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# User Manual

## Wireless 1080p Computer to HD Display Kit

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GUWAVKIT4B

PART NO. M1281

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## Introduction

The GUWAVKIT4B Wireless 1080p Computer to HD Display Kit allows users to watch and share any notebook or PC content (such as pictures, movies and presentations) and any Internet content on their HDTV, projector or monitor without cable limitations and in up to stunning 1080p HD.

The GUWAVKIT4B transmitter connects to a USB 2.0 / USB 3.0 port available in the notebook PC and the Receiver Base connects to either an HD port available in flat screen TV or a VGA connection in monitors & projectors. Stereo audio is supported via the HD port (along with the video) or via a separate 3.5mm audio jack.

The GUWAVKIT4B provides full room coverage, is easy to set up and use, and is an ideal solution for both home and office use. It delivers the best combination of performance and cost in a variety of living room, conference room and classroom environments.

## Package Contents

- 1 x Wireless A / V Receiver
- 1 x Wireless USB Transmitter
- 1 x Power Adapter
- 1 x User Manual
- 1 x Warranty / Registration Card
- 1 x Installation CD

## Requirements

### PC:

- Intel 2.2GHz processor (2.4GHz Recommended) with 2GB (3GB Recommended) of system memory (RAM)
- Windows® 7, Windows® 8.x
- Graphics Chipsets Supported: Intel, AMD, and NVIDIA
- An available USB 2.0 Port / USB 3.0

### TV:

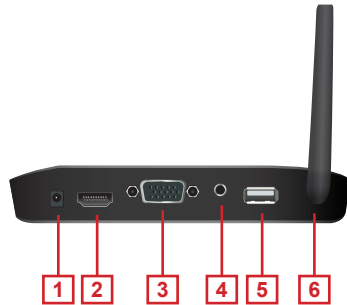
- HDTV or Projector with HDMI, VGA (RGB / D-sub 15-pin / PC), or DVI port (DVI adapter not included)
- TV or audio system with HDMI or 3.5mm audio jack

# Overview



## Receiver Base Front View

1. Signal Indicator Light
2. Wireless Connection LED light



## Receiver Base Back View

1. DC Power Input
2. HD Port
3. D-Sub 15Pin (VGA)
4. 3.5mm Audio Out
5. USB 2.0 Port
6. Antenna



## PC Adapter

1. USB 2.0 Connector

## Software Installation - Windows

The installation checks the PC capabilities and compares them to the minimum system requirements of the system. For Windows 7, it is recommended to run WEI (Windows Experience Index) calculation prior to installation.

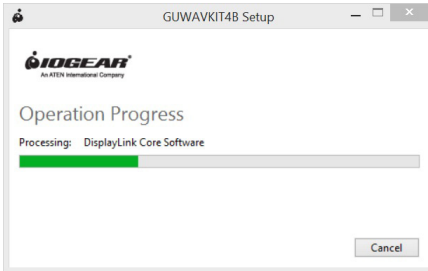
**Before you start:** Ensure that the PC Adapter is unplugged from the PC.



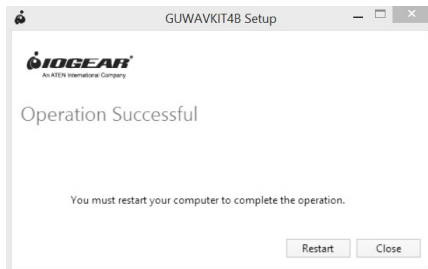
1. Insert the installation CD into the PC's CD-ROM drive.
2. The installation CD License Agreement menu is displayed below.
3. Check the **"I agree to the license terms and conditions"** box and click on **"Install."**
4. The software will automatically create a folder and load the software content into the C: drive in the Program Files folder.



5. During software installation, the Operation Progress screen will appear.



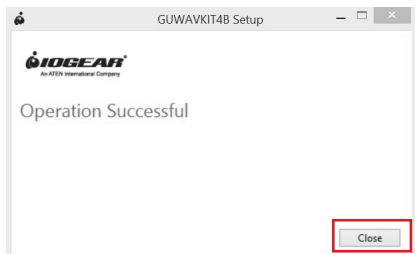
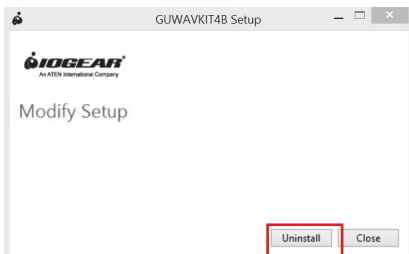
6. Once Setup is completed, the Operations Successful screen will appear. Click "**restart**" to reboot your computer to complete the installation process.



## Uninstalling the Software (2) Methods:

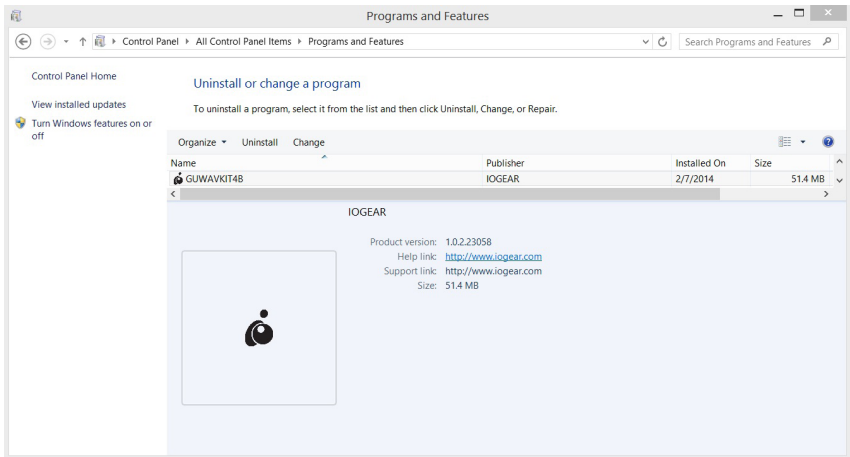
### Method 1

1. In the event that you need to uninstall the software, insert the installation CD. Once the Modify Setup screen appears, click "**Uninstall**." Note: The Modify Setup screen will only appear if the GUWAVKIT4B is already installed on your PC.
2. An Operation Progress screen will appear during the Uninstall process.
3. Once the Uninstall process is completed, an "Operation Successful" screen will appear. Click on "**Close**" then restart your PC to complete the Uninstall process.



## Method 2

1. Go to your Control Panel on your PC and then select "Programs and Features" to uninstall the following program: **GUWAVKIT4B**.





# Hardware Installation

## 1. Connect the Wireless USB PC Adapter

1. Connect the Wireless USB PC Adapter to an available PC USB port.
2. The system will automatically detect and install the drivers.



## 2. Connect the Power Adapter

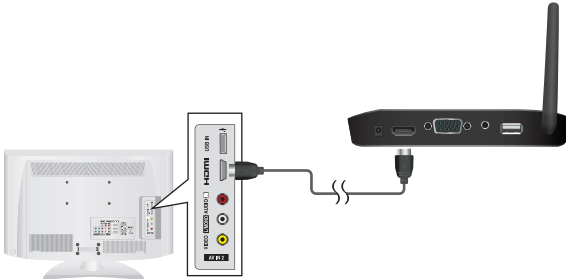
1. Plug the AC Adapter cord into the DC-IN on the back of the Receiver Base.
2. Connect the AC adapter to a live electrical outlet. The power light on the front panel flashes red once when the Receiver Base is powered on.



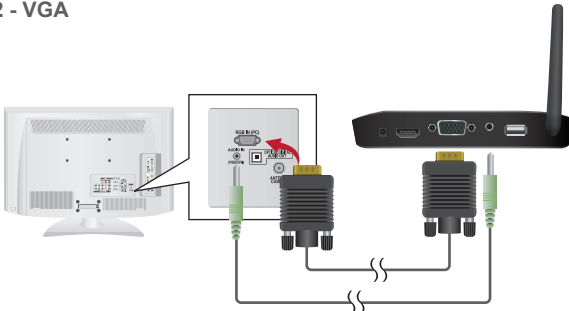
## 3. Connecting a TV, Monitor or Projector

1. You can connect a digital (HD) or analog (VGA) monitor to the Receiver Base. Only one monitor can be connected to the HD Adapter at a time.
2. Connect an HD or VGA Cable to the HD or VGA port on the Receiver Base
3. Connect the other end of the cable to the TV, Projector or external monitor.

### Option 1 - HD



### Option 2 - VGA



#### 4. Connecting Audio Devices

1. The Wireless USB Device Adapter provides one 3.5mm port, as shown in the illustration on the last page.

Note: HD and 3.5mm options may be operated simultaneously

#### 5. Set-Up Complete

1. The default configuration for the external monitor connected to the Receiver Base is in the Extend mode (an extension of the image on the computer to a second screen).
2. When the PC's image is displayed on the display / monitor, the Wireless Connection LED Light bar on the front panel will glow blue. The Power / Signal light will either glow green (good signal), orange (fair signal) or red (weak signal) depending how far away the PC / PC Adapter is from the Receiver Base. For best video image results, please position the PC / PC Adapter close enough to the Receiver Base so that the Power / Signal Indicator Light shows green.



#### 6. Connecting USB Devices\* (Optional)

1. The Receiver Base provides one USB 2.0 port.
2. Connection can be made to an External HDD's, wireless keyboard etc.

\*Webcam's are not supported.



Note: IOGEAR Wireless A / V Multimedia Keyboards with Trackball make a perfect companion: GKM561R, GKM681R, GKM581R and GKM571R.

# Using the IOGEAR Wireless Software - Windows

This section provides information on using the following software to manage the IOGEAR Wireless Software to adjust settings to suit your needs:

1. UWB Connection Manager
2. Adjusting Video Settings
3. Adjusting Audio Settings

## 1. Introducing the UWB Connection Manager Software

The UWB Connection Manager is the driver software for the GUWAVKIT4B. This driver is automatically installed when you run the GUWAVKIT4B Installation CD. The GUWAVKIT4B's PC Adapter contains a radio transmitter that enables your computer to communicate wirelessly with the Receiver Base. This radio is known as the host radio. The UWB Connection Manager driver software enables you to manage the host radio and perform tasks such as the following:

- Connect / Disconnect the GUWAVKIT4B from your computer
- Change / Select the channel used for radio communication
- Disable / Enable radio communications
- Disable / Enable pop-up messages

### A. Accessing the UWB Connection Manager

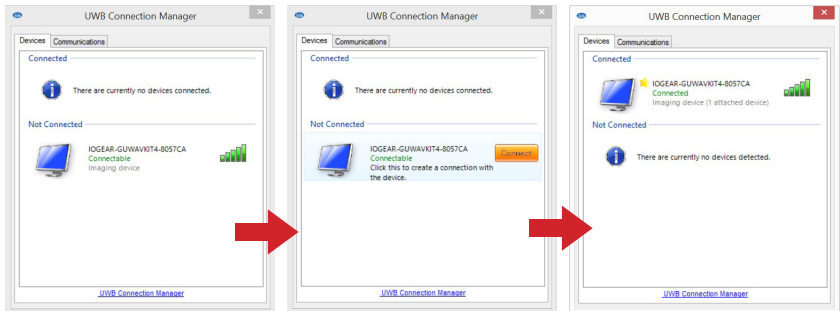
To start the UWB Connection Manager: Double-click the UWB Connection Manager icon in the System tray / Notification Area of your Windows® desktop.



Note: The UWB Connection Manager icon appears as Blue in your System tray / Notification Area only when the PC adaptor is connected to your computer. You may need to click the Show Hidden Icons button to display hidden icons. If the icon is not displayed in the System Tray / Notification Area, you can access the UWB Connection Manager by double-clicking on the UWB Connection Manager icon on your Windows® desktop.

## B. Connecting the GUWAVKIT4B to your computer:

The UWB Connection Manager display window will show the GUWAVKIT4B on the Devices tab as Not Connected. Simply click on the Connect button to establish a connection. It will take approximately 15 seconds for the Drivers to load upon first connection. When the wireless connection has been made, a yellow star will automatically appear next to the GUWAVKIT4B icon, making it the default device for future connections. If the external monitor connected to the Receiver Base shows only the wallpaper background of your Windows® desktop, please refer to Page 15 to set the display mode to Mirror Mode.



## C. Disconnecting the GUWAVKIT4B from your computer:

On the Devices tab of the UWB Connection Manager, right-click on the connected GUWAVKIT4B and unselect "Set as default." Once the device is no longer the default device you can then either a) double-click on the device, or b) right-click then select "Disconnect". The device will now move back to "Not Connected" status

## D. Renaming the GUWAVKIT4B:

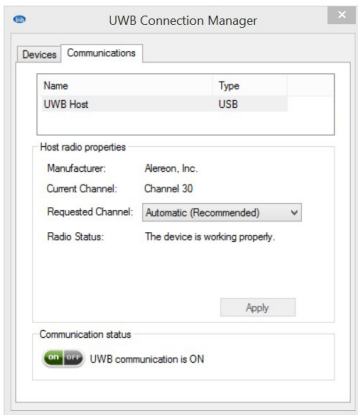
You can change the name of the each GUWAVKIT4B listed on the Devices tab of the UWB Connection Manager. This is especially useful if you have multiple GUWAVKIT4B's to differentiate. To rename a GUWAVKIT4B, right-click on the default name, select Rename from the shortcut menu, and then enter a custom name.

## E. Radio Communications

To change / select the channel used for radio communication:

The Communications tab of the UWB Connection Manager enables you to view and change the radio settings. The default channel setting is Automatic, which enables the host radio to automatically locate an available channel for communications.

Note: It is recommended to leave this setting on Automatic. If you manually select a channel that is being used by another GJWAVKIT4B in the vicinity, the channel bandwidth will be shared by both devices. To maximize performance, there are eight channels to choose from and a separate channel should be used for each GJWAVKIT4B.



## F. Disable/Enable Radio Communications:

To temporarily disable the host radio, do one of the following:

Under the Communications tab, click the Off button in the Communications Status. The radio is now in Airplane Mode and the UWB Connection Manager Icon in the System Tray will now turn Yellow:



## 2. Adjusting Video Settings

### A. Selecting Extended mode or Mirror mode

You can choose to set the video output signal to Extend mode or Mirror mode. The default setting is Extend mode.

**Extend mode** extends your desktop space across multiple monitors, so that you can display different information on each monitor connected to your computer. This provides a number of advantages to increase productivity, including the ability to:

- View large spreadsheets across two screens
- Multitask more effectively without overlapping windows
- Compare two documents simultaneously across two screens
- View videos / TV on one screen and reviews on the other




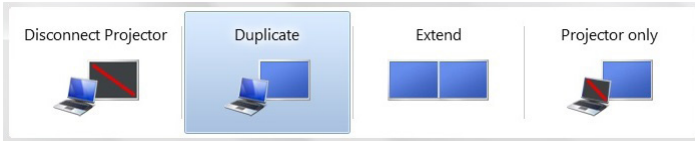
**Mirror mode** duplicates the image on your computer screen onto the external monitor(s). This mode is useful if, for example, you want to view information on a larger, external desktop monitor instead of a smaller, built-in computer screen. In Mirror mode, the Adapter automatically adjusts the external monitor's resolution, color quality, and refresh rate settings to provide the best overall image quality based on your computer's settings.



## B. Configuring the Display

### 1. Configuring the Display in Windows 7

- a. In Windows 7, there is a built in support for external monitor. To use it press the [Windows] key together with the [P] key(  + [P]), and then the following menu will appear:



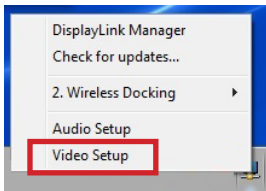
- 1) For Mirror mode : choose **Duplicate**
- 2) For Extend mode : choose **Extend**

- b. Using Windows Display Properties on Windows 7

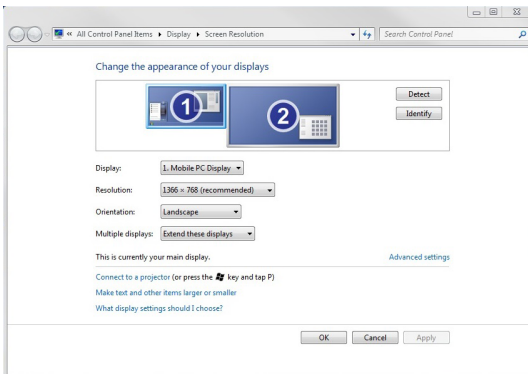
Click the Viewspan icon (  ) in the System tray / Notification Area.



Click **Video Setup** to configure screen resolution or any other display options



The following windows will appear:



To change any of the external display settings:


Select the appropriate display name in the Display scroll down options. You should select the name of the TV or monitor or projector connected to your Receiver Base.

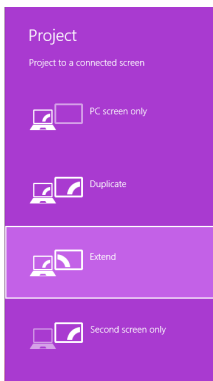
Select the desired value in any of the available settings:

- Resolution: your external display resolution.
- Orientation: select either Landscape or Portrait.
- Multiple displays: select either Mirror or Extend mode.

Make this my main display: mark this option to make the external display the primary display on which the desktop is displayed.

## 2. Configuring the Display in Windows 8.x

- a. In Windows 8.x, there is a built in support external monitor. To use it press the [Windows] key together with the [P] key (  + [P]), and then the following menu will appear:
- 1) For Mirror mode: choose Duplicate
  - 2) For Extend mode: choose Extend



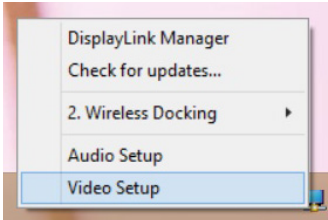
- b. Using Windows Display Properties on Windows 8.x

Click the Wireless Docking icon  in the System tray / Notification Area.

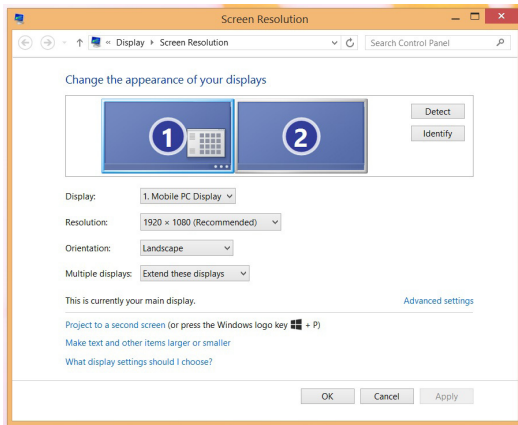




Select Video Setup to configure screen resolution or any other display options.



The following window will appear:



To change any of the external display settings:

Select the appropriate display name in the Display scroll down options. You should select the name of the TV or monitor or projector connected to your Receiver Base.

Select the desired value in any of the available settings:

- Resolution: your external display resolution.
- Orientation: select either Landscape or Portrait.
- Multiple displays: select either Mirror or Extend mode.

Make this my main display: mark this option to make the external display the primary display on which the desktop is displayed.

## 3. Adjusting Audio Settings

### A. Configuring audio ports

You can playback audio either through the Receiver Base's audio port or the PC's audio port. However, you cannot use the audio ports on the PC and on the GUWAVKIT4B at the same time.

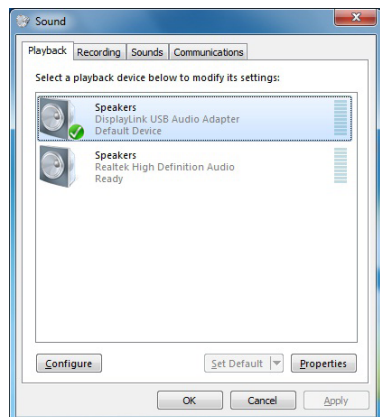
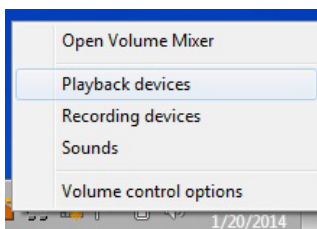
By default, the audio ports on the GUWAVKIT4B are automatically enabled each time you connect. When you disconnect the GUWAVKIT4B from the PC, the audio ports on the PC are automatically re-enabled. To change the default settings, you may need to manually adjust the audio settings in Windows®, as described in this section. For example, if you want to use the PC's audio ports while the PC is docked, you will need to change the default settings

### B. Setting Audio Output Device

The PC audio output device should set itself automatically to the GUWAVKIT4B's connected wireless audio device when the wireless connection is made to the Receiver Base. If it does not switch automatically, it can be selected manually as follows:

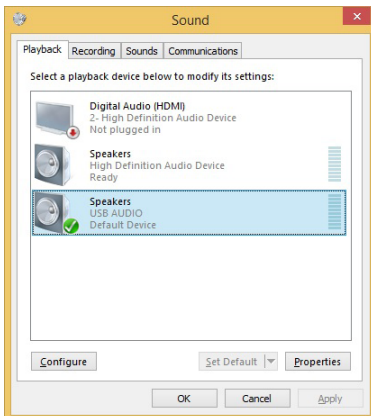
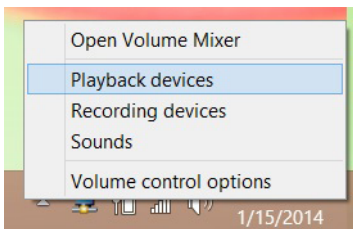
#### 1. In Windows 7:

- Right click the Volume icon in the System Tray / Notification Area and select **Playback devices**.
- In the **Playback** tab, select **USB AUDIO** speakers.
- Then click **Set Default** to set it as your default speakers.
- Click **OK** to save the new setting.



## 2. In Windows 8.x:

- a. Right click the Volume icon in the System Tray and select **Playback devices**.
- b. In the **Playback** tab, select **USB AUDIO** speakers.
- c. Then click **Set Default** to set it as your default speakers.
- d. Click **OK** to save the new setting.



# Troubleshooting

This section provides answers for problems you may encounter when using your GUWAVKIT4B. If you need to contact IOGEAR, you will find information regarding IOGEAR's support services at the end of this section.

Before you contact IOGEAR, please read the troubleshooting advice in this manual, your computer's user's guide and/or in any manuals that came with your optional peripheral devices.

This section provides troubleshooting guidance for problems in the following categories:

- Display/Video
- Audio/sound
- Connection/Docking
- USB

## **1. Display / Video**

### **A. External monitor does not turn on (the monitor's power light does not turn on).**

1. Make sure that the external monitor's power switch is on.
2. Confirm that the external monitor's power cable is plugged into a live electrical outlet.
3. Make sure that the external monitor is securely connected to the Receiver Base.
4. Check the external monitor settings.
5. Refer also to the computer user's manual and to the external monitor's documentation.

### **B. No image displays on the external monitor connected to the GUWAVKIT4B.**

1. If you connect through an HD or VGA Cable, check to ensure your cable is connected properly on both sides.
2. Make sure you have the correct video input selected on the TV or Projector.
3. Try adjusting the resolution, contrast and / or brightness controls on the external monitor.
4. Check to make sure that the wireless connection is established between the PC and the GUWAVKIT4B (the UWB Connection Manager icon in the System Tray is green, and when you double-click on it, your TV or Monitor shows connected).
5. Make sure your Windows® operating system is updated with the latest available Service Pack from Microsoft®.
6. Your computer BIOS (Basic Input / Output System) may also need to be updated. Refer to your computer manufacturer's Website for more information.
7. Restart your computer after updating the operating system and / or the BIOS, and try using the GUWAVKIT4B again.

### **C. Display Error.**

Check that the cable from the Receiver Base to the external monitor or projector is firmly attached.

**D. The external monitor connected to the Receiver Base shows only the wallpaper background of your Windows® desktop.**

1. The default configuration for the external monitor connected to the Receiver Base is in the Extend mode (an extension of the image on the computer to a second screen).
2. This mode allows you to display different information on each monitor connected to your computer. Drag a window off of the right side of your primary display to have it appear on the external monitor.
3. To switch to Mirror mode, so that an exact duplicate of the image on your primary monitor displays on the external monitor, please see “Adjusting video settings” beginning on page 20.

**E. Video or game playback is slow or choppy on the external monitor connected to the IOGEAR Wireless Software.**

1. Confirm that the PC meets the minimum system requirements to run the GUWAVKIT4B. You can find the requirements on the packaging, or online in the product pages at [www.IOGEAR.com](http://www.IOGEAR.com)
2. Ensure the PC is within 30ft of the TV / Monitor and the Wireless USB PC Adapter has direct line of site to the Receiver Base.
3. Double click on the UWB Connection Manager icon in the system tray and note the signal strength meter next to the device icon in the Window. Signal strength must be 4-5 bars to play high definition video.
4. The UWB Connection Manager uses an advanced video graphics controller to display video images; however it does not support 3D Gaming.

**F. Cannot play videos on an external monitor connected to the GUWAVKIT4B.**

Try a different media player. VLC Media Player is recommended, though the GUWAVKIT4B supports many different players.

**G. The Screen Resolution window in the Control Panel does not list all of the resolution modes my monitor is capable of displaying.**

The GUWAVKIT4B's video card requires Extended Display Identification Data (EDID) to be supplied by a connected monitor. This information includes resolution settings supported by the monitor. Some monitors do not supply this information, and in such cases the resolution settings available in the Screen Resolution Window will be limited, to avoid damage to the monitor.

**H. The external monitor connected to the GUWAVKIT4B is incorrectly identified as a “Non-PNP monitor” in the Windows® Device Manager.**

The monitor name displayed in the Windows® Device Manager is controlled by Windows®. This designation will not affect the functionality of the device.

**I. The computer's built-in display does not turn off when the external monitor connected to the Receiver Base is set as the primary monitor.**

On some systems, the GUWAVKIT4B video adapter cannot control the internal display.

**J. Mirror mode is not available (grayed out).**

1. Mirror mode is not available if the external monitor connected to the Receiver Base is set as the primary display.
2. To enable Mirror mode, set the computer's built-in display as the primary display in the Windows Display Properties dialog box.

**K. Scalable Link Interface (SLI) mode is not available.**

This product does not support SLI mode when more than two graphics cards are installed in the connected computer. In such cases, SLI mode is disabled.

**L. In Windows Display Properties, I cannot move the external monitor icon where I want relative to the icon of the computer's built-in display.**

Try dragging the computer's built-in display icon instead, relative to the external monitor icon.

**M. I cannot drag windows from my primary display to the external monitor connected to the IOGEAR Wireless Software.**

Follow these steps to fix the problem:

1. Open the Windows® Display Properties dialog box and position the monitor icons on the Settings tab to match the physical arrangement of your monitors.
2. Make sure the "Extend to" setting matches the physical arrangement of your monitors.  
For example, if the external monitor is to the right of the computer display, select "Extend to right."
3. Drag the window you want to move in the direction that matches the extension setting.  
For example, if the desktop space is extended to the right, drag the window off of the right edge of the primary display and it will appear on the extended desktop.

**N. I cannot run a 3D program or a program using DirectDraw commands on the external monitor connected to the GUWAVKIT4B.**

1. This product does not support 3D programs.
2. Running applications that use certain DirectDraw commands (such as some 2D gaming applications) is also not supported. If you want to play these games in full-screen mode, disconnect the GUWAVKIT4B and use your computer's display.

## **2. Audio / Sound**

### **A. There is no sound coming from the external audio device connected to GUVAVKIT4B.**

1. Check and adjust the volume settings.
2. Make sure the cable connecting the audio device to the Receiver Base's audio output is secure.
3. Check that the Mute all / Mute checkboxes in Microsoft® Windows® are not selected or that the volume is not set too low.
4. To locate these settings, double-click the speaker icon in your Windows® System tray / Notification Area.
5. Close your media player application, if it is running. Wait approximately 10-15 seconds for the operating system to recognize the audio device connected to the Receiver Base and then restart your media player application.
6. The audio port on the GUVAVKIT4B may be disabled. To enable the port, follow the instructions in "Configuring audio ports" on page 20.

### **B. There is no sound coming from the computer's internal speakers, or from the headphones / headset connected directly to a computer that is docked in a docking station.**

1. By default, the internal speakers and audio ports on the computer are disabled when the computer is connected to the GUVAVKIT4B. To enable the speakers or audio ports on the computer, follow the instructions in "Configuring audio ports" on page 20.
2. Check that the Mute all / Mute checkboxes in Windows® are not selected. To locate these settings double-click the speaker icon in your Windows® System Tray / Notification Area.
3. Close the media player application, if it is running. Wait approximately 10-15 seconds for the operating system to recognize the audio device and then restart the media player application.

### **C. Sound is distorted or delayed when playing some multimedia files.**

1. Disconnect the GUVAVKIT4B from your computer, reconnect and play the file again.
2. Close the Media Player being used and restart the player.

### **3. Connection / Docking**

- A.** My computer does not automatically detect the PC adapter.
1. Make sure you have properly connected the PC adapter to your computer's USB port.
  2. Unplug, then re-plug in the adapter.
  3. Reboot the PC.
  4. The computer's USB port may be damaged. Check to see if other devices can be successfully connected to the port.
- B.** The connection to the GUWAVKIT4B has been lost.
1. The computer may be out of wireless communication range. Bring the computer within close range of the GUWAVKIT4B to automatically reconnect.
  2. The computer may be in standby / sleep / hibernation mode. The computer will re-connect when it resumes from standby / sleep / hibernation.
  3. The USB adapter may have been disconnected. Re-connect the USB adapter to the computer.

### **4. USB**

- A. USB device does not work.**
1. Make sure the GUWAVKIT4B is connected to your computer and the computer is docked (indicator light on GUWAVKIT4B is green).
  2. Check that the cable connection between the USB port on the Receiver Base and the USB device is secure.
  3. Make sure that the GUWAVKIT4B drivers are properly installed. Refer to the operating system documentation for more information.
  4. Make sure that the AC adapter (if applicable) is connected securely to the Receiver Base and a live electrical outlet.
- B. The GUWAVKIT4B is not charging the USB device.**
- My real-time device (for example, a Web camera, microphone, or speakers) does not operate properly when connected to the GUWAVKIT4B.
- Due to USB bandwidth limitations, real-time devices (for example, Web cameras, microphones, and speakers) may not operate correctly and cannot be supported.



# Specifications

Function		GUWAVKIT4B
Audio	Audio Output	2 Channel 16-bit DAC
	Sample Rate	48KHz, 16-bit either from 3.5mm stereo jack or HDMI connector
Console Connectors	Audio	1 x 3.5mm Stereo Jack
Video Streaming		Up to 1080p resolution
Video Resolution		Up to 2048 x 1152 (SXGA+)
Video Connections	Output	1 x HDMI, 1 x VGA in Mirror or Extended Modes
Antenna Type		Whip type, directional
Operation Range		Same room, line of site range, up to 30ft
Computer Connections	Direct	USB type-A male
LED	Power Off	Not connected
	Green	Strong connection
	Orange	Good connection
	Red	Weak / Bad connection

## Federal Communications Commission (FCC) 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 setting. This product generates, uses, and can radiate radio frequency energy and, if not installed and used as directed, it may cause harmful interference to radio communications. Although this product complies with the limits for a Class B digital device, there is no guarantee that interference will not occur in a particular installation.

## CE Statement

This device has been tested and found to comply with the following European Union directives: Electromagnetic Capability (2004/108/EC), Low Voltage (2006/95/EC) and R&TTED (1999/5/EC).

## Limited Warranty

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2. Visit [www.iogear.com/support](http://www.iogear.com/support) for live help and product support

#### Warranty Information

This product carries a 1 Year Limited Warranty. For the terms and conditions of this warranty, please go to <http://www.iogear.com/support/warranty>

Register online at <http://www.iogear.com/register>

#### Important Product Information

Product Model \_\_\_\_\_

Serial Number \_\_\_\_\_

## Contact

### IOGEAR

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