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Work and play - further and faster! Your AirStation Nfiniti combines Ethernet networking with extended wireless range and speed. It offers excellent compatibility with most wireless clients, giving superb performance with Wireless-N, Wireless G, and legacy Wireless-B clients. For best overall performance, use with Buffalo Technology Nfiniti wireless clients.

System Requirements:

- A high-speed (Broadband) Internet connection or existing local area connection.
- A computer with a network connection (wired or wireless) and a web browser. The screenshots in this manual were taken with Firefox, but current versions of other browsers such as Internet Explorer also work fine. On Macs, Safari 1.0 and later are supported with Macintosh OS X 10.28 and later.

Package Contents:

- WHR-G300N AirStation with built-in antennas
- AC adapter
- CAT5 LAN cable
- Screws for wall mounting
- Utility CD with Manual
- Quick Setup Guide
- Warranty Statement

Begin by finding a good place to set up your router/access point. Some things to consider:

- You'll need to be able to plug your internet connection into it, so it should go within reach of the LAN cable from your DSL or Cable modem. You'll also want a power outlet nearby.
- Keep the access point as central in your work area as possible. Signal strength and speed fall off with distance.
- Higher is often better. For instance, set it up on the top shelf of a bookcase rather than the bottom one, if possible.

Do you need a password or other information to log in to your internet connection? Many DSL connections require information like global IP address, subnet mask, default gateway address, DNS server address, or PPPoE parameters in order to connect. Cable modems usually don't require extra information. If you have a DSL internet connection, make sure that you have any necessary information handy before you continue. Your Internet Service Provider can give you this information if you don't know it. Y_{our} AirStation may be placed horizontally, or vertically with its stand attached. You can also mount it on the wall.



Wall Mounting

For wall mounting, screw two of the included wall-mounting screws into the wall in either of the configurations shown below. Slots on the back of the AirStation will fit over a pair of screws in either configuration.



Connecting your AirStation



To initially configure your AirStation, you'll use a wired connection to your computer. Once you've connected to the internet through the router, you may switch to a wireless connection if desired.

The computer used to configure the AirStation should be set to obtain an IP address automatically using a DHCP server (this is the default). The WHR-G300N has a default LAN IP address of 192.168.11.1 and Subnet Mask of 255.255.255.0.

- 1. Power down the Cable or DSL modem and the computer which will be used to configure the AirStation router.
- 2. Plug the Cable or DSL modem's Ethernet cable into the AirStation's WAN port. Initially, you may need to unplug this cable from your computer, hub or other router.
- 3. Plug the provided Ethernet cable into one of the four LAN ports on the AirStation and plug the other end into your computer's Ethernet adapter (NIC).
- 4. *Important: turn everything on in the correct order!!* Power on your cable or DSL modem and wait one full minute, then power on the AirStation and wait one full minute, and finally power on the computer which will be used to configure the AirStation.

Log in to the Configuration Tool

😻 B	🕹 Buffalo Technology- Storage - Mozilla Firefox						
<u>F</u> ile	Edit	View	Go	<u>B</u> ookm	arks	Tools	Help
4	1	\$ a	Ì	-		1	92.168.11.1
-	_	_	_	_	_	_	

Launch a web browser on the computer that you're using to configure the AirStation.

Enter 192.168.11.1 into the URL field. Naturally, if you change your AirStation's IP address, you'll have to enter the new address instead.

Prompt	×
$\overline{\mathcal{O}}$	Enter username and password for "AirStation" at http://192.168.11.1 User Name:
$\mathbf{\overline{\mathbf{V}}}$	root
	Password:
	Use Password Manager to remember this password.
	V OK K Cancel
-	

A window will open, prompting you to enter a User ID and Password.

Enter *root* as the User name and leave the password field *blank*.

Your AirStation's SmartRouter technology will determine the type of internet connection you have automatically, and ask you for any needed information. If your ISP assigns IPs automatically (most cable providers do), their DHCP server will give your router an IP address. If additional login information is required to connect to the internet, the wizard will ask for it. Enter any required login

Setup Basic Settings	1
D	etecting Internet connection (Resetting) hecking WAN type
	Checking WAN type automatically. Please wait
	If the screen does not change for a while, please click here.
_	(C)2000-2006 BUFFALO INC. All rights reserved.

information if asked. Contact your DSL provider for any missing login information.

Congratulations! You are now connected to the internet. Open a familiar web page to make sure everything is working correctly.



Connecting Wireless Clients to the Access Point



To connect wireless devices to the AirStation, you may either enter the SSID and encryption key manually, or you can use AOSS. For more information on AOSS, see pages 14 and 15.

Consult your wireless clients' manuals for instructions on configuring them manually. You can get SSID and encryption information from the AirStation's

initial setup screen, as shown above. By default, encryption is *not enabled* ("open").

If you prefer to use encryption and/or a different SSID, you may change these default settings under the *Wireless Config* Tab.

Basic Setup Page

	7				Air	Station
Setup	Internet/LAN	Wireless Config	Security	LAN Config	Admin Config	Diagnostic
zards & Over	rview					Logo
Easy Setup		Intern	et Information		Wizards & Overv	lew
Basic Settin Wireless St Mode) Wireless Er	gs SID & Channel(11n300) nonption (WEP/TKIP/AE	(Get : Serve Come	In IP Address fro r->No Internet c clion Condition Release	m the DHCP able) Contacting Renew	Wizards for [Easy left. An overview of you system information the right.	Setup] are on the r AirStation's n is displayed on
Internet Internet Gar Windows Li Wireless Mr	mes (Port Forwarding) ive (MSN) Messenger uticast Rate	WIREL IEEE 0 SSD	ESS 002.11g (Auto / 5 000 tication One	ch) C43288080	Basic Settings Run Internet Con (Easy Setup) This Waard scan	nection Wizard
Dother Update AirS Initialize Airs	Station Firmware Station	Encryp	ton Ope	n AOSS Setting Page	Internet. Most cat connect automat Internet Connect DSL moderns m information to co Internet. If your co a possword or di	Ne moderns will cally when the on Wizard is run, ay require PPPoE nnect to the innection requires the PPPoE
		Langu	iage	setup	can provide this i don't have it. Wireless SSID & Channel (11)300	it read/(Your ISP nformation if you MHz Mode)

You can get back to the Setup page from anywhere in the configuration screens by clicking on the *Setup* tab in the top left corner. From here, you can rerun the Internet Connection Wizards, change your wireless SSID and channel, and choose your encryption type under Basic Settings. The *Wireless* section shows your SSID and encryption settings.

You can also configure *port forwarding* for your internet games, configure your *UPnP settings*, update your AirStation's firmware, and reset your AirStation to factory settings. As you explore the configuration tool, you'll see that context sensitive help is available on the right side of each page.

Navigating the Menus

The menus in the Configuration Tool let you change your AirStation's settings. To navigate settings, choose a *category* at the top of the page and then a *submenu* below. Settings will appear on the left, help files on the right. This example shows the Internet/LAN category with the LAN submenu item selected.

_	BUFFALO WHR-G300N	Wireless Access Point AirStation	
Category ——— Tabs	Return Internet/LAN Wireless Config Security Internet/PPPOE DDNS LAN NAT Route LAN Side IP Address PAddress 192.168.11.1 State LAN Side IP Address Statest Statest Statest 9	LAN Config Admin Config Diagnostic LAN Side Ethernet Settings Configue the ArStation LAN E Configue the ArStation LAN E	
Individual ———	DHCP Server Function ✓ Enable DHCP IP Address Pool 192 183 112 for up to [64 Address(ex) LAN Side IP Address IP Adress IP Adress IP Adress C/Gr P Unnamber(ht) Souther Masex 255 255 255 0 _	bird) - Selver defining inter. Unless by default settings are recommended. Note If you have an existing UAI, the Addition's configuration must be relate to page to set up your Aristation on an existing network.	
Settings	DHCP Server Settings [Advanced Settings] Advanced Settings Display Apply	LAN Side IP Address Configure be Address in AN E Address The default is 1921 169,111 and Yoo want to default the original strategies unused effects a unused E Address from the LAN's range of IP addresses	— Help and Instructions

The following pages show examples of some screens from the configuration utility.

Initialize/Reboot

BUFFALD WHR-G300N	2				Air	Station
Setup	Internet/LAN	Wireless Config	Security	LAN Config	Admin Config	Diagnostic
Name Passwor Initialize/Restar	t Update	Access Log Sav	e/Restore			Logout
					Initialize/Restart	
Restart Restar	nots your AirStation.				Restart	
Initialize Initialize	restore your AirStation t	o the factory default setting	8.		This reboots your Settings affectes Restarting will re default time.	AirStation. #: set the clock to
					Initialize	
					This will restore yr factory default set Settings affecte All settings will b defaults.	our AirStation to the tings. d: e reset to their



The Initialize/Restart page can be reached by choosing the *Admin Config* catagory tab and then clicking on the *Initialize/Restart* submenu.

Click *Restart Now* from this page to restart your AirStation. Click *Initialize Now* to restore your AirStation to factory defaults and restart it.

You may also initialize your AirStation by holding down the *Reset* button on the bottom for 3 seconds with a straightened-out paper-clip or similar object.

BUFFALL WHR-G300N) N				Air	Station
Setup	Internet/LAN	Wireless Config	Security	LAN Config	Admin Config	Diagnostic
WPS AOSS	Basic(11g) Advan	ced(11g) WMM(11g)	MAC Filter	Multicast Control		Logout
17 1 0 2010					AOSS (AirStatio Secure System) AOSS is Buffalo's technology for qui	n One-Touch
AOSS Settings	- Edit AOSS Client	Information			can see AOSS's status from this s	onniection. You configuration and creen.
Advanced Encry	ption Level feature	Enable	because AUSS is	osabred.	IStart AOS	51 button
Exclusive SSID 1 AOSS Button or	for WEP the AirStation Unit	Enable V Enable			Click this button t AOSS button on t works the same a	o start AOSS. The op of the router is this button.
Apply					Refer to How to u details.	se AOSS for more
					- MIDisable AC	SSI button

You can get to this page by selecting the *Wireless Config* category and choosing the *AOSS* submenu.

The blue AOSS button at the top left of the page has the same function as the physical AOSS button on the top of the router: it initiates the AOSS process.

If all your clients support AOSS, it's very simple to set them up. Press the AOSS

button on the router, or the one on this page, and then push the AOSS button on the client device.

Each client device will have to be set up seperately. Wait for each AOSS process to finish before starting the next one.

You can also activate AOSS by pushing the button on the top of your AirStation (see page 16). Consult your client device's documentation for the location of its AOSS button.

If you've used AOSS to configure some wireless clients, and now want to add other wireless clients that don't support AOSS to your network, this screen will give you the information you need to connect them manually.



AOSS (AirStation One-Touch Secure System) is a simple system for configuring your wireless network securely. If your router and your client device are installed and both support AOSS, then making a secure wireless connection between them is very easy.

Push the AOSS button on the top of your router and hold it in for a few seconds. The AOSS light will begin to flash amber. You now have two minutes to push the AOSS button on your client device and finish the connection.

An AOSS compatable standalone client device will probably have a little red button labled "AOSS" on it. Push the button! About 15 seconds later, you'll have a secure network connection.

If your client device is a PC card, CardBus, or PCI adaptor, the AOSS button will probably be in its *Client Manager Software*. Check your client device's user manual for instructions on where to push or click the AOSS button.

After you've pressed both buttons, it will take about 15 seconds for the connection to complete. When it's finished, the AOSS light witll glow a solid amber. You now have a secure network connection!

Some things to keep in mind with AOSS:

- Only one AOSS wireless client adapter can be configured with the AOSS router at a time. The buttons will need to be re-pressed to connect each additional AOSS wireless client adapter.
- It is not necessary to AOSS client devices that have already been configured via AOSS, unless significant changes have been made to the wireless network.
- Do not attempt to configure two separate AOSS networks at the same time, as it may cause undesired configurations.
- If an undesired client has connected via AOSS, it can be disconnected from within the WHR-G300N's advanced configuration menus.
- Even if your client device doesn't officially support AOSS, you may still be able to use AOSS if you install Buffalo's Client Manager software on your computer. It works with most client devices, including many made by other manufacturers. You can download it from *www.buffalotech.com*.

Router/Access Point Mode



This AirStation supports quickly changing the product from a full wireless router to a simple access point.

Put your Airstation into Access Point Mode by moving the "ROUTER" switch on the bottom of your AirStation from ON to OFF. This changes the default IP address of the AirStation from 192.168.11.1 to 192.168.11.100, and DHCP, NAT, and the WAN port are disabled. All router functionality is disabled, and the WHR-G300N becomes a simple access point.

With the switch in the AUTO position, the AirStation serves as a 5 port switch, with IP addressing handled by an external UPnP DHCP server. You will need an external UPnP DHCP server to use this mode, or manually assign all IP addresses.

To use the AirStation as a normal wireless router, this switch must be the (ON) position.

BUFFALD WHR-G300N					Air	Statior
Setup	Internet/LAN	Wireless Config	Security	LAN Config	Admin Config	Diagnosti
WPS AOSS B	asic[119] Advan	ced(119) WMM(119)	MAC Filter	Multicast Control		1.00
					Basic Wireless S	etting (11g)
Wireless Radio Wireless Channel 300MHz Mode Broadcast SSID Use Multi Security	Enable Auto Channel Auto Channel Band Widh : 40 M Edension Channel Alsov tunction	(Current Channet 5)			You can set basic information for you manually here. If e used, communica established just b Encryption is high however. Wireless Radio Unchecking "Ensi- wireless LAN func disabled, all wield	configuration in wireless LAN incryption is not tion will be y this basic setu ly recommended ole" will disable tionality. When iss functionality.
Separate feature SSID	Configur	e AirStation's MAC address)	100C43289193)		Default value is en	abled. I
Wreless authenti Wreless encrypti Apply	* Enter (w cation No auftent n No encrypt	cation ·			You may specify i (foquancy band) i communication. If wireless clients m you may get interf a different (and pri non-overlagging) c case. Available ch which wireless busing. When Auto solicited a vacant solicited automati- 1-11 Channel (Det channel)	a channel or your wireless there are other ser the AcStation terence. Change derably hannel in this annels vary with indext you're channel is channel is channel is channel is channel is

By default, encryption is not enabled on the AirStation unless you used AOSS to perform your setup. Anyone within range can easily connect to your wireless network. This might not be what you want.

Buffalo recommends enabling encryption and setting a password for access to your network. This is easy to configure from within the AirStation's configuration tool. From the opening page, select *Wireless Config* Tab, select the *Basic* submenu.

BUFFALD WZR2-G300N						Air	ss Access Poin Statio	n
	NTERNET/LAN	Wireless Config	Security	Gaming			Diagnos	tic
WPS AOSS	Basic(119)	Security(119)	dvanced(119)	WMM(119)	Repeater[119	MAC	Filter Log	jout
					Wire	ess Security		1
Wreless Authentica Wreless Encryption	ation Open				You o config manual	an set the sec uration for you ally here.	urity r wreless LAN	ľ
WEP Encryption Ke	Drancler input : 13 F 1	i characters (WEP128) 💌			Not Sec Bet Sec	e AOSS is acti unty settings ho ine using youri er activate AOS utty manually.	iated changing as little effect. Vireless network S or set up	ĸ
Apply					Oper With AirSti LAN (Anyo	ess Authentik his setting en tion does not lients to auth lie can cornec	abled the require wireless stricaate. 1 to your	
		(0)2006-20	07 BUFFALO INC. A	trights reserved.				

Many kinds of encryption are available. WEP works with almost everything. WPA2-PSK is much more secure. Choose the strongest method of encryption that works with all of your wireless devices.

If you must use WEP, it is available under "Wireless Encryption".

BUFFALD WZR2-G300N			Air Station
Setup INTERNET/LAN Wireless Config		Gaming Ports	Admin Config Diagnostic
WPS AOSS Basic(11g) Security(11g) Adva	inced(11g) W	MM(11g) Repeat	er(119) MAC Filter Logout
			Wireless Security
Vireless Authentication WPA/WPA2 mondmode - PSK 💌 Vireless Encryption TCP/AES mondmode 📼			You can set the security configuration for your wireless LAN manually here.
VPA-PSK (Pre-Shared Key) Rekey Interval 60 minutes			Note While AOSS is activated changing security settings has little effect. Refere using your wireless petwork.
feety .			either activate AOSS or set up security manually.
			Wireless Authentication
			Open With this setting enabled the AirStation does not require wireless LAN clients to authenticate. Anyone connect to your wireless network.
			WPA.PSK Clients are authenticated in
(C)2001-2017 (SUFFALO INC. AE 113	No recorded	And the state of t

Enter a network key ("password") for this connection. Write down your password and put it in a safe place. You will not be able to connect wireless devices to your network without this password.