

## Slim USB 3.0 to HDMI® External Video Card Slim USB 3.0 to VGA External Video Card

USB32HDES

USB32VGAES



actual product may vary from photos



Please ensure that the latest drivers from the StarTech.com website are installed before plugging in the USB 3.0 Video Adapter

DE: Bedienungsanleitung - [de.startech.com](http://de.startech.com)

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Manual Revision: 04/07/2015

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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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# Table of Contents

<b>Introduction</b> .....	<b>1</b>
Packaging Contents .....	1
System Requirements.....	1
<b>Installation</b> .....	<b>2</b>
Driver Installation Windows .....	2
Multiple USB Video Adapter Installation .....	3
Verifying Installation .....	3
<b>Supported Resolutions</b> .....	<b>4</b>
<b>Configuring the USB Video Adapter</b> .....	<b>5</b>
Windows.....	5
Identify Monitors.....	5
Multi-Display Control Panel.....	6
Display Settings .....	6
<b>Specifications</b> .....	<b>7</b>
<b>Technical Support</b> .....	<b>9</b>
<b>Warranty Information</b> .....	<b>9</b>

# Introduction

## Packaging Contents

- 1 x Slim USB 3.0 Video Adapter
- 1 x Driver CD
- 1 x Instruction Manual

## System Requirements

- (USB32HDES) HDMI enabled display device (e.g. monitor, projector, HTDV, etc)  
**Or**  
(USB2VGAES) VGA enabled display device (e.g. monitor, projector, HTDV, etc)
- (USB32HDES) HDMI male to male video cable  
**Or**  
(USB2VGAES) VGA male to male video cable
- USB enabled computer system with:
  - Microsoft Windows® 8/8.1 (32/64-bit) 7 (32/64-bit) Vista (32/64 bit)

**Operating systems are subject to change. For the latest requirements, please**

**visit:** [www.startech.com/USB32VGAES](http://www.startech.com/USB32VGAES)  
[www.startech.com/USB332HDES](http://www.startech.com/USB332HDES)

Available USB port (USB 3.0 recommended)

### **Recommend Specifications for 1~2 Video Adapters:**

- CPU: Intel® Core™ i3 2.8 GHz or equivalent (i5 recommended for HD video)
- RAM: 2 GB or more (4 GB recommended for HD video)

### **Recommend Specifications for 3~4 Video Adapters:**

- CPU: Intel® Core™ i5 Quad Core 2.8 GHz or equivalent
- RAM: 4 GB or more

### **Recommend Specifications for 5 Video Adapters:**

- CPU: Intel® Core™ i7 Quad Core 3.0 GHz or equivalent**
- RAM: 8 GB or more**

# Installation

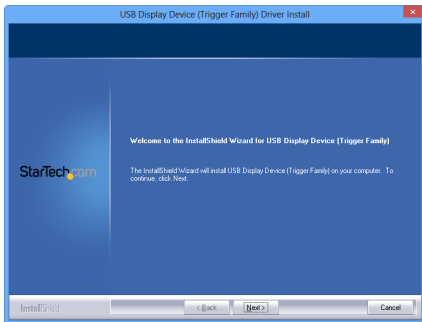


Please ensure that the driver installation is complete prior to the physical installation (plugging in) of the USB 3.0 Video Adapter

## Driver Installation Windows

1. Download the latest drivers from the StarTech.com website (recommended), or insert the included Driver CD into your CD/DVD-ROM drive.
2. Locate the Setup.exe application. This file will be located in the root directory of the Driver CD (e.g. D:\) or downloaded file.

3. Executing the Setup.exe application will launch the following screen. Please click on Next:  
**\*Ensure that the USB Video Adapter is not connected to the host computer.**



4. Once the Windows has finished the driver installation, it will prompt you to restart the computer. Select "Yes, I want to restart my computer now", and click the "Finish" button.
5. While the computer is restarting, connect the video cable from the secondary monitor/display to the adapter, and turn the monitor/display on.
6. Once Windows has fully loaded, plug the USB Video Adapter into an available USB 3.0 port of your PC or Notebook.
7. Windows will automatically install the drivers. Once installation is completed your USB display will activate.

# Multiple USB Video Adapter Installation

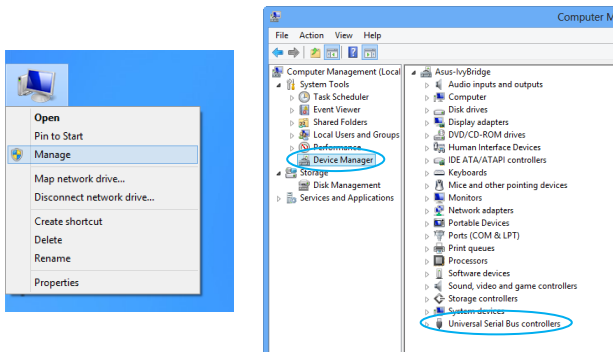
Ensure you have the latest version of the drivers installed, otherwise, please download them from the StarTech.com website ([www.startech.com](http://www.startech.com)).

1. Complete the standard driver installation steps, up to when you plug in the first USB Video Adapter.
2. Connect another monitor/display to the second USB Video Adapter, then turn on the display.
3. Connect the USB type A connector on the second USB Video Adapter to an available USB 3.0 port on the host computer. The driver installation will begin automatically.

Repeat these steps for each additional USB Video Adapter you wish to install. Once all USB Video Adapters are installed, reboot the computer. After rebooting, you may be prompted to reboot one final time; please do so.

## Verifying Installation

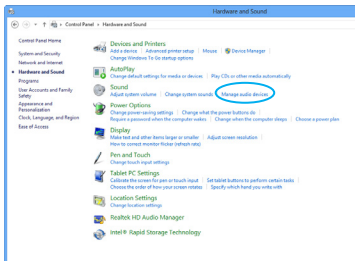
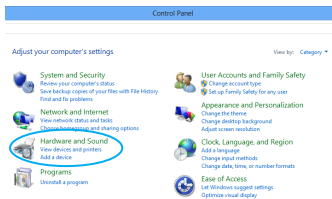
From the main desktop, right click on "computer" or "My Computer", then select Manage. In the new Computer Management window, select Device Manager from the left window panel.



Double-click the Universal Serial Bus Controllers category and the USB adapter should be visible.

**USB32HDES:** An audio device will also be listed under the “Sound, video and game controllers” category in Device Manager. As Windows will only support one audio output at a time, this will override the default sound card on the computer (if any), resulting in no audio from the computer speakers. Audio will only output over HDMI.

If you wish audio to output from the computer speakers instead of HDMI, then you must manually change the default audio device from the “Hardware and Sound” settings in the Control Panel.



## Supported Resolutions

Resolution	Color Depth
1920 x 1200 @ 60Hz	16, 32 bit
1920 x 1080 @ 60Hz	16, 32 bit
1680 x 1050 @ 60Hz	16, 32 bit
1600 x 900 @ 60Hz	16, 32 bit
1440 x 900 @ 60Hz	16, 32 bit
1360 x 768 @ 60Hz	16, 32 bit
1280 x 800 @ 60Hz	16, 32 bit
1280 x 768 @ 60Hz	16, 32 bit
1280 x 720 @ 60Hz	16, 32 bit

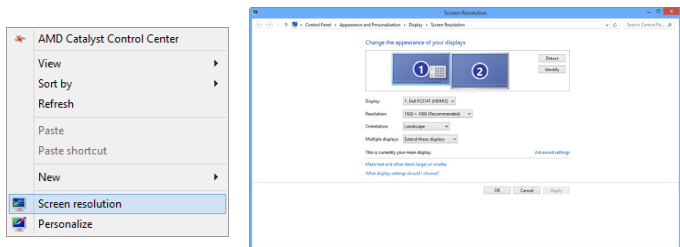
Resolution	Color Depth
1600 x 1200 @ 60Hz	16, 32 bit
1400 x 1050 @ 60Hz	16, 32 bit
1280 x 1024 @ 60Hz	16, 32 bit
1280 x 960 @ 60Hz	16, 32 bit
1152 x 864 @ 60Hz	16, 32 bit
1024 x 768 @ 60Hz	16, 32 bit
800 x 600 @ 60Hz	16, 32 bit

# Configuring the USB Video Adapter

Look for the USB Video Adapter icon (  ) on your Windows System Tray (next to clock). Right-click this icon to access the variety of functions associated to the adapter.

## Windows

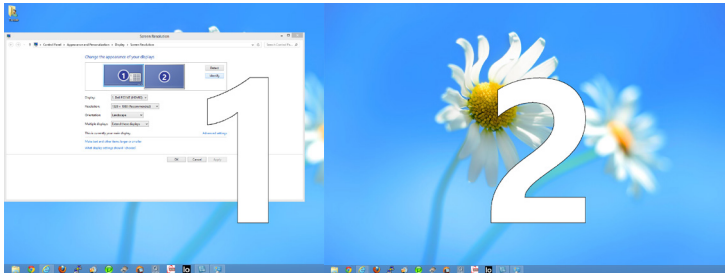
The USB Video Adapter drivers allow for all adjustments through the built-in Display Settings window. These settings can be accessed by right-clicking on the Windows Desktop and selecting "Screen Resolution" or by right-clicking on the USB Video Adapter icon in the system tray and selecting "Display Settings".



Select the physical display you wish to change the settings on, from the "Display" drop down menu. Display Modes, resolution and rotation can be changed from this screen.

## Identify Monitors

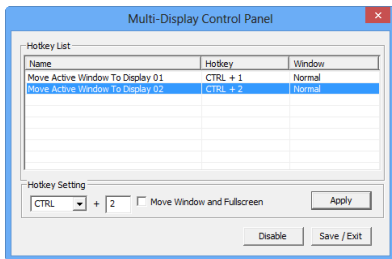
Easy display identification via an overlay will be shown on all attached display devices.





# Multi-Display Control Panel

A unique feature to allow quicker and simpler management of a multi-display environment. A series of hotkeys to quickly move the active program window to the desired display (either on-board or each USB Video Adapter).

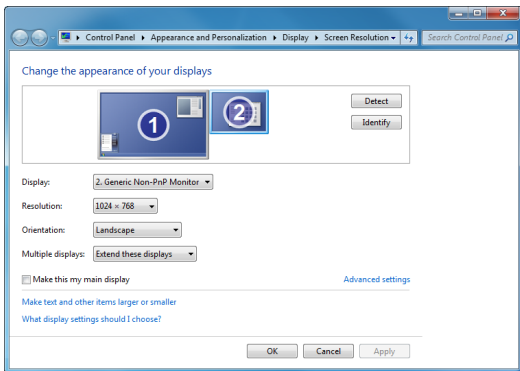


The default setting of the hotkeys can be found in the Hotkey List of “Multi-Display Control Panel”.

**For example:** Ctrl + 2 means: to move the window to Display 2

## Display Settings

Quick access to the Windows “Display Settings” window.



# Specifications

	USB32HDE	USB32VGAE
<b>Video Signal</b>	HDMI 1.2	VGA (RGBHV)
<b>Host Interface</b>	USB 3.0	
<b>Connectors</b>	1 x HDMI female 1 x USB 3.0 type A male	1 x DE-15 VGA female 1 x USB 3.0 type A male
<b>Audio Support</b>	2-channel LPCM (48KHz)	No
<b>Maximum Video Resolution</b>	1920 x 1200	2048 x 1152
<b>Onboard Memory</b>	16MB	
<b>Maximum Number of Adapters</b>	5	
<b>Operating Temperature</b>	0°C ~ 55°C (32°F ~ 131°F)	
<b>Storage Temperature</b>	-10°C ~ 75°C (14°F ~ 167°F)	
<b>Humidity</b>	< 85% RH (non-condensing)	
<b>Enclosure Material</b>	Plastic	
<b>Built-in Cable Length</b>	160.0mm	
<b>Dimensions (LxWxH)</b>	78.0mm x 43.5mm x 15.5mm	
<b>Weight</b>	300g	
<b>Compatible Operating Systems</b>	Windows 8 / 8.1 (32 & 64) / 7 (32 & 64) / Vista (32 & 64)	



# Technical Support

StarTech.com's lifetime technical support is an integral part of our commitment to provide industry-leading solutions. If you ever need help with your product, visit [www.startech.com/support](http://www.startech.com/support) and access our comprehensive selection of online tools, documentation, and downloads.

For the latest drivers/software, please visit [www.startech.com/downloads](http://www.startech.com/downloads)

## Warranty Information

This product is backed by a two year warranty.

In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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