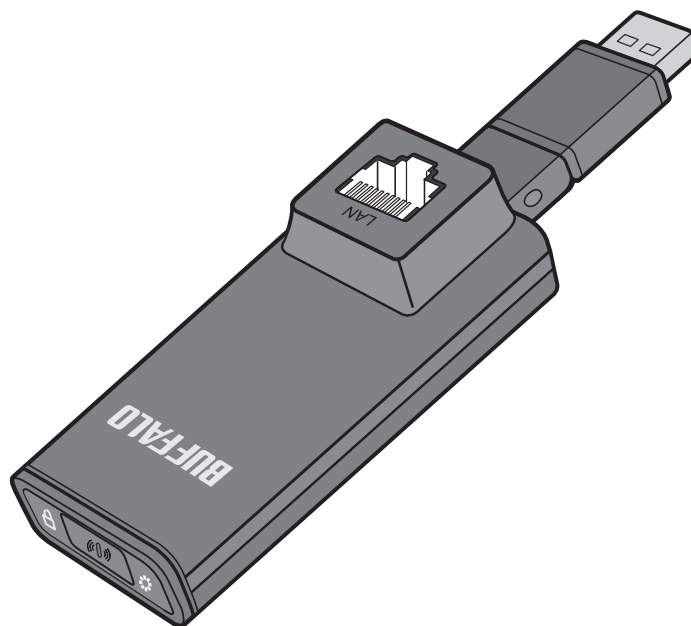


# User Manual

AirStation Wireless-N Media Bridge

**WLI-UTX-AG300**



[www.buffalotech.com](http://www.buffalotech.com)

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# Chapter 1 - Product Overview

## Features

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### **Supports IEEE802.11n and IEEE802.11a/b/g**

With support for current Wireless-N, Wireless-A, Wireless-G, and Wireless-B standards, the AirStation can transfer data to and from all standard 2.4 GHz and 5 GHz wireless clients.

This device does not support simultaneous communication on the 2.4 GHz and 5 GHz bands.

### **Supports 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**

The AirStation supports the following security standards:

- AOSS
- WPS
- WPA-PSK (TKIP/AES)
- WPA2-PSK (TKIP/AES)
- WPA/WPA2 mixed PSK
- WEP (128-bit/64-bit)

## 300 Mbps High Speed Mode

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300 Mbps is the maximum link speed when using Wireless-N mode with dual 40 MHz channels. Usable sustained data rates will be substantially slower.

## Package Contents

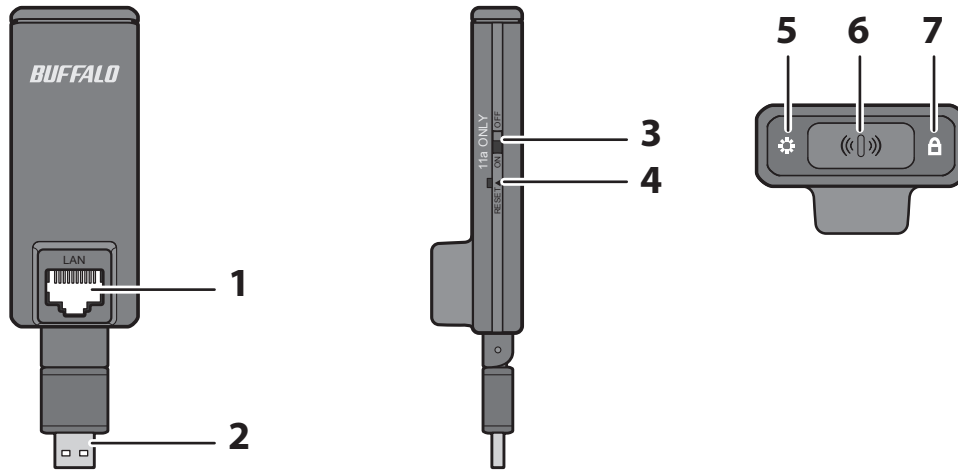
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The following items are included in your AirStation package. If any of the items are missing, please contact your vender.

- WLI-UTX-AG300 ..... 1
- USB cable ..... 1
- LAN cable ..... 1
- Quick Setup Guide..... 1
- Setup CD ..... 1

# Hardware Overview

## Front View



### 1 LAN Port

Connect your computer to this port. This port supports 10 Mbps and 100 Mbps connections.

### 2 USB Connector

Connect your computer to this port (for power).

### 3 11a ONLY Switch

When turned on, the wireless connection is limited to the 5 GHz band only. Turn on only if you have a compatible wireless access point.

### 4 Reset Button

To restore the wireless media bridge back to factory default settings, press and hold this button until the red Diag LED flashes (about 3 seconds).

### 5 Diag LED(Red)

Shows wireless media bridge status.

On	During boot.
2 blinks	Flash ROM error.
3 blinks	Wired Ethernet LAN error.
4 blinks	Wireless LAN error.
off	Normal operation/Power off

## **6 AOSS/WPS Button**

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

## **7 SECURITY LED(Blue)**

Shows wireless LAN status.

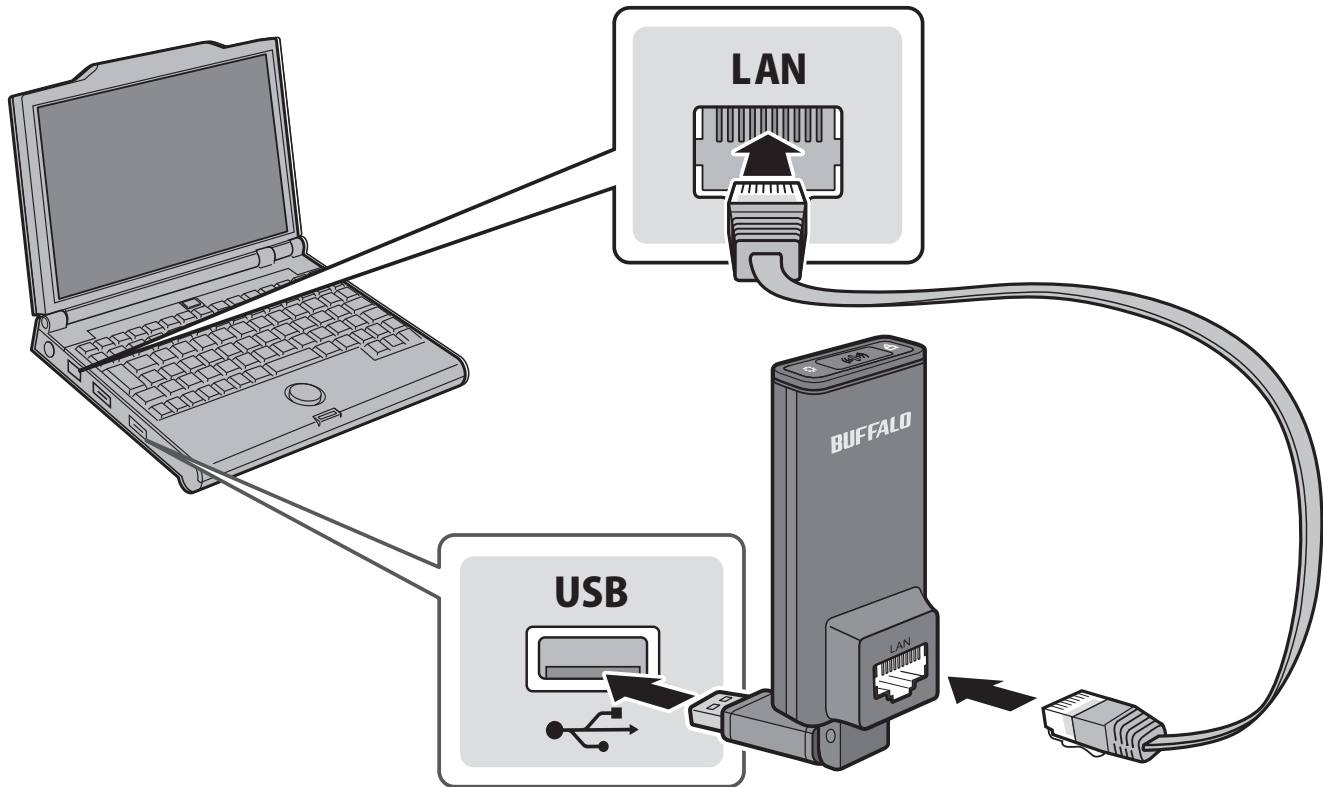
On	During boot and for one minute after wireless settings are complete
2 blinks	During AOSS/WPS
Blinking	AOSS/WPS error
Off	Normal operation/Power off



# Chapter 2 - Installation

## Setup

---



- 1** Connect the USB port of the wireless media bridge to a PC.
- 2** Connect the wireless media bridge to the PC with a LAN cable.

If this product is wirelessly connected with a TV, this completes the procedure.

If using this product for the first time (or when a wireless connection has not been made before), or if the wireless access point did not support AOSS or WPS, establish the wireless connection by referring to chapter 4.

# Chapter 3 - Configuration

The web-based configuration tool lets you change the wireless media bridge's settings. Don't change these settings unless you know what you're doing.

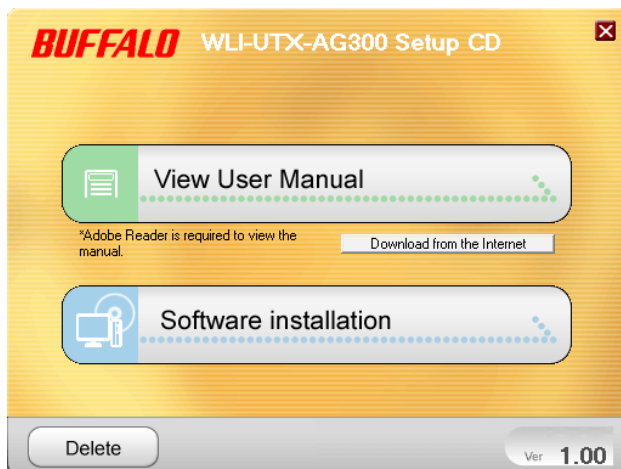
## Installing the Ethernet Converter Manager (Windows)

---

The Ethernet Converter Manager is required to display the wireless media bridge Configuration Interface in a Windows computer. Use the procedure below to perform the installation.

**1** Load the Setup CD into your computer.

**2**



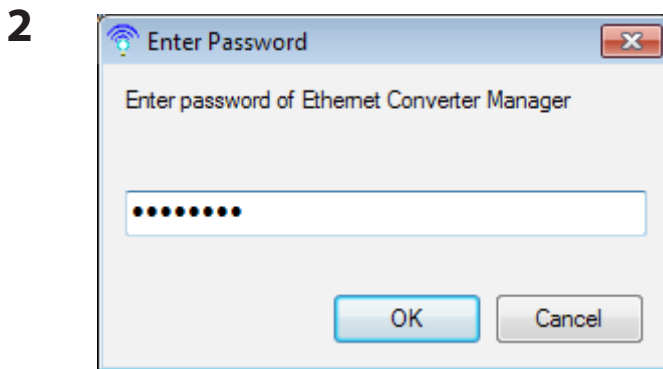
Click [Software installation].

**3** Step through the wizard to install the Ethernet Converter Manager software.

## Setting the AirStation IP Address (Windows)

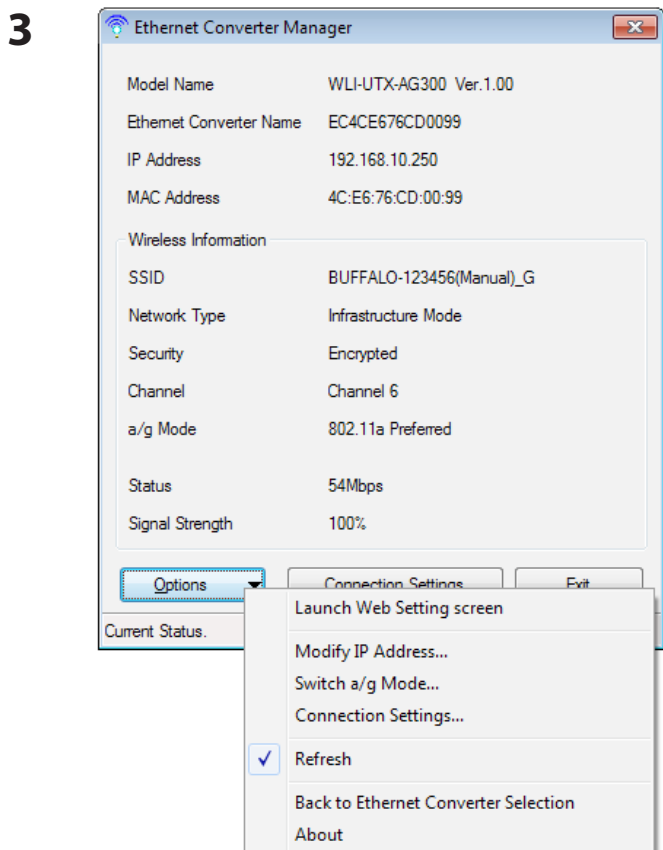
The Ethernet Converter Manager can be used to change the IP address of the wireless media bridge. If using a Windows computer, follow the procedure below to set the wireless media bridge IP address.

- 1 Click [Start] > [All programs] > [BUFFALO] > [AirStation Utility] > [Ethernet Converter Manager].



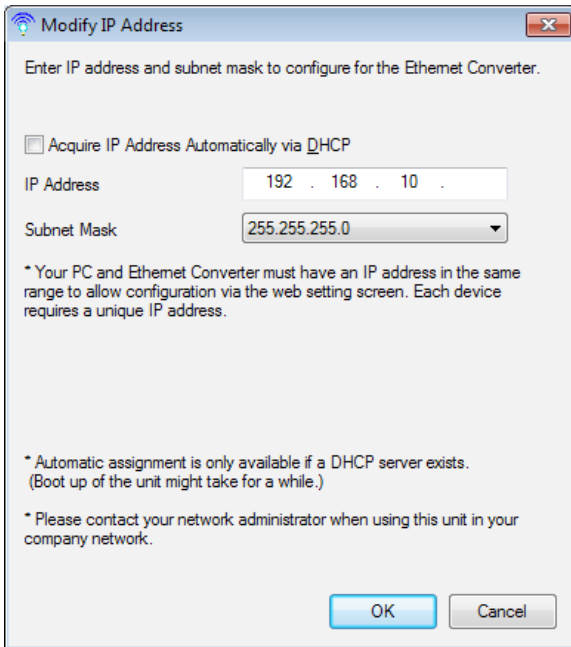
When this screen appears, enter the password, then click [OK].

- Notes:
- By default, the password is "password".
  - If you forget your password, hold down the reset button (page 6) to initialize all settings. The password will then be default("password"). Note that all other settings will also revert to their default values.



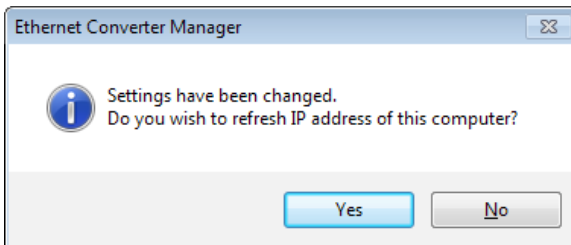
Click [Options] > [Modify IP Address...]

4



Select "Acquire IP Address Automatically via DHCP", and click [OK].

5



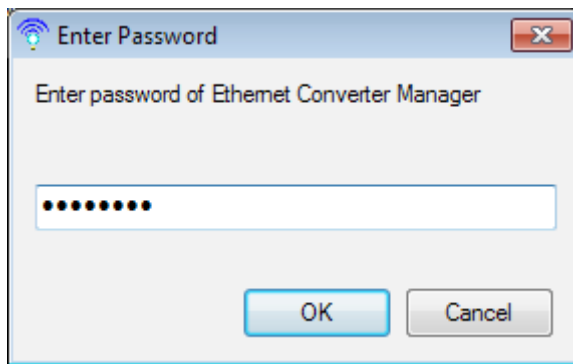
Click [Yes].

## Accessing the Web-based Configuration Interface (Windows)

To manually set the wireless media bridge advanced settings from a Windows computer, use the procedure below to log into the wireless media bridge Configuration interface.

- 1 Click [Start] > [All programs] > [BUFFALO] > [AirStation Utility] > [Ethernet Converter Manager].

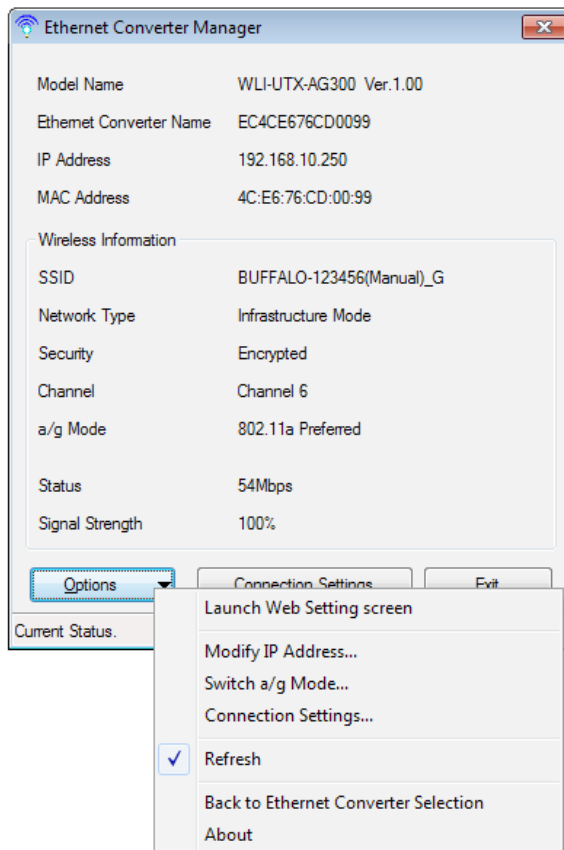
2



When this screen appears, enter the password, then click [OK].

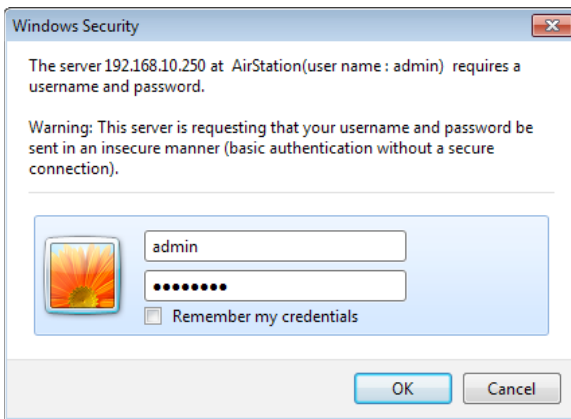
- Notes:
- By default, the password is “password”.
  - If you forget your password, hold down the reset button (page <?>) to initialize all settings. The password will then be default (“password”). Note that all other settings will also revert to their default values.

3



Click [Options] > [Launch Web Setting screen]

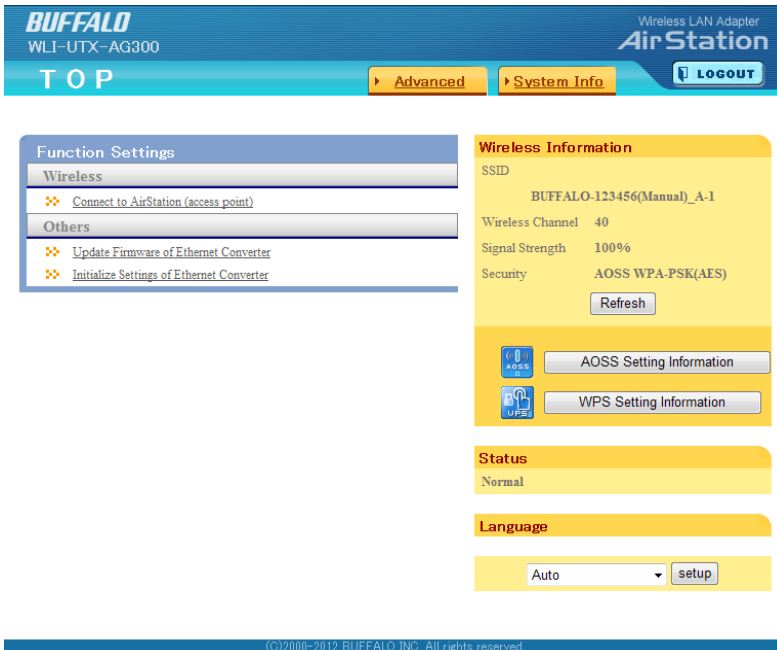
4



Enter "admin" for the username and "password" for the password, then click [OK].

Note: If the password was changed from the default, enter the modified password for the password.

5



This is the configuration interface, where most wireless media bridge settings can be configured.

## Accessing the Web-based Configuration Interface (Mac OS X)

---

After changing the IP address, the Web-based configuration interface is displayed. When the settings are complete, return the IP address to the original setting.

**1** Click [Apple menu] > [System Preferences...].

**2** Click [Network].

**3** Click [Ethernet].

**4** Select [Manually] in the Configure IPv4 field.

**Note:** To return the setting back to the original setting later, make a note of the IP address on a piece of paper or other location before changing it.

**5** Enter "1.1.1.2" for the IP address and "255.255.255.0" for the subnet mask, then click [Apply].

**6** Start the web browser, enter "http://1.1.1.1" (if using the default setting) in the address bar, and press the Enter key.

When a screen appears for entering the name and password, enter "admin" in the username field and "password" in the password field, and click [OK].

This completes the opening of the Web-based configuration interface.

Once the settings are finished, use the above procedure to return the IP address to its original setting.

## Configuration Interface Menus

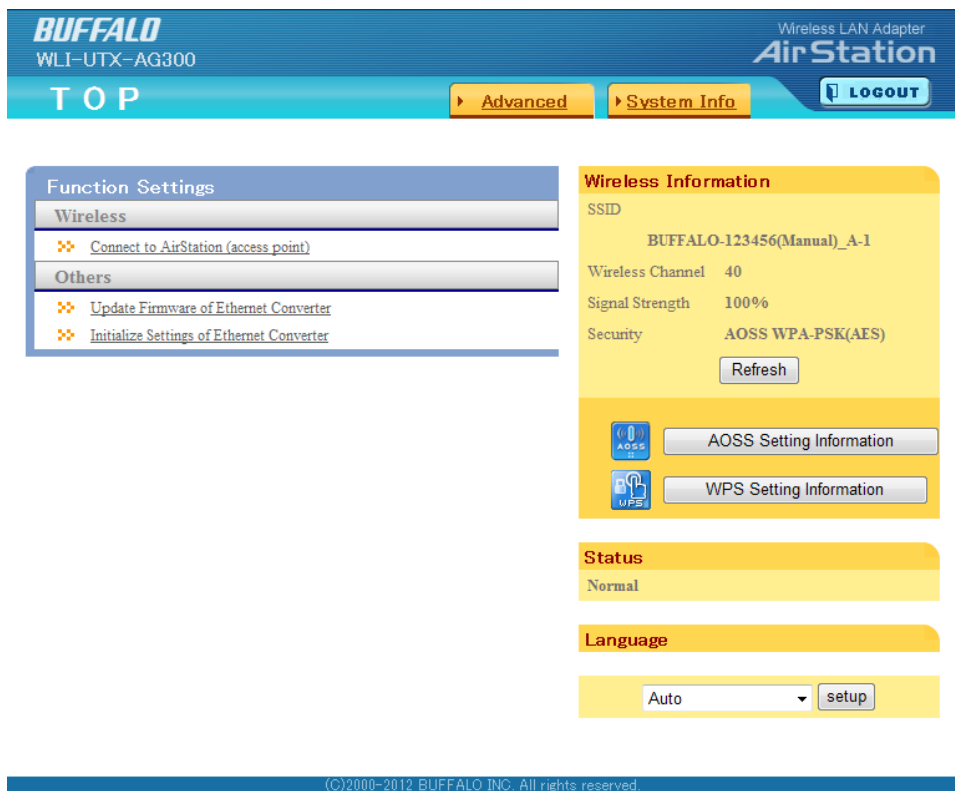
The following settings may be changed from the configuration interface. Please refer to the pages listed at right for explanations of each item.

Main screen	Descriptions	Page
<b>Address Configuration</b>		
Unit Address Settings	Configure the wireless media bridge's IP address.	Page 18
<b>Wireless Config</b>		
WPS Security Information	WPS Status and Settings.	Page 19
AOSS (AirStation One-Touch Secure System)	AOSS Status and Settings.	Page 20
Basic Wireless Settings(11a/11g)	The screen to configure a basic wireless settings.	Page 21
<b>Admin Config</b>		
Name/Password Setting	Configure basic wireless media bridge settings.	Page 24
Initialize/Restart	Initialize or restart the wireless media bridge.	Page 26
Firmware Update	Update the AirStation's firmware.	Page 27
<b>Diagnostic</b>		
System Information	View system information for the wireless media bridge.	Page 28
<b>Logout</b>		
Click this to log out of the Wireless Media Bridge's configuration screens.		



# Home

This is the home page of the configuration interface. You can verify settings and the status of the wireless media bridge here.



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Parameter	Meaning
Advanced	Click this button to display the configuration screen for advanced settings.
System Info	View system information for the Wireless Media Bridge.
Wireless Information	Displays the current wireless settings.
Refresh	Click this button to update information.
AOSS Setting Information	Click this button to display the AOSS configuration screen.
WPS Setting Information	Click this button to display the WPS configuration screen.
Status	Displays the current status.
Language	Enables you to select the language you use.

---

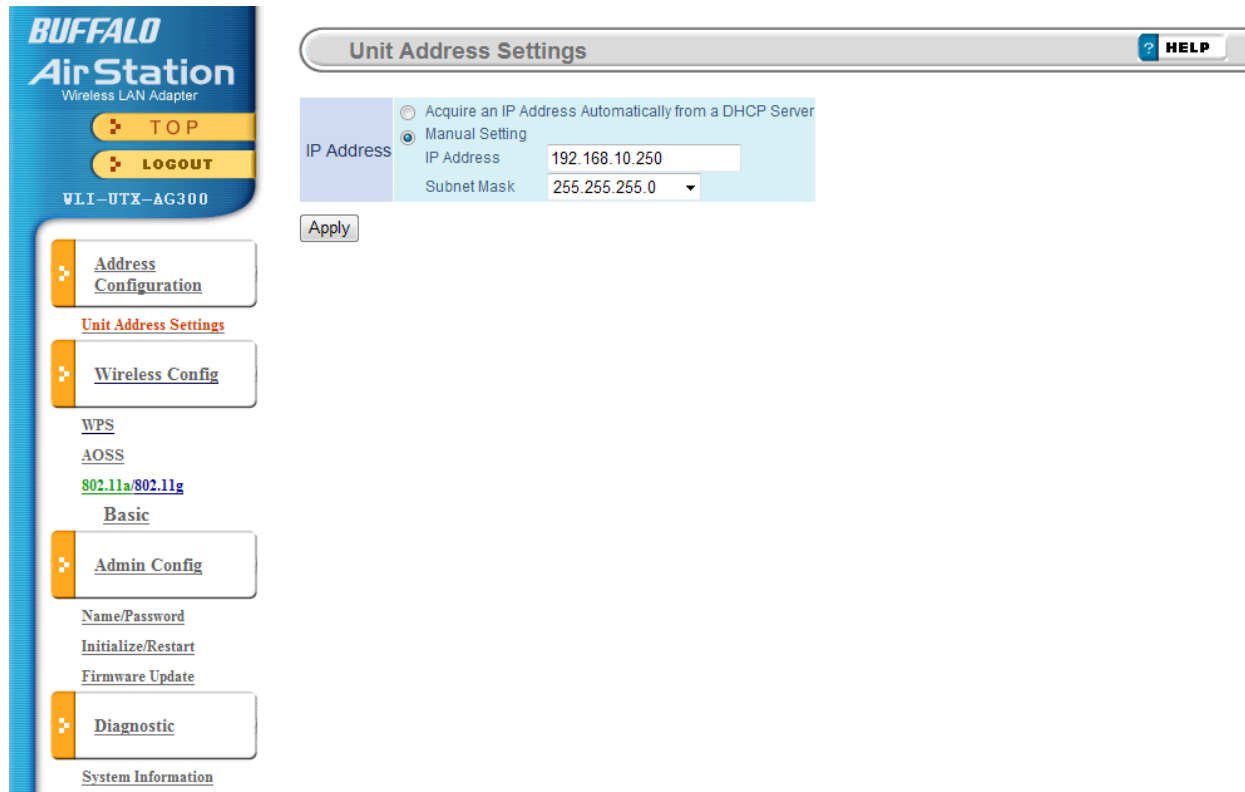
<b>Parameter</b>	<b>Meaning</b>
Log out	Log out from the configuration screen of the wireless media bridge. If the wireless media bridge does not communicate for 5 minutes, it will log out automatically.

---

# Address Configuration

## Unit Address Settings

Configure the wireless media bridge's IP address.



Parameter	Meaning
IP address	By default, the wireless media bridge's IP address is 1.1.1.1 with subnet mask 255.255.255.0. You may change it here.

# Wireless Config

## WPS Security Information

WPS Status and Settings.



Parameter	Meaning
WPS	Enable to use WPS automatic configuration.
WPS PIN code system	Displays the PIN code of the wireless media bridge. Enter this PIN to the wireless access point, and click [Start].
WPS Push Button Method	This uses the WPS Push Button method to obtain wireless security information from the wireless access point. After holding down the Security button on the wireless access point for at least one second, click [Start].

# AOSS (AirStation One-Touch Secure System)

AOSS Status and Settings.

The screenshot shows the Buffalo AirStation web interface. On the left is a navigation menu with options like 'Address Configuration', 'Wireless Config', 'Admin Config', and 'Diagnostic'. The main content area is titled 'AOSS (AirStation One-Touch Secure System)'. It features two buttons: 'Start AOSS connection' (with a blue wireless icon) and 'Stop AOSS connection and remove AOSS information.' (with a red 'X' over a wireless icon). Below these are 'AOSS Settings' and 'AOSS Connection Status' sections, each with a 'HELP' button. The 'AOSS Settings' section shows 'Encryption Type' as WPA-PSK(AES) and 'AOSS Button on the AirStation Unit' as checked. The 'AOSS Connection Status' section shows a table with details like SSID (BUFFALO-123456(Manual)\_A-1), Wireless Channel (40), Signal Strength (100%), and Connection Information (WZR-HP-AG300H Ver.1.71, AP0024A5C000D8, BUFFALO INC.).

**Parameter**

**Meaning**



Initiates AOSS automatic wireless configuration. Click this, then press or click the AOSS button on your AOSS-compatible wireless access point.



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

Displays the Encryption Type.

AOSS Button on the AirStation Unit

Uncheck to disable the physical AOSS button on the wireless media bridge.

AOSS connection status  
 (AOSS connections only)

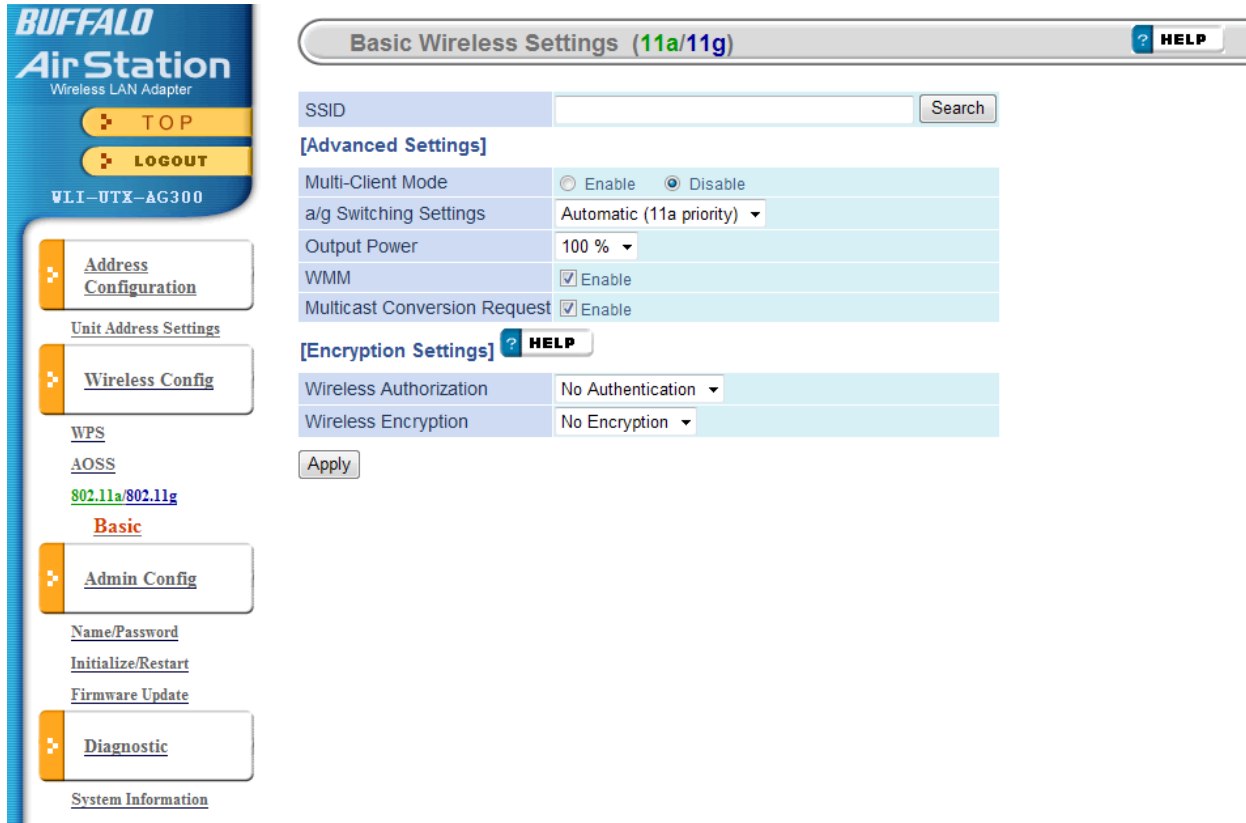
Displays information about wireless media bridges connected to the wireless access point via AOSS.

[Refresh]

Click this button to update information.

## Basic Wireless Settings(11a/11g)

The screen to configure a basic wireless settings.



Parameter	Meaning
SSID	Set SSID using 1-32 alphanumeric characters.
Multi-Client Mode	Enable multi-client mode if a hub is connected to the LAN port to allow connection of multiple devices.  Note If multi-client mode is enabled, "Wake up on LAN", "DLNA", and certain other functions and protocols can no longer be used.

---

Parameter	Meaning
a/g Switching Settings	<p>This specifies the band used when connecting with the wireless access point.</p> <p><b>Automatic (11a priority)</b> First, a connection is tried at 802.11a, and if a connection cannot be made, a connection is tried at 802.11g. This setting is enabled only when connected by AOSS.</p> <p><b>Automatic (11g priority)</b> First, a connection is tried at 802.11g, and if a connection cannot be made, a connection is tried at 802.11a. This setting is enabled only when connected by AOSS.</p> <p><b>11a only</b> Only 802.11a connections are allowed. Even if an 802.11a connection cannot be made, 802.11g is not used.</p> <p><b>11g only</b> Only 802.11g connections are allowed. Even if an 802.11g connection cannot be made, 802.11a is not used.</p>
Output Power	<p>This sets the output of the wireless signal. Because the wireless transmission output and signal distance range are nearly proportional, when the wireless transmission output is reduced, the signal distance range also becomes shorter.</p>
WMM	<p>Set priorities for specific communications.</p>
Multicast Conversion Request	<p>Specific multicast data (such as video broadcast data) can be transferred at high speeds to an access point that supports the multicast control.</p>
Wireless Authentication	<p>Specifies an authentication method for wireless connections.</p>

Parameter	Meaning
Wireless Encryption	<p>You may use any of the following types of encryption:</p> <p><b>No encryption</b> 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.</p> <p><b>WEP</b> 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.</p> <p><b>TKIP</b> 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.</p> <p><b>AES</b> 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.</p>
WPA-PSK(Pre-Shared Key)	<p>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 a character (ASCII) passphrase, or use 64 digits using 0 to 9 and a to f (not case-sensitive) for a hexadecimal passphrase.</p>
WEP Encryption Key	<p>A WEP encryption key (passphrase) may have any of four different formats. A character (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).</p>



# Admin Config

## Name/Password Setting

Configure basic wireless media bridge settings.

The screenshot shows the Buffalo AirStation web interface. On the left is a sidebar with navigation buttons: **Address Configuration** (Unit Address Settings), **Wireless Config** (WPS, AOSS, 802.11a/802.11g, Basic), **Admin Config** (Name/Password, Initialize/Restart, Firmware Update), **Diagnostic**, and **System Information**. The main content area is titled "Name/Password Setting" and includes a "HELP" button. It contains the following fields and settings:

- Ethernet Converter Name:** EC4CE676CD0099
- Administrator Name:** admin(fixed)
- Administrator Password:** [masked] (Confirmation)
- [Access Restriction]**
  - Settings from Wireless LAN:  Allow
  - Settings from Wired LAN:  Allow
- \*When both wireless and wired LAN PCs configuration is disabled, configuration from web setting screen is unable without reset by INIT switch.**
- Apply** button

Parameter	Meaning
Ethernet Converter Name	Enter a name for the wireless media bridge. Names may include up to 32 alphanumeric characters and hyphens (-).
Administrator Name	The Administrator name is used to log in to the wireless media bridge's configuration interface. This name is fixed as [admin].
Administrator Password	The password is required to log in. It may contain up to 8 alphanumeric characters and underscores (_).
Settings from wireless LAN	If disabled, prevents access to settings screens from wirelessly connected devices (only wired devices may configure).

---

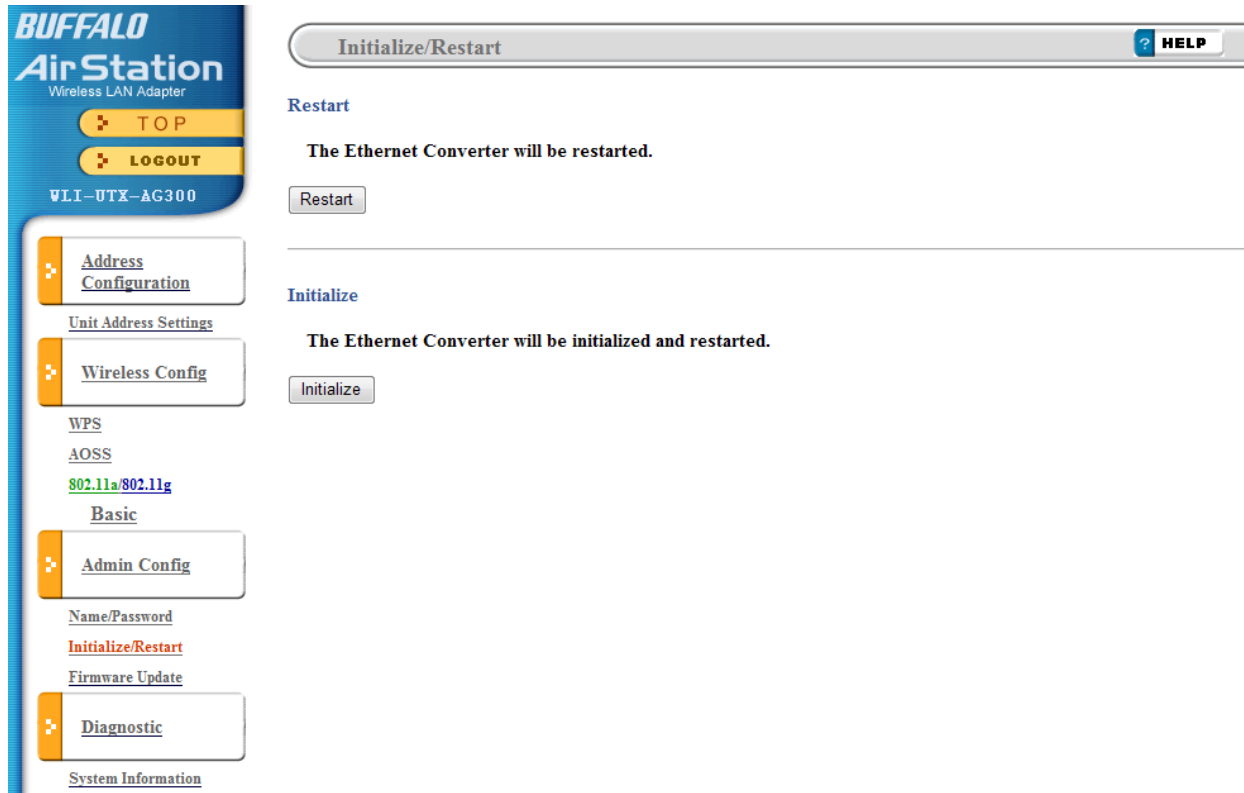
<b>Parameter</b>	<b>Meaning</b>
Settings from wired LAN	If disabled, prevents access to settings screens from wired devices (only wirelessly connected devices may configure).

---

Note: If configuration is disabled from both wired and wireless PCs, you will not be able to configure the wireless media bridge further until it is initialized with the reset button.

## Initialize/Restart

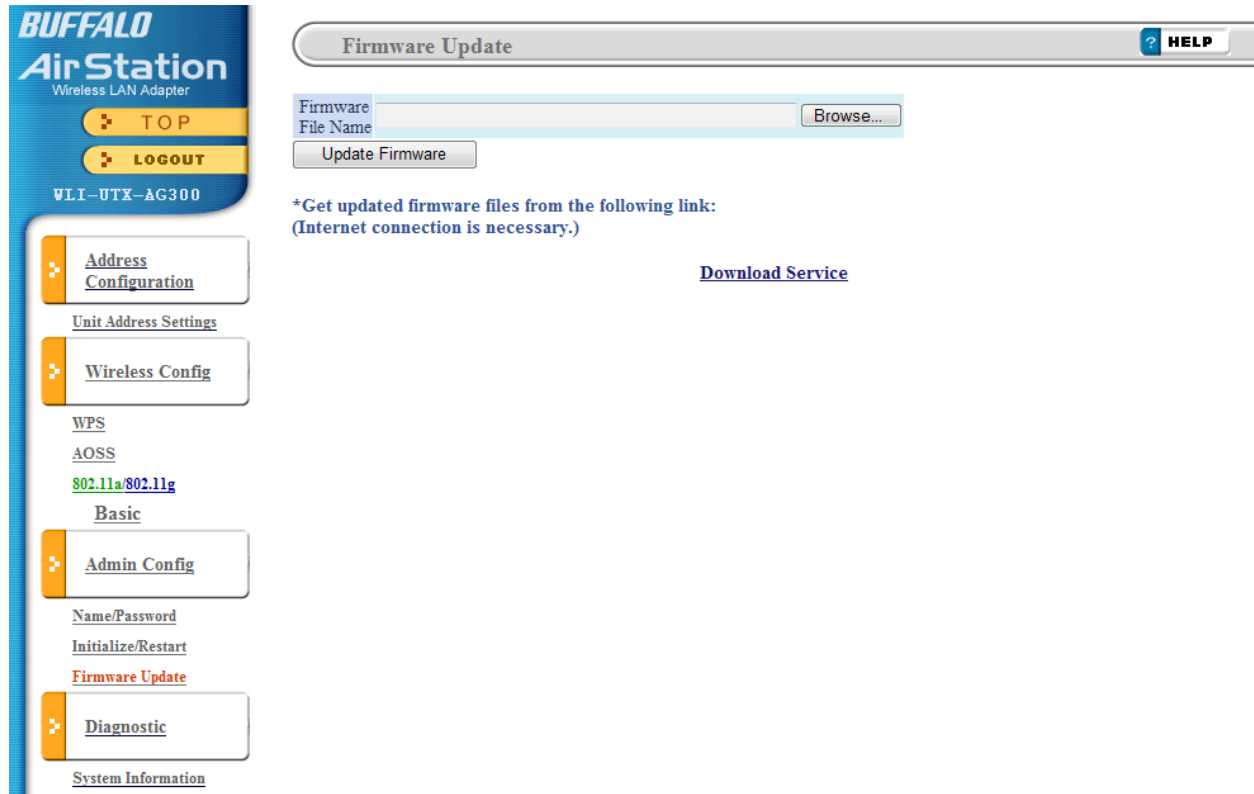
Initialize or restart the wireless media bridge.



Parameter	Meaning
Restart	Click [Restart] to restart the wireless media bridge.
Initialize	Click [Initialize] to initialize and restart the wireless media bridge.

## Firmware Update

Update the AirStation's firmware.

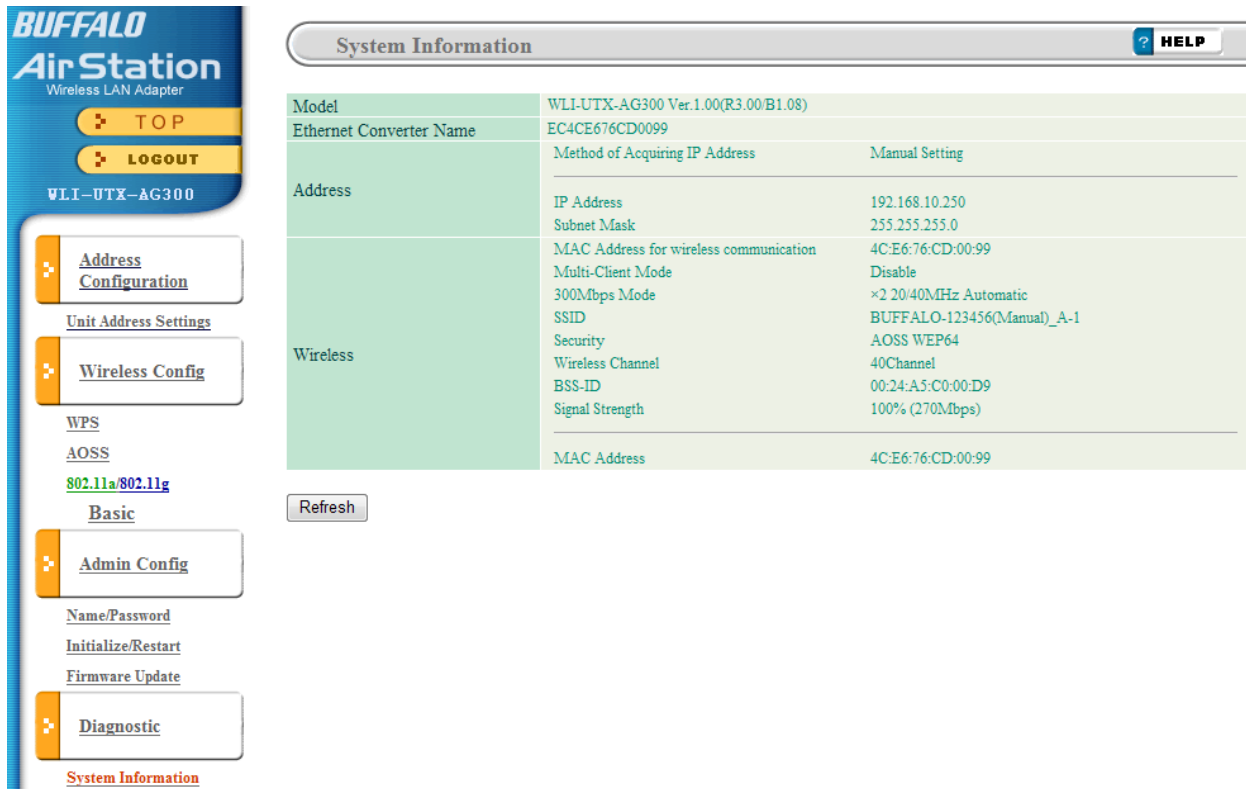


Parameter	Meaning
Firmware File Name	Click [Browse...] to specify a firmware file, then click [Update Firmware].

# Diagnostic

## System Information

View system information for the wireless media bridge.



The screenshot shows the Buffalo Air Station WLI-UTX-AG300 web interface. The left sidebar contains navigation options: Address Configuration, Unit Address Settings, Wireless Config, WPS, AOSS, 802.11a/802.11g, Basic, Admin Config, Name/Password, Initialize/Restart, Firmware Update, Diagnostic, and System Information (highlighted in red). The main content area is titled 'System Information' and features a 'HELP' button. Below the title is a table of system parameters:

Model	WLI-UTX-AG300 Ver.1.00(R3.00/B1.08)	
Ethernet Converter Name	EC4CE676CD0099	
Address	Method of Acquiring IP Address	Manual Setting
	IP Address	192.168.10.250
Wireless	Subnet Mask	255.255.255.0
	MAC Address for wireless communication	4C-E6-76-CD-00-99
	Multi-Client Mode	Disable
	300Mbps Mode	×2.20/40MHz Automatic
	SSID	BUFFALO-123456(Manual)_A-1
	Security	AOSS WEP64
	Wireless Channel	40Channel
	BSS-ID	00:24:A5:C0:00:D9
	Signal Strength	100% (270Mbps)
	MAC Address	4C-E6-76-CD-00-99

A 'Refresh' button is located below the table.

### Parameter

### Meaning

Model	Displays the product name of the wireless media bridge and the firmware version.
Ethernet Converter Name	Displays the wireless media bridge's name.
Address	Displays the wireless media bridge's IP address and associated settings.
Wireless	Displays the wireless status.

# Chapter 4 - Connect to a Wireless Network

## Automatic Secure Setup (AOSS/WPS)

---

AOSS and WPS are systems which let you automatically configure wireless LAN settings. Just pressing the buttons will connect wireless devices and complete security settings. Easily connect to 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.

If you are using a wireless access point which supports AOSS or WPS, refer to that device's manual to initiate AOSS/WPS. When instructed, hold down the AOSS button on the wireless media bridge for one second.

When the Security LED stops flashing and begins to glow steadily, the connection is complete.

## Manual Setup

---

Use the procedure below to connect to wireless access points that do not support AOSS or WPS.

### Windows

- 1 Click [Start] > [All programs] > [BUFFALO] > [AirStation Utility] > [Ethernet Converter Manager].

Note: When the screen for entering the password is displayed, enter "password". If the password was changed from the default, enter the modified password for the password.

- 2 Click [Connection Settings].
- 3 Click [Scan].
- 4 Select the wireless access point, set the encryption method and encryption key, and click [OK].
- 5 When the message "Setting Complete" is displayed, click [OK].

### Mac

- 1 Refer to Chapter 3 to display the configuration screen.
- 2 Click [Connect to AirStation (access point)].
- 3 Click [Select], and select the AirStation (access point) that will be connected.
- 4 Select the encryption method, enter the encryption key, and click [Apply].

# Chapter 5 - Firmware Update

## Firmware Update

---

To update the firmware for the wireless media bridge, perform the procedure below.

- 1** Download the latest firmware from <http://www.buffalotech.com/>.
- 2** Refer to Chapter 4 to display the configuration interface.
- 3** Click [Update Firmware of Ethernet Converter].

Then, follow the on-screen instructions to update the firmware.



# Chapter 6 - Troubleshooting

## When connection to a wireless access point is not possible

---

- Use a USB extension cable to bring this product closer to the wireless access point, then try AOSS again.
- Turn the power for the wireless access point off and then on again.
- Check whether this product is correctly connected to the TV.
- If the '11a Only' switch is on, turn it off.

## Cannot connect to TV

---

- Use the supplied USB extension cable to connect.

## If suddenly disconnected from the Internet

---

- Check that the access point is on. Have settings been changed?
- If the Security LED is blinking, perform the procedure in the Quick Setup Guide again.

## Diag LED is flashing

---

- See the information in "Diag LED (Red)" in "Hardware Overview" of chapter 1.

## Cannot access the web-based configuration interface.

---

- See chapter 3 for instructions to open the wireless media bridge's configuration interface.
- Enter the correct username and password to log in to the configuration interface. The factory defaults are "admin" (lower case) for the username and "password" (lower case) for the password. If you changed the password, enter the new password that you set.
- Verify that your web browser is not set to use proxies.
- Restart your wireless media bridge.

## Cannot connect to the network wirelessly.

---

- Place your wireless media bridge and wireless access point 2 - 10 feet apart.
- Restart your wireless media bridge.

## Other Tips

---

### Issue:

I reset my wireless media bridge to factory settings and forgot how to log in to the web configuration interface.

### Answer:

Refer to Chapter 3 to login to the wireless media bridge's web configuration interface. The username is [admin] and the password is [password] by default.

### Issue:

How do I change my wireless media bridge's network name (SSID)?

### Answer:

Refer to Chapter 3 to log in to the wireless media bridge's web configuration interface. Click [802.11a/802.11g]. Change the SSID as desired and click [Apply].

### 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](http://www.buffalotech.com)**

# Appendix A - Specifications

<b>Wireless LAN Interface</b>	
Standard Compliance	IEEE802.11a / IEEE802.11b / IEEE802.11g / IEEE802.11n
Transmission Method	Direct Sequence Spread Spectrum (DSSS), OFDM, MIMO
802.11a Frequency Range	Available 802.11a frequencies depend on the country of purchase.
802.11g Frequency Range	Available 802.11g frequencies depend on the country of purchase.
Transmission Rate	802.11b: 11, 5.5, 2, 1 Mbps 802.11a/g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11n 20 MHz BW (LongGI) 130, 117, 104, 78, 52, 39, 26, 13 Mbps (2 stream) 65, 58.5, 52, 39, 26, 19.5, 13, 6.5 Mbps (1 stream) 40 MHz BW (LongGI) 270, 243, 216, 162, 108, 81, 54, 27 Mbps (2 stream) 135, 121.5, 108, 61, 54, 40.5, 27, 13.5 Mbps (1 stream) (ShortGI) 300 Mbps (2 stream) 150 Mbps (1 stream)
Access Mode	Infrastructure Mode
Security	AOSS, WPS, WPA2-PSK (TKIP/AES), WPA/WPA2 mixed PSK, WPA-PSK (TKIP/AES), 128/64bit WEP
<b>Wired LAN Interface</b>	
Standard Compliance	IEEE802.3u (100BASE-TX), IEEE802.3 (10BASE-T)
Transmission Rate	10 / 100 Mbps
Transmission Encoding	100 BASE-TX 4B5B/MLT-3, 10 BASE-T Manchester Coding
Access Method	CSMA/CD
Speed and Flow Control	10 / 100 Mbps, Auto Sensing, Auto MDIX
Number of LAN Port	1
LAN Port Connector	RJ-45
<b>Other</b>	
Power Supply	5.0 V Bus powered
Power Consumption	About 2.5 W (Max)
Dimensions	36 mm x 135 mm x 26 mm (1.4 x 5.3 x 1.0 in.)
Weight	45 g (1.6 oz.)
Operating Environment	0 - 40° C (32 - 104° F) , 20 - 80% (non-condensing)

<b>802.11a Frequency Range</b>	
USA	5180-5240 MHz (Channels 36, 40, 44, 48)
Canada	5260-5320 MHz (Channels 52, 56, 60, 64)
Saudi Arabia	5500-5700 MHz (Channels 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140)
UAE	5745-5825 MHz (Channels 149, 153, 157, 161, 165)
Australia	
The Philippines	
Thailand	
Lebanon	
United Kingdom	5180-5240 MHz (Channels 36, 40, 44, 48)
Finland	5260-5320 MHz (Channels 52, 56, 60, 64)
Germany	5500-5700 MHz (Channels 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140)
France	
Spain	
Portugal	
Denmark	
Norway	
Sweden	
Austria	
Belgium	
Bulgaria	
Cyprus	
Czech	
Estonia	
Greece	
Hungary	
Ireland	
Italy	
Latvia	
Lithuania	
Luxembourg	
Malta	
Netherlands	
Poland	
Romania	
Slovakia	
Slovenia	
Swiss	
Iceland	
Turkey	
Oman	
Japan	

<b>802.11a Frequency Range</b>	
Kuwait	5180-5240 MHz (Channels 36, 40, 44, 48) 5260-5320 MHz (Channels 52, 56, 60, 64)
Jordan	5180-5240 MHz (Channels 36, 40, 44, 48) 5745-5825 MHz (Channels 149, 153, 157, 161, 165)
Bahrain Egypt Singapore India Malaysia South Korea	5180-5240 MHz (Channels 36, 40, 44, 48) 5260-5320 MHz (Channels 52, 56, 60, 64) 5745-5825 MHz (Channels 149, 153, 157, 161, 165)
Taiwan	5260-5320 MHz (Channels 56, 60, 64) 5500-5580 MHz (Channels 100, 104, 108, 112, 116) 5680-5700 MHz (Channels 136, 140) 5745-5825 MHz (Channels 149, 153, 157, 161, 165)
Qatar China	5745-5825 MHz (Channels 149, 153, 157, 161, 165)
Indonesia	Not available.

Appendix A Specifications

<b>802.11g Frequency Range</b>	
USA Canada Taiwan	2412-2462 MHz (Channels 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11)
United Kingdom Finland Germany France Spain Portugal Denmark Norway Sweden Austria Belgium Bulgaria Cyprus Czech Estonia Greece Hungary Ireland Italy Latvia Lithuania Luxembourg Malta Netherlands Poland Romania Slovakia Slovenia Swiss Iceland Turkey Oman Saudi Arabia UAE Kuwait Jordan Bahrain Egypt Lebanon Qatar Australia The Philippines Thailand Singapore India Indonesia Malaysia China South Korea Japan	2412-2472 MHz (Channels 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13)

## Appendix B - Default Configuration Settings

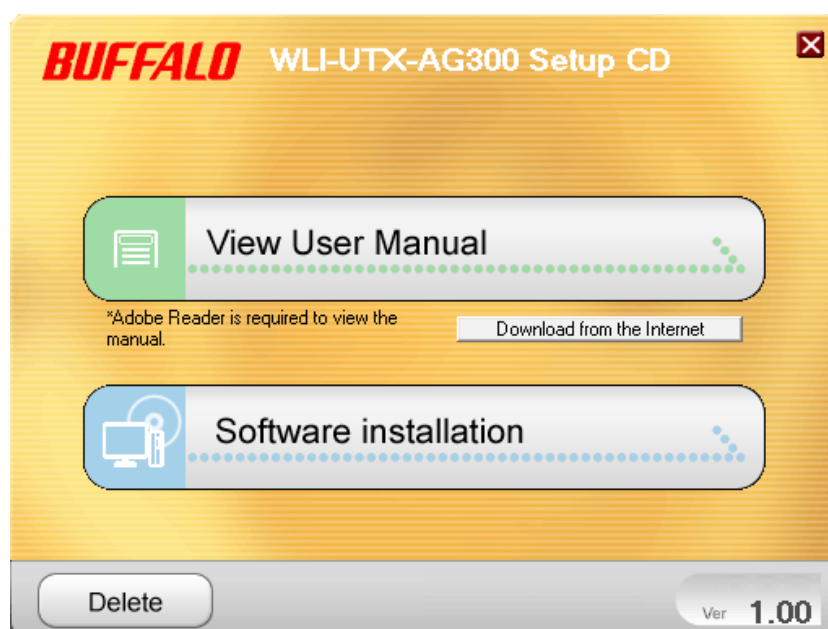
Feature	Parameter	Default Setting
AirStation Address Settings	AirStation IP address	1.1.1.1 (255.255.255.0)
WPS	WPS	Enabled
	WPS PIN code system	-----
	WPS Push Button method	-----
AOSS	Encryption Type	-----
	AOSS Button on the AirStation Unit	Enabled
802.11a/802.11g	SSID	none
	a/g switching settings	Automatic (11a priority)
	Multi-client mode	Disabled
	Output Power	100%
	WMM	Enabled
	Multicast conversion request	Enabled
	Wireless Authentication	No Authentication
	Wireless Encryption	No encryption
AirStation/ Password Setting	Name of Ethernet converter	EC + Wireless Media Bridge's MAC Address
	Administrator Name	admin (fixed)
	Administrator Password	password
	Settings from wireless LAN	Allow
	Settings from wired LAN	Allow

# Appendix C - Ethernet Converter Manager

## Ethernet Converter Manager Overview

---

Ethernet Converter Manager is a tool to manage your wireless media bridge. It lets you change the wireless media bridge's IP address. To install this software, insert the setup CD into your computer. On the setup screen, click [Software installation].



## Opening and Closing Ethernet Converter Manager

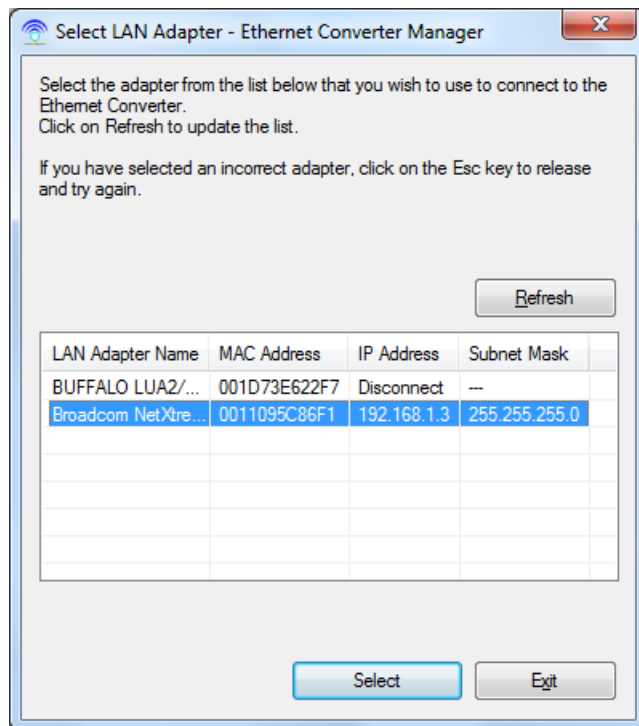
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To start Ethernet Converter Manager, click [Start] > [All programs] > [BUFFALO] > [AirStation Utility] > [Ethernet Converter Manager]. To close the Ethernet Converter Manager, click [X] at the top right of the screen, or click [Exit].



## Select LAN Adapter screen

Select which LAN adapter will be used to set up the Ethernet converter. This screen is displayed if your computer has more than one NIC or other LAN devices. Choose a LAN adapter that is connected to the same network as the Ethernet converter.



---

**Parameter****Meaning**

Refresh

Click this button to update the list.

Select

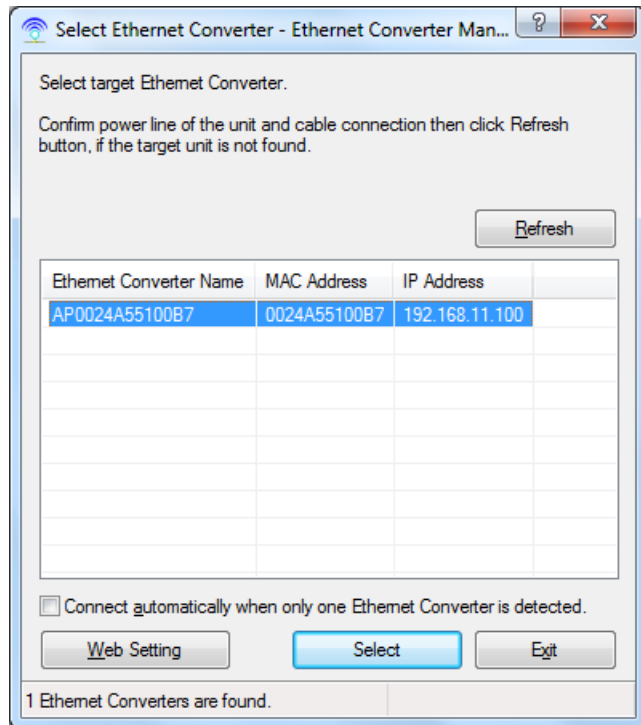
Highlight your LAN Adapter, then click this button to configure the wireless media bridge.

Exit

Closes the Ethernet Converter Manager.

## Select Ethernet Converter

If you have multiple wireless media bridges on the network, they'll all be displayed here. Choose your wireless media bridge from the list and highlight it. Click [Select].



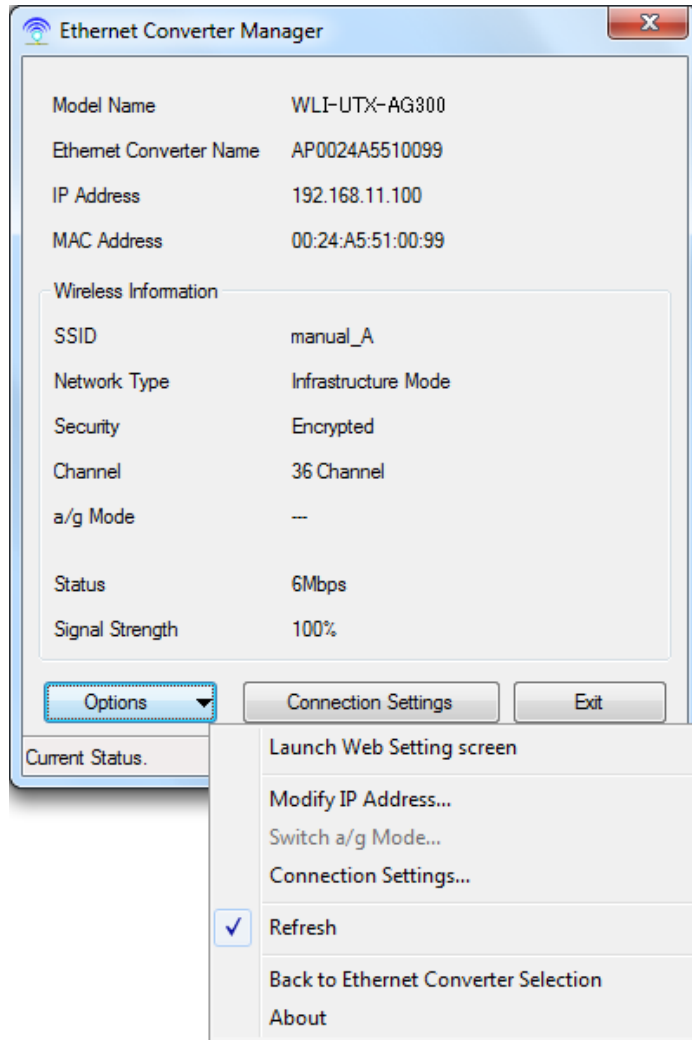
### Parameter

### Meaning

Refresh	Click this button to search and view the list of the wireless media bridges that can be configured with this software.
Connect automatically when only one Ethernet Converter is detected	Check this option to skip this screen when there is only one wireless media bridge that can be configured.
Web Setting	Click this button to display the wireless media bridge's Web configuration interface. Note: If your computer and the Wireless Media Bridge are on different network subnets, then the IP address settings page will be displayed instead.
Select	Highlight your wireless media bridge, then click this button to display the main screen.
Exit	Closes the Ethernet Converter Manager.

# Main Screen

Change your wireless media bridge’s IP address or other settings from this window.



Parameter	Meaning
Options > Launch Web Setting screen	Displays the wireless media bridge’s Web configuration interface. Note: If your PC and the wireless media bridge are on different network subnets, then the IP address configuration screen is displayed instead.
Options > Modify IP Address...	Displays the IP address configuration screen.
Options > Switch a/g Mode...	This is not supported feature for this product.
Options > Connection Settings...	Displays the connection settings for access points.

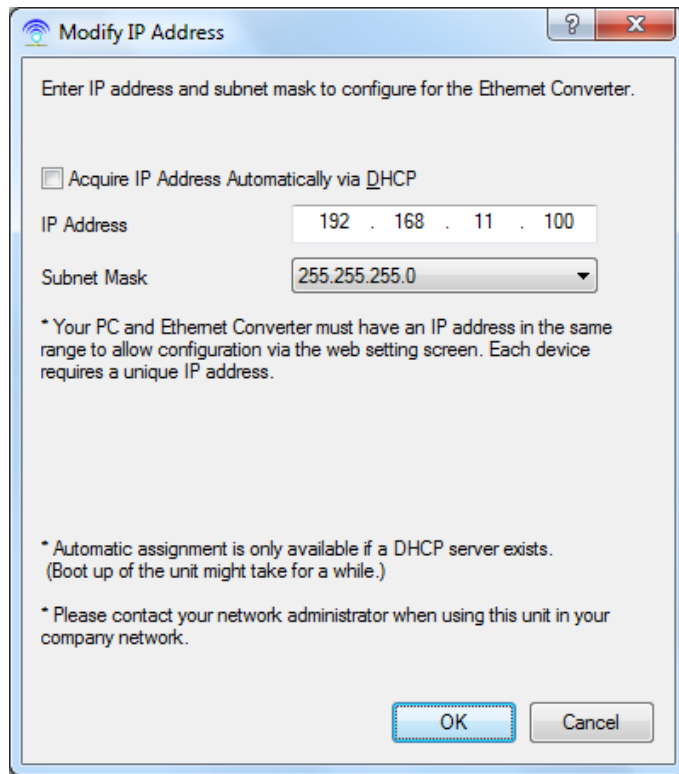
---

<b>Parameter</b>	<b>Meaning</b>
Options > Refresh	Updates displayed information for your wireless media bridge.
Options > Back to Ethernet Converter Selection	Takes you back to the Ethernet converter selection screen.
Options > About	Displays the version number of your Ethernet Converter Manager.
Connection Settings	Display the access point connection settings screen.
Exit	Close Ethernet Converter Manager.

---

## Modify IP Address Screen

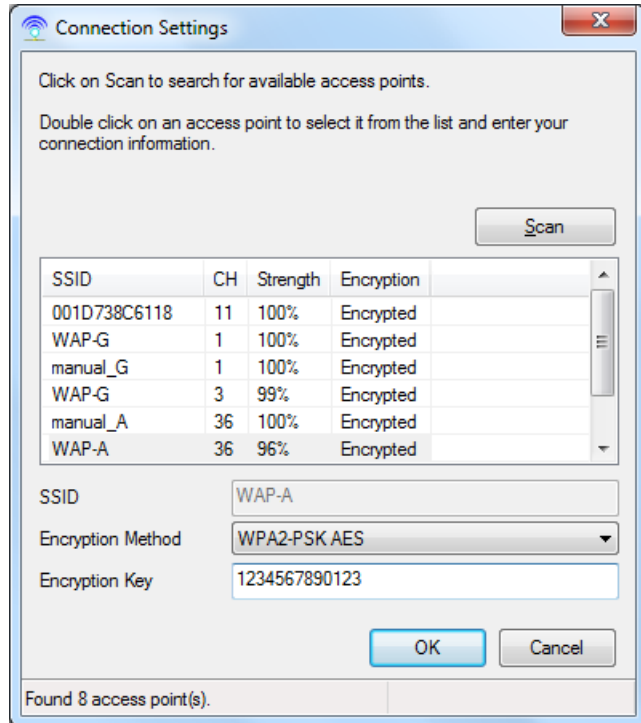
Modify the Wireless Media Bridge's IP address.



Parameter	Meaning
Acquire IP Address Automatically via DHCP	Check this option to automatically obtain an IP address from a DHCP server.
IP Address / Subnet Mask	If DHCP is not enabled, the you can enter an IP address and subnet mask for the wireless media bridge manually.

# Connection Settings

Configure your access point's wireless connection settings.



**Parameter**

**Meaning**

Scan	Click this button to search for available access points.
SSID	Select an access point to connect to. Double-click on an access point's SSID to select it.
Encryption method	Select the type of encryption to use.
Encryption Key	Enter the AP's encryption key.

# Appendix D - TCP/IP Settings

## 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** To have DHCP set your IP address settings automatically, check [Obtain an IP address automatically] and [Obtain DNS server address automatically].

To set your IP address settings manually, enter values for each settings. Example:

If the router’s IP address is 192.168.11.1,	
IP address	192.168.11.80
Subnet mask	255.255.255.0
Default gateway	192.168.11.1
Preferred DNS server	192.168.11.1
Alternate DNS server	blank

- 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], click [Continue].
- 6** Select [Internet Protocol Version 4 (TCP/IPv4)], then click [Properties].
- 7** To have DHCP set your IP address settings automatically, check [Obtain an IP address automatically] and [Obtain DNS server address automatically].

To set your IP address settings manually, enter values for each settings. Example:

If the router's IP address is	192.168.11.1,
IP address	192.168.11.80
Subnet mask	255.255.255.0
Default gateway	192.168.11.1
Preferred DNS server	192.168.11.1
Alternate DNS server	blank

- 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** To have DHCP set your IP address settings automatically, check [Obtain an IP address automatically] and [Obtain DNS server address automatically].

To set your IP address settings manually, enter values for each settings. Example:.

If the router's IP address is 192.168.11.1,	
IP address	192.168.11.80
Subnet mask	255.255.255.0
Default gateway	192.168.11.1
Preferred DNS server	192.168.11.1
Alternate DNS server	blank

- 6** Click [Close].

## Mac OS X

---

To configure TCP/IP in Mac OS X, follow the procedure below.

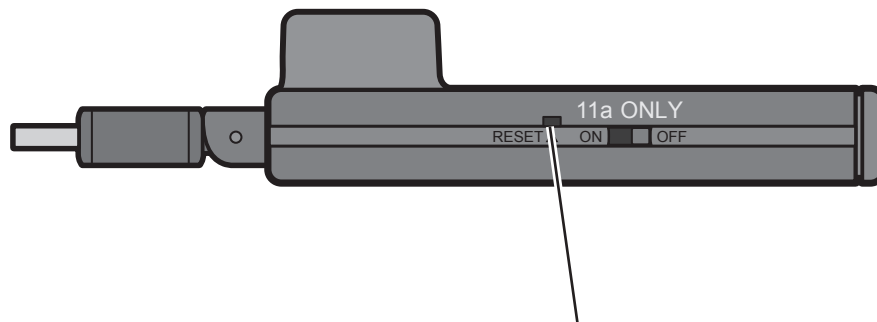
- 1** Click [Apple menu] > [System Preferences...].
- 2** Click [Network].
- 3** Click [Ethernet].
- 4** To have DHCP set your IP address settings automatically, select [Using DHCP] in the Configure IPv4 field.

To set your IP address settings manually, select [Manually] in the Configure IPv4 field and enter values for each setting. Examples:

If the router's IP address is 192.168.11.1,	
IP Address	192.168.11.80
Subnet Mask	255.255.255.0
Router	192.168.11.1
DNS Server	192.168.11.1
Search Domains	blank

- 5** Click [Apply].

# Appendix E - Restoring the Default Configuration



With the wireless media bridge powered on, hold down this button for 5 seconds to return it to factory default settings.

# 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 this 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.

For operation within 5.15 ~ 5.25GHz / 5.47 ~5.725GHz frequency range, it is restricted to indoor environment. The band from 5600-5650MHz will be disabled by the software during the manufacturing and cannot be changed by the end user. This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

## Important Note - FCC Radiation Exposure Statement:

The product complies with the US portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

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

The USB dongle transmitter is approved for use in typical laptop computers. To comply with FCC RF exposure requirements, it should not be used in other devices or certain laptop and tablet computer configurations where the USB connectors on the host computer are unable to provide or ensure the necessary operating configurations intended for the device and its users or bystanders to satisfy RF exposure compliance requirements.

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:**

The product complies with the Canada portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

### **Caution :**

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

(ii) the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and

(iii) the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.

(iv) Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

## **NOTE IMPORTANTE - Déclaration d'exposition aux radiations:**

Le produit est conforme aux limites d'exposition pour les appareils portables RF pour les Etats-Unis et le Canada établies pour un environnement non contrôlé.

Le produit est sûr pour un fonctionnement tel que décrit dans ce manuel. La réduction aux expositions RF peut être augmentée si l'appareil peut être conservé aussi loin que possible du corps de l'utilisateur ou que le dispositif est réglé sur la puissance de sortie la plus faible si une telle fonction est disponible.

### **Avertissement:**

Le guide d'utilisation des dispositifs pour réseaux locaux doit inclure des instructions précises sur les restrictions susmentionnées, notamment :

- (i) les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
- (ii) le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5 250-5 350 MHz et 5 470-5 725 MHz doit se conformer à la limite de p.i.r.e.;
- (iii) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5 725-5 825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.
- (iv) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

## **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+A11:2009**

Safety of Information Technology Equipment

### **EN 62311: 2008**

Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz – 300GHz)

**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 V2.1.1 (2009-05)**

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 and 5 GHz high performance RLAN equipment.

**EN 301 893 V1.5.1: 2008**

Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive

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.



**Česky [Czech]**

Buffalo Technology Inc. tímto prohlašuje, že tento AirStation WLI-UTX-AG300 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 WLI-UTX-AG300 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 WLI-UTX-AG300 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 WLI-UTX-AG300 vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.

**English**

Hereby, Buffalo Technology Inc. declares that this AirStation WLI-UTX-AG300 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 WLI-UTX-AG300 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 WLI-UTX-AG300 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 WLI-UTX-AG300 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 WLI-UTX-AG300 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 WLI-UTX-AG300 atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.

**Lietuvių [Lithuanian]**

Šiuo Buffalo Technology Inc. deklaruoja, kad šis AirStation WLI-UTX-AG300 atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.

**Nederlands [Dutch]**

Hierbij verklaart Buffalo Technology Inc. dat het toestel AirStation WLI-UTX-AG300 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 WLI-UTX-AG300 jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.

**Magyar [Hungarian]**

Alulírott, Buffalo Technology Inc. hogy a WLI-UTX-AG300 megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.

**Polski [Polish]**

Niniejszym Buffalo Technology Inc. oświadcza, że WLI-UTX-AG300 jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.

**Português [Portuguese]**

Buffalo Technology Inc. declara que este WLI-UTX-AG300 está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

**Slovensko [Slovenian]**

Buffalo Technology Inc. izjavlja, da je ta WLI-UTX-AG300 v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.

**Slovensky [Slovak]**

Buffalo Technology Inc. týmto vyhlasuje, že WLI-UTX-AG300 spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.

**Suomi [Finnish]**

Buffalo Technology Inc. vakuuttaa täten että WLI-UTX-AG300 tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

**Svenska [Swedish]**

Härmed intygar Buffalo Technology Inc. att denna WLI-UTX-AG300 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 USB slot, and product could be used in typical laptop computer with USB slot. Other application like handheld PC or similar device has not been verified and 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.

## 根據 NCC 低功率電波輻射性電機管制辦法：

### 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。

在5.25-5.35GHz頻帶內操作之無線資訊傳輸設備，限於室內使用。

기종별	사 용 자 안 내 문
B 급 기기 ( 가정용 정보통신기기 )	이 기기는 가정용 (B 급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

# 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/>.