidth on the ne	to use the	
Uplo	ad band	width 1000 Kbps					effectively. When two or more p at the same time, the	ackets arrive e packet with	=
No.	Enable	application name	protocol	destination port	priority		higher priority is pro This can be used to communications that	give priority to	
1		VoIP	UDP 🛩		high	*	time processing, su		
2		ssh	TCP 🗸	22	medium	*	QoS for transmissi	on to the	
3		telnet	TCP 🗸	23	medium	~	If checked, this give	s priority to	
4		ftp	TCP 🛩	21	low	~	packets being trans Internet. When enab able to add four leve	led, you will be	
5			TCP 🗸		low	~	priority for specific a By default, this is di	pplications.	
6			TCP 🗸		low	~	Uplink Bandwidth		
7			TCP 🗸		low	~	Specify the bandwid from this unit to the	th transferred Internet in	
8			TCP 🗸		low	~	kbps. The real uplink band	width should	
Арр	У						be entered. If a bandwidth value real line speed is en uplink bandwidth wil the line speed. If a smaller bandwid entered, the maximu cannot be used.	tered, the I be limited by th value is im line speed	>
		((C)2000-2009	BUFFALO INC. All r	ights resen	ved.	<	>	

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.

Setup Inte	rnet/L	AN Wireless Co	onfig	Security	LAN	V Config	NA	s	Admin Config	Diagnostic
Port Forwardi	ng DN	/IZ UPnP QoS	Movi	e Engine						Logout
main unit is s	This setting is enabled when the "Movie Engine" switch on the nain unit is set to "ON". Movie Engine switch status ON								re. ` vitch is ON timizes o or audio	
Packet Contr	rol Set	ting						dat Mo	s page conligures w a processing in spe vie Engine switch is sition.	cific when 🛛 🗧
IPv6 Pass Thro	ough	✓ Use						Mo	vie Engine Status	
Multicast Rate		11 Mbps 💌						Dis	play the status (ON wie Engine switch o	VOFF) of the
	1	Snooping Function	🗹 Us	se				uni	t. The Movie engine abled when the swit	feature is
Multicast Contr	rol	Aging Time	300	Secon	nds					
		Change Priority	VI (pr	riority) 🗸 🗸]			Pa	cket Control Settin	ng
TCP Rwin Size		Size Limit	Lin	nit						
101 10120		Maximum Rwin Size	65536	6 bytes					⁄6 Pass Through	
Wireless Prin	Apply Enable IPv6 Pass Through when the Movie Engine switch is ON. The router transfers IPv6 packets between the Internet and LAN. The factory default setting is [Enabled]. Wireless Priority Control Rules * This function is only enabled when the AirStation is in Router mode. No. MAC Address IP address Protocol Port Number Priority Wireless priority control rules not registered. Multicast Rate						AG packets nd LAN. iing is en abled in Router			
Editing of	f Priority	Control Rules	כ					the The	nfigure Multicast Co Movie Engine switc a factory default sett ps].	h is ON.
Transmission Rate Limit Multicast Control Multicast control setting when the Movie Engine switch is ON.										
· · ·		ssion Rate		Number of		ies		E	Snooping Function Enable the Multicast S	nooping
	No Limits			No Limits		Checking Use when the				
		lo Limits 💌				Engine switch is ON wil Multicast control. The factory default settir				
	No Limit		No Limits		Aging Time					
Video No Limits No Limits The Aging Time for Multicast Snooping feature. This setting range is 1-3600 seconds. The factory default setting is [300										
				(C)2000-2009	9 BUFI	FALO INC. AI	l rights i	rese	rved.	

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.

Setup Internet/LAN Wireless	Config Security LAN Config	NAS Admin Config Diagnostic	с		
Disk Management Shared Folder Web Access Media Server BitTo	User Management Shared Servi	ice Logout	c		
		Disk Management	^		
USB Disk Information		Displays the status of attached USB disks and allows you to			
Device Disk Assignment	Partition Information	manage these disks. Information for up to four connected USB disks			
BUFFALO ClipDrive Remove Disk1	is displayed. If the USB disks have multiple partitions, then the information for the first four partitions will be displayed. Windows compatible primary partitions and extended partitions are recognized. The possible operations are format and remove USB disk. Disk file checking is executed with a PC.				
		Caution			
[Advanced Settings]		If several drives or one drive with multiple partition is connected, the drive might not be detected properly. Please connect one drive			
Automatic USB Disk Assignment	Use	with single partition.			
FAT format file name character code	North America (CP437) 💌	Device			
HDD power-saving function	Use HDD stop time	The "manufacturer," "product name" and "unit name" of recognized USB disks are displayed.			
Apply		Disk Assignment When Automatic USB Disk	~		

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 car 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.
WZR-HP-G300NH User Manual	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.

Se	tup	Internet/LAN	N Wireless Config	Security	LAN Config	NAS	Admin Config	Diagnostic	
	Disk Management Shared Folder User Management Shared Service								
web	Web Access Media Server BitTorrent Logout								
Add new shared folder							Shared Folder Management Settings		
Shared Folder Name			(Enter	Shared Folder Name					
Sha	Shared Folder Description			Folder names displayed when sharing folders. Up to 18 8-bit characters can be input. Characters from various countries and the symbols "-" and " can be used in addition					
	Disk Partition Area		Select Disk Partition Area Format Used/Available(%) Image: Disk1/Partition1 FAT 16 / 506,864 (0%)						
Disc	losed to		Win/MacOS(Samba)	Web Access 🔲	Media Server 📃 B	litTorrent	to 8-bit alphanum characters. Num	heric	
			Limits				symbols cannot be input as the first character. The maximum		
Access Limits			lead/Write Read-only No access				number of characters that can be input is limited to the maximum bytes that can be accepted under UTF-8 encoding. Numbers and symbols cannot be used as the first character. Warning:		
		S	BUFFALO ↓ User-A User-B User-C ↓ User-A User-C ↓ User-A User-A User-B User-A ↓ User-A ↓ User-A ↓ User-A ↓ User-A ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓						
Web Access			Access Limits				Please do not change the name of an existing shared folder. The existing folder name will change to the new name, however, the original folder name will remain as a non-shared folder. If characters from several languages are used, they may become corrupt when changing		
Add									
Sha	red Fol	der Registrati	ion Information				language setting: Up to 16 shared	s	
No. Shared Folder Name		Folder Name	Shared Folder Information Operation			can be registered	J.		
1	Music	Disk Partition Area Disk1/Partition1 Shared Folder Description Music Folder Disclosed to Win/MacOS(Samba) Access Limits Limits BUFFALO,User-A,User-B,Use Read-only guest Web Access Access Limits			Edit Delete	You may select a folder that can be registered as a shared folder on the USB disk from th drop-down list. When [root folder] is selected, the whole USB disk will be configured as a shared folder and will be named as follows: diskX_ptY (X.disk number, Y.partition number). This shared folder name cannot be changed. The default setting is [Enter manually].			
			1160/000000	Access Limits			Shared Folder		
			(C)200	0-2009 BUEFALO	INC. All rights rese	erved	Folder descriptio	n displayed 🛛	

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.

Se	etup I	nternet/LAN	Wireless Config	Security	LAN Config	NAS	Admin Config	Diagnostic	
		ent Shared F Aedia Server	older User Manager	ment Shared	Service			Logou	t
vveb	Access	neula server	Bittorrent				User Management	Logou	
Add	User						User Name		
Use	r Name						Set the user names		
Password (confirmation)						access to shared folders. From 1 to 20 8-bit alphanumeric characters, '-', '' and '.'' can be used. Symbols cannot be used as the first character. The maximum number of users			
Use	r Descriptio	n					that can be registere	d is 16.	
Add							Password		
Сип	rent Users	;					Set the password ne access shared folder 20 8-bit alphanumeri "-" and "_" can be us be used as the first of Windows 98SE, 98 a	rs. From 1 to c characters, sed. "-" cannot character. For and 95, up to	
No.	User Name	e User Descrip	tion	Operatio	n		14 8-bit alphanumeri can be used. For Ma	ic OS, up to	
	guest	Built-in account for guest access to the system					eric characters s a possibility		
1	John	office		Edit De	elete		that shared folders w inaccessible.	ill become	
2	Mike	home		Edit De	elete		User Description		
3	Robin	guest room		Edit De	elete		Set user description. characters can be in		
							Characters from varia 8-bit spaces, and the and "_" can be used 8-bit alphanumeric c maximum number of that can be input is I maximum bytes that	bus countries, e symbols "-" in addition to haracters. The characters imited to the	*

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.

WZR-HP-G300NH User Manual

Shared Service

Assign AirStation and workgroup names to access shared folders.

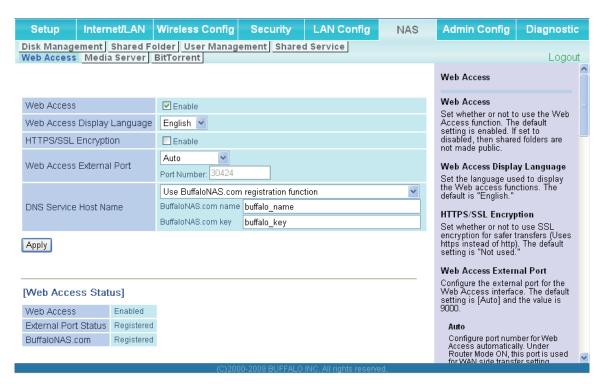
Setup Internet/LAN	Wireless Config Se	curity LAN C	Config NAS	Admin Config	Diagnostic	
Disk Management Shared Folder User Management Shared Service Logout						
Web Access Media Ser	BRIOHER		Sh	ared Services		
Shared Folder	🗹 Enable			ared Folder	E	
AirStation Name	AP001D738C6118		US	is option allows you 3B disk available on y twork. The default se	your local	
AirStation Description			"E	nabled."	string is	
Workgroup Name	WORKGROUP		fol	u may specify acces ders as follows:	ss to shared	
Windows Client Language	North America (CP437)	~	\\1	ample 92.168.11.1 Laddraec of the AirSt	tation)	
Apply (IP address of the AirStation) (APD0) (AirStation name in 15 characters or less)					· ·	
			Ai	rStation Name		
[Shared Service]				ts the AirStation nar [Admin Config] - [Na irStation Name]. Bec		
Shared Service Enabled			ho sh	irStation Name]. Bec st name that can be ared service. Becaus mes are limited to 19	usediasia se host	

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 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.

Setup Internet/LAN Wireless	Config Security	LAN Config	NAS	Admin Config	Diagnostic
Disk Management Shared Folder User Management Shared Service Web Access Media Server BitTorrent Logout					
			Me	edia Server	^
Media Server C Enable			Se Me	edia Server lects whether or not dia Server function. disabled.	
[Status]			[St	atus]	
Status Enabled			Sta	atus	
Refresh Update Database			Dis If ti sta	splays the Media Se his cannot be used, itus of the USB disk	rver status. check the ·
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Parameter	Meaning
Media Server	Enable to use the media server.
Status	Displays the status of the media server.

BitTorrent

Configure the BitTorrent client.

Setup	Internet/LA	N Wire	eless Config	Security	LAN Config	NA	S	Admin Config	Diagnostic	
	nagement Sh ess Media S			Management	Shared Servi	ce			Logout	
	mean		Dictorioni				Bit	Torrent	Logoal	^
BitTorrer	nt Function	🗹 Enabl	le					Torrent Function	·	
External	Port Number	Auto Port Num	▶ •ber 31761				Bit set Yo	ows you to enable/d Forrent function. The ting is disabled. u can get downloade s via shared folder o	e default ed BitTorrent	
[Advanc	ed Settings]					-	Aci the to" Do bitt	cess function. Pleas folder setting from ' of "Shared Folder" wnloaded files are s orrent folder on the comatic USB Disk A	se configure "Disclosed page. tored in USB disk.	
Bandwid	th Restriction		ile num Download S num Upload Spe		KB/s		is s dis Aut is s	set to [Use] : k1_pt1/bittorrent comatic USB Disk A set to [Do not use] : ler name/bittorrent	ssignment	
Apply Downl	load Manager		Delete BitTor	rent information	_		thro	Torrent function mak oughput or setting p ponse be slow. In th natting USB disk by proves this symptom	age nis case	
						_	Sp	ternal Port Numbe ecify the external po	ort number	
[BitTorr	ent Status]						tor and	BitTorrent. The defa I the value is [9002]	uit is (Auto)	
BitTorrer	nt Status		Enable					uto		
BitTorrer	nt External Port	: Status	Registered				E	et up the port numbe litTorrent automatical touter Mode ON, this or WAN side transfer	lly. Under port is used	~

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.

Setup Internet/L	AN Wireless Config	Security	LAN Config	NAS	Admin Config	Diagnostic					
Name Password Time Initialize/Restart Updat	/Date NTP ECO Acces	s Log Save/I	Restore			Logout					
					AirStation Name	^					
AirStation Name AP1234	1560003B9				AirStation Name	≣					
List Network Services	Enable				This can be used to specific descriptive AirStation.	assign a name for the					
Apply					The AirStation name 64 alphanumeric ch- length, and '-' are all may not be the first character in the nam	aracters in lowed, but a '-' or last					
	(C)20	00-2009 BUFFALO	INC. All rights reserve	d.		(C)2000-2009 BUFFALO INC, All rights reserved.					

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.

Name Password Time/Date NTP ECO Access Log Logout Initialize/Restart Update Logout AirStation Administrator Password Pass	Setup Interne	t/LAN Wireless Con	ig Security	LAN Config	NAS	Admin Config	Diagnostic		
Administrator Name root (fixed) Administrator name			cess Log Save	Restore			Logout		
Administrator name							strator		
	Administrator Name	root (fixed)	root (fixed)						
	Administrator Basswor					Administrator nam	ne		
(Confirm) Inits is the user name used to log into the AirStation's configuration	Administrator Fassword		(Confirm)			into the AirStation's	configuration		
Apply screens. It cannot be changed from 'root'.	Apply					screens. It cannot b	e changed		
Administrator password						Administrator pass	sword		
(C)2000-2009 BUFFALO INC. All rights reserved.					a d	Configure the Admir	nistrator 🗠		

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.

Setup Internet/LAN Wireless Config Security LAN Config NAS	Admin Config	Diagnostic			
Name Password Time/Date NTP ECO Access Log Save/Restore		Logout			
	Time/Date	^			
Local Date 2009 Year Month Day	Set the AirStation's Set the internal cloc				
Local Date 2009 Year 1 Month 1 Day Local Time 0 Hour 7 Minute 11 Seconds	Note:				
Time Zone (GMT+00:00)Greenwich Mean Time, London	The AirStation's internal clock is reset to its default setting whenever power is lost because it				
DST(Daylight Saving Time) EU type 1 For GMT +00:00(From last Sunday in Mar to last Sunday in Oct) description may be description may be configured to adjust its clock					
Apply Refresh Get Current Time from your PC	automatically even by connecting it to a You may also reset	INTP server.			
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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.

Setup li	nternet/LAN	Wireless Config	Security	LAN Config	NAS	Admin Config	Diagnostic	
Name Passwo Initialize/Restar		NTP ECO Acces	s Log Save/	Restore			Logout	
						NTP	2	~
NTP Functionali	lity 🔽 Enable					If an NTP server is c	onfigured the	
NTP Server	time.nist.gov	time.nist.gov AirStation will access the specified NTP server and adjust its internal						
Update Interval	24	hours				clock to conform wit server's time. NTP is	s an acronym	
Apply						of Network Time Pro server distributes ac network devices.		
						NTP Functionality		
						Check [Enable] to u server.	se an NTP	*
		(C)20	00-2009 BUFFALC) INC. All rights reserve	d.			

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.

Setup Intern	et/LAN	Wireless (Config	Security	L/	AN Con	fig	NAS	Admin Config	Diagnostic
Name Password Initialize/Restart		te NTP EC	CO Acce	ess Log	Save/	Restore	•			Logout
	Jpdate								EC0	
Schedule feature	Enable								Configure ECO Mode ECO Mode will put it save operation accorr Weekly schedule.	in energy
Weekly schedule	04 06	08 1	0 12	14	16	18 2	20 21	2	Schedule feature Selecting "Enable" w ECO Mode and chan operation mode acco Weekly schedule. The default value is "	ge the rding to
SunMonTueWedThuFriSat									Note: • The Operational changed even di communicating in the weekly sci note that commu- be disconnected case. • AOSS does not ECO mode if the Mode is not "nor • Pressing and ho	uring at the time set hedule. Please hinication may l in such a work during Operational mal". blding AOSS
Normal 📕 Sleep) 📕 User	Define							button on the ma the Operational I Normal can tem it to "Normal".	Mode is not
	Start time	al Mode Norm 0:00							Weekly schedule	
	End time The day of	0:30 week Sun	Mon Ti	ue Wed '	Thu F	iri Sat			Register Weekly sch want to change the C Mode you have regist overwrite a period of t to change in the new Mode.)perational tered, time γου want
Add									Register schedule Operational Mode	
User Define Mode	e Setting	s							Select the Operatior The default value is	"Normal".
User Define Mode	LED Wired LAN Wireless L		v operatic	un) 💌					Normal Does not perform a operation. Sleep Perform following t	
Apply			(0)2000-2	2009 BUFFAL	O INO	All rights r	recover		saving operation. * Turn off LED * Stop wired LAN * Stop wireless LAI	v 💌

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.

Name Password Time/Date NTP ECO Access Log Save/Restore Log Initialize/Restart Update Log Management Access Log Log Output Enable Initialize Initialize Initialize	2				
Log Output Tenable	ıt				
Log Output Enable	^				
You may prohibit management of the AirStation in specific					
Enable Management Access Number of Packets circumstances. Enabling any of these limitations will prevent					
Prohibit configuration from wireless LAN 0 Changes being made to the AirStation's settings from PCs that					
Prohibit configuration from wired LAN 0 meet the listed limitation criteria. Note that checking all of these					
boxes at once will make it very difficult to make future changes to the AirStation's settings.					
Enable Management Access					
Permit configuration from wired Internet Checking this box will record "Management Access" information					
Apply to a log. Logging is disabled by default.					
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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.

Setup I	nternet/LAN Wirele	ess Config	Security	LAN Config	NAS	Admin Config	Diagnostic
Name Password Time/Date NTP ECO Access Log Save/Restore Logout Initialize/Restart Update Logout Logout Logout							Logout
						Syslog Setup	<u>^</u>
Log Transfer	Enable					Syslog transfers the	AirStation's
Syslog Server						log information to a	syslog server.
Transfer Logs	Address Translation Firewall Dynamic DNS DHCP Server Wireless Client Setting Changes NTP Client	 IP Filter PPPoE Client DHCP Client AOSS Authentication System Boot Wired Link 				Log Transfer Checking [Enable] v AirStation to transm information to a Syse default is disabled. Syslog Server Specify the name of Server by host name with domain or IP-A	it log log server. The 'your Syslog e, host name ddress.
Apply Select	All Clear All					Alphanumeric chara '-' and dot '.' may be The Syslog Server N start or end with a h '.'. Logs	e used. Jame can't
		(C)2000-2	2009 BUFFALO	INC. All rights reserve	d.		× · · · · · · · · · · · · · · · · · · ·

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.

Setup	Internet/LAN	Wireless Config	Security	LAN Config	NAS	Admin Config	Diagnostic
	word Time/Date	NTP ECO Acces	s Log Save	Restore			Logout
	Save					Save/Restore AirS Settings	tation
Save current	t settinas	pt the configuration file w	vith a password			Save Current Setti	ngs
Restore Con	figuration from Bac		e from the file you	Browse)		Once you've got you set up the way you's may save the curren of the AirStation to a that you're using for Note: The AirStation will r restore configuratic save file in the follo circumstances:	want it, you t configuration file on the PC configuration. not be able to ins from the wing
						 If you password backup and the the password of 	n don't enter 💦 🧋

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

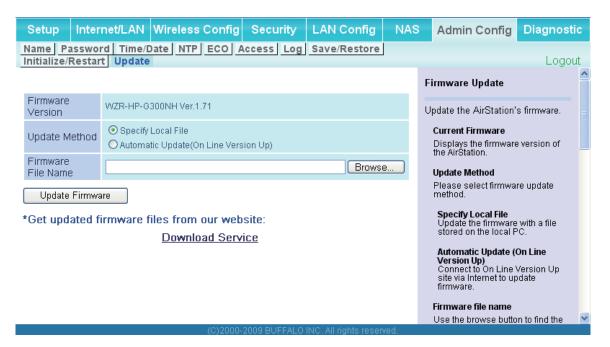
Initialize or restart the AirStation.

Setup Internet/LAN Wireless Config Security LAN Config NAS	Admin Config Diagnostic
Name Password Time/Date NTP ECO Access Log Save/Restore	Logout
	Initialize/Restart
Restart This reboots your AirStation. Restart Now	Restart
	This reboots your AirStation.
Initialize This will restore your AirStation to the factory default settings.	Settings affected: Restarting will reset the clock to default time.
	Initialize
	This will restore your AirStation to the factory default settings.
(C)2000-2009 BUFFALO INC. All rights reserved.	Settings affected:

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.

Setup Internet/LAN	Wireless Config	Security	LAN Config	NAS	Admin Config	Diagnosti
stem Info Logs Packet In	fo Client Monitor	Ping				Logo
				^	System Information	U U
lodel	WZR-HP-G300NH				Display the AirStatio	n's main
irStation Name	AP1234560003B9				settings.	
lode Switch Status	Router Mode ON				Model	
perational Mode	Router Mode ON				Displays the model of firmware version of the	name and ne AirStation.
lovie Engine Status	OFF					
	Method of Acquiring IP Address	Auto Deteo	t Mode - DHCP		AirStation Name Displays the AirStat name.	ion's host
					Status of the hardy switch	vare mode
	Connection Status Operation	Communi			Displays the status ROUTER switch.	of the
	IP Address	222.14.100.85			Operational Mode	
	PPP Server IP DNS1(Primary)	222.4.71.203 210.196.3.183	(Auto)		Displays the current operation.	mode of
iternet	DNS2(Secondary)	210.141.112.1	63 (Auto)		Movie Engine Stat	US
liener	MTU Size	1454			Displays the status Engine switch.	
	Wired Link MAC Address	1000Base 12:34:56:0	-TX (Full-duplex) 0:03:89		Internet AirStation's Internet information. Method of Acquirin Acquiring a Internet Name of the Conne The name of the PF	g IP Address IP address. ection PPoE
AN	IP Address Subnet Mask DHCP Server	192.168.1 255.255.2 Enabled			connection specifie configuration.	
	MAC Address	12:34:56:0	0:03:B9		Displays the curren status.	t internet side
	Wireless Status	Enabled			Operational Mode	
	SSID Authentication Encryption	12345600 WPA-PSK AES	0389		The Operational Mo any DHCP or PPPo is active. If DHCP is following command executed.	de will show if E configuration in use, the Is can be
/ireless(802.11n/g/b)	Broadcast SSID Privacy Separator	Enable Disable			 [Release] : Rele address assign DHCP Server. 	eases the IP ed by the
	Wireless Channel 300Mbps Mode MAC Address	2 (Auto) 20 MHz 12:34:56:0	0.03.89		 [Renew] : Rene address from th Server. 	ws the IP le DHCP
	USB disk	Not conne		~	The following commexecuted when using	nands can be

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.

Setup Int	ernet/LAN	Wireless Config	Security	LAN Config	NAS	A	dmin Config	Diagnosti	с
System Info Log	S Packet Int	fo Client Monitor	Ping						
						_		Logo	ut
					2	Lo	gs		Â
Display log info	Address Tran Firewall Dynamic DNS DHCP Server Wireless Clie Setting Chan NTP Client	S PPPoE Cl DHCP Cli DHCP Cli AOSS ent Authentica	ent tion pot			the Th ove Di: Se sh Th	splay log informati e AirStation. e oldest informatii erwritten by new lo splay log info elect the types of i ould be logged by e default is All. Th ss can be select	on is ogs. nformation that the AirStation. le following	
Display Select	All Clear	AII				ne	 Address Trans 		
							IP Filter	lation	=
Logs							• Firewall(Include		
Save to file log	file.log.				Delete		 Masquerade pa PPPoE Client(Ir 		
		Log Contont					 Dynamic DNS(I 		
Date Time	Туре	Log Content					DHCP Client (In		
2009/06/10 05:34:05	AUTH	wI0: AUTH: WPA/WPA2	- Group Key hand	shake successful: 00:	1d:73:92:0f:82		DHCP Server(L	AN side)	
2009/06/10 05:34:05	AUTH	ath0: STA 00:1d:73:92:	0f:82 WPA: group k	key handshake comple	eted (WPA)		 AOSS 		
2009/06/10 05:34:05	AUTH	wI0: AUTH: Updating g	roup key				 Wireless Client client connection 		
2009/06/10 04:35:52	NAT	ip_nat_pptp version 3.0) loaded				Authentication	11)	
2009/06/10 04:35:52	NAT	ip_conntrack_pptp vers	ion 3.1 loaded				 Setting Change 	s	
2009/06/10 04:35:50	NAT	ip_conntrack_pptp vers	ion 3.1 unloaded				 System Boot 	-	
2009/06/10 04:35:50	NAT	ip_nat_pptp version 3.0) unloaded				NTP Client		
2009/06/10 04:35:49	DHCPS	max_leases value (256	6) not sane, setting	to 64 instead			Wired Link (Inte	ernet/LAN)	
2009/06/10 04:35:49	DHCPS	udhcpd (v0.9.9-pre) sta	rted			Ch	nart of TYPE na	mes	
2009/06/10 04:35:46	DHCPC	Info : LEASETIME(8640	0). RENEWALTIM	E(43200), REBINDTIN	AE(75600)		LOG INFO	TYPE	
2009/06/10 04:35:46	DHCPC	Info : DHCPSNAME =	-,,				Idress Translation		
2009/06/10 04:35:46		Info : DHCPSHADDR =	00:1B:C0:35:7B:0	R				FILTER	
2009/06/10 04:35:46		Info : DHCPCHADDR =		-				FIREWALL	
				5				PPPOE	
2009/06/10 04:35:46		Info : DHCPSIADDR = (DDNS DHCPC	
2009/06/10 04:35:46		Info : DHCPGIADDR =						DHCPC	
2009/06/10 04:35:46		Info : DHCPSID = 192.1						AOSS	
2009/06/10 04:35:46		Info : DNS[2] = 192.168						WIRELESS	
2009/06/10 04:35:46		Info : DNS[1] = 192.168	.1.8					AUTH	
<	011000		1.1				etting Changes	CONFIGURE	~
		(C)20	0-2009 BUFFALO	INC. All rights reserve	d				

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.

Setup Internet/LA	N Wirele	ss Cor	nfig Se	curity	LAN Config	NAS	Admin Config	Diagnostic
System Info Logs Packe	t Info Clie	nt Mon	itor Ping					Logout
						^	Packet Traffic Info	^
Interface	Sent		Received				The total succhase of	f a s al vata a s a t
intenace	Normal	Errors	Normal	Errors			The total numbers of and received by the	AirStation, as
Wired LAN	40512	0	20962	0			well as the errors se receiving, are display	
Wired Internet	27968	0	93112	0			J	y o u .
Wireless LAN (802.11n/g/b)	9736	0	8457	0			[Refresh] button	for an all so in
Refresh							Displayed packet in renewed with curre when this button is	nt information
						~		~
			(C)2000-2009	BUFFAL	O INC. All rights reserve	d.		

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.

Setup	nternet/LAN	Wireless C	Config Security	y LAN Config	NAS	Admin Config	Diagnostic
System Info L	ogs Packet In	fo Client M	lonitor Ping				Logout
						Client Monitor	^
MAC Address	Lease IP Address	Hostname	Communication Method	Wireless Authentication	802.11n	Displays the LAN si	de clients
00:1D:73:92:0F:82	192.168.11.2	W-207-J	Wireless	Authorized	Enable	(PCs) that are acces AirStation.	ssing the
Refresh						The following informa displayed:	ation is
						MAC address	
						Shows client's MAC	address.
			(C)2000-2009 BUFF	ALO INC. All rights reser	ved.		
Paramete	r		Me	aning			
Client Mon	itor		com	munication m	ethod, w	address, lease ireless authent to the AirStatio	ication and

Ping

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

Setup	Internet/LAN Wireless Config	Security	LAN Config	NAS	Admin Config	Diagnostic
System Info	Logs Packet Info Client Monitor	Ping				Logout
					Ping	
Destination	Address				A Ping test can be p	performed from
Execute					the AirStation. With you can determine v	a ping test, vhether the
Result					AirStation can comm specific network dev	
Destination	192.168.11.3				Destination Addres	-
Result	64 bytes from 192.168.11.3; icmp_seq=0 ttl=12 64 bytes from 192.168.11.3; icmp_seq=1 ttl=12 64 bytes from 192.168.11.3; icmp_seq=2 ttl=12	28 time=3.0 ms			you want to ping; e.g 192.168.11.3 or www.buffalotech.con	g.
					Execute	
					Click [Execute] to p selected IP address	ing the
					Result	
					The results of the pin displayed here. If ree from the ping, then t communication with address was succes or errors indicate a p	sponses return he the target IP ssful. Timeouts
	(C)200	00-2009 BUFFALO	INC. All rights reserve	d.		

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**.

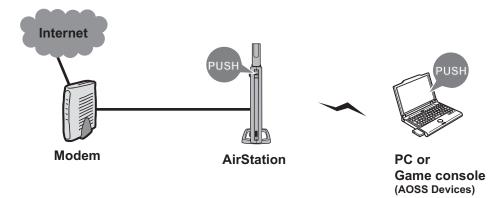
Chapter 5 Connect to a Wireless Network

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.



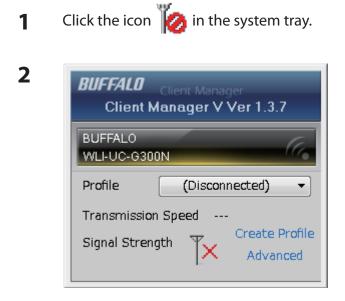
AOSS (AirStation One-Touch Secure System) was developed by Buffalo Technology. WPS was created by the Wi-Fi Alliance.



- 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.



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

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

G	🚰 Create profile			×	Click the [WPS AOS	SS] button
	Perform setup of wireless connec	tion to the AirStation				
	Wireless Adapter BUFFAL	DWLI-UC-G300N		•		
	Select the Setup Method				•	
	Automatic Secure Setup					
	Perform connection and security configu	ration automatically.				
	Advanced Setup					
	Select a Network Name (SSID) or enter t then connect manually. Otherwise connect with WPS-PIN metho		P			
	Option (Expert only)	Client Manag	er V Ver.1.3.7 BUFFAL	0		
	Option (Expert only)	Client Mana <u>c</u>	er V Ver.1.3.7 BUFFAL	0		

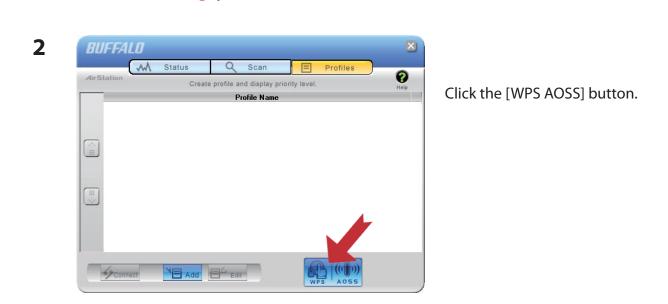
Follow any instructions displayed on the screen. When the Security LED on the front of the AirStation stops flashing and is lit steadily, the connection is complete.

1

Windows XP (Client Manager 3)

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

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



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

1

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.

in the system tray.

Windows 7 (WLAN AutoConfig)

Click on the network icon

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



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.

WZR-HP-G300NH User Manual

P Connect to a Network	Enter the encryption key and click [OK].
Type the network security key	
Security key:	
Hide characters	
You can also connect by pushing the button on the router.	
ОК С	ancel

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].

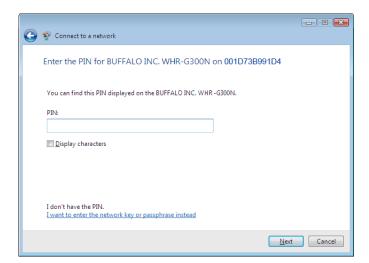




When the screen at left is displayed, select the network to connect to and click [Connect].

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

Sonect to a network	- 8 💌
Press the configuration button on your access point	
Press the configuration button on the access point before continuing.	
I can't find the configuration button. I want to enter the network key or passphrase instead	
4	Lext Cancel



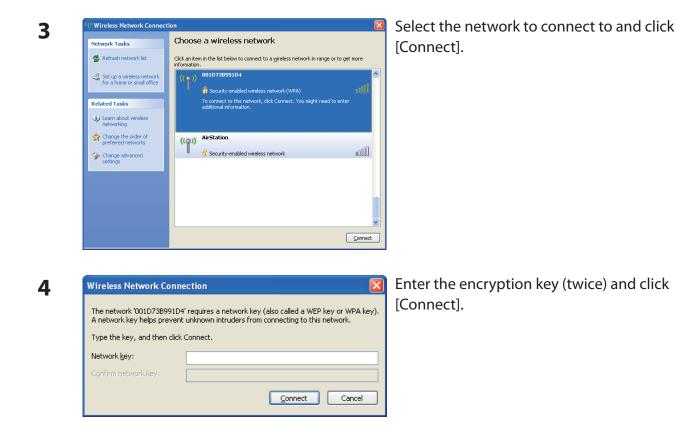
4	Connect to a network	Enter the encryption key and click [Connect].
	Type the network security key or passphrase for 001D73B991D4 The person who setup the network can give you the key or passphrase.	
	Security key or passphrase:	
	Display characters	
	If you have a USB flash drive with network settings for 001D738991D4, insert it now.	
	Connect Cancel	

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].



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 (Router Mode only)	Method of Acquiring IP Address	Perform Easy Setup (Internet Connection Wizard)	
	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 (Router Mode only)	LAN Side IP Address	192.168.11.1(255.255.255.0)	
	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

Appendix B Default Configuration Settings

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:configuredSSID:AirStation's MAC AddressSecurity:WPA/WPA2 mixedmode - PSK TKIP/AES mixedmodeEncryption key:A 13-digit random value or disabled. (Printed on the label of the 	
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	none		
Multicast	Snooping	Enabled			
Control	Multicast Aging Time	300 Sec.	300 Sec.		
WDS	WDS	Use			
	Specify Master/Slave	Master			
Firewall	Log Output	Disabled			
(Router Mode only)	Basic Rules	Prohibit NBT and Microsoft-DS RoutingDisabledReject IDENT RequestsEnabledBlock Ping from InternetEnabled			

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	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 FunctionUseAging Time Seconds300 SecondsChange PriorityVI (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	

Appendix B Default Configuration Settings

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	Disable		
	Limitation Item	Prohibit configuratio	Prohibit configuration from wireless LANDisabledProhibit configuration from wired LANDisabledPermit configuration from wired InternetDisabled		
Log	Log Transfer	Disabled			
	Syslog Server	none	none		
	Transfer Logs	Client, Dynamic DN AOSS, Wireless Clie Changes, System B Bridge Mode: IP Filter, DHCP Clier 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.

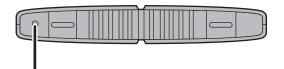
- 1 Click [Start] > [Settings] > [Control Panel].
- 2 Double click [Network and Sharing Center].
- **3** Click [Manage network connections] on the left side menu.
- **4** Right click on [Local Area Connection], then click [Properties].
- **5** When the message "Windows needs your permission to continue" 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].
- **3** Right click on [Local Area Connection], then click [Properties].
- **4** Select [Internet Protocol (TCP/IP)], then click [Properties].
- **5** 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_pt1, 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.

€ 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-G300NH 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 malħtiġijiet 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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