# HP UHD USB Graphics Adapter

## User Guide

© 2015 HP Development Company, L.P.

Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

**Product notice**

This guide describes features that are common to most models. Some features may not be available on your product. To access the latest user guide, go to http://www.hp.com/support, and select your country. Select **Drivers & Downloads**, and then follow the on-screen instructions.

First Edition: September 2015

Document Part Number: 832997-001

# About This Guide

This guide provides technical specifications and information about setting up the graphics adapter, installing drivers, using the graphics adapter, and troubleshooting.

**WARNING!** Indicates a hazardous situation that, if not avoided, **could** result in death or serious injury.

**CAUTION:** Indicates a hazardous situation that, if not avoided, **could** result in minor or moderate injury.

**NOTE:** Contains additional information to emphasize or supplement important points of the main text.

**TIP:** Provides helpful hints for completing a task.

# Table of contents


1 Product features ..... 1
Safety instructions ..... 2
Applications ..... 2
Features ..... 2
Package contents ..... 3
System requirements ..... 3

2 Installing the adapter ..... 5

3 Using the adapter ..... 7
Display modes ..... 7
Extend mode (default) ..... 7
Mirror mode ..... 8
Primary display ..... 8
Adjusting resolution, color depth, and refresh rate ..... 9
Using multiple adapters ..... 10
Sleep and hibernate, shut down and restart ..... 11
Disconnecting the adapter ..... 11
Uninstalling the adapter and driver ..... 12
Automatic driver and software updates ..... 12
Audio configuration ..... 12
Configuring USB audio on Windows 7, Windows 8, and Windows 10 ..... 12
Setting USB audio as the default output ..... 12
Configuring the audio output ..... 13

4 Support and troubleshooting ..... 14
Solving common problems ..... 14
Product support ..... 16
Preparing to call support ..... 16

Appendix A Technical specifications ..... 17
HP UHD USB Graphics Adapter ..... 17

Appendix B Accessibility ..... 18
Supported assistive technologies ..... 18

Contacting support ..... 18

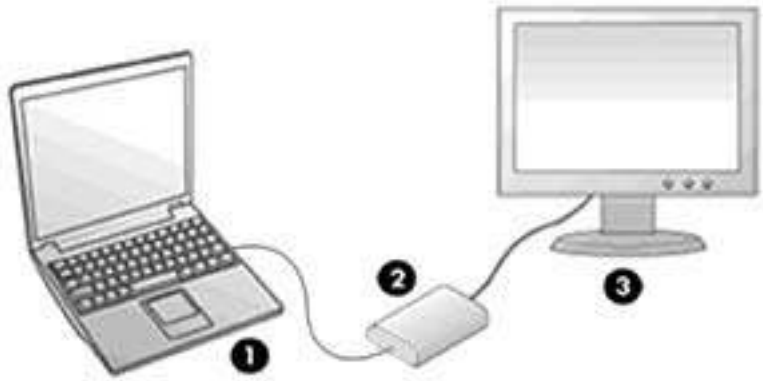
# 1 Product features

The HP UHD (ultra high-definition) USB Graphics Adapter enables you to connect an LCD monitor to a computer equipped with a USB 3.0 (or USB 2.0) port. For desktop users, adding an extra monitor through a USB connection is much easier than opening the computer chassis and installing an internal video card.

An added monitor provides several benefits.

- More applications are visible at one time. For example, you can work in an application on one screen while watching video on the other.
- Multiple windows can be distributed across two screens.
- A single application, such as spreadsheets, can extend across two screens.

The adapter itself is hot pluggable. If you are not using the extra monitor, unplug the adapter at any time; no reboot is needed. System performance is an important issue when using multiple monitors. This adapter uses minimal computer resources, ensuring that you get a quality image without compromising computer performance.




| | |
|---|---|
| (1) | USB-enabled computer |
| (2) | HP UHD USB Graphics Adapter |
| (3) | DisplayPort monitor |

**NOTE:** For safety and regulatory information, refer to the *Product Notices* provided with your adapter. It may be on an optical disc or in your documentation kit. To locate updates to the user guide for your product, go to http://www.hp.com/support, and select your country. Select **Drivers & Downloads**, and then follow the on-screen instructions.

# Safety instructions

- Keep this user guide for future reference.
- Keep the equipment away from humidity.
- If any of the following situations occur, have the equipment checked at an HP service center (see Product support on page 16):
  - The equipment has been exposed to moisture.
  - The equipment has been dropped and damaged.
  - The equipment has obvious signs of breakage.
  - The equipment has not been working correctly or you cannot get it to work according to the user guide.

# Applications

**Office workstation**

- View large spreadsheets across two screens with display continuity.
- Multitask more effectively without overlapping windows.
- Edit on one screen while surfing for Internet information on the other.

**On the road**

- Do multiple screen presentations without the need for another computer.
- Easily provide multiple screen exhibitions in a trade show.

**Graphics workstation**

- Use a second screen for palettes or tools.
- Get a panoramic view of large documents.

**Editing workstation**

- Type documents on one screen while viewing reference material on the other.
- Compare two documents simultaneously across two screens.

**Financial analysis**

- Have one monitor per data stream.
- View charts and live data at the same time.

# Features

- Supports DisplayPort graphics output
- Supports USB 3.0 and USB 2.0 input
- DisplayPort output supports resolutions up to 3840 x 2160 @ 30 Hz or 2560 x 1600 @ 60 Hz
- Supports up to 6 USB display adapters working simultaneously
- Plug & Play

- Hot-plug; add or remove monitor without system reboot
- Windows® 7, Windows 8, and Windows 10 compatible
- Resumes from hibernation and suspend modes
- Attached 700 mm USB 3.0 cable

**NOTE:** In certain modes, full-screen movies on DVD may not display on the add-on monitor.

# Package contents

Before installation, check the items in the package. The package should contain the following items:

- HP UHD USB Graphics Adapter
- Attached USB 3.0 cable (700 mm)
- Quick setup guide
- Driver and documentation optical disc

# System requirements

The adapter software can be installed on any system running one of the following operating systems:

- Windows 7 with Service Pack 1 (32-bit or 64-bit)
- Windows 8 and Windows 8.1 (32-bit or 64-bit)
- Windows 10 (32-bit or 64-bit)

The recommended hardware requirements for the computer are as follows:

- Clock speed of 1.2 GHz or higher, with SSE2 support
- 2 GB for one DisplayLink monitor; 4 GB or more are recommended for two or more DisplayLink monitors
- At least one USB 3.0 or 2.0 port
- 30 MB of available disk space
- Computer screen for use with the DisplayLink device, if it is not integrated
- Optical disc drive if installing adapter software from a disc, or network access if installing the software from a network
- For Windows 7, Windows 8, and Windows 8.1, the Windows Experience Index must be greater than 3.0. Access the Windows Experience Index by selecting **Computer** > **Properties** or **Control Panel** > **System**. Then click **Windows Experience Index** to see the Graphics score.
- Windows 7 - Windows 8.0: Microsoft® DirectX 9 or later graphics device with WDDM driver

  Windows 8.1: DirectX 10 or later graphics device with WDDM driver

**NOTE:** Systems lacking these recommended configurations may have limited performance and functionality.

The system requirements for UHD (4K) are higher than the system specifications listed above due to the extra resources needed to process the high resolution.

The recommended system requirements for productivity are as follows:

- Processor: Intel Core i5 2+ GHz / AMD Trinity or better
- Memory: 4 GB
- Graphics processor: Integrated or discreet Intel HD 4000, ATI Radeon HD7xxx, NVidia GeForce 5xxM graphics processors or better
- USB: USB 2.0 but USB 3.0 is recommended

The recommended system requirements for full screen video playback are:

- Processor: Intel Core i7 2+ GHz / AMD Richland A10-575x / AMD Kaveri A10-7400P or better
- Memory: 8 GB
- Graphics processor: Integrated or discreet Intel HD 4000, ATI Radeon HD 8650, NVidia GeForce 7xxM graphics processors or better
- USB: USB 3.0
- Disk: 7200 RPM or SSD

If playing UHD content (4K), the system must be capable of decoding the 4K video in the graphics processor.

# 2 Installing the adapter

Follow the procedures below to install the driver and connect the adapter.

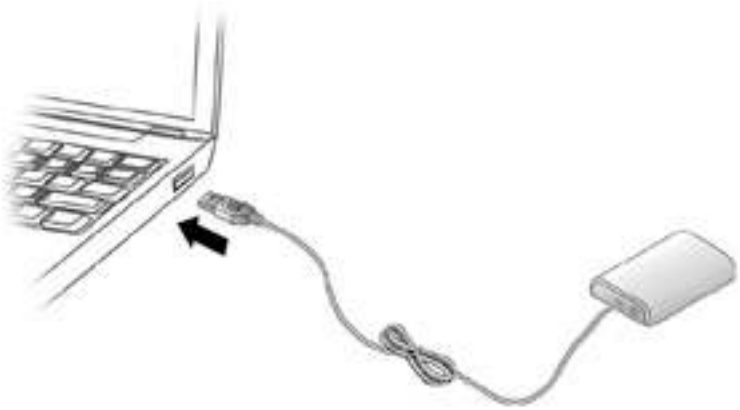
1. Insert the provided driver optical disc into the optical disc drive of your source device. The disc should open automatically. If it does not, go to the following directory on the disc—X:\Software\HP Graphics Adapter (where X is the drive letter designator for the optical drive) and double-click the Setup.exe file.

   For Windows operating systems, be sure you are installing the HP UHD USB Graphics Adapter Driver software version R7.9 or later. To confirm the software version, open the **Control Panel**, and double-click **Programs and Features**. Look for the version number associated with **DisplayLink Core Software** or **HP USB Graphics**. To download the latest driver, go to http://www.hp.com/support and select the appropriate country and language. Then select **Drivers & Downloads**, type your graphics adapter model in the **Find my product** search field, and click **Go**. Follow the on-screen instructions to complete the download process.

   When prompted with the Windows Security dialog box, select **Install this driver software anyway**.

2. Select the language.
3. Click **Install USB Graphics Adapter Driver**.
4. Select **I accept** in the License Agreement. The system automatically completes the installation.
5. If prompted to restart your computer, click **Yes** to restart. In most cases, a reboot is not required.
6. Once the drivers are installed, connect the adapter to your computer and monitor.

   After the drivers are installed, connect the adapter's USB cable to a USB 3.0 or USB 2.0 port on your computer. Connect a DisplayPort cable between the adapter and the monitor.



7. The computer automatically detects the new USB device and starts the Found New Hardware wizard. Follow the instructions on the screen to complete the installation.

8. When devices are attached, the following **DisplayLink** icon appears in the notification area, at the far right of the taskbar.




Click the icon to open the menu so that you can select your display mode and control any attached devices. You can also select your display mode through the Windows display properties settings. Check the HP support website to be sure that the adapter has the most up-to-date drivers and software for your operating system.

The adapter can be connected or disconnected at any time.

**NOTE:** During the installation, it is normal for the screen to flicker black a couple of times.

It may take one to two minutes for the add-on monitor to display the screen image.

For instructions on selecting or changing the display mode, see Using the adapter on page 7.

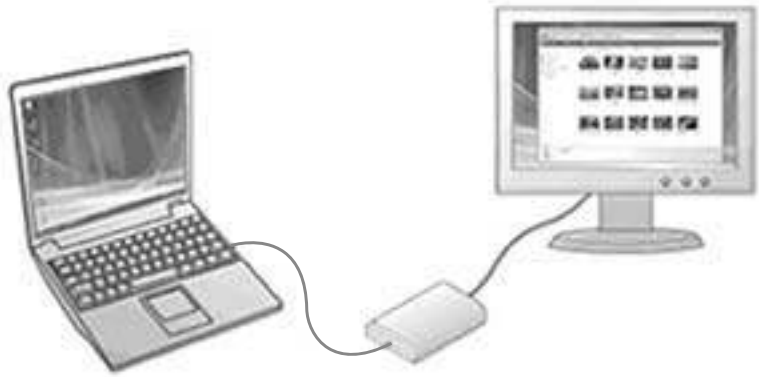
# 3 Using the adapter

## Display modes

There are several ways you can utilize the monitor attached to the adapter. The add-on monitor can be configured to use either extend mode or mirror mode, or it can be the primary display.

### Extend mode (default)

In extend mode (the default mode), your Windows desktop display spreads over to the add-on monitor(s). This mode allows you to perform multiple tasks more effectively without overlapping windows.



To set up the add-on monitor in extend mode, click the **DisplayLink** icon in the notification area, at the far right of the taskbar, and then select **Extend**. The screen display will now extend in the same direction as it did the last time the monitor was in this mode. Select **Extend to** for control of placing it to the **Left**, **Right**, **Above**, or **Below** the main (primary) monitor.

You can also set up the add-on monitor in extend mode through the Windows display settings. To use this method, follow these steps:

1. Position the cursor anywhere on your Windows desktop, right-click, and select **Screen Resolution**.
2. In the **Display** drop-down menu, select the monitor connected to the adapter.
3. In the **Multiple displays** drop-down menu, select the option **Extend desktop to this display**.
4. Drag the icons in the window at the top of the screen to match the physical arrangement of your primary monitor and add-on monitor.

   The add-on monitor connected to the adapter may be identified as either "2" or “3,” depending on your computer, although there may not be a total of 3 screens connected.
5. Click **OK** to close the settings screen.

To use your extended desktop, simply drag your open windows over to your second monitor. However, note that some applications may not support display on the extended desktop.

**NOTE:** You may have trouble locating your cursor. If you are in extend mode but the add-on monitor is not connected, the desktop still pans to the add-on monitor. It is possible that your cursor has moved to the extended desktop so that you cannot find it on the primary display. To solve this problem, connect the add-on monitor to the adapter or move your mouse until the cursor appears on the primary display.

## Mirror mode

In mirror mode, your original screen (the primary display) is mirrored to the add-on monitor. This mode is sometimes also called clone mode.



To set up the add-on monitor in mirror mode, click the **DisplayLink** icon in the notification area, at the far right of the taskbar, and select **Mirror**.

You can also set up the add-on monitor in mirror mode through the Windows screen resolution settings. To use this method, follow these steps:

1. Position the cursor anywhere on your Windows desktop, right-click, and select **Screen Resolution**.
2. In the **Display** drop-down menu, select the monitor connected to the adapter.
3. In the **Multiple displays** drop-down menu, select the option **Duplicate desktop**. If more than one adapter is attached to your computer, there may be more than one option to duplicate this display.
4. Click **OK** to close the settings screen.

In mirror mode, the settings on the primary monitor (screen resolution, color depth, and refresh rate) are replicated on the add-on monitor. But you can manually adjust the settings as required. However, the settings of the add-on monitor are limited by those of the primary monitor. For example, even though your add-on monitor supports a resolution of up to 1680 x 1050, you can only configure it to use 1280 x 1024 if the primary monitor only supports a resolution of up to 1280 x 1024.

## Primary display

To make the add-on monitor the primary display, follow these steps:

1. Position the mouse anywhere on your computer desktop, right-click, and select **Screen Resolution**.
2. In the **Display** drop-down menu, select the monitor connected to the adapter.
3. Select the **Make this as my main display** box.

   On some computers it is necessary to disable the main display (clear the **Extend the desktop onto this monitor** or **Extend my Windows desktop onto this monitor** box for the main display) as part of the same settings change.
4. Click **OK** to close the Screen Resolution screen.

The add-on monitor stays primary if the computer enters the Sleep or Hibernation state or is rebooted. If the add-on monitor is unplugged, the main display becomes primary again.

# Adjusting resolution, color depth, and refresh rate

Three components make up the screen mode:

**Resolution:** In common usage, this refers to the number of pixels displayed on the screen horizontally and vertically.

**Color Depth:** This defines the number of colors that can be shown on the screen at the same time.

**Refresh Rate:** Measures the speed that the entire screen is rescanned. Higher frequencies reduce flicker.

Most monitors advertise the supported modes through the video connector. If this is the case, the adapter identifies the supported modes from the monitor. If the monitor does not advertise the supported modes, the adapter software chooses a set of common screen modes for the monitor.

The adapter supports resolution modes up to 3840 x 2160 @ 30p or 2560 x 1600 @ 60p.

**NOTE:** The resolutions and refresh rates available through Windows are a combination of the support from the following elements:

- The USB display adapter
- The primary monitor and the add-on monitor
- The primary video card on your computer and the installed drivers

Therefore, for example, if your monitor does not support a resolution of 3840 x 2160, then 3840 x 2160 is not possible even if you are using a USB display adapter with 3840 x 2160 support. This ensures that the monitor cannot be put into an unsupported mode, which might damage it.

If your are cloning the primary display, the video component tries to use the preferred monitor mode. In some cases, this may not be the most appropriate mode for the cloned desktop. It is recommended that the primary display resolution be changed to more closely match the default resolution of the add-on monitor.

To configure the three components of a screen mode (resolution, color depth, and refresh rate), follow these steps:

1. Position the mouse anywhere on your computer desktop, right-click, and select **Screen Resolution**.
2. In the **Display** drop-down menu, select the monitor connected to the adapter.
3. To change the screen resolution, select the option on the screen. Be sure to select one of the supported resolutions listed in the resolution table on the next page. For an add-on monitor, you can also select any resolution supported by that monitor.
4. To change the refresh rate or color quality, click the **Advanced** button, and then click the **Monitor** tab.
5. Select a refresh rate or color quality from the drop-down list, and then click **Apply**.
6. Click **OK** to close the settings screen.

# Using multiple adapters

Up to six adapters can be simultaneously attached to one computer. To use multiple adapters, follow these steps:

1. Install the driver as described in Installing the adapter on page 5, and connect the first adapter to your computer.
2. Then connect the second adapter to your computer. The system automatically completes the installation.

When multiple adapters are connected to a computer, each can be used in either extend or mirror mode.

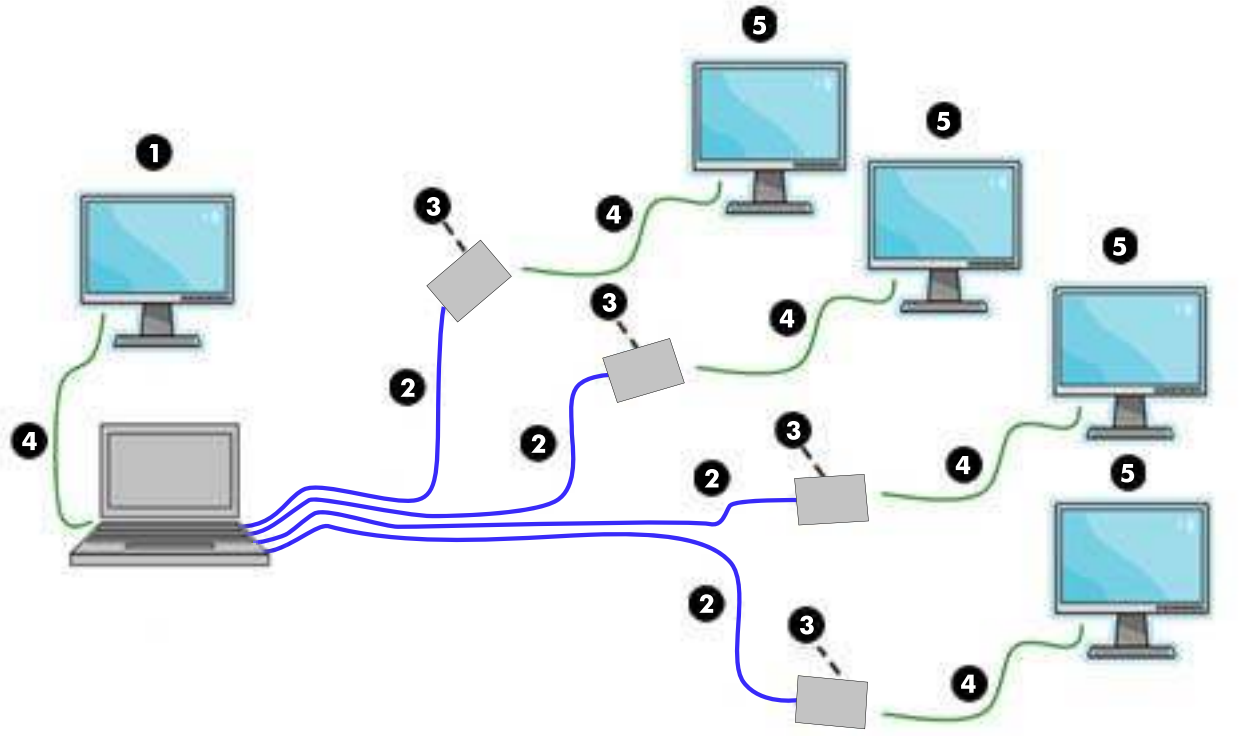


The following table shows the number of graphics adapters supported for the various resolutions, video applications, and text applications.

| Number of HP UHD USB Graphics Adapters | | | |
|---|---|---|---|
| **Resolution** | **Vertical** | **Video** | **Text*** |
| 3840 x 2160 | 30p | 1 | 2 |
| 2560 x 1600 | 60p | 2 | 4 |
| 2560 x 1440 | 60p | 2 | 4 |
| 1920 x 1200 | 60p | 4 | 6 |
| 1920 x 1080 | 60p | 4 | 6 |
| <1920 x 1080 | 60p | 6 Max | 6 Max |
| Text* – MS Word, Excel, PPT | | | |

You can connect up to six add-on monitors to one computer using a powered USB 3.0 or 2.0 hub and additional HP UHD USB Graphics Adapters as shown in the following diagram. The number of displays and maximum resolution will vary with content.

**NOTE:** Each additional monitor requires an additional HP UHD USB Graphics Adapter.



| | |
|---|---|
| (1) | Primary display |
| (2) | USB cables (attached to graphics adapters) |
| (3) | HP UHD USB Graphics Adapters |
| (4) | Video cables |
| (5) | Secondary displays |

# Sleep and hibernate, shut down and restart

When the adapter is connected to a computer and an add-on monitor, if the computer enters the Sleep or Hibernate state, the add-on monitor display goes blank.

When the computer returns to an active state, the add-on monitor display keeps the same settings it had before the computer went into the Sleep or Hibernate state. However, if the add-on monitor was set for extend mode, windows that were previously on the add-on monitor do not move back to that monitor. Also, if the add-on monitor is in extend mode and the computer requires a login after the Sleep or Hibernate state, the login screen appears on the primary computer monitor.

If the computer is shut down, restarted, and logged into, the add-on monitor returns to the mode it was in before shutdown.

# Disconnecting the adapter

If the adapter is unplugged from the computer, the add-on monitor goes blank. All windows and icons move to the primary screen.

If the adapter is reconnected, it returns to the mode it was in before disconnection. However, windows and icons that were previously on the screen are not moved back.

# Uninstalling the adapter and driver

If you want to uninstall the graphics adapter and its driver, follow these steps:

1. Open the **Control Panel**, and double-click **Programs and Features** or **Add or Remove Programs**.
2. Select **DisplayLink Core Software** or **HP USB Graphics**, and click **Uninstall** or **Remove**.
3. Click **Yes** to confirm the removal.
4. Click **Yes** to restart your computer, and then unplug the adapter.

# Automatic driver and software updates

The adapter includes an automatic update mechanism that ensures that the adapter has the most up-to-date drivers and software.

By default, the automatic update is configured to check for updated software when the adapter is plugged in, or at the resume or start of your computer every seven days. If newer software is available, the Updates Wizard opens. Follow the instructions in the wizard to complete the update.

You can also manually check for updates by clicking the **DisplayLink** icon in the notification area, at the far right of the taskbar, and then selecting **Check for Updates**. Updates are also available on the HP support Web site at http://www.hp.com/support.

**NOTE:** You can configure the frequency of checks for updates or turn off automatic updates by clicking the **DisplayLink** icon in the notification area, at the far right of the taskbar, and then selecting **Updates** > **Configure**.

# Audio configuration

The adapter can support two-channel audio. This section describes how to configure the audio settings. Although this information focuses on the HP UHD USB audio, it may also apply to other USB audio devices.

## Configuring USB audio on Windows 7, Windows 8, and Windows 10

### Setting USB audio as the default output

Open the audio settings by clicking the **DisplayLink** icon in the notification area, at the far right of the taskbar. Then select the **Audio Setup** option to open the Sound window.

To make the USB audio device the default audio output, follow these steps:

1. Click the USB audio device in the Sound window.

**NOTE:** The actual name of the device differs, depending on the product.

2. Select **Set Default** to make this the default audio output.

**NOTE:** It may be necessary to restart applications that use audio to use the new default audio output.

## Configuring the audio output

To configure the audio output to match your speaker setup, follow these steps:

1. Open the audio settings by clicking the **DisplayLink** icon in the notification area, at the far right of the taskbar. Then select the **Audio Setup** option to open the Sound window.
2. Select the USB Audio device.
3. Select **Configure** to open the audio configuration window.
4. Choose your audio configuration to match your speaker setup, and then click **Next**.
5. Customize your configuration, and then click **Next**.
6. Click **Finish**.

# 4 Support and troubleshooting

## Solving common problems

Minor issues can generally be resolved by using one or more of the following strategies:

- Unplug (wait for the computer to re-enumerate) and re-plug the HP UHD USB Graphics Adapter, change the display mode icon in the desktop tray, or change the display mode via Windows Screen Resolution.
- Upgrade to the latest graphics drivers for your primary graphics card.
- Upgrade to the latest HP UHD USB Graphics Adapter software.
- If necessary, boot into Safe Mode and use Windows Backup and Restore Center to recover.

The following table lists possible problems, the possible cause of each problem, and the recommended solutions.

| Problem | Possible Cause | Solution |
|---|---|---|
| The screen of the add-on monitor is blank. | The add-on monitor takes time before showing video or is in the Sleep or Hibernate state. | If the monitor power LED is green or white, wait a moment. Make sure the computer is not in the Sleep or Hibernate state. If the monitor is still blank, unplug the USB cable from the computer and then plug it back in, making sure the video signal cable between the computer and adapter is securely connected. |
| | The add-on monitor is not connected properly. | If the monitor power LED is red, unplug the USB cable from the computer and then plug it back into the computer. |
| The add-on monitor is flickering. | The monitor refresh rate is too low. | In mirror mode, increase the refresh rate of the primary monitor. This in turn increases the refresh rate of the add-on monitor.<br>In extend mode, increase the refresh rate of the add-on monitor. |
| The DisplayLink device connected to a USB 3.0 port on a computer with Windows 7 shows issues that are not present when connected to a USB 2.0 port. | USB 3.0 Host controllers on computers are relatively new, and the drivers may not be up to date. | Make sure your USB 3.0 host controller drivers are up to date. For links to the latest host controller drivers, see http://support.displaylink.com/knowledgebase/articles/544213. |
| When playing an MPEG file using Windows Media Player on the extended monitor, the display becomes abnormal when switching it to full screen mode. | Windows XP SP2 is not installed. | If your system is Windows XP SP1, upgrade it to SP2 to solve this problem. |
| When playing a movie in full-screen mode, the motion is not smooth. | The resolution is set too high or the monitor is not in the correct mode or other applications are using too much of the computer's resources. | Try the following tips to improve the smoothness of the movie playback:<br>• Reduce the resolution of the display to 640 x 480 or 800 x 600.<br>• Use the adapter in extend mode.<br>• Terminate any other CPU-intensive applications running on the computer. |

| Problem | Possible Cause | Solution |
| --- | --- | --- |
| | | If you still have issues playing media content on the adapter, try the following:<br>• Because some media players require DirectX hardware support to correctly operate, try a different media player which requires less DirectX support.<br>• Drag the media player to the add-on screen, and close the player. Restart the player. It should open on the add-on monitor. Now try playing the media file again.<br>• Try reducing the hardware acceleration level of the primary display (NOT the add-on monitor) to level 1, 2 or 3 and restarting the media player. The hardware acceleration can be found by right-clicking your desktop and clicking **Properties** > **Settings** > **Advanced** > **Troubleshoot**. Some players use this setting even when playing on a different display.<br>• The video playback may be unusual when the add-on monitor is mirroring the primary display and there is another extended screen connected to the computer. The extended screen must be disabled before the content will be correctly cloned to the add-on monitor. |
| In extend mode, the add-on monitor appears to have a black border around the desktop. | The resolution used by the add-on monitor is larger than the resolution used by the primary monitor. | Configure the add-on monitor to use the same resolution as the primary monitor. |
| Message “Insufficient system resources exist to complete the requested service” is displayed. | This can occur when entering extend mode with low system resources. | The computer does not have enough memory to start an extend display. Close down any unused applications. The situation may also be improved by rebooting the computer. |
| Message “The requested allocation size was too large” is displayed. | This can occur if trying to mirror a primary display larger than 4 megapixels. These are modes above 2300 x 1700 (4:3) or 2600 x 1500 (16:9). | Reset the resolution mode to a maximum of 1680 x 1050 or 1600 x 1200. |

# Product support

For additional information on using your device, go to http://www.hp.com/support. Select your country or region, select **Troubleshooting**, enter your model in the search window, and click the **Go** button.

**NOTE:** The latest user guide, reference material, and drivers are available at http://www.hp.com/support.

If the information provided in the guide does not address your questions, contact support. For U.S. support, go to http://www.hp.com/go/contactHP. For worldwide support, go to http://welcome.hp.com/country/us/en/wwcontact_us.html.

Here you can access the following support options:

- Chat online with an HP technician

  **NOTE:** When support chat is not available in a particular language, it is available in English.

- Find support telephone numbers
- Locate an HP service center

# Preparing to call support

If you cannot solve a problem using the troubleshooting tips in this section, you may need to call technical support. Have the following available when you call:

- The graphics adapter
- HP model numbers
- HP serial numbers
- Purchase date on graphics adapter invoice
- Conditions under which the problem occurred
- Error messages received
- Hardware configuration
- Name and version of the hardware and software you are using

# A Technical specifications

**NOTE:** All performance specifications are provided by the component manufacturers. Performance specifications represent the highest specification of all HP's component manufacturers' typical level specifications for performance. Actual performance may vary.

## HP UHD USB Graphics Adapter

| | | |
|---|---|---|
| **Host interface** | USB 3.0 / USB 2.0 Type A or C | |
| **Video interface** | DisplayPort | |
| **Connectors** | **Video output:** DisplayPort Female Connector<br>**Host upstream link:** USB 3.0 Type A Female Connector | |
| **Connectivity** | Up to 6 adapters on a computer | |
| **RAM** | 8M x 16 DDR Synchronous DRAM (SDRAM) | |
| **Power mode** | Bus-powered | |
| **Operation system support** | Windows 7, Windows 8, Windows 8.1, Windows 10 (32-bit and 64-bit) | |
| **Supported modes** | Extend (Default), Mirror, Primary Display | |
| **Resolutions, refresh rate, and color depth** | Refer to Adjusting resolution, color depth, and refresh rate on page 9 | |
| **Housing** | Plastic | |
| **Dimensions (without cable)** | **74.5 mm** (L) x **39.8 mm** (W) x **14 mm** (H) | 2.93 inches (L) x 1.6 inches (W) x 0.6 inches (H) |
| **USB cable** | • Attached to the body<br>• Type: USB 3.0 A -Type Male<br>• Color: Black<br>• Length: **0.7M** (2.296 ft) | |
| **Operating temperature** | **10°C** to **40°C** | 50°F to 104°F |
| **Storage temperature** | **-10°C** to **80°C** | 14°F to 176°F |
| **Relative humidity** | < 85% non-condensing | |
| **EMC** | • FCC Part 15 Class B, IC ICES-003<br>• CE (EN55022, EN61000, EN55024) | |
| **RoHS** | RoHS compliant | |

# B Accessibility

HP designs, produces, and markets products and services that can be used by everyone, including people with disabilities, either on a stand-alone basis or with appropriate assistive devices.

## Supported assistive technologies

HP products support a wide variety of operating system assistive technologies and can be configured to work with additional assistive technologies. Use the Search feature on your source device that is connected to the adapter to locate more information about assistive features.

**NOTE:** For additional information about a particular assistive technology product, contact customer support for that product.

## Contacting support

We are constantly refining the accessibility of our products and services and welcome feedback from users. If you have an issue with a product or would like to tell us about accessibility features that have helped you, please contact us at (888) 259-5707, Monday through Friday, 6 a.m. to 9 p.m. North American Mountain Time. If you are deaf or hard-of-hearing and use TRS/VRS/WebCapTel, contact us if you require technical support or have accessibility questions by calling (877) 656-7058, Monday through Friday, 6 a.m. to 9 p.m. North American Mountain Time.

**NOTE:** Support is in English only.