USB DISPLAY ADAPTER

USER MANUAL

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INTRODUCTION

Thank you for purchased the **USB DISPLAY ADAPTER**. The **USB DISPLAY ADAPTER** enables you to connect the display devices (CRT/LCD monitor, projector) to your desktop or notebook PC. The connected display can act as mirrored or extended desktop of the main display on your PC. The flexibility of the common USB 2.0 technology saves the need to open the computer or struggling with compatibility issues related to the VGA card.

FEATURES

- USB 2.0 compliant
- Support display resolution up to VGA : 1600 x 1200 / DVI : 1680 x1050
- Plug-and-Play USB connectivity
- Support Multi-Display extension of one computer system
- Support Function
 - Display Modes: Primary, Extended, Mirror
 - Display Rotation: 0° , 90° , 180° , 270°
- Friendly software targeted to ease your daily USB Display experience
 - Identify Monitors
 - Multi-Display Control Panel
 - Shortcut to access Windows Display Setting dialog

SYSTEM REQUIREMENTS

- Available USB 2.0 port
- Minimum Requirement to use one (1) USB Display Adapter:
 - CPU: Intel/AMD Single Core 1.2 GHz or higher processor
 - RAM: 512MB memory or higher
- 2~3 Displays: (additional USB display adapters)
 - CPU: Intel/AMD Single Core 1.6 GHz or higher processor
 - RAM: 1GB memory or higher
- 4~6 Displays: (additional USB display adapters)
 - CPU: Intel/AMD Dual Core 1.8 GHz or higher processor
 - RAM: 1GB memory or higher
- Windows 2000 SP4 & Windows XP / Vista / 7 (32-bit or 64-bit)

PACKAGE CONTENTS

- USB DISPLAY ADAPTER
- CD (User Manual, Driver and Utility)
- Quick Installation Guide

SUPPORTED COMMON DISPLAY RESOLUTION:

Resolution	USB-VGA	USB-DVI	Refresh Rate Frequency
800 * 600	16bit, 32bit	16bit, 32bit	60Hz,75Hz
1024 *768	16bit, 32bit	16bit, 32bit	60Hz,75Hz
1152 * 864	16bit, 32bit	16bit, 32bit	60Hz
1280 * 720	16bit, 32bit	16bit, 32bit	60Hz
1280 * 768	16bit, 32bit	16bit, 32bit	60Hz
1280 * 800	16bit, 32bit	16bit, 32bit	60Hz
1280* 960	16bit, 32bit	16bit, 32bit	60Hz
1280 * 1024	16bit, 32bit	16bit, 32bit	60Hz
1360 * 768	16bit, 32bit	16bit, 32bit	60Hz
1400 * 1050	16bit, 32bit	16bit, 32bit	60Hz
1440 * 900	16bit, 32bit	16bit, 32bit	60Hz
1600 * 900	16bit, 32bit	16bit, 32bit	60Hz
1680 * 1050	16bit, 32bit	16bit, 32bit	60Hz
1600 * 1200	16bit, 32bit		60Hz

TECHNICAL SPECIFICATIONS:

Operating System	Windows 2000 SP4/XP/Vista/7 Compatible
Video Output Connector	D-Sub 15pin (female) – Model: USB-VGA
Video Output Connector	DVI-I – Model: USB-DVI
Case Material	ABS
Power Source	Bus Powered

INSTALLATION ON WINDOWS 2000 / XP /VISTA

DEVICE DRIVER INSTALLATION

Installing the device driver enables your computer's operating system to recognize the **USB DISPLAY ADAPTER** once it's connected. Please check your operating system and refer to the appropriate installation procedure to begin installing the device driver.

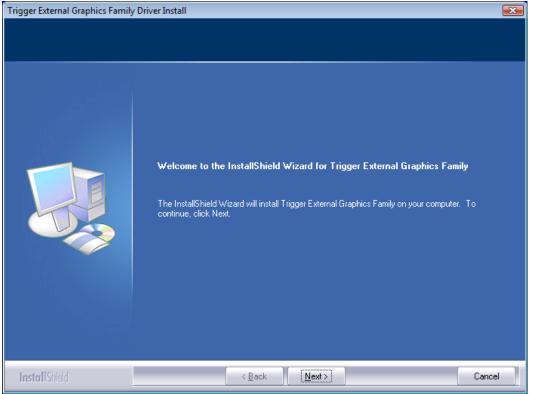
This section illustrates the simple device driver installation procedure for computer running Windows XP operating system. Please make sure the **USB DISPLAY ADAPTER** is **unplugged** from your PC or Notebook before executing the setup program.

Step 1.

Insert the Driver CD into the CD-ROM drive; the setup program should be launched automatically. If setup program does not begin automatically, click Start, Run and double click "**D**:\Setup.exe" (where D: is the path of your CD-ROM drive).

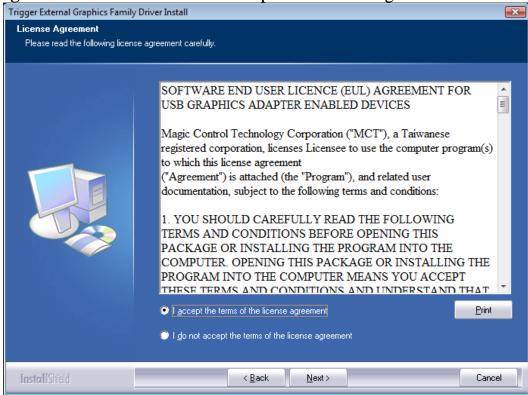
Step 2.

Driver Installation Wizard, click "Next" to continue.



Step 3.

License Agreement; please read it and select **"I accept the terms of the license agreement**." Click **"Next**" to accept the License Agreement.



Step 4.

Setup is searching for installed features.....

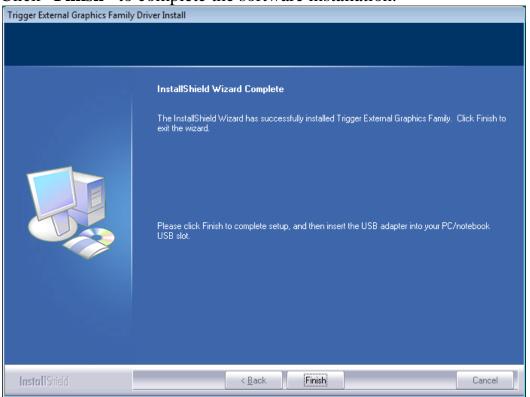


Setup is searching for installed features...

XYou may notice the screen flashes during hardware installation. It is part of the normal process.

X When the Microsoft Windows Security warning dialogue box appears, please select *"Continue Anyway"* to continue with the installation. This will not affect the device driver installation and the device usage.

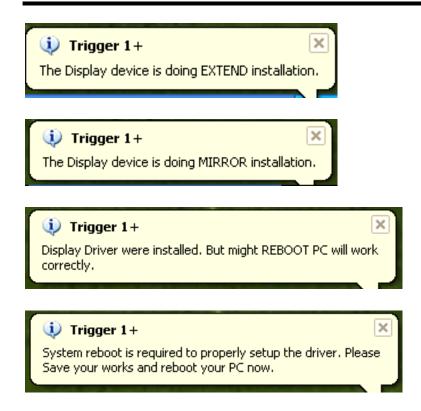
Step 5. Click "Finish" to complete the software installation.



Step 6. HARDWARE DEVICE DRIVER INSTALLATION

- 1. Please connected the external display device (monitor/projector) to the VGA/DVI connector of USB Display Adapter and switch it on.
- Then, insert the USB Display Adapter into an available USB port of your computer. The device driver will be configured automatically, and you may see below notification balloons. And, the extended display will be shown on the attached display device, and have two icons on the lower right taskbar.





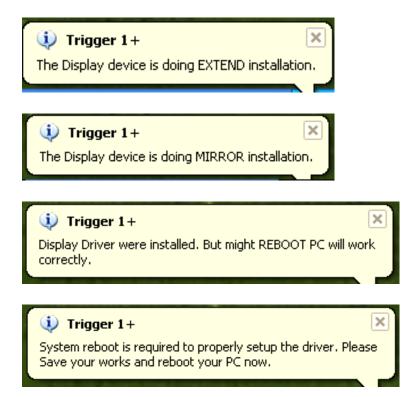
When the Hardware Installation Wizard dialog appears, please select "No, not this time" and click "Next" to continue. Click "Continue Anyway" when the Microsoft Software warning dialogue box appears. Then, click "Finish" to complete the Hardware Wizard.

3. To make sure the USB Display Adapter worked correctly, please reboot the computer. After reboot the computer, the device is now installed completely and ready to use.

Step 7. INSTALLATION OF MULTIPLE USB DISPLAY ADAPTERS

Please plug the additional **USB DISPLAY ADAPTERS** into the available USB 2.0 port of your PC or Notebook. The setup process will begin automatically. You may see below notification balloons for each additional.

Found New Hardware USBVGA
Found New Hardware USB Display Device (T1P)
 Found New Hardware Your new hardware is installed and ready to use.



To make sure the USB Display Adapters worked correctly, please reboot the computer after finished the installation. After reboot the computer, the USB extended display will be shown on the attached display device. The USB DISPLAY ADAPTER is ready to use now.

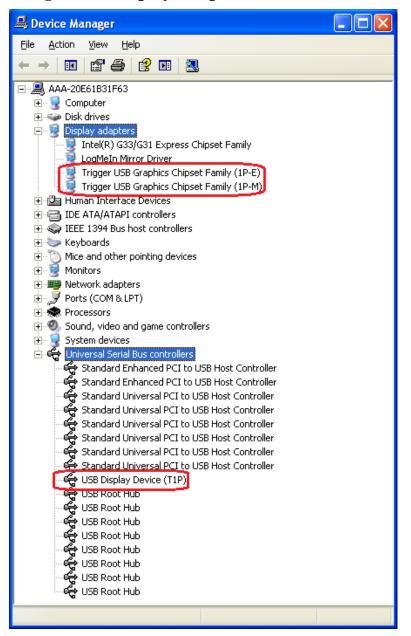
VERIFYING DEVICE DRIVER INSTALLATION

The following procedure allows you to verify the device driver installation.

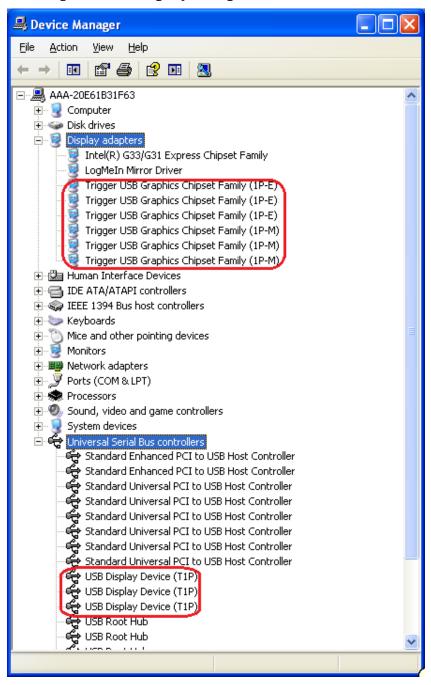
Please right click "My Computer" \rightarrow "Properties" \rightarrow "Hardware" \rightarrow "Device Manager".

Plug-in the **USB DISPLAY ADAPTER**, then double click "**Display adapters**", and "**Universal Serial Bus controllers**". Begin verification by making sure highlighted devices were added to the system.

•Single USB Display Adapter installation on the computer



•Multiple USB Display Adapters installation on the computer



DEVICE DRIVER UN-INSTALLATION

Step 1. Click "Start" → "Control Panel" → "Add or Remove Programs"

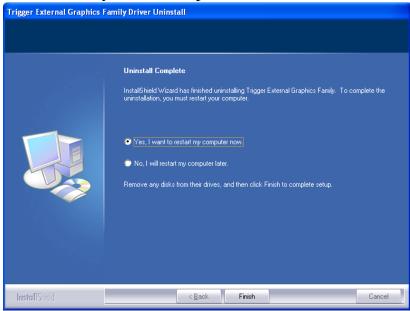
Select "For Trigger External Graphics Family 12.xx.xxx.0179" (driver version). Click "Uninstall" button.



Step 2. Unplug the USB DISPLAY ADAPTER and click "OK" to continue.



Step 3. Select "**Yes, I want to restart my computer now**" and click "**Finish**" to reboot. After reboot, you will complete the driver un-installation.



INSTALLATION ON WINDOWS 7

DEVICE DRIVER INSTALLATION

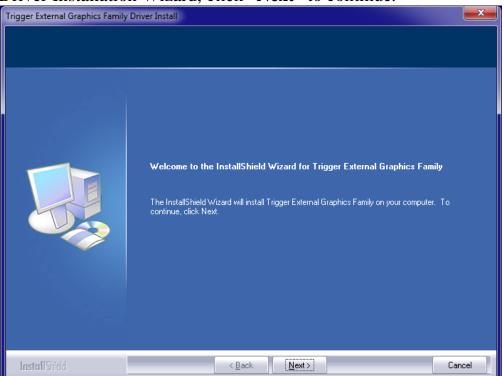
Installing the device driver enables your computer's operating system to recognize the **USB DISPLAY ADAPTER** once it's connected. Please check your operating system and refer to the appropriate installation procedure to begin installing the device driver.

This section illustrates the simple device driver installation procedure for computer running Windows 7 operating system. Please make sure the **USB DISPLAY ADAPTER** is **unplugged** from your PC or Notebook before executing the setup program.

Step 1.

Insert the Driver CD into the CD-ROM drive; the setup program should be launched automatically. If setup program does not begin automatically, click Start, Run and double click "**D**:\Setup.exe" (where D: is the path of your CD-ROM drive).

Step 2.



Driver Installation Wizard, click "Next" to continue.

Step 3.

License Agreement; please review it and check "I accept the terms of the license agreement." Click "Next" to accept the License Agreement.



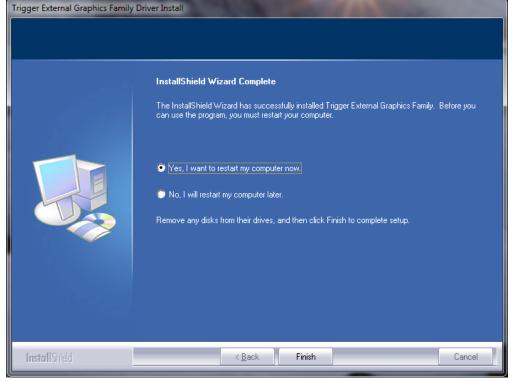
Step 4.

Setup is searching for installed features.....



*You may notice there a screen flashes during hardware installation. It is part of the normal process.

Step 5. Select "Yes, I want to restart my computer now", and click "Finish" to reboot.



Step 6. HARDWARE DEVICE DRIVER INSTALLATION

After reboot, please connect the external display device (monitor/projector) to the VGA/HDMI connector of USB DISPLAY ADAPTER and turn on the display device.

Then plug the **USB DISPLAY ADAPTER** into an available USB 2.0 port of your PC or Notebook. The device driver software setup will begin automatically.

After the driver is configured, you also could click "Show hidden icon" and will see the "Super Utility" 😰 icon on taskbar.

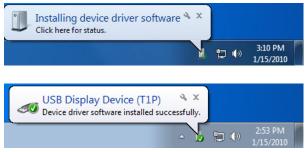
The extended display will be shown on the attached display device. You may begin to use the USB Display Adapter with your display device.



Step 7. INSTALLATION OF MULTIPLE USB DISPLAY ADAPTERS Please plug the additional **USB DISPLAY ADAPTER** into the available USB 2.0 port of your PC or Notebook.

The system will automatically start the installation procedure and the prompt message will pop-up on the task bar.

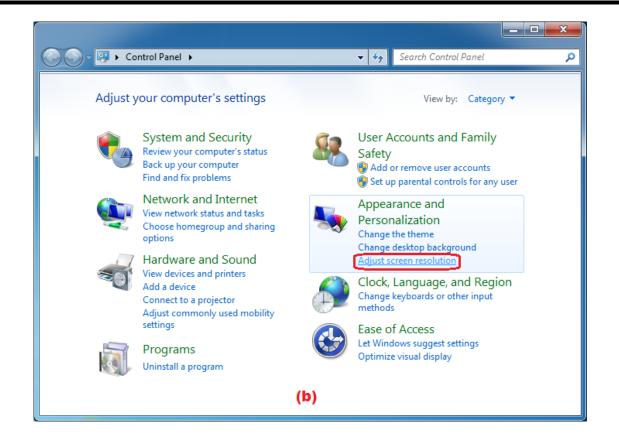
The device driver software was installed properly.



To make sure the USB Display Adapters worked correctly, please reboot the computer after finished the installation. After reboot the computer, the USB extended display will be shown on the attached display device. The device is now installed completely and ready to use.

If the extended display come out with the duplicate or blind screen, please right click on the desktop of your system, it will pop up a screen and select "Screen resolution" (a), or go to "START" \rightarrow "Control Panel" \rightarrow "Appearance and Personalization" \rightarrow "Adjust screen resolution" (b). Then, select "Extend these displays" (c) on the Display Property.

	View •
	Sort by
	Refresh
	Paste
	Paste shortcut
	Undo Copy Ctrl+Z
	NVIDIA Control Panel
	New 🕨
<u>1</u>	Screen resolution
	Gadgets
2	Personalize
	(a)



After reboot the computer, the USB extended display will be shown on the attached display device.

Search Control Panel	٩
Change the appearance of your displays	
Detegt 2 3 4 5 6 7 Identify	
Di <u>s</u> play:	
Resolution: 1280 × 1024 (recommended)	
Orientation:	
Multiple displays: Extend desktop to this display	
Make this my main display Advanced settings	
Connect to a projector (or press the 🖉 key and tap P)	
Make text and other items larger or smaller	
What display settings should I choose?	
OK Cancel Apply	
(c)	

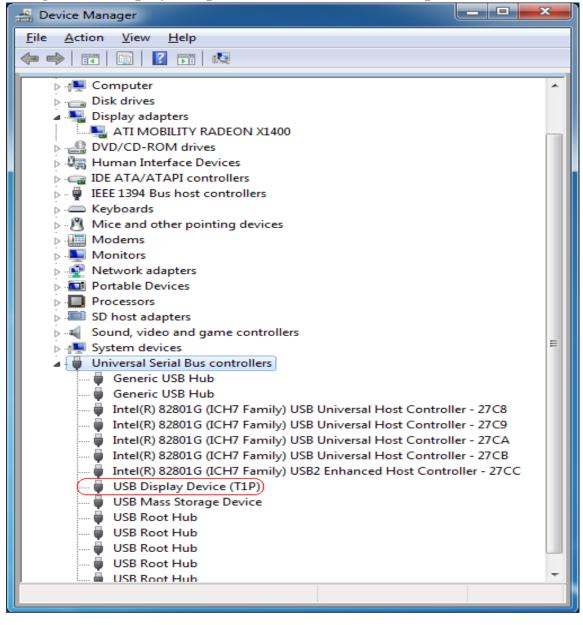
VERIFYING DEVICE DRIVER INSTALLATION

The following procedure allows you to verify the device driver installation.

Please right click "Computer" \rightarrow "Properties" \rightarrow "Device Manager".

Plug-in the **USB DISPLAY ADAPTER**, then double click "**Universal Serial Bus controllers**". Begin verification by making sure highlighted devices were added to the system.

•Single USB Display Adapter installation on the computer



🛃 Device Manager	×
<u>File Action View H</u> elp	
🗇 🔿 📰 📴 🔽 🗊 🙉	
Disk drives	-
🖌 🌉 Display adapters	
ATI MOBILITY RADEON X1400	
DVD/CD-ROM drives	
b Uman Interface Devices	
De IDE ATA/ATAPI controllers	
👂 🟺 IEEE 1394 Bus host controllers	
⊳ · · · · · · · · · · · · · · · · · · ·	
Mice and other pointing devices	
▷ · 🛄 Modems	
Monitors	
Network adapters	
Portable Devices	
Processors	
SD host adapters	
Sound, video and game controllers System devices	
Universal Serial Bus controllers	1
Generic USB Hub	
Generic USB Hub	
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27C8	
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27C9	
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27CA	
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27CB	
Intel(R) 82801G (ICH7 Family) USB2 Enhanced Host Controller - 27CC	
USB Display Device (T1P)	
🏺 USB Display Device (T1P)	
🟺 USB Display Device (T1P)	
🏺 USB Display Device (T1P)	
🟺 USB Display Device (T1P)	
USB Display Device (T1P)	
USB Mass Storage Device	
USB Root Hub	

•Multiple USB Display Adapters installation on the computer

DEVICE DRIVER UN-INSTALLATION

Step 1. Access Program Uninstall:

Click "Start" → "Control Panel" → "Programs". Click "Uninstall a program"

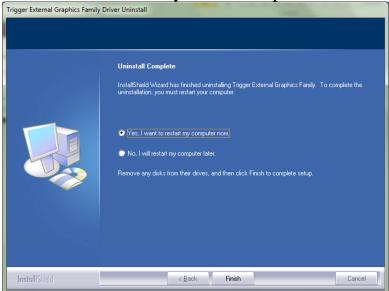
Look for "**Trigger External Graphics Family 12.xx.xxx.0179**" (driver version). Click "**Uninstall**" button.

Control Panel	Programs Programs and Features		- 4	Search Program	s and Features	×
Control Panel Home View installed updates	Uninstall or change a program To uninstall a program, select it from the list and then	click Uninstall, Change, or Repair.				
off	Organize 🔻 Uninstall				III •	0
	Name Uninstall this program.	Publisher	Installed On	Size	Version	
	TOSHIBA Resolution+ Plug-in for Windows Media Pl	TOSHIBA Corporation	9/2/2011		1.1.0	
	TOSHIBA Service Station	TOSHIBA	9/2/2011		2.1.51	
	TOSHIBA Sleep Utility	TOSHIBA Corporation	9/2/2011		1.4.2.7	
	TOSHIBA Speech System Applications		9/3/2011		1.00.2518	
	TOSHIBA Speech System SR Engine(U.S.) Version1.0		9/3/2011			
	TOSHIBA Speech System TTS Engine(U.S.) Version1.0		9/3/2011			
	H TOSHIBA Supervisor Password		9/3/2011		4.08.06.00	
	TOSHIBA Value Added Package	TOSHIBA Corporation	9/2/2011	101 MB	1.5.1.64	
	TOSHIBA Web Camera Application	TOSHIBA Corporation	9/2/2011	32.8 MB	1.1.6.3	
	Trigger External Graphics Family 12.01.0216.0179	MCT Corp	2/23/2012		12.01.0216.0179	
	Sew WildTangent Games	WildTangent	9/3/2011		1.0.1.3	
	🖉 Windows Live Essentials 2011	Microsoft Corporation	9/3/2011		15.4.3502.0922	
	Windows Live Mesh ActiveX Control for Remote Con	Microsoft Corporation	9/2/2011	5.57 MB	15.4.5722.2	
	MCT Corp Product version: 12.01.0216.0179 Help link: http://www.mct	Support link: http: t.com.tw/ Update information: http:				

Step 2. Unplug the USB DISPLAY ADAPTER and click "OK" to continue.



Step 3. Select "**Yes, I want to restart my computer now**" and click "**Finish**" to reboot. After reboot, you will complete the driver un-installation.



FUNCTION DESCRIPTION

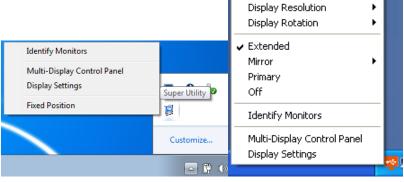
This section describes several friendly functions provided by the USB DISPLAY ADAPTER designed to ease your single or multiple USB display experience. A display device described in this section means devices such as CRT, LCD monitor, TV display, projector....

ACCESS USB DISPLAY ADAPTER UTILITY

Make sure the USB Display Adapter is attached to the PC. Look for the two icons on the lower right toolbar on Windows 2000/XP/Vista or an

icon "Super Utility" under the "Shown hidden icons" on Windows 7.

Right-click the icon to access the variety of functions associated to the adapter.



DISPLAY ID – Smart Display Device ID Detection

The USB Display Adapter supports VESA defined DDC/EDID. The utility could show the **display device ID** whenever it is attached to the USB Display Adapter.

If there is no display device attached to the USB Display Adapter, an "**Unknown**

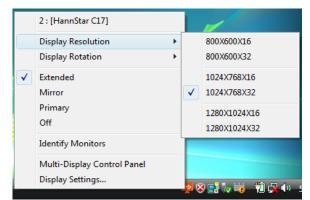


3 : [HannStar C17]

Monitor" ID will be shown. In some cases, the attached display device does not support EDID, the ID will also defined as "**Unknown Monitor**".

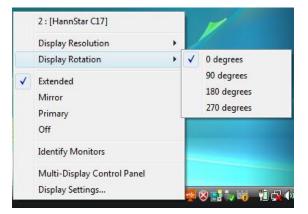
DISPLAY RESOLUTION – Fast Access to Display Resolution Setting

The default setting resolution is: 1024 * 768 * 32bit.



DISPLAY ROTATION

4 options available: " 0° , 90° , 180° , 270° under the Extended or Primary display modes. It is a useful function for some rotatable display device.



DISPLAY MODES

• "EXTENDED" DISPLAY MODE (DEFAULT)

A default display mode; this feature allows the attached USB Display enabled display device to work as "Extended" display of the on-board screen. The extended working space improves work efficiency.

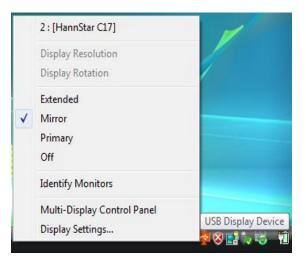
You may change the relative position of this extended USB Display enabled display device under the Display Settings.

	2 : [HannStar C17]		
	Display Resolution	•	
	Display Rotation	•	/
1	Extended		
	Mirror		
	Primary		
	Off		
	Identify Monitors		
	Multi-Display Control Panel		
	Display Settings		USB Display Device

• "MIRROR" DISPLAY MODE

This feature allows the same contents of onboard screen to be displayed (mirroring) to the USB Display enabled display device.

The screen resolution setting on the USB Display enabled device will follow the onboard screen's resolution. For example, if the on-board screen's resolution is 1024x768x32bit, and the USB Display enabled device will set as the same resolution.



• "PRIMARY" DISPLAY MODE

A unique feature to allow USB Display enabled device to act as the main working display. The USB Display Adapter will work as the main graphics adapter of the system. The on-board screen will work as the extended display.

Please be advised that some display utility and drivers that shipped with certain AGP and built-in display adapters may prevent this option from working on some systems. You may disable the other utility program (usually found in the same toolbar located on the bottom right hand corner) to make this function work properly.

	2 : [HannStar C17]		
	Display Resolution	۲	
	Display Rotation	•	
	Extended		
	Mirror		1
✓	Primary		1
	Off		
	Identify Monitors		
	Multi-Display Control Panel		
	Display Settings		*

• "OFF" DISPLAY MODE

This option disables the video output from **USB DISPLAY ADAPTER**.

	2 : [HannStar C17]		1
	Display Resolution Display Rotation	+	
✓	Extended Mirror Primary Off	,	
	Identify Monitors Multi-Display Control Panel Display Settings		USB Display Device

IDENTIFY MONITORS

Easy display identification via a serial number will be showed on the upper right corner of all attached display devices.



MULTI-DISPLAY CONTROL PANEL

An unique feature to allow much quicker and simpler working experience under multi-display environment. A series of hotkey to quickly move active window or cursor to the desired display device (either on-board or each USB Display enabled devices).

The default setting of hotkeys can be found on the Hotkey List of "Multi-Display Control Panel".

Name	Hotkey	Window
Move Active Window to Display01	CTRL + 1	Normal
Move Active Window to Display02	CTRL + 2	Normal
Move Active Window to Display03	CTRL + 3	Normal
Move Active Window to Display04	CTRL + 4	Normal
Move Active Window to Display05	CTRL + 5	Normal
Hotkey Setting	Vindow and Fullscreen	Apply

Display Settings

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

DISPLAY SETTINGS

Monitor Fast access to the system "Display Settings". Identify Monitors Drag the icons to match your monitors 2. Generic Non-PnP Monitor on Trigger USB Graphics Chipset Family (1P-E 💌 This is my main monitor Extend the desktop onto this monitor Resolution: Colors: -0-Highest (32 bit) 🔹 Low - High 1024 by 768 pixels Advanced Settings... How do I get the best display? OK Cancel Apply Disconnect Projector Duplicate Projector only Extend

*You also can press key and tap **P** to select the display modes on Windows 7.

FIXED POSITION

It remains the prior setting of display location after restart the computer.

	Identify Monitors	
	Multi-Display Control Panel Display Settings	
<	Fixed Position	9
Customize		e

Q&A

This section describes the common Q&A regarding to the installation or operation of the USB DISPLAY ADAPTER.

Q: Why can't I make the USB DISPLAY ADAPTER the primary display?

A: Some video cards ship their product with a utility that prevent other video cards from being set as the primary card. Check the bottom right hand corner taskbar for the utility. Disable the utility before switching our adapter 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. Make sure to set the Aero mode on Windows 7.

Q: Why does my mouse not move pass the right side of the screen as it should on 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 each other 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 USB DISPLAY ADAPTER first and not set the refresh rate higher than what your monitor can support. This may damage your monitor. You can also try to reset/refresh/resynchronize your monitor.

Q: Direct3D does not work?

A: This is a limitation of the adapter on Windows 2000/XP/Vista except for Windows 7.

TROUBLESHOOTING TIPS

This section describes the general troubleshooting tips regarding to the installation or operation of the USB DISPLAY DEVICE.

Known Issues

- Direct 3D is not supported under 2000/XP/Vista. It supported under Windows 7 Aero mode.
- Please set the Aero mode to play DVD on Windows 7.

General Recommendation

- Check to make sure that the device is plugged in correctly to the host system.
- Make sure that the USB port that you are using is USB 2.0.
- Unplug the USB cable of USB graphics device and re-insert it.
- Check to see that the monitor is connected correctly and is powered ON.
- Make sure to restart your computer after the driver installation.
- Try a different USB 2.0 port and/or computer.
- Unplug all other USB devices from the system.
- Try connecting the USB cable of USB graphics device directly to the computer instead of through a hub.
- Reset/refresh/resynchronize your monitor.

Media Playback

- During video playback on all platforms, please do not change the display mode, position or arrangement of video player window (such as dragging the video player window between main display and attached display). This usually causes the video player to have strange behavior and the video may stop playing. We suggest stopping the video playback, moving the window to the USB graphics device attached display and then selecting the video clip to start playing.

- You may experience poor video performance on USB graphics device attached display under some low-spec PC system.

- Video rendering using hardware overlays is supported.

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

- Your PC may be lack of certain video codec to support playback of certain video format. Please use the link below to install license free media codec.

K-Lite: <u>http://www.free-codecs.com/download/K_Lite_Codec_Pack.htm</u>

 Video/Media players have different decoding capability under different display modes. For better performance on watching DVD or certain video format on the USB graphics device attached display, it is recommended to use the following license free software.

VLC Media Player: <u>http://www.videolan.org/vlc/</u>

Media Player Classic: http://sourceforge.net/projects/guliverkli/

Others

- Some graphics card, i.e. Intel, prevents other secondary graphics chipset from being set as the primary card. As the result of this, *primary mode* might not work or the display maybe disabled.
- If you have problems during the boot up process, start your computer in Safe Mode and uninstall the driver. Hold the CTRL key until the Windows startup menu appears and select Safe Mode.
- To verify the driver version that you installed, please click "Control Panel" \rightarrow "Add or Remove
- Programs" to check the program: USB Display Device (Trigger 1+) 11.xx.xxxx.0159 (the number means the driver version).
- Please contact your dealer to obtain the latest driver or for additional assistance if needed.
- Some limitation exists in different media player on file format support. We enclose our compliance test result in the tables according to different operating system, main system graphics card/chipset, media players, and the supported media format. It will be updated periodically with new version of media players or our latest driver.

REGULATORY COMPLIANCE

FCC

This equipment has been tested and found to comply with FCC Part 15 Subpart B § 15.109/15.107 Class B.

Operation is subject to the following two conditions:

• This device may not cause harmful interference

• This device must accept any interference, including interference that may cause undesired operation of the device.

CE

This equipment is in compliance with the requirements of the following regulations: EN 55022 Class B (2006), EN 55024 (1998+A1:2001+ A2:2003), (IEC/EN 61000-4-2 (1995+A1:1998+A2:2001)/-3(2006))

C-Tick

This equipment is in compliance with the requirements of the following regulations: EN 55022 (2006) Class B, AS/NZS CISPR22 © IEC: 2005.

VCCI

This equipment is in compliance with the requirements of the following regulations: CISPR22 © IEC: 2005

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