WiFi to VGA Wireless Video Extender with Audio

*actual product may vary from photos

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FCC Compliance 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 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.

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Introduction

The WIFI2VGA WiFi to VGA Wireless Video Extender with Audio lets you send a VGA signal with supporting audio wirelessly from your laptop or desktop computer to a remote VGA projector or display up to 180 feet (55 meters) away, at resolutions up to 1440x900.

This VGA over WiFi adapter connects using a single, compact device situated by your remote display; unlike many other wireless VGA solutions that require devices at both ends of the connection - saving the hassle of carrying a secondary device and giving you the freedom to install the included software on many computers as needed.

Compatible with Wireless N (IEEE 802.11N - backwards compatible with 802.11 B/G) networks, the wireless VGA extender offers data rates up to 150 Mbps for optimum video and audio quality, and also features an integrated USB port for keyboard/mouse connection.

Packaging Contents

• 1 x WiFi to VGA Converter
• 1 x Universal Power Adapter
• 3 x Power Adapter Plug (NA/ UK/ EU)
• 1 x Installation CD
• 1 x Instruction Manual

System Requirements

• IEEE 802.11N or G or B wireless network
• VGA enabled display device (i.e. monitor, projector, HDTV, etc.) with VGA cable
• Available AC electrical outlet
• Microsoft® Windows® XP/ Vista/ 7 (32/64-bit)
Front View

- Power LED
- USB connector
- Power Button

Rear View

- 3.5mm Audio connector (Output)
- VGA connector (Output)
- DC Power connector
- RJ45 Ethernet connector
Installation

Software and Driver Installation

1. Insert the included installation CD into the computer’s CD/DVD drive.
2. If AutoPlay runs, choose the option to browse/open the folder. Otherwise you can access the files on the CD by going into My Computer and double-clicking the CD/DVD drive.
3. Run the PC2TV application to begin the driver/software installation wizard.
4. Proceed through the installation wizard until the benchmark application runs.
5. The Benchmark application will test the capabilities/performance of the computer system to run the video extender software. It will provide a rating out of 5 stars (see below for description). Click the “Analysis” button to begin.
<table>
<thead>
<tr>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Star</td>
<td>CPU and graphics performance are below minimum recommended levels.</td>
</tr>
<tr>
<td>2 Star</td>
<td>Music and Photo viewing and web surfing are acceptable. Video playback at a very low screen resolution may be possible.</td>
</tr>
<tr>
<td>3 Star</td>
<td>Good Music playback and Photo viewing quality. Video playback may still lag.</td>
</tr>
<tr>
<td>4 Star</td>
<td>Video playback should be smooth.</td>
</tr>
<tr>
<td>5 Star</td>
<td>Best performance for video playback and all features.</td>
</tr>
</tbody>
</table>

6. After the benchmark is complete, reboot the computer.
7. After the computer has rebooted, there will be an icon for PC2TV that will launch the software for the video extender.

**Hardware Installation**

1. Connect a male/male VGA cable from the rear panel of the video extender to the remote display.
2. Connect the included power adapter from an electrical outlet to the video extender.
3. **OPTIONAL:** Connect a USB peripheral, such as keyboard/mouse, to the USB hub ports on the wireless video extender.
4. Turn on the remote display.
5. Turn on the video extender by pressing the power button on the front panel.
6. Wait at least 60 seconds for the remote display to show the ready screen from the video extender.

7. You can now connect to the video extender over WiFi.
Wireless Network Configuration

The video extender can operate in two wireless modes: Wireless Access Point mode (AP) or Client Mode (STA).

- **AP Mode** (default): The video extender will act as a wireless access point (i.e. wireless router) for other wireless enabled computers. This mode is useful if there is no existing wireless network where the video extender will be used, or you do not wish to have the video extender on your main network.

- **Client Mode**: The video extender will act as a regular wireless client and connect to an existing wireless network. This mode is useful if there is an existing wireless access point (i.e. wireless router) already setup or if the computers need Internet access at the same time. **NOTE**: The wireless AP must have DHCP enabled.

**To set the video extender into Client mode:**

1. By default, the wireless video extender will be set to AP Mode. Check your computer’s wireless network settings for the network called “PC2TVwifi”.

2. Connect to the PC2TVwifi network. No encryption/security should be enabled yet.

3. Once connected, run the PC2TV program from the desktop icon.

4. Open the “Setting” menu and then click on the Configuration button.
5. From the Configuration window, click on the “STA Mode” tab then click the “Enable” option. Enter the required information for connecting to your existing wireless network (i.e. SSID, encryption type and network key). Click the SAVE button once complete.

![Enable Station Mode](image)

**NOTE:** Client/STA mode does not support static IP addresses. The wireless AP must have DHCP enabled.

6. **OPTIONAL:** If connecting multiple wireless video adapters to this network, be sure to set a unique Device Name for each one for easy identification under the “Device” tab.

7. Restart the wireless video adapter by unplugging and reconnecting the power.
How to Use

1. Double-click the PC2TV icon from the desktop.

2. Once the PC2TV application is ready to connect to the wireless video extender, the “Play” button will appear.

3. Clicking the “Play” button will automatically begin streaming the computer desktop to the remote display.

NOTE: Additional users may connect to the wireless video extender at any time. This will cause the currently connected user to be automatically disconnected.

4. To stop the video streaming, click “Play” once more on the PC2TV application.
Advanced Settings

Advanced Settings can be accessed by clicking on the “Setting” button at the bottom of the PC2TV application window.

- **Device List**: Displays the name of the connected wireless video extender.

- **Optimized For**: Optimizes the streaming video based on what you will be doing on the host computer. By default, this is set for “PC”, which should be used when running regular applications, such as web browsers or spreadsheets. Setting the slider bar in the middle should be used when viewing video/movies. If video performance is still not ideal, the slider can be set all the way to “Movies”.

- **PC Audio**: By default, when connected to the wireless video extender, audio on the host computer is disabled. Audio will instead be streamed to the wireless video extender only. By enabling this option, audio on the host computer will be restored, while still being streamed to the wireless video adapter.

- **Virtual Extend**: Enable to create an extended desktop screen that will be streamed to the extender instead of the main desktop screen.

- **Auto Play**: Automatically starts video streaming once the PC2TV application is launched and the device is detected. Click the icon to enable/disable.

- **Auto Start**: Automatically starts the PC2TV application on Windows startup. Click the icon to enable/disable.
Web Interface Configuration

The web interface for the wireless display adapter can be accessed by clicking the Configuration button in the PC2TV Advanced Setting window.

The web interface is divided into several sections that control different settings for the wireless display adapter.

- **Device:** Set the name/identifier for the wireless video extender, for easy identification if multiple extenders are present.
• **Overscan**: Adjust the overall width and height of the image on the remote display.

• **AP Mode/ STA Mode**: Select between AP Mode and Client Mode (STA Mode) and set any network settings required for each.
## Specifications

<table>
<thead>
<tr>
<th>Section</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Signal</td>
<td>VGA (RGBHV)</td>
</tr>
<tr>
<td>External Connectors</td>
<td>1 x DE-15 VGA female&lt;br&gt;1 x 3.5mm Audio mini-jack female&lt;br&gt;1 x USB type A female&lt;br&gt;1 x RJ45 Ethernet female&lt;br&gt;1 x DC Power</td>
</tr>
<tr>
<td>LEDs</td>
<td>1 x Power</td>
</tr>
<tr>
<td>Supported Video Resolutions</td>
<td>Standard: 1280x1024, 1280x768, 1024x768, 800x600&lt;br&gt;Widescreen: 1440x900, 1360x768, 1280x800, 1280x720</td>
</tr>
<tr>
<td>Maximum Data Transfer Rate</td>
<td>Wireless N: 150 Mbps</td>
</tr>
<tr>
<td>Audio Support</td>
<td>Yes</td>
</tr>
<tr>
<td>Supported Standards</td>
<td>IEEE 802.11n Draft 3.0, IEEE 802.11g, IEEE 802.11b</td>
</tr>
<tr>
<td>Wireless Operating Frequency</td>
<td>2.4 GHz ISM Bands (2.412~2.484 GHz)</td>
</tr>
<tr>
<td>Power Adapter</td>
<td>5V DC, 600 mA, center positive</td>
</tr>
<tr>
<td>Enclosure Material</td>
<td>Plastic</td>
</tr>
<tr>
<td>Dimensions</td>
<td>133.0mm x 71.0mm x 27.0mm</td>
</tr>
<tr>
<td>Weight</td>
<td>140g</td>
</tr>
<tr>
<td>Compatible Operating Systems</td>
<td>Windows XP/ Vista/ 7 (32/64-bit)</td>
</tr>
</tbody>
</table>
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