

USB to DVI Graphics Adapter / Converter

USB2DVIE



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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

Thank you for purchasing a StarTech.com USB to DVI Graphics Adapter / Converter. The perfect solution for turning an available USB 2.0 port into a DVI-I (digital or analog supported) connection, USB2DVIE provides a high quality, multi-display capabilities that can be used in a variety of settings in notebook or desktop applications.

Capable of running up to five additional displays with multiple USB2DVIE adapters from one source simultaneously, the USB2DVIE USB to DVI Graphics Adapter / Converter is easy to install and perfect for adding multiple displays to maximize your display capability in any multimedia environment.

Features

- No power adapter required
- Simple installation
- Supports resolutions up to 1600x1200 and 1680x1050 (for widescreen / format displays) @ 32 bits

Package Contents

- 1 x USB to DVI Adapter
- 1 x Instruction Manual
- 1 x Driver CD
- 1 x DVI-A to VGA Adapter
- 1 x USB 2.0 cable

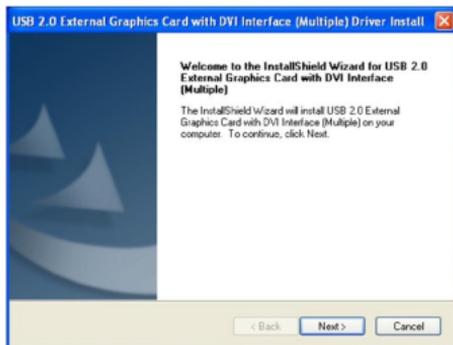
Installation

Please note: The following installation steps must be completed prior to connecting USB2DVIE to a host computer, to ensure proper functionality.

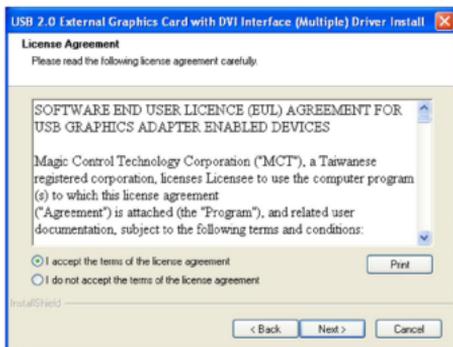
Windows XP

1. Insert the Driver CD into the CD/DVD-ROM drive; the setup program should launch automatically. If the setup program does not begin automatically, click on the **Start** button, then on **Run**.

When the **Run** command line appears, click on **Browse** and select the **Setup.exe** file (D:\setup.exe, where D:\ refers to the CD/DVD-ROM drive).



2. When the Driver Installation Wizard appears, click **Next** to continue.



- When the License Agreement appears, please read it and select **I accept the terms of the license agreement**, then click **Next**.
- Connect the external display device (monitor/projector) to the DVI port provided by USB2DVIE, then turn on the display.
- If you wish to install multiple USB2DVIE adapters (up to 5), please skip to the section titled **Multiple USB2DVIE Adapter Installation**, otherwise click on **Finish**; to conclude installation, please select **Yes, I want to restart my computer now**, and click **Finish** again.



Once the computer has rebooted, the extended display will be shown on the secondary display.

Multiple USB2DVIE Adapter Installation

Once steps #1-5 have been completed:

- Select **No, I will restart my computer later** and click **Finish** to continue on to the installation of the next USB2DVIE unit.
- Connect another display device to the DVI connector of the second USB2DVIE Adapter, then turn on the display.
- Connect the USB 2.0 connector provided by the second USB2DVIE adapter to a second available USB 2.0 port on the host computer. The driver installation will begin automatically.

Follow steps a - c for each additional USB2DVIE adapter you wish to install. Once all USB2DVIE adapters are installed, reboot the computer. After rebooting, you may be prompted to reboot once more; please do so.

Windows Vista™

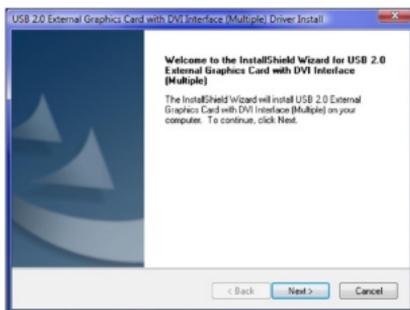
Please note: The following installation steps must be completed before connecting USB2DVIE to the computer, to ensure proper functionality.

NOTE: The Aero desktop theme is not supported by this adapter, so should be disabled prior to use of the USB Video Adapter.

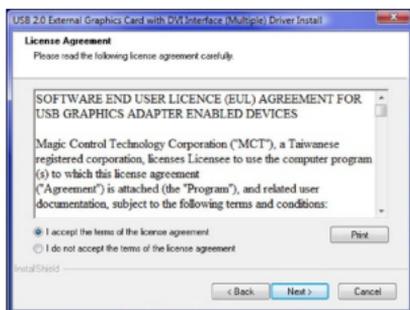
1. Insert the Driver CD into the CD/DVD-ROM drive; the setup program should launch automatically. If the setup program does not begin automatically, click on the **Start** button, then on **Run**.

When the **Run** command line appears, click on **Browse** and select the **Setup.exe** file (D:\setup.exe, where D:\ refers to the CD/DVD-ROM drive).

2. The Driver Installation Wizard window will appear. Click **Next** to continue.



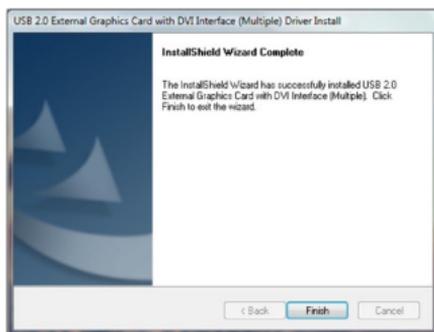
3. When the License Agreement appears, please read it and select **accept the terms of the license agreement**, then click **Next**.



4. When the Windows Security warning dialogue box appears, please select Always trust software from “Magic Control Technology Corp.”, then click on **Install** to continue.



5. Connect the external display device (monitor/projector) to the DVI connector of the USB2DVIE Adapter and power on the display.
6. Click **Finish** to exit the Driver Wizard, then connect the USB2DVIE Adapter to an available USB 2.0 port of your PC or Notebook.



7. To install multiple USB2DVIE adapters (up to 5), skip to the following section, titled **Multiple USB2DVIE Adapter Installation**, otherwise, select **Yes, I want to restart my computer now** and click **Finish** again.



Multiple USB2DVIE Adapter Installation

Once the first installation steps (1-6) have been completed,

- Select **No, I will restart my computer later** and click **Finish** to continue on to the installation of the next USB2DVIE unit.
- Connect another display device to the DVI connector of the second USB2DVIE Adapter, then turn on the display.
- Connect the USB 2.0 connector provided by the second USB2DVIE adapter to a second available USB 2.0 port on the host computer. The driver installation will begin automatically.

Follow steps a - c for each additional USB2DVIE adapter you wish to install. Once all USB2DVIE adapters are installed, reboot the computer. After rebooting, you may be prompted to reboot once more; please do so.

Verifying Device Driver Installation

To verify that driver installation was successful:

- Right-click on **My Computer**, and select **Properties**. Click on the Hardware tab, then click on the **Device Manager** button.

Click on the plus sign (+) next to **Display adapters** and **Universal Serial Bus controllers**. For one installed adapter, USB Graphics Device will appear once under the Display Adapters as (Extend) and once for (Mirror); similarly, the USB 2.0 Graphics Device will appear under the Universal Serial Bus Controllers (once).

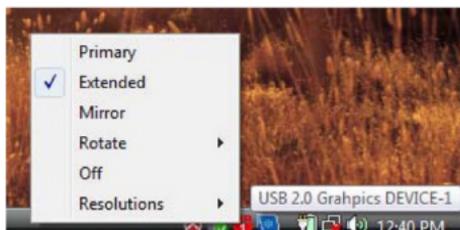


USB2DVIE Operation

The USB2DVIE Adapter can support LCD or CRT monitors and offers four distinct modes of operation: Primary, Extended, Mirror and Rotate, which can be selected by clicking on the “UD” icon in the taskbar.

Primary Mode

Selecting Primary mode will set the secondary display adapter as the main display adapter in the system.



The system's primary adapter (and monitor) will automatically switch to act as the extended desktop.

Please Note: Some display utilities and drivers that ship with AGP and built-in display adapters will prevent this option from working on some systems. For the USB-VGA (Primary) setting to take effect, you must first disable the original display utility (typically located in the system tray).

Extend Mode (Default)

This mode extends the image shown on the primary display onto the secondary display.

You can change the relative position of this extension under the Display Properties (Go to Control Panel -> double click on **Display** and select the **Settings** tab).

Mirror Mode

This setting will mirror the image from your original desktop onto the secondary desktop.

The screen resolution setting on the secondary monitor will follow the primary screen's resolution. For example, if the primary resolution is 1024x768 @32bit, the secondary monitor's resolution will be the same. But, if the selected resolution setting is not supported by the primary screen, a warning dialogue box will be displayed and the suggested

screen resolution will be shown.

Rotate Mode

This feature enables the user to rotate the secondary display image by 0° (default), 90°, 180° or 270°.

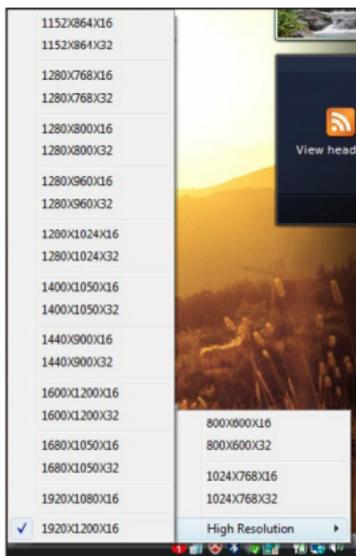
Off Mode

This option disables the USB2DVIE Adapter on the system.

Setting the Resolution

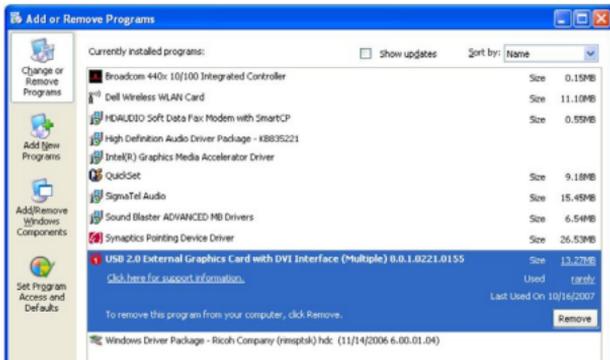
Similar to the operating modes offered, the display resolution can be configured from the **UD** icon in the taskbar. Alternatively, the display resolution can be modified from the **Display Properties** feature (right-click on the desktop, select **Properties** then **Settings**).

A list of supported resolutions is available in the **Technical Specifications** section.

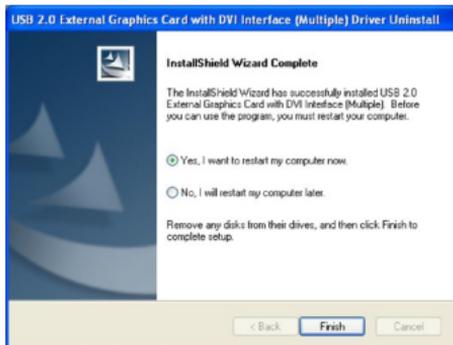


Uninstalling the USB2DVIE

1. Disconnect the USB2DVIE unit(s) from the computer.
2. Click on the **Start** button and select **Control Panel**. Double-click on the **Add or Remove Programs** icon.
3. Click to highlight “USB 2.0 External Graphics Card with DVI Interface (Multiple)”, then click on the **Remove** button.



4. Select “Yes, I want to restart my computer now” then click **Finish** to reboot the computer.



FAQs/Troubleshooting

Q: Why can't I make the USB2DVIE Adapter the primary display?

A: Some video cards are shipped with a utility that prevents other video cards from being set as the primary adapter. Check the bottom right hand corner of the taskbar for the video card graphics utility and disable the utility before switching the USB2DVIE to be the primary display.

Q: Why won't my DVD player work when I move it over to the extended display?

A: Some DVD playback software packages do not support playing on a second display adapter of any kind. You may try to open the program in the secondary display first before playing the DVD.

Q: How come my video will not play on Media Player if I move it over to the extended desktop?

A: Check that you have moved the Media Player window completely over to the second screen.

Q: Why does my mouse not move past the right side of the screen, when it should be on the extended desktop?

A: Check the display settings and make sure that your display number '2' is on the right side of display number '1'. You can rearrange how Windows treats each display in relation to one another in the Display Properties Settings.

Q: There are lines running horizontally up and down my screen.

A: This is due to a low refresh rate setting. You can change this in the Display Properties Settings Advanced Monitor. Make sure you select the USB2DVIE adapter first, and ensure the refresh rate is not set to exceed the capability of the display.

This may damage your monitor. You can also try to reset/refresh/resynchronize your monitor.

Q: Direct3D does not work?

A: This is a current limitation of the adapter. Please check for driver updates in the future for additional support, on <http://www.startech.com>.

Specifications

Supported Resolutions

| Resolution | VGA | DVI | Refresh Rate |
|-------------------|----------------|----------------|---------------------|
| 1920 x 1200 | 16 bit | N/A | 60Hz |
| 1920 x 1080 | 16 bit | N/A | 60Hz |
| 1680 x 1050 | 16 bit, 32 bit | 16 bit, 32 bit | 60Hz |
| 1600 x 1200 | 16 bit, 32 bit | 16 bit, 32 bit | 60Hz |
| 1440 x 900 | 16 bit, 32 bit | 16 bit, 32 bit | 60Hz |
| 1360 x 768 | 16 bit, 32 bit | 16 bit, 32 bit | 60Hz |
| 1280 x 1024 | 16 bit, 32 bit | 16 bit, 32 bit | 60Hz |
| 1280 x 960 | 16 bit, 32 bit | 16 bit, 32 bit | 60Hz |
| 1280 x 800 | 16 bit, 32 bit | 16 bit, 32 bit | 60Hz |
| 1280 x 768 | 16 bit, 32 bit | 16 bit, 32 bit | 60Hz |
| 1280 x 720 | 16 bit, 32 bit | 16 bit, 32 bit | 60Hz |
| 1152 x 864 | 16 bit, 32 bit | 16 bit, 32 bit | 60Hz |
| 1024 x 768 | 16 bit, 32 bit | 16 bit, 32 bit | 60Hz |
| 800 x 600 | 16 bit, 32 bit | 16 bit, 32 bit | 60Hz |

General Specifications

| | |
|----------------------------|--|
| Built-in Memory | 16MB RAM |
| Maximum Displays | Connect up to five adapters on one PC |
| OS Support | Windows 2000/XP/Vista (32/64-bit) |
| Video Signal | DVI-D and DVI-A (digital and analog) |
| System Requirements | 1.2Ghz or higher CPU; 512MB RAM (or higher) An available USB 2.0 Port; 30MB of hard drive space 800x600 or higher resolution capable monitor |
| Connector Types | 1 X DVI-I Single Link Female 1 X USB Mini B 5 pin Female |

Technical Support

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