ViewSonic®

WPG-370
Wireless Presentation Gatway
User Guide

IMPORTANT: Please read this User Guide to obtain important information on installing and using your product in a safe manner, as well as registering your product for future service. Warranty information contained in this User Guide will describe your limited coverage from ViewSonic Corporation, which is also found on our web site at http://www.viewsonic.com in English, or in specific languages using the Regional selection box in the upper right corner of our website. “Antes de operar su equipo lea cu idadosamente las instrucciones en este manual”

Model No. VS15180

Compliance Information

For U.S.A.

This device complies with part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no 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 or more of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

Warning: You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

For Canada

- This Class B digital apparatus complies with Canadian ICES-003.
- Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CE Conformity for European Countries

CE The device complies with the EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EC.

Following information is only for EU-member states:

The mark shown to the right is in compliance with the Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE).

The mark indicates the requirement NOT to dispose the equipment as unsorted municipal waste, but use the return and collection systems according to local law.

If the batteries, accumulators and button cells included with this equipment, display the chemical symbol Hg, Cd, or Pb, then it means that the battery has a heavy metal content of more than 0.0005% Mercury, or more than 0.002% Cadmium, or more than 0.004% Lead.

FCC Radiation Exposure Statement

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This wireless module device complies with part 15 of 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.

Industry Canada Notice

This wireless module device complies with Canadian RSS-210.To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmitting antenna) that is installed outdoors is subject to licensing. The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's web site www.hc-sc.gc.ca/rpb.

R&TTE Compliance Statement CE

This device complies with the Essential Requirements of the R&TTE Directive of the European Union (1999/5/EC). This equipment meets the following conformance standards:

ETSI EN 300 328

EN 301 489-01

EN 301 489-17

EN 62311

Notified Countries: Germany, UK, Netherlands, Belgium, Sweden, Denmark, Finland, France, Italy, Spain, Austria, Ireland, Portugal, Greece, Luxembourg, Estonia, Latvia, Lithuania, Czech Republic, Slovakia, Slovenia, Hungary, Poland and Malta.

--- 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。
--- 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需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。

Declaration of RoHS Compliance

This product has been designed and manufactured in compliance with Directive 2002/95/EC of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC) as shown below:

Substance	Proposed Maximum Concentration	Actual Concentration
Lead (Pb)	0,1%	< 0,1%
Mercury (Hg)	0,1%	< 0,1%
Cadmium (Cd)	0,01%	< 0,01%
Hexavalent Chromium (Cr6+)	0,1%	< 0,1%
Polybrominated biphenyls (PBB)	0,1%	< 0,1%
Polybrominated diphenyl ethers (PBDE)	0,1%	< 0,1%

Certain components of products as stated above are exempted under the Annex of the RoHS Directives as noted below:

Examples of exempted components are:

1. Mercury in compact fluorescent lamps not exceeding 5 mg per lamp and in other lamps not specifically mentioned in the Annex of RoHS Directive.
2. Lead in glass of cathode ray tubes, electronic components, fluorescent tubes, and electronic ceramic parts (e.g. piezoelectronic devices).
3. Lead in high temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
4. Lead as an allotting element in steel containing up to 0.35% lead by weight, aluminium containing up to 0.4% lead by weight and as a cooper alloy containing up to 4% lead by weight.

Copyright Information

Copyright © ViewSonic® Corporation, 2013. All rights reserved.

ViewSonic®, the three birds logo, OnView®, ViewMatch™, and ViewMeter® are registered trademarks of ViewSonic® Corporation.

Disclaimer: ViewSonic® Corporation shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages resulting from furnishing this material, or the performance or use of this product.

In the interest of continuing product improvement, ViewSonic® Corporation reserves the right to change product specifications without notice. Information in this document may change without notice.

No part of this document may be copied, reproduced, or transmitted by any means, for any purpose without prior written permission from ViewSonic® Corporation.

Product Registration

To meet your future needs, and to receive any additional product information as it becomes available, please register your product on the Internet at: www.viewsonic.com.

For Your Records

Product Name:	WPG-370 Wireless Presentation Gateway
Model Number:	VS15180
Document Number:	WPG-370_UG_ENG Rev. 1A 01-13-13
Serial Number:	_____
Purchase Date:	_____

Product disposal at end of product life

ViewSonic respects the environment and is committed to working and living green. Thank you for being part of Smarter, Greener Computing. Please visit ViewSonic website to learn more.

USA & Canada: http://www.viewsonic.com/company/green/recycle-program/

Europe: http://www.viewsoniceurope.com/uk/support/recycling-information/

Taiwan: http://recycle.epa.gov.tw/recycle/index2.aspx

Table of Contents

Chapter 1: Product Introduction 2
1-1 Package Contents 2
1-2 Hardware Recommendation 3
(1) Presentation Mode : 3
(2) Intel WiDi Mode: 3
(3) Media Streaming Mode 4
1-3 Highlights 5
1-4 Hardware Setup/Installation 6
(1) Connect your device 6
(2) Connect power and push power button to turn on WPG-370. 6
Chapter 2: Using WPG-370 on Presentation Mode 8
2-1 Switch WPG-370 to Presentation Mode 8
2-2 Check the IP address of WPG 8
2-3 Connect to WPG by wireless network 10
2-4 Using application software 11
2-4-2 Using application software 16
2-4-3 Menu List 17
2-4-4 Connect to Web Configuration Menu 18
2-4-5 Status & Info 19
2-4-6 Network Setting 20
2-4-7 Wireless Settings 22
(3) Band Setting 24
2-4-8 AP Bridge Setting 25
2-4-9 Projection Setting 27
2-4-10 Password Setting 28
2-4-12 Firmware Upgrade 30
2-4-13 Logout 31
Chapter 3: Using WPG-370 on Intel WiDi Mode 32
3.1 Switch WPG-370 to Intel WiDi Mode 32
3.2 Connect to WPG-370 by Intel WiDi 32
Chapter 4: Using WPG-370 on Media Streaming Mode 35
4.1 Switch WPG-370 to Media Streaming Mode 35
Appendix A: Support resolution 37
Appendex B: WPG-370 Support Media Format 37
Video Format 37
Audio Format 38
Photo Format 38

Chapter 1: Product Introduction

Congratulations on your purchase of ViewSonic Wireless Presentation Gateway WPG-370. This section introduces you to the WPG-370 (referred to as the WPG in this user guide).

1-1 Package Contents

(1) WPG-370
(2) AC adapter with UK/EU/US plug
(3) CD-ROM
(4) Quick Installation Guide

1-2 Hardware Recommendation

WPG-370 supports real time presentation, Intel Wireless Display® & Multimedia Media streaming play back functions.

(1) Presentation Mode :

WPG-370 is designed to able to stream video/music/photo contents from PC (Windows 7 /Window 8 only) to your TV through this device.

PC or Notebook

- CPU: Core 2 Duo 1.3GHz or better
- Memory: 2.0 GB or better
- Network: 802.11g/n Wi-Fi and/or 100/1000 Mbps Ethernet

(2) Intel WiDi Mode:

Users must have Intel WiDi® compatible platforms to support Intel Wireless Display.
The requirement of Intel WiDi® compatible platforms is as below

System Component	Requirement
Processor	ONE of the following: **Intel® Core™ i7 Processor:** 640M; 660LM; 640LM; 620LM; 620M; 610E; 690UM; 680UM; 660UM; 640UM; 620UM; 660UE; 2710QE; 2820QM; 2720QM; 2635QM; 2630QM; 2657M; 2649M; 2629M; 2620M; 2617M; 2540M; 2520M; 2510E; 2640LM; 2620LM; 2630UM; 2610UM; 2530UM; 2920XM **Intel® Core™ i5 Processor:** 580M; 560M; 540M; 520M; 480M; 460M; 450M; 430M; 580UM; 560UM; 540UM; 520UM; 470UM; 430UM; 2540M; 2520M; 2410M; 2537M; 2430M; 2435M, 2450M; 2467M **Intel® Core™ i3 Processor:** 390M; 380M; 370M; 350M; 330M; 330E; 2310M
Graphics	Intel® HD Graphics
Wireless	ONE of the following: Intel® Centrino® Wireless-N 1000, 1030, 2200, or 2230 Intel® Centrino® Wireless-N 2200 for Desktop Intel® Centrino® Advanced-N 6200, 6205, 6230, or 6235

	Intel® Centrino® Advanced-N 6205 for Desktop Intel® Centrino® Wireless-N + WiMAX 6150 Intel® Centrino® Advanced-N + WiMAX 6250 Intel® Centrino® Ultimate-N 6300
Software	Intel® My WiFi Technology (Intel® MWT)[2] and Intel® Wireless Display[1] must be pre-installed and enabled.
OS	Windows 7 64-bit*, Home Premium, Ultimate or Professional Windows 7 32-bit*, Home Premium, Ultimate, Professional or Basic Windows* 8 32-bit and 64-bit editions

(3) Media Streaming Mode

WPG-370 is designed to able to stream video/music/photo contents from PC (Windows 7 based), smart phone, and Tablet-PC to your TV through this device.

PC or Notebook

- CPU: 1.6 GHz or better
- Memory: 1.0 GB or better
- Network: 802.11g/n Wi-Fi and/or 100/1000 Mbps Ethernet

Smart phone

- CPU: 800 MHz or better
- Memory: 256 MB or better
- Network: 802.11g/n Wi-Fi or better

Tablet-PC

- CPU: 600 MHz or better
- Memory: 256 MB or better
- Network: 802.11g/n Wi-Fi or better

Recommend software

- PC: Windows Media Player, AirFun
- Android OS: AirFun
- iOS: iMediashare

1-3 Highlights

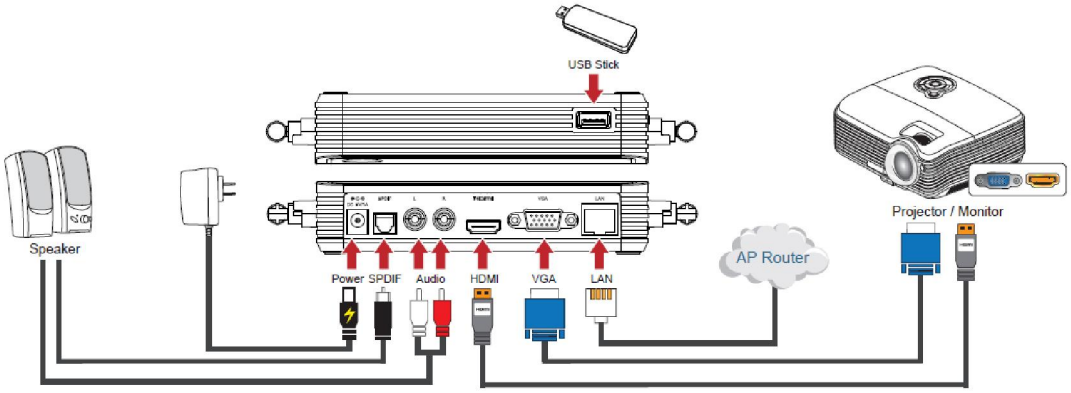
Thanks again for choosing the product. This product allows multiple users to connect to the same projector by wired or wireless network and avoiding the hassle of using VGA or HDMI cable.

Features

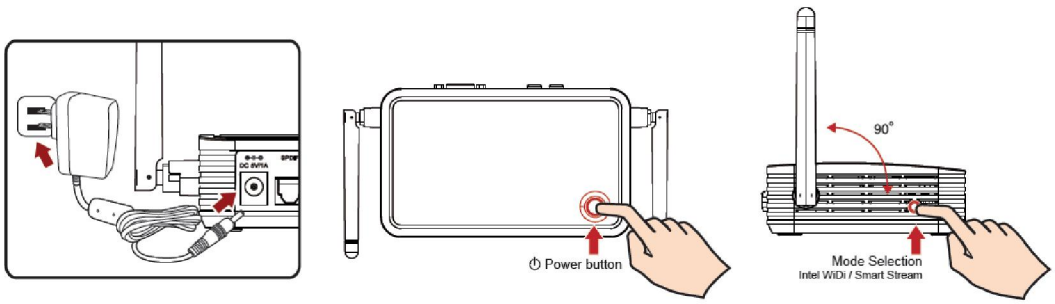
- 802.11 a/b/g/n Wireless compatibility
- 802.11n 2.4GHz & 5GHz dual band standards
- Supports both Wireless and Ethernet connectivity
- VGA or HDMI connections
- Wireless multimedia streaming up to Full HD 1080p
- Designed to work with Intel® WiDi and other wireless display standards
- PC content, movies, photo's apps and more all on your big screen
- Compatible with Windows, Apple and Android devices
- Network security
- USB display on Media Streaming mode

1-4 Hardware Setup / Installation

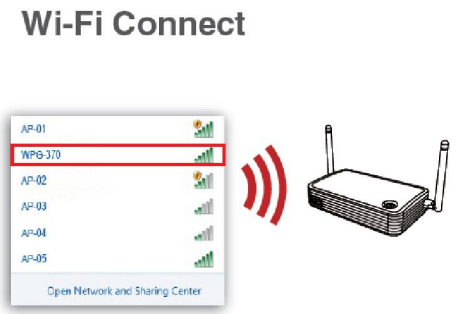
(1) Connect your device

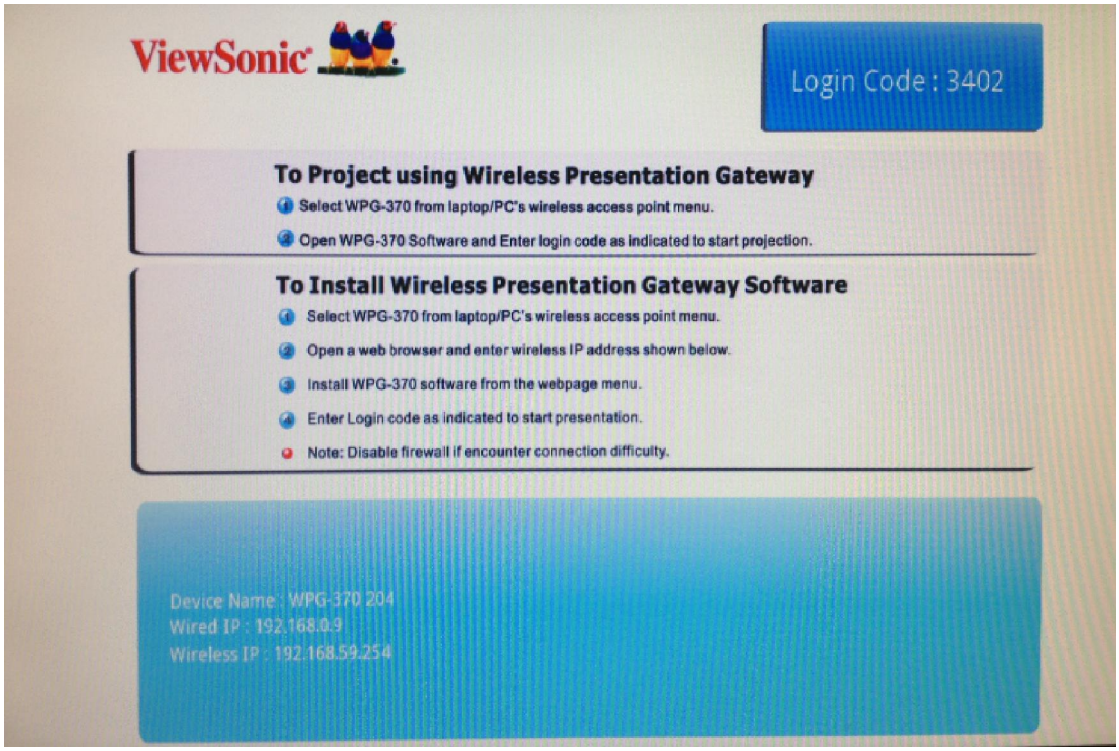


(2) Connect power and push power button to turn on WPG-370.



After few seconds, when you see the below screen: the device is assigned an IP address, the system is in Presentation mode and ready to do PC mirror from your PC/Mac. Please connect to WPG370 via Wi-Fi.



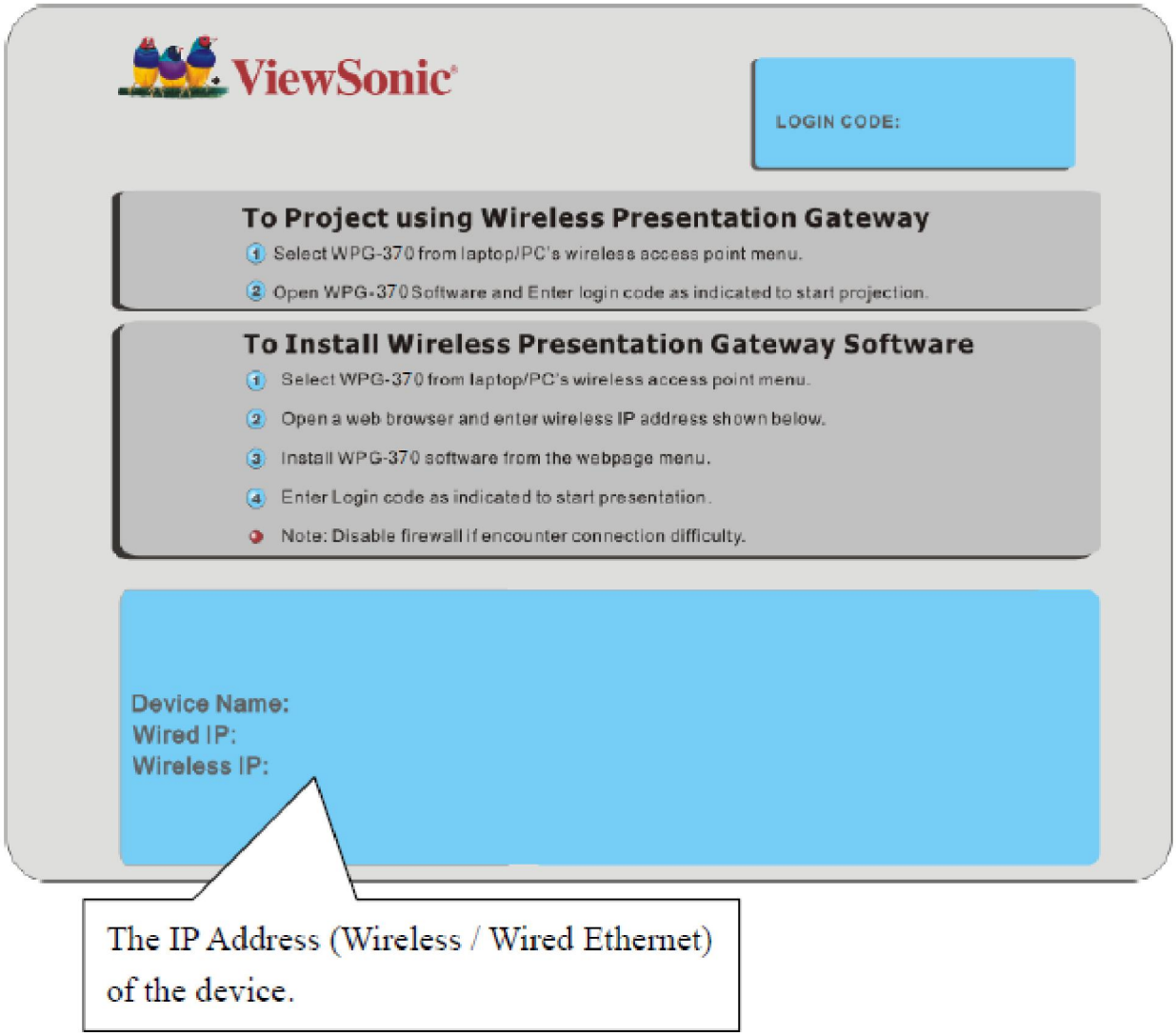


(3) You can switch between Presentation mode, Intel WiDi® Adapter mode and Media Streaming mode by pushing the button twice at the side of box (next to USB connector).

Chapter 2: Using WPG-370 on Presentation Mode

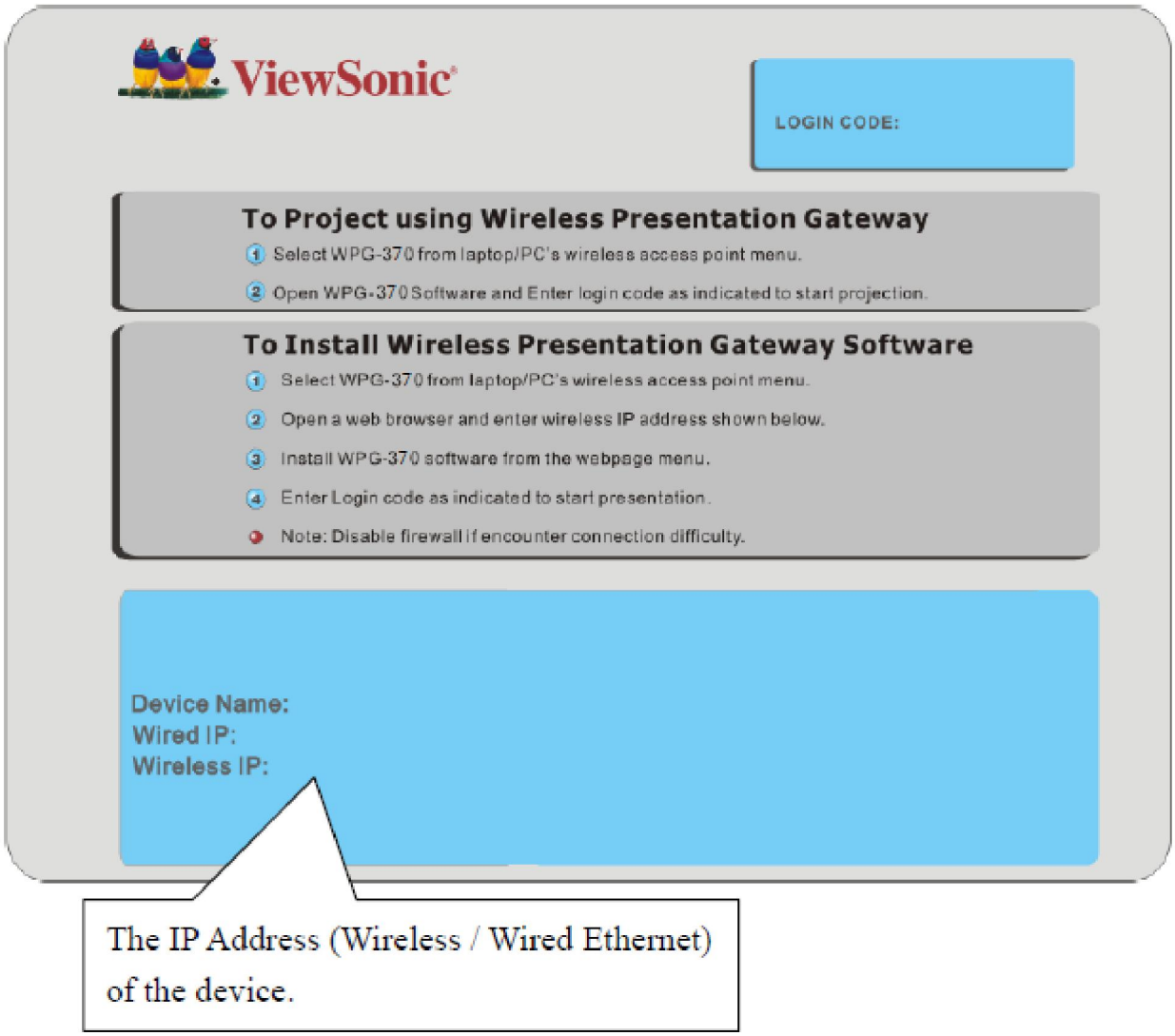
2-1 Switch WPG-370 to Presentation Mode

Push mode selection button on the WPG-370 till you see the screen below, the box is ready for **Presentation Mode** connection.



2-2 Check the IP address of WPG

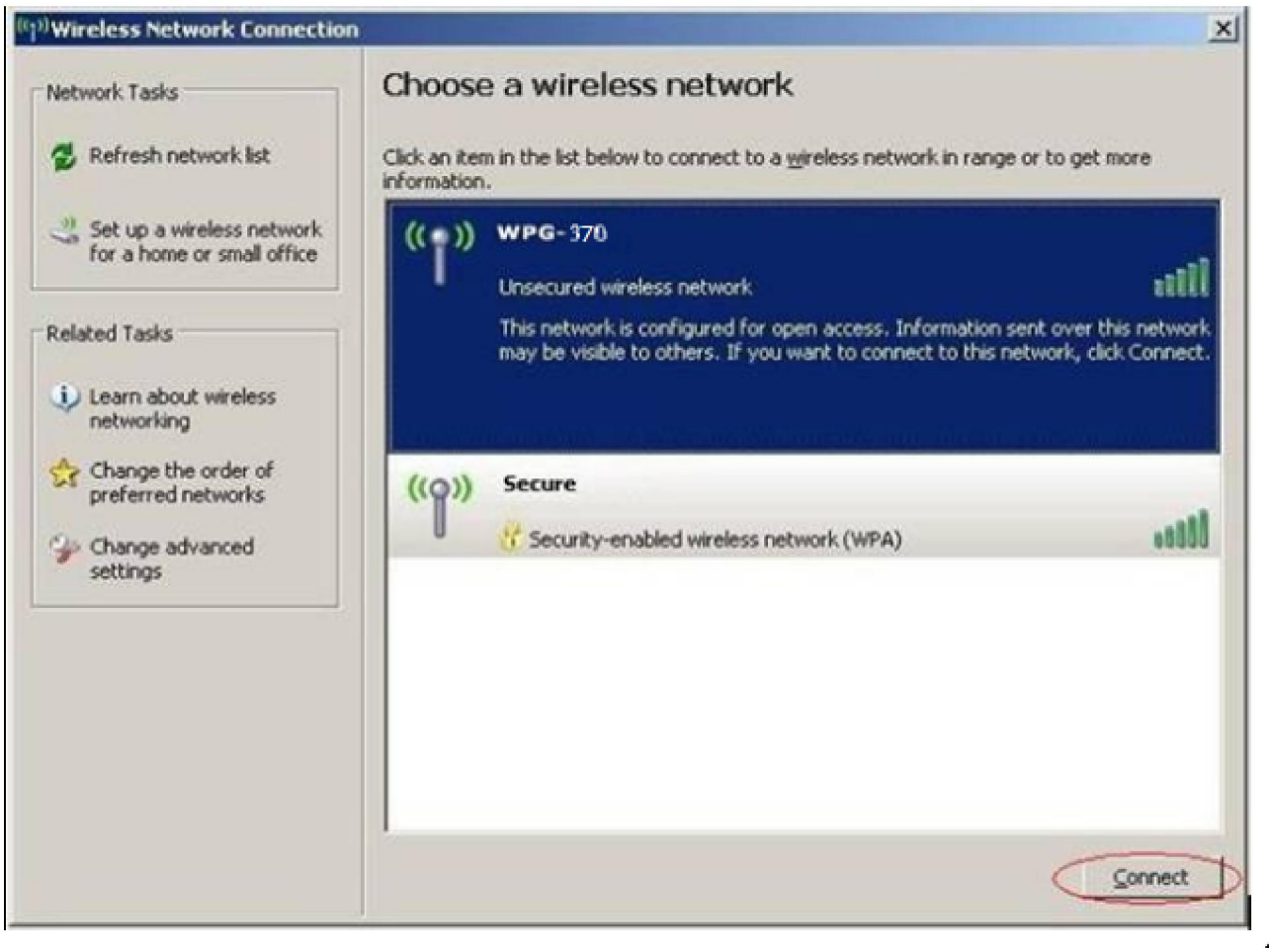
When WPG is powered on, check the connected display, you can find the IP address and login code Instruction Page:



You can connect to WPG by the IP address of the connection type you're using (wired /wireless).

2-3 Connect to WPG by wireless network

Use your computer's Wireless Network Connection window to access an available wireless network. Select the device from the list. Click Connect. The default device name is WPG-370.

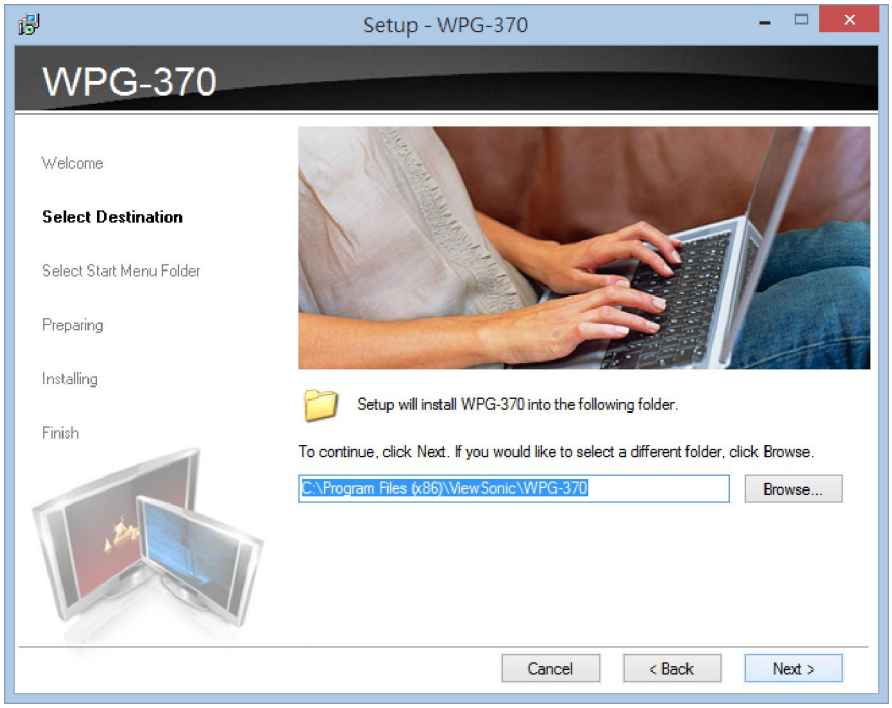


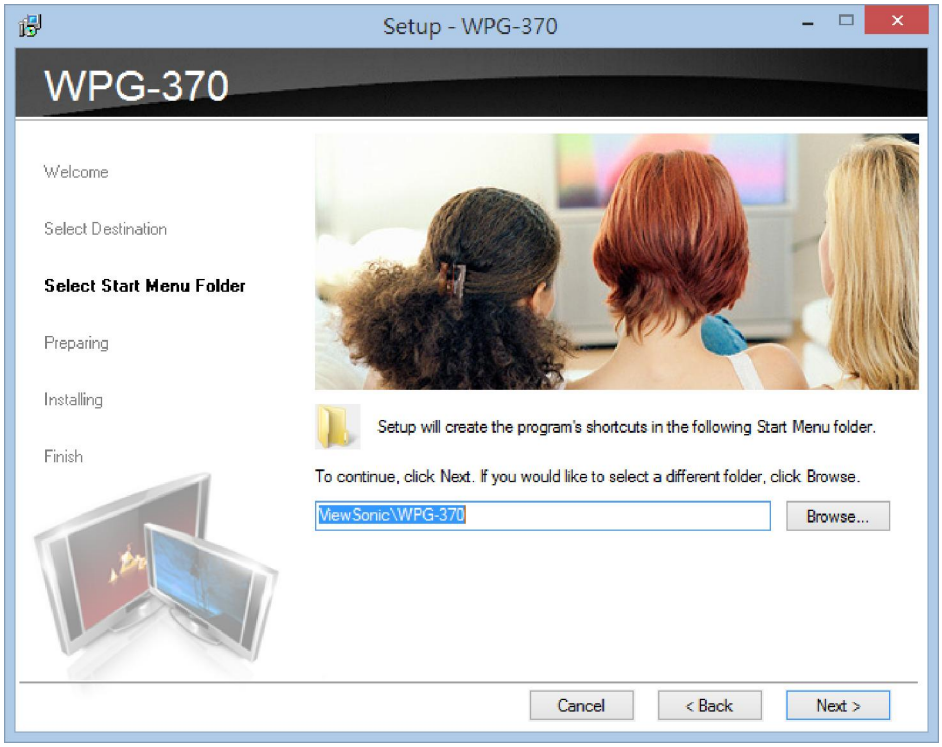
Note: If using a wireless client other than Windows, the screen above may look differently. For more details, see your PC user guide.

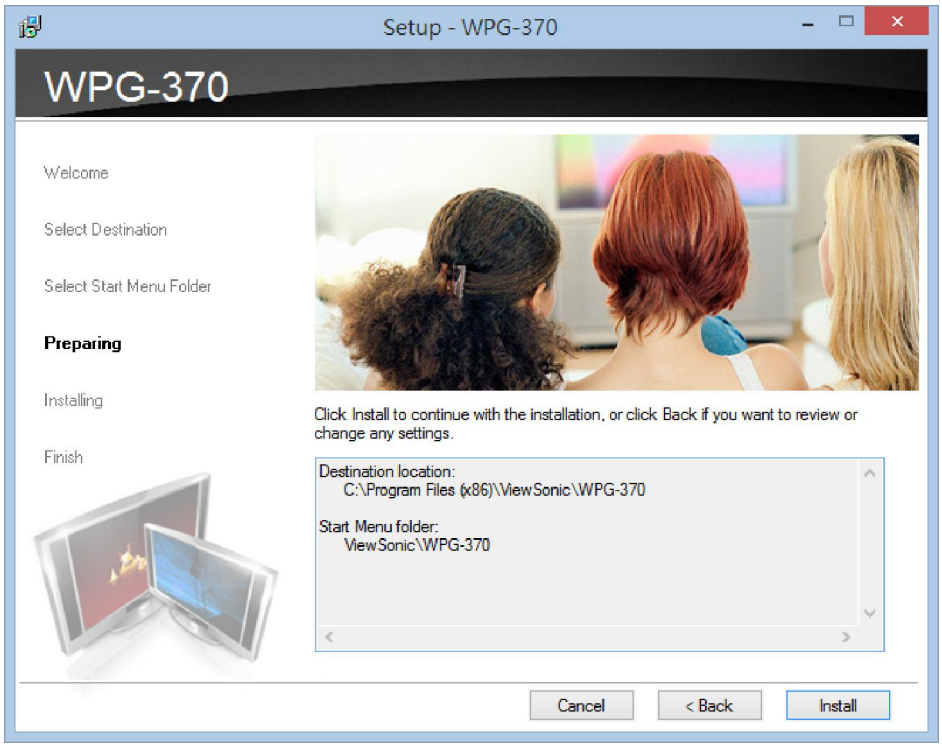
2-4 Using application software

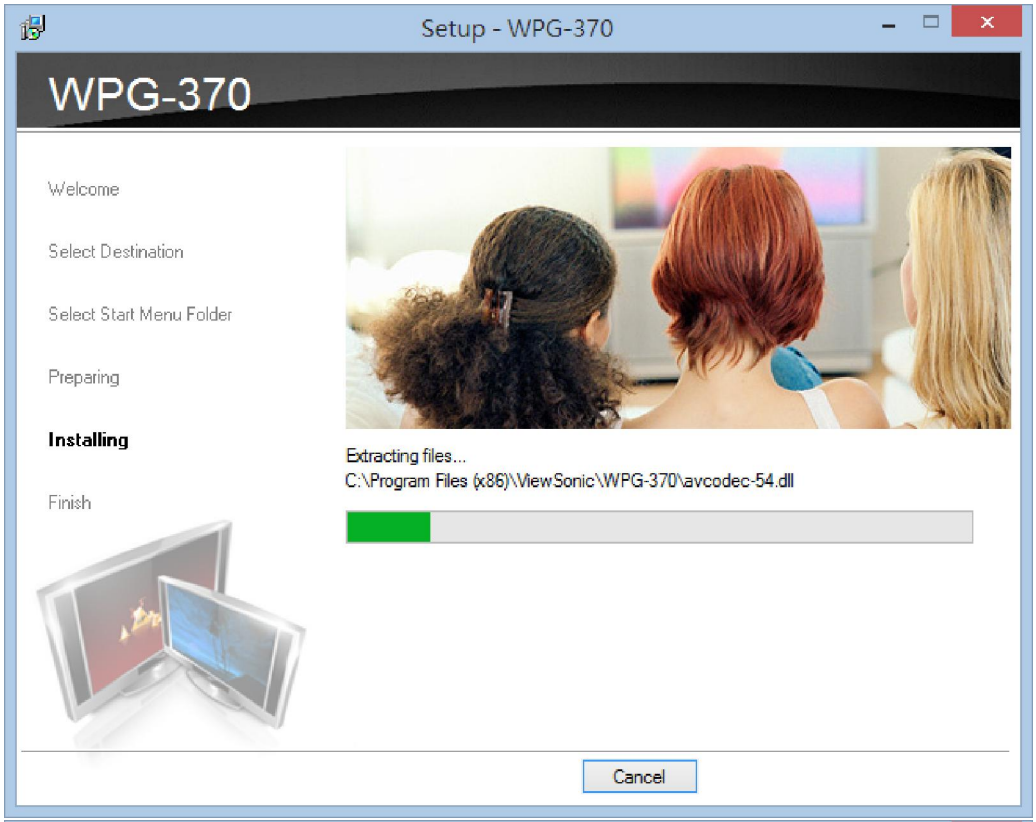
You can install WPG370 application in the CD ROM or download the application from internet.

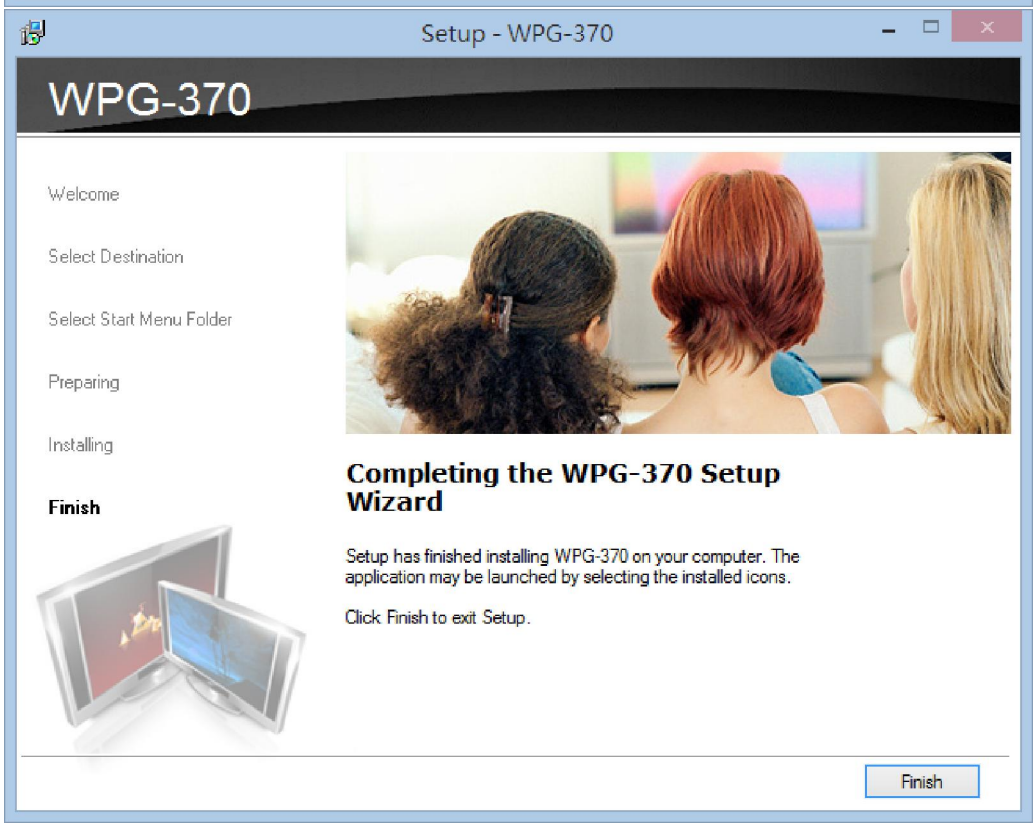
(1) Install application in CD-ROM




Setup - WPG-370
WPG-370
Welcome
Select Destination
Select Start Menu Folder
Preparing
Installing
Finish
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
ViewSonic\WPG-370
Browse...
Cancel
< Back
Next >


Setup - WPG-370
WPG-370
Welcome
Select Destination
Select Start Menu Folder
Preparing
Installing
Finish
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\Program Files (x86)\ViewSonic\WPG-370
Start Menu folder:
ViewSonic\WPG-370
Cancel
< Back
Install

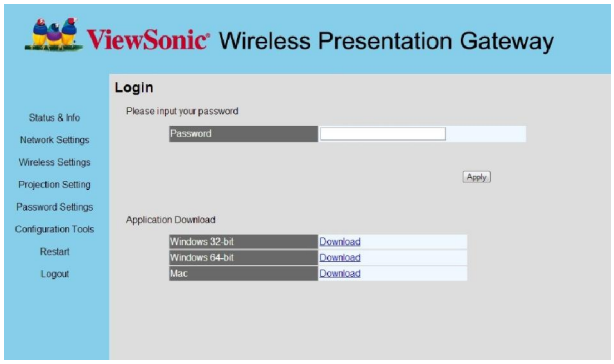




(2) Download application from Internet.

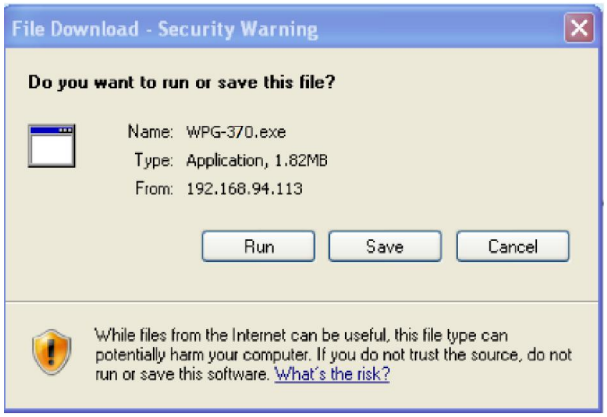
Before you can download the application on the internet, you must connect to Internet.
If you have a AP router that connect to internet, you can follow the setting below to bridge WPG370 to the AP router and then connect to internet. For more information, please refer to 2.4.8 AP Bridge setting.

Please follow instructions to download and install WPG-370 application software according to your system:

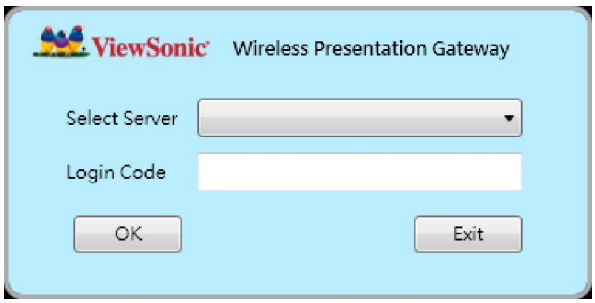
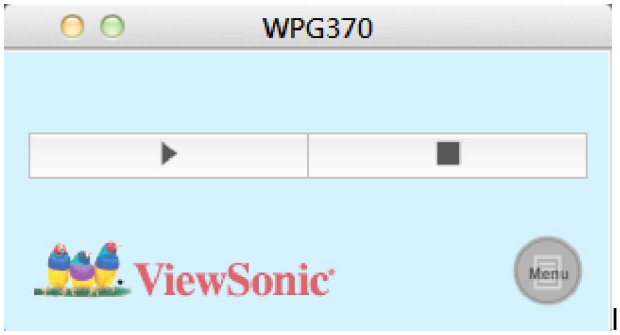
<table>
<tr>
<td> 

</td>
<td>Please key IP address and suffix(/remote/admin.html) in browser, Ex:, 192.168.59.254/remote/admin.htm

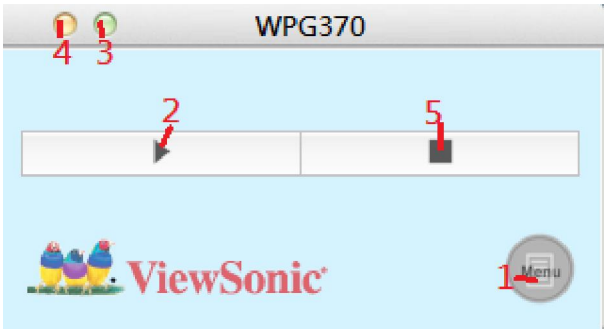
WPG's IP address is shown at the Instruction page.

Click 'Windows x32' or"Windows x64" or ' MAC' button
to download application software.</td>
</tr>
<tr>
<td> 
</td>
<td>A window is prompted, to execute, please check "run", or "save" to save application software for future usage.

During the MAC application software installation, you will also be asked to install "soundflower" program to make your MAC PC to output audio correctly, please install it before going to next step.</td>
</tr>
<tr>
<td>
</td>
<td>If you see this message (or anything similar from your antivirus program) when running WPG, please click ' Unblock' to allow WPG client software to access network, or WPG client program will not be able to work properly.</td>
</tr>
</table>

	WPG will auto detect 'Server IP' please input login code as shown on instruction page.
  	If login code is correct, application software will appear.

2-4-2 Using application software



No	Name	Function Description
1	Menu	Access menu list.
2	Play	Start / pause presentation. When pausing a progressing presentation, the displaying image will freeze; press play button again to resume
3	Minimize	Minimizes Application Software window
4	Close	Closes Application Software window
5	Stop	Stop a progressing presentation

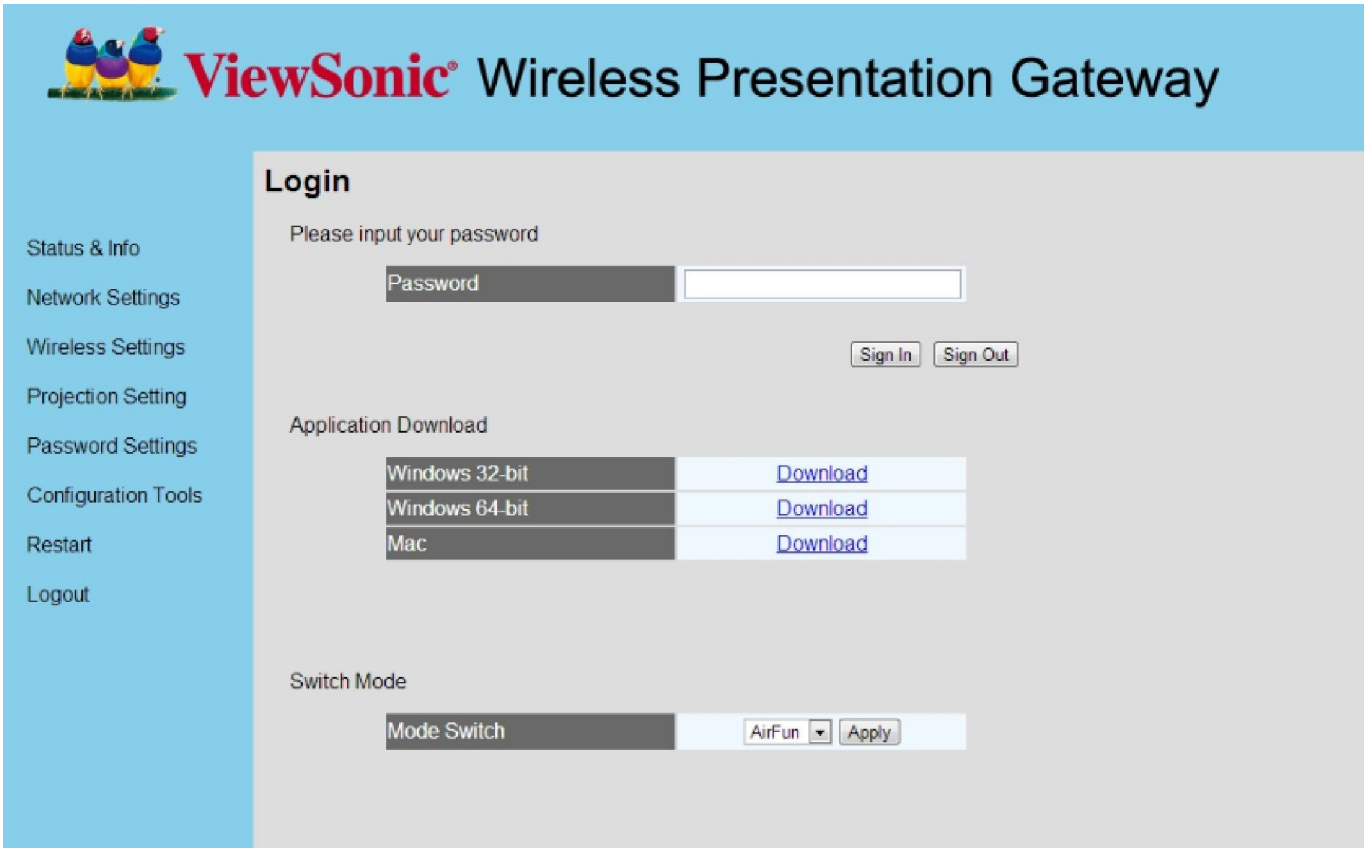
2-4-3 Menu List

Besides the buttons, you can also click ‘Menu’ button to access menu list.

Item	Description
Information	Check the information of connected WPG.
Projection Control	Controls the projection: Play: Start presentation. Pause: Pauses presentation. Stop: Stop presentation. Output Resolution: Changes display resolution and you can check
Web Configuration menu	Use the web browser to connect to the IP address of WPG (Wireless / Wired IP address). WPG’s IP address can be found at the lower-left corner of Instruction page
Exit	Close menu list

2-4-4 Connect to Web Configuration Menu

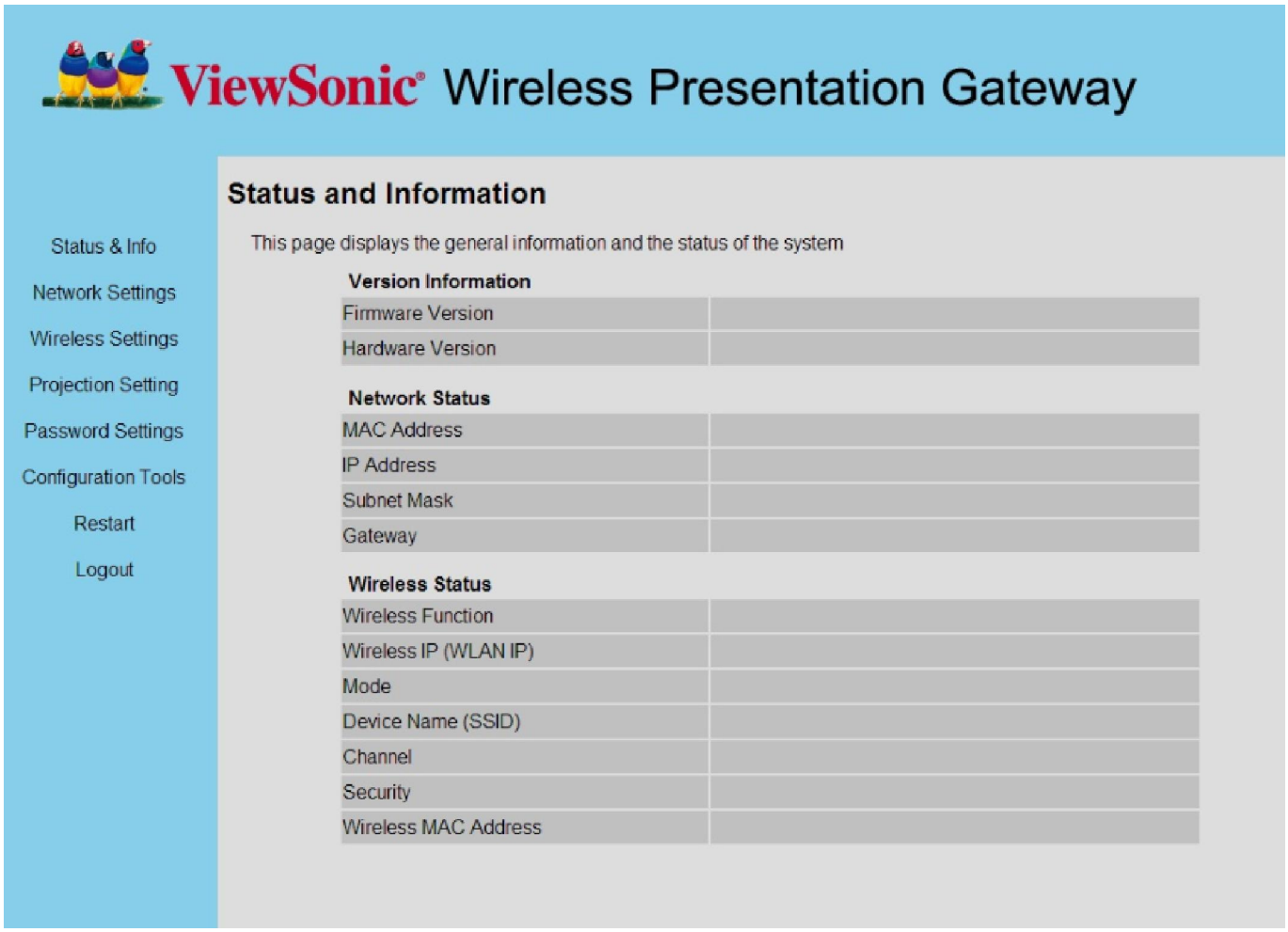
Please key IP address and suffix(/remote/admin.html) in browser,
Ex:, 192.168.59.254/remote/admin.html.



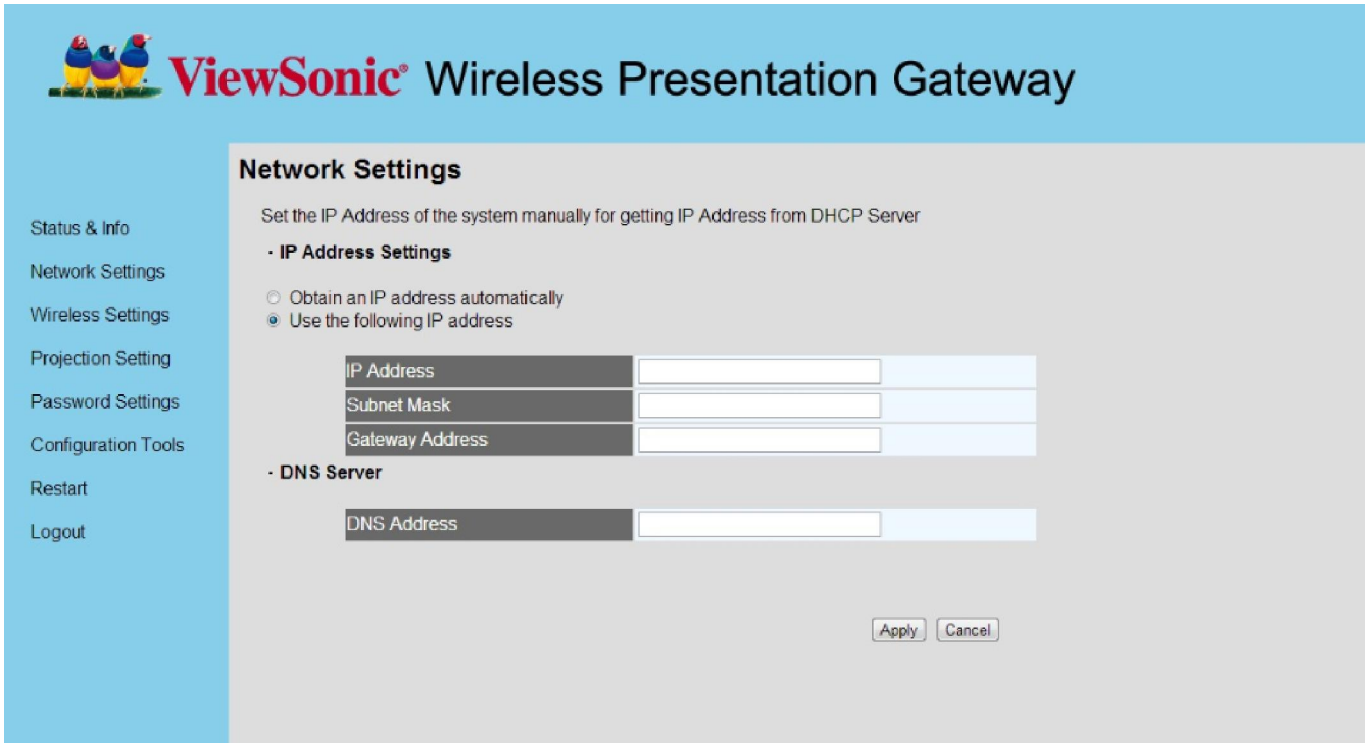
Item	Description
Application download	Download application from Internet
Mode switch	Switch between Presentation, Intel WiDi®, and Media streaming mode

2-4-5 Status & Info

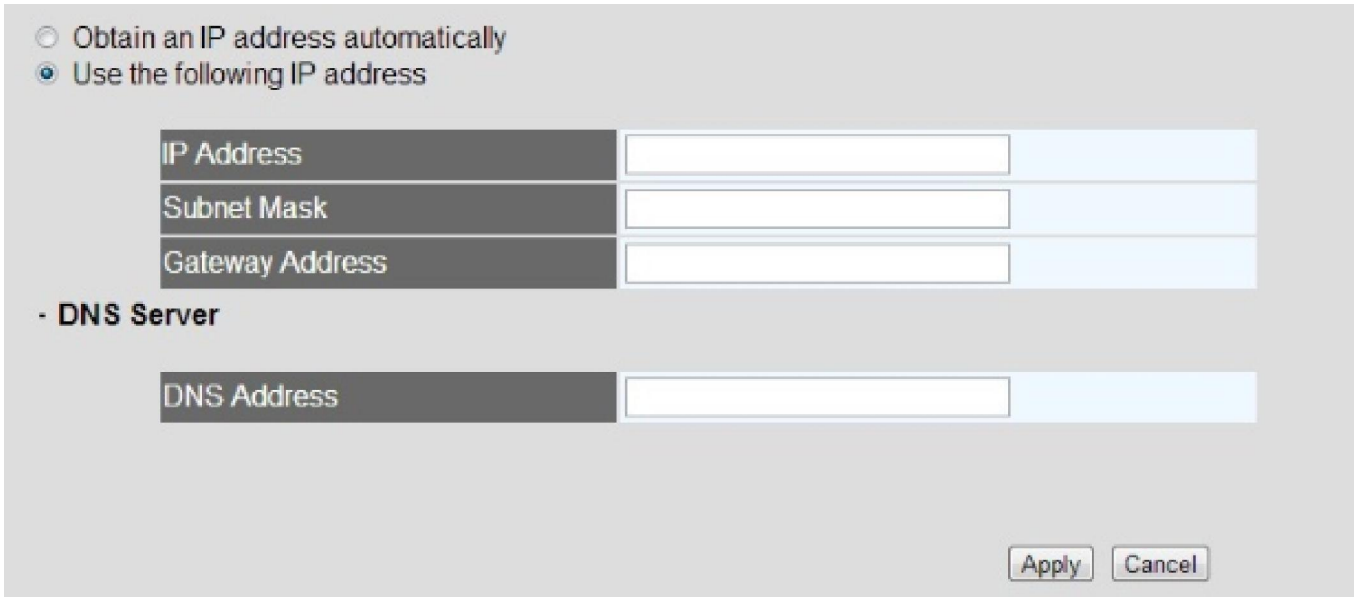
Displays system information, like system software version and IP address. Many useful information can be obtained here when you need help about system configuration and firmware upgrade.



2-4-6 Network Setting



Displays and configures the network settings.



Item	Description
Obtain an IP address Automatically	WPG will obtain an IP address from DHCP server automatically.
Use the following IP Address	Set WPG IP address manually. Fill the fields below to setup IP address.

DNS Server	Please input the IP address of the DNS (Domain Name Service) server.

Click ‘Apply’ button to save the settings.

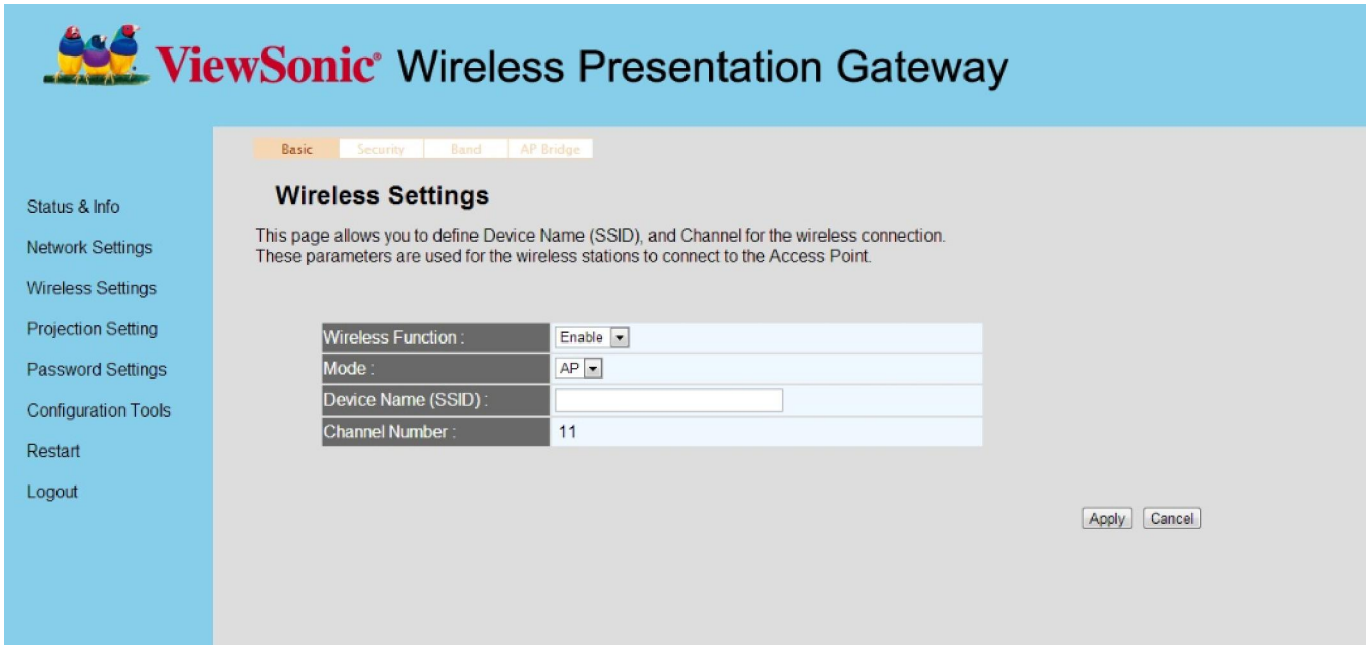
NOTE: When the configuration settings are changed, you must restart the network connection.

You can restart the network connection by clicking “Restart” on the web configuration menu.

2-4-7 Wireless Settings

Configures wireless network settings.

(1)‘Basic’ Settings

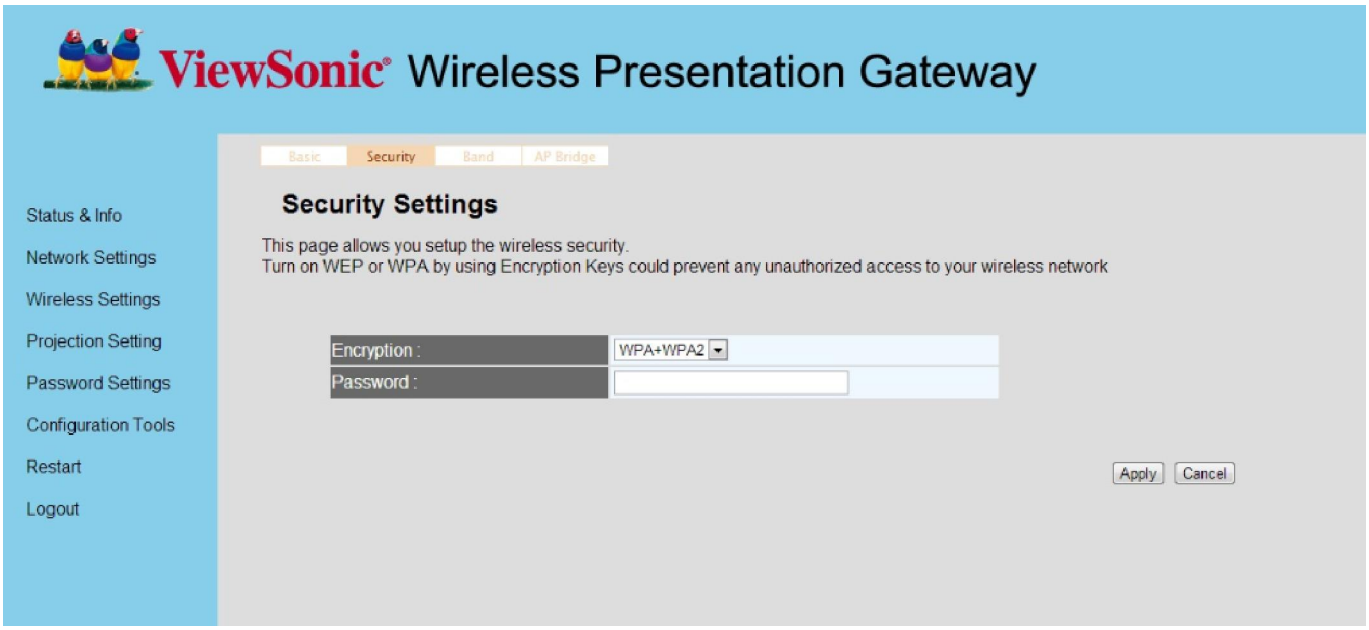


Displays and configures the wireless settings.

Item	Description
Wireless Function	Select ‘Enable’ to enable wireless network function; ‘Disable’ to disable it.
Mode	Select wireless mode. Only AP (Access Point) mode is supported.
Device Name (SSID)	Input the Device Name of presentation gateway here. Default is ‘ WPG-370”.
Channel Number	Show the wireless channel number: 1 to 13. (1 to 11 in certain version of product)

\Click ‘Apply’ button to save the settings.
NOTE: When the configuration settings are changed, you must restart the network connection. You can restart the network connection by clicking “Restart” on the main menu.

(2) “Security” Setting



Encryption: Disabled

Disables wireless encryption.

Encryption: WEP

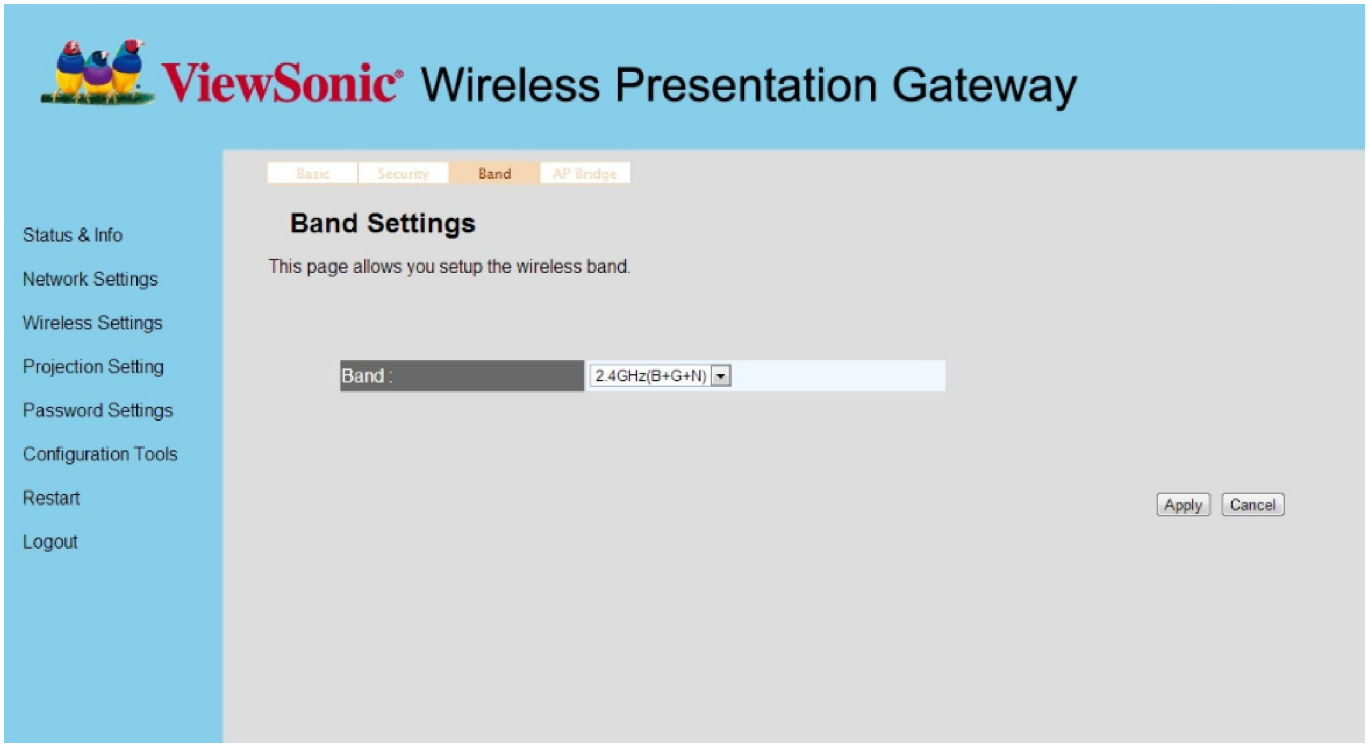
Enable WEP encryption. Wireless clients must support WEP encryption and know the encryption key you set here.

NOTE: When the configuration settings are changed, you must restart the network connection. You can restart the network connection by clicking “Restart” on the main menu.

Encryption: WPA +WPA2

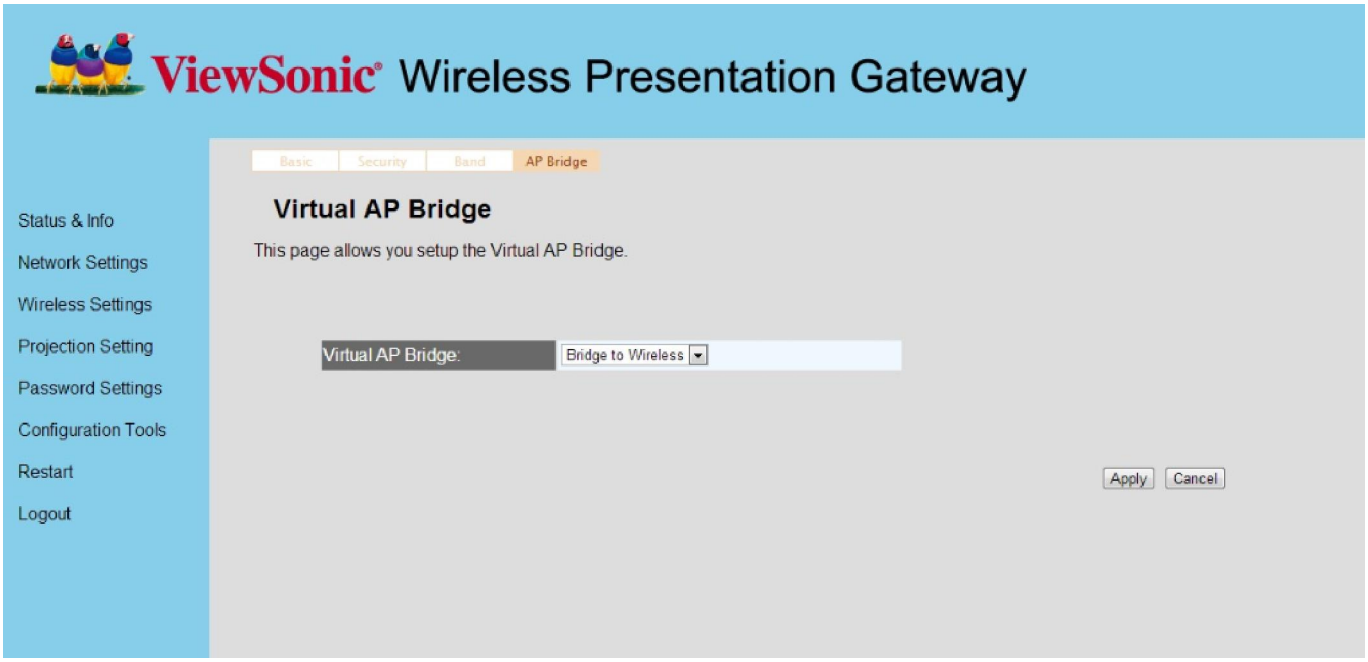
Enable WPA + WPA2 encryption. Wireless clients must support WPA encryption and know the encryption passphrase you set here.

(3) Band Setting



Item	Description
Band	Select the wireless band. Available options are: 2.4GHz (B+G+N) - 802.11b, 802.11g, and 802.11n clients. 5GHz (B+G+N) - 802.11b, 802.11g, and 802.11n clients.

2-4-8 AP Bridge Setting

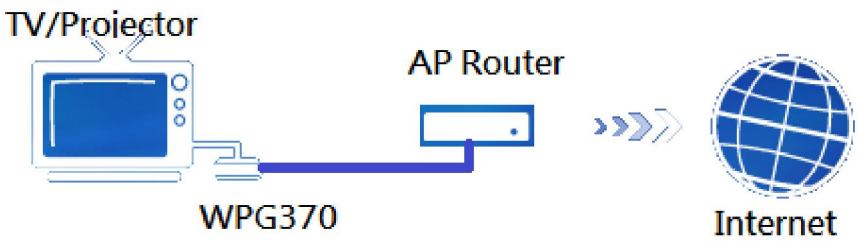


Item	Description
Virtual AP only	Ad-hoc mode
Bridge to Wireless	Connect to Internet via Wireless AP router
Bridge to Ethernet	Connect to Internet via Wired AP router

Bridge to Ethernet/ Wired Connection

Step1: Connect LAN to the AP router

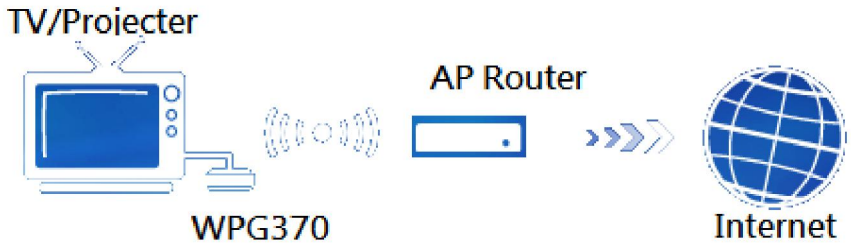
Step2: Go to Web Conguration page => Wireless Setting => Virtual AP setting => Bridge to Ethernet. Then you can bridge WPG370 to Internet.



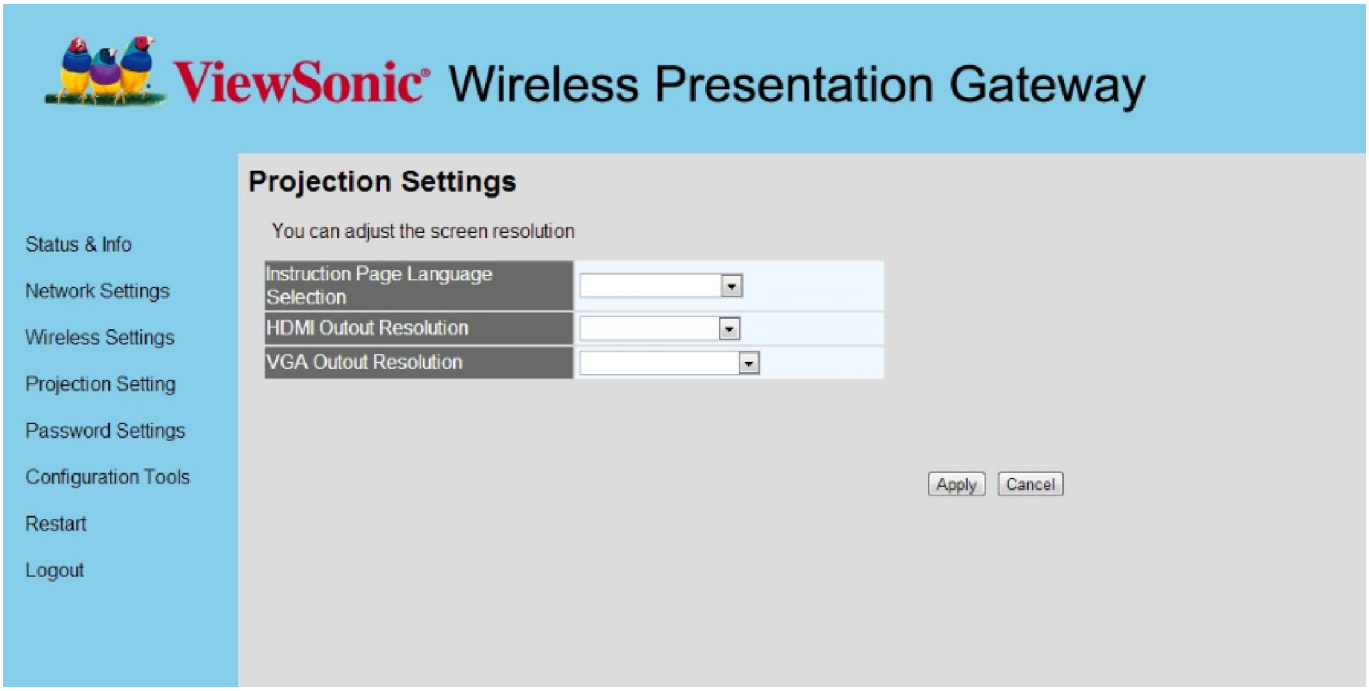
Note: WPG 370 must connect to AP router and can't connect to WAN directly.

Bridge to Wireless/ Wireless connection

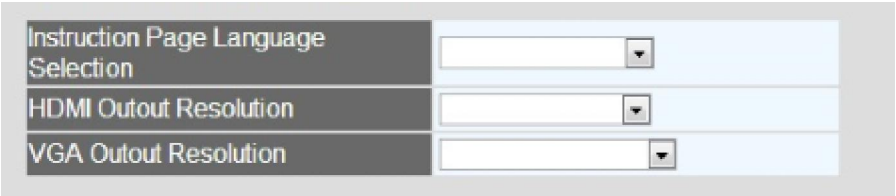
Step1: Go to Web Conguration page => Wireless Setting => Virtual AP setting => Bridge to Wireless.
Step2: Click Wireless connection button. Then there will show the Wireless AP list on the screen. Please choose the AP you want to connect.



2-4-9 Projection Setting



Displays and configures the projection setting.

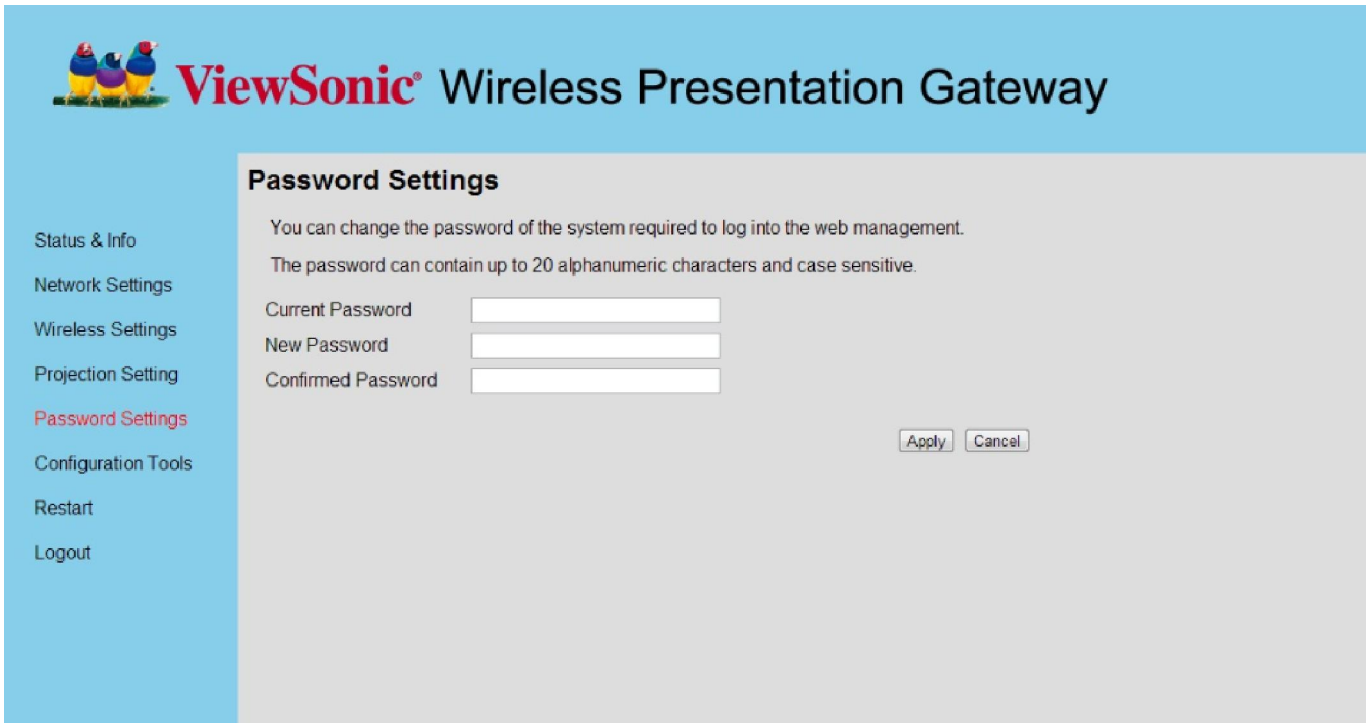


Item	Description
Instruction Page Language Selection	Select the displaying language.
HDMI Output Resolution	Select HDMI output resolution for projection.
VGA Output Resolution	Select VGA output resolution for projection.

NOTE: When the configuration settings are changed, you must restart the network connection. You can restart the network connection by clicking “Restart” on the main menu.

2-4-10 Password Setting

Displays and configures the password setting.



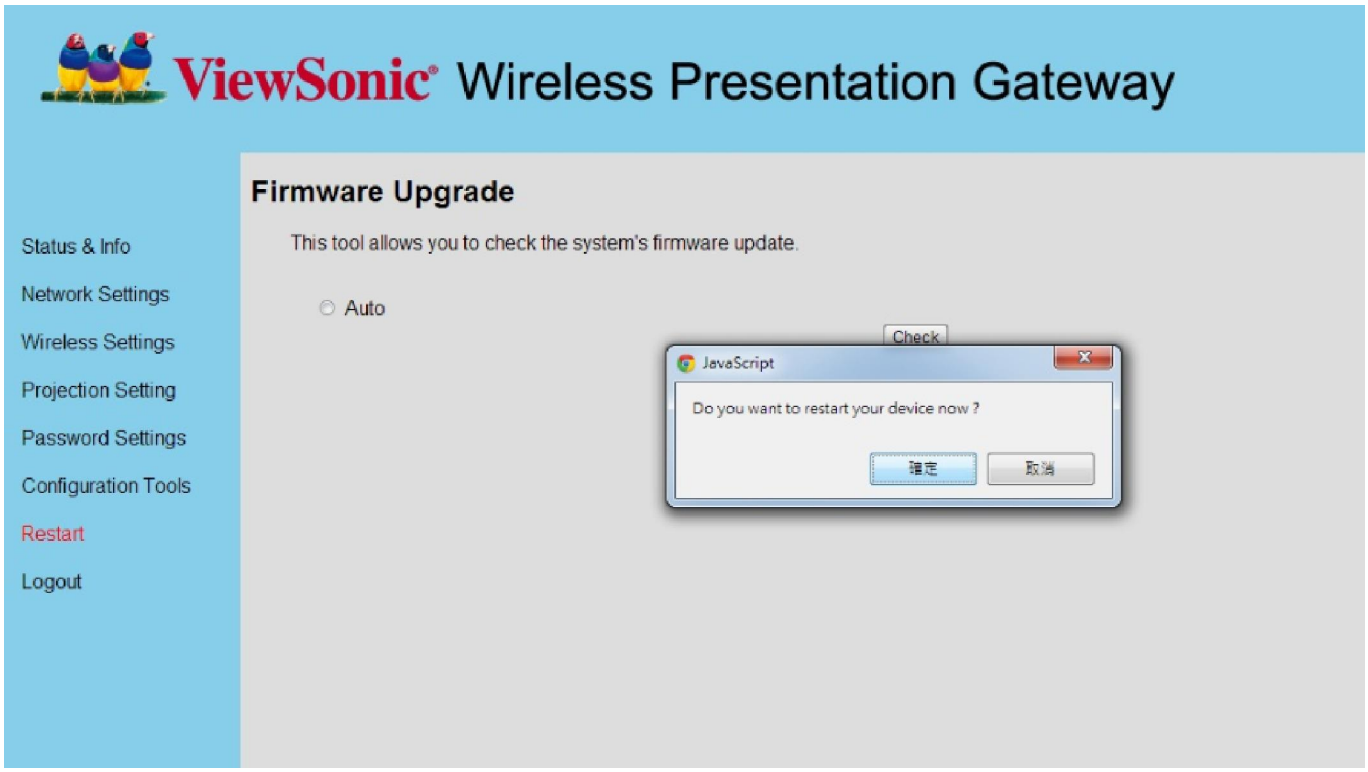
Item	Description
Current Password	Input current password here.
New Password / Confirmed Password	New Password: Enter new password. Confirmed Password: Confirmed the new entered password.

Click ‘Apply’ button to save the settings.

NOTE: When the configuration settings are changed, you must restart the network connection. You can restart the network connection by clicking “Restart” on the main menu.

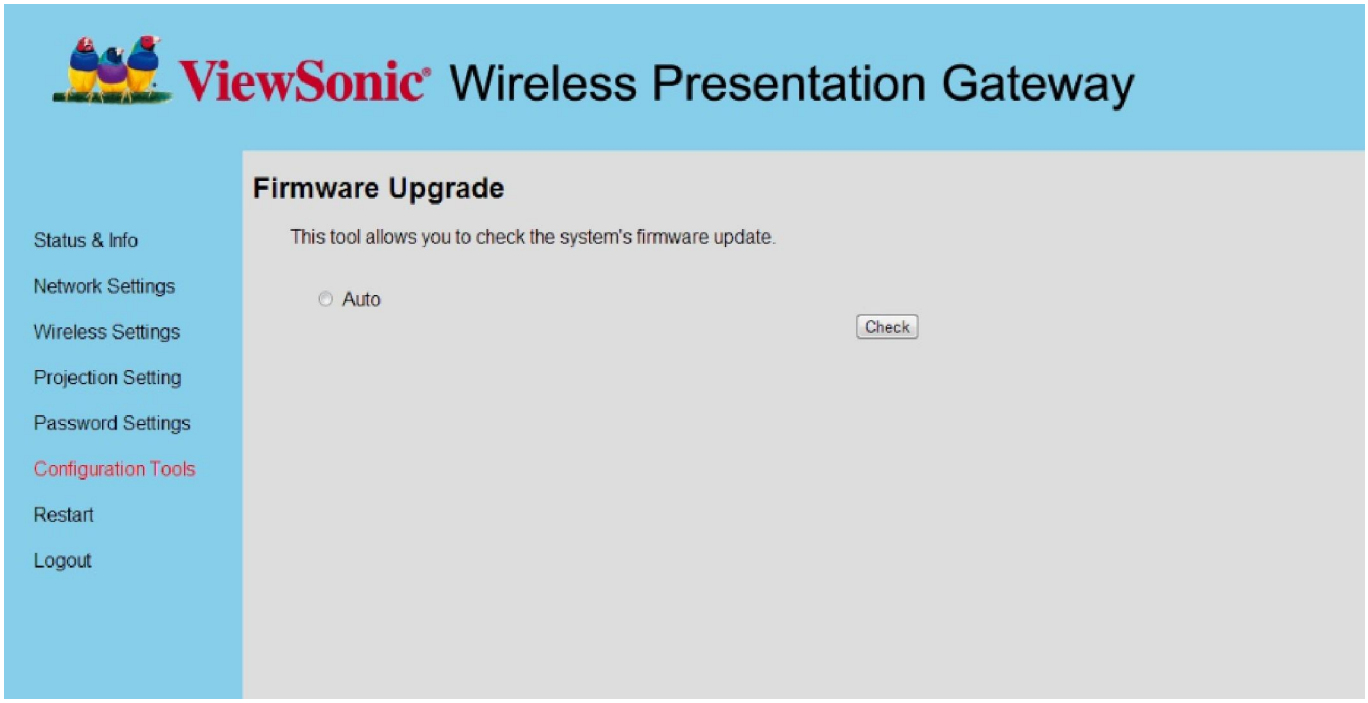
2-4-11 Restart

Restart WPG when the device is not working properly or to apply changes made on web



Click ‘OK’ to restart the WPG-370, or click ‘Cancel’ to abort.

2-4-12 Firmware Upgrade

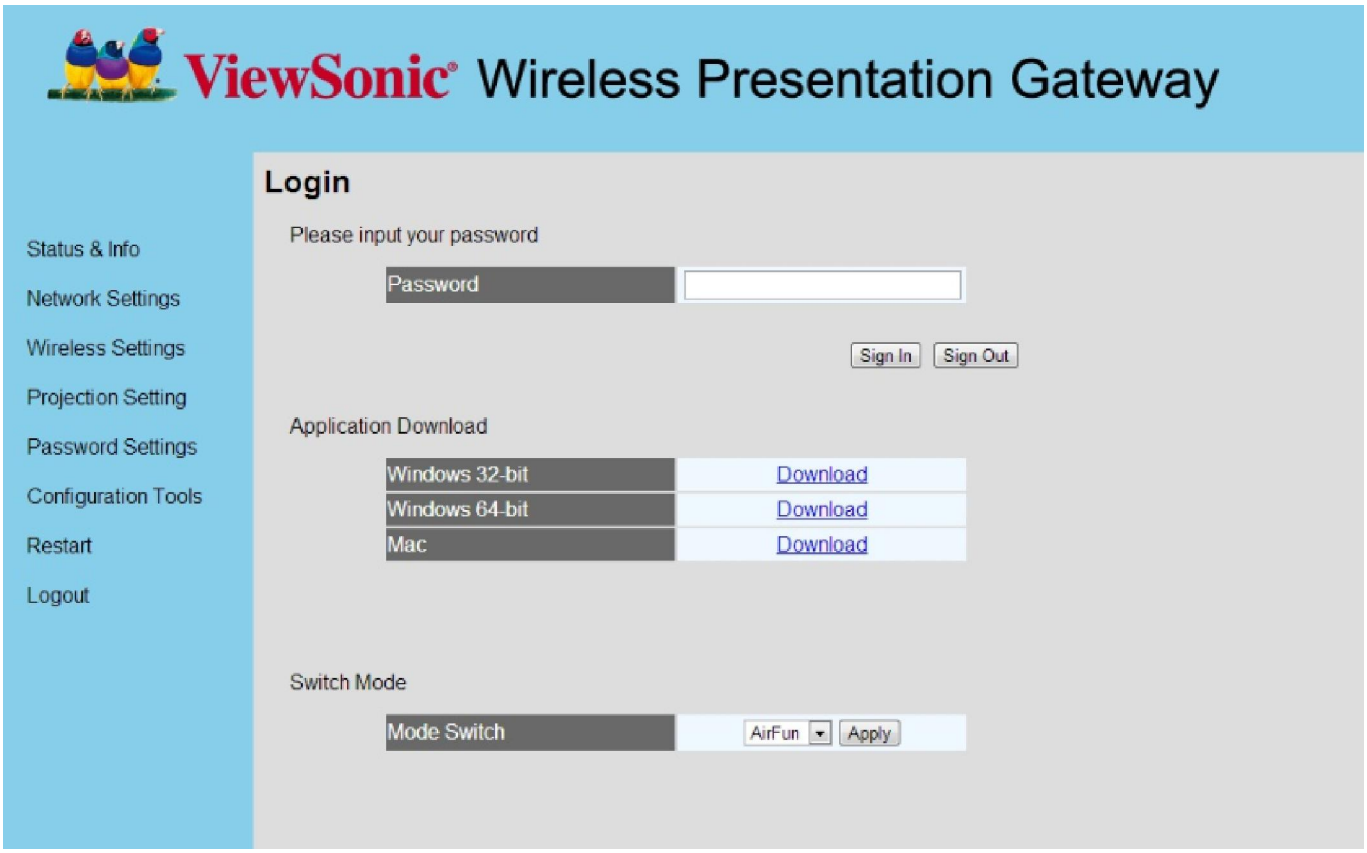


Upgrade the firmware of this WPG.
Select ‘Auto’, WPG will check if there is any firmware upgrade once WPG-370 connects to Internet.

Note:

- *It’s recommended to use wired Ethernet connection to perform firmware upgrade.*

2-4-13 Logout



If you wish to logout from web configuration menu, click 'Logout'.

Chapter 3: Using WPG-370 on Intel WiDi Mode

3.1 Switch WPG-370 to Intel WiDi Mode

Push mode selection button on the WPG-370 till you see the screen below, the box is ready for Intel Wireless Display connection.

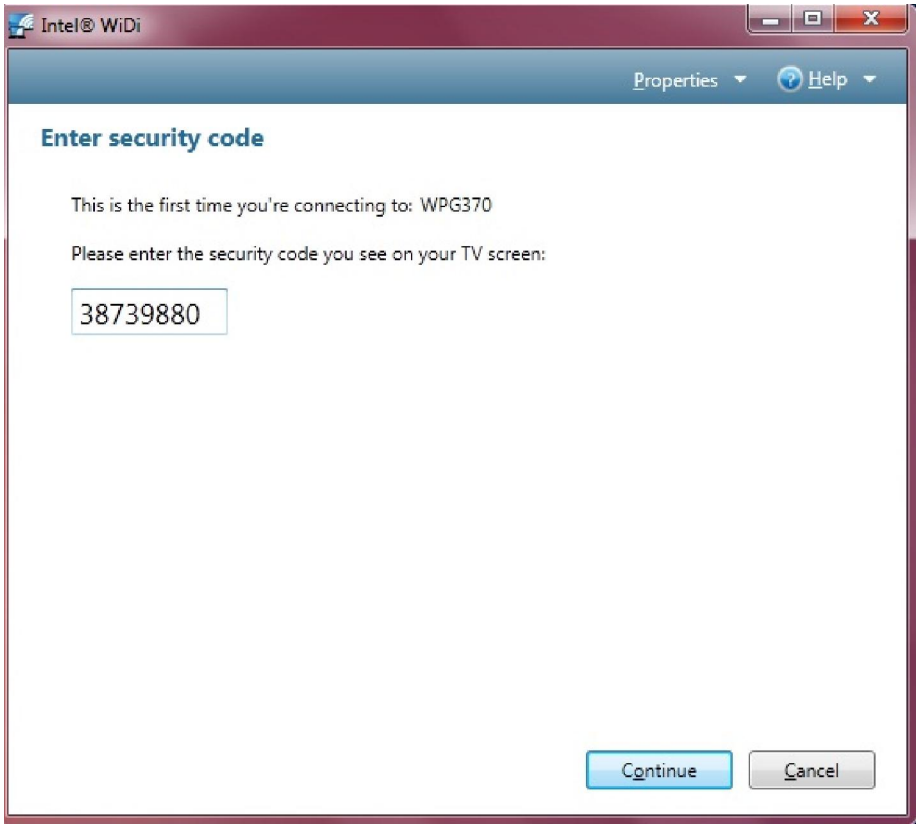
3.2 Connect to WPG-370 by Intel WiDi

For Intel WiDi platform device
Please follow the next steps to do Intel WiDi connection

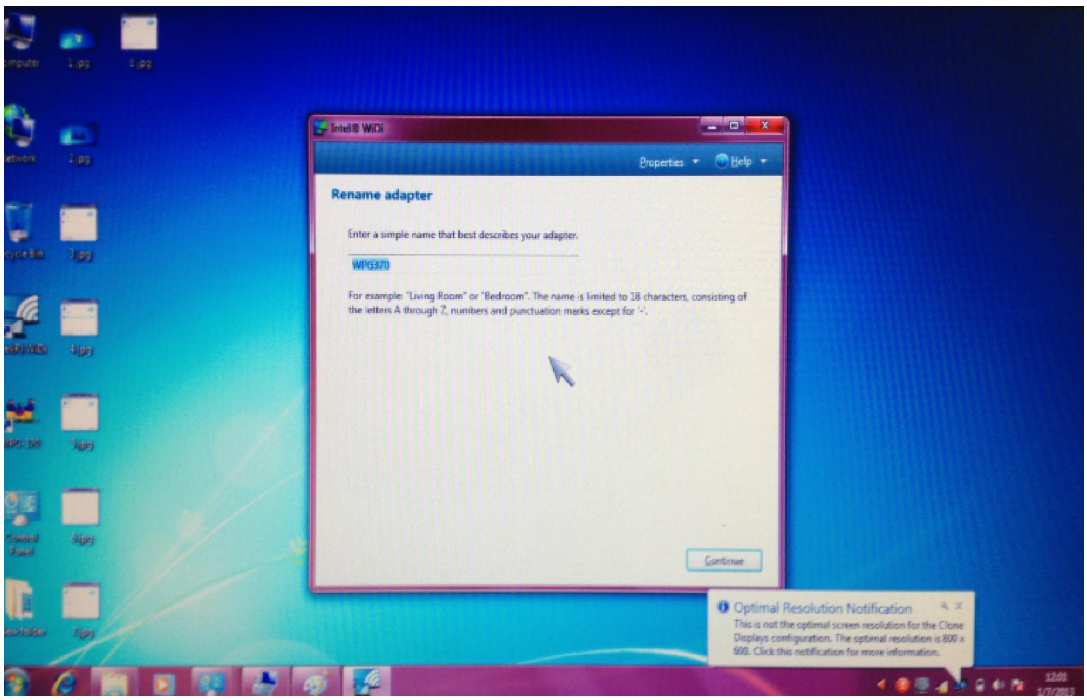
1. **Double** click the Intel WiDi icon from your PC desktop.

Click " Scan for available adapters" and then connect to the adapter with same ID on the screen.

2. For the first connection, users need to type the password show on the projector or TV screen.



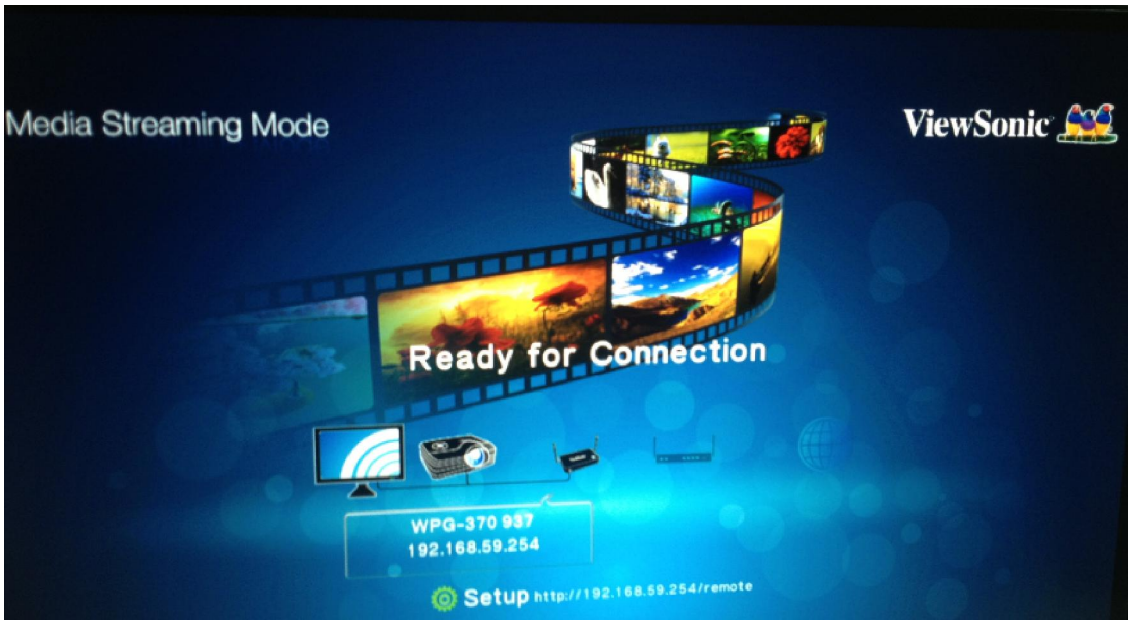
3. After the connection successful, PC screen will be projected to the screen of TV or projector.



Chapter 4: Using WPG-370 on Media Streaming Mode

4.1 Switch WPG-370 to Media Streaming Mode

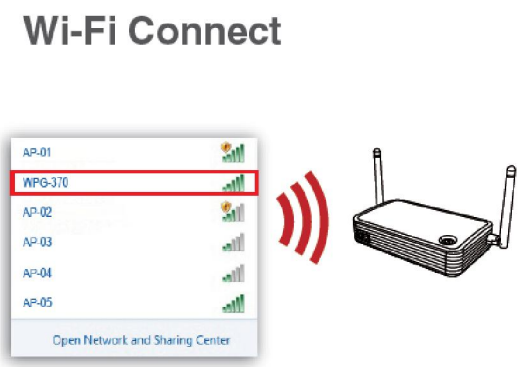
Push mode selection button on the WPG-370 till you see the screen below, the box is ready for **Media Streaming Mode** connection.



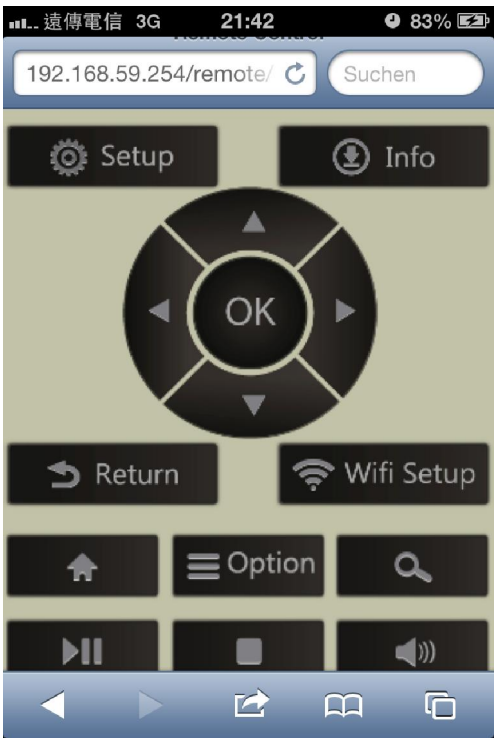
In Media Streaming mode, you can streaming photo/music/video from your PC, Smartphone or tablet. Or play video/Music/photo form USB

Please follow the instruction to do media streaming.

1. Connect to WPG-370 in Wi-Fi AP list.



2. Play media by WiFi streaming, we recommend software/AP as following : For more information Please check user manual of each software.
   - PC: AirFun (in CD wizard)
   - Android: iMediaShare, Airfun
   - iOS: iMediaShare, Wi-Fi Media
3. Play media by USB
   - Plug in USB drive in to WPG-370
   - Use virtual remote to control. (key in IP address with suffix “/remote”) EX: 192.168.59.254/remote, will show below



- You can play Video, Photo or music that you select.

Appendix A: Support resolution

Interface	Output resolution
VGA	800x600@60Hz、1024x768@60Hz、1280x800@60Hz、1280x1024@60Hz、1366x768@60Hz
HDMI	NTSC,PAL,480p,576p,720p50Hz,720p60Hz,1080i50Hz,1080i60hz,1080p50Hz,1080p60Hz

Appendex B: WPG-370 Support Media Format

Video Format

Format	File extension
AVI	avi
MPEG-1	mpg, mpeg
MPEG-2	mpg, mpeg
MPEG-TS	m2t, tts
MPEG-4	mp4, mp4v, mpeg4, m4v

3GP	3gp, 3gpp
3GP2	3g2, 3gpp2
MOV	mov
WMV	wmv
DVR-MS	dvr, dvr-ms

Audio Format

Format	File extension
MP3	mp3
LPCM	pcm, wav, l16
WMA	wma
WAV	wav
MP4	mp4
AAC	aac
OGG	ogg, oga, ogv

Photo Format

Format	File extension
GIF	gif
JPG	jpg, jpeg
BMP	bmp
PNG	png