KaiJet USB Graphics Adapter Series
User's Manual

USER'S MANUAL

INTRODUCTION

Thank you for purchasing the **KaiJet USB 2.0 Graphics Adapter**. The USB 2.0 graphics adapter enables you to connect one or multiple display devices (CRT/LCD monitor, projector) to your desktop or laptop 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.

REGISTER YOUR PRODUCT NOW! AND YOU WILL GET THE LATEST UPDATING INFORMATION.
http://www.kaijet.com/eng

USAGE

Editor:
  - Edit documentation on one screen and researching reference materials on the other- improvement in efficiency.
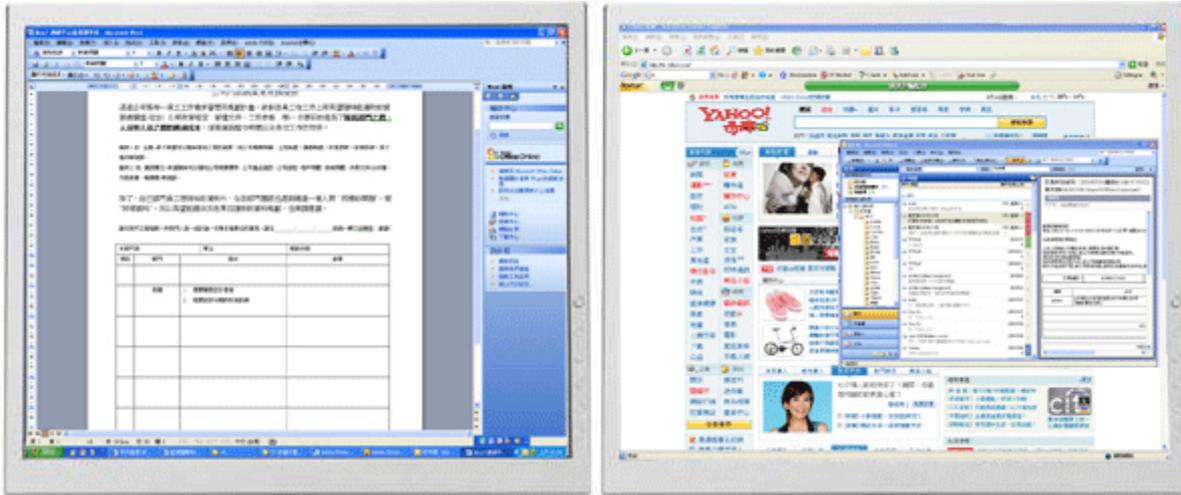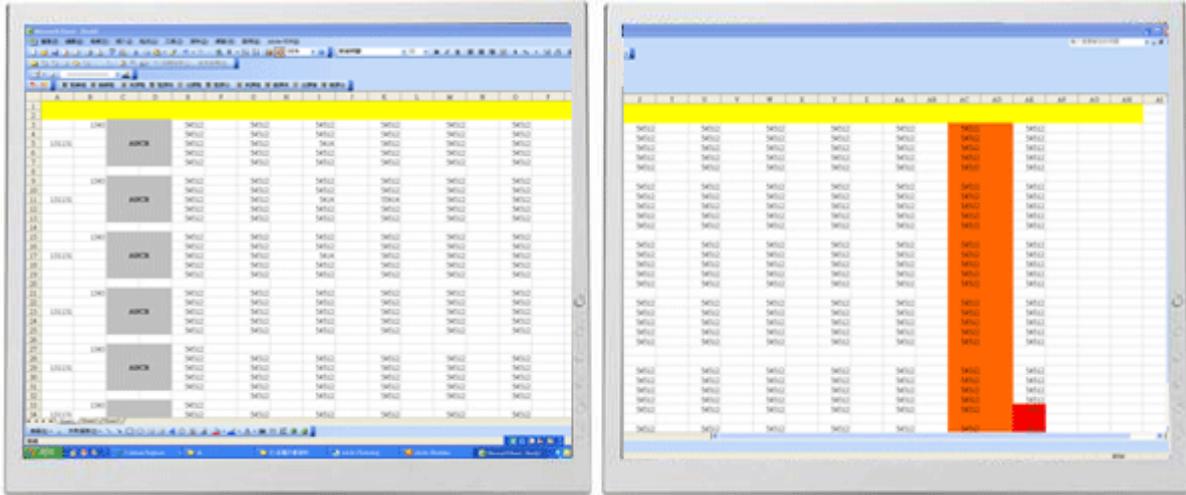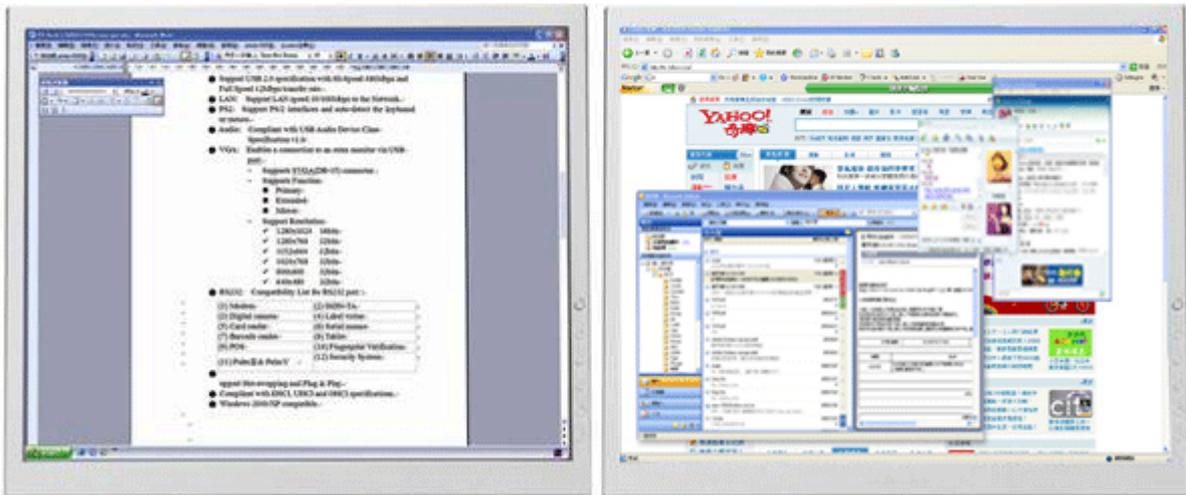

Presentation:
  - During school / office presentation, you can apply it for the third display device.

Office:

- Dual display scenario, view large spreadsheets across 2 screens with display continuity. (For example: Excel document)

- Independent using desk space and doing multi-job at the same time-improvement in efficiency.

- Reading email and open mail enclose attachment
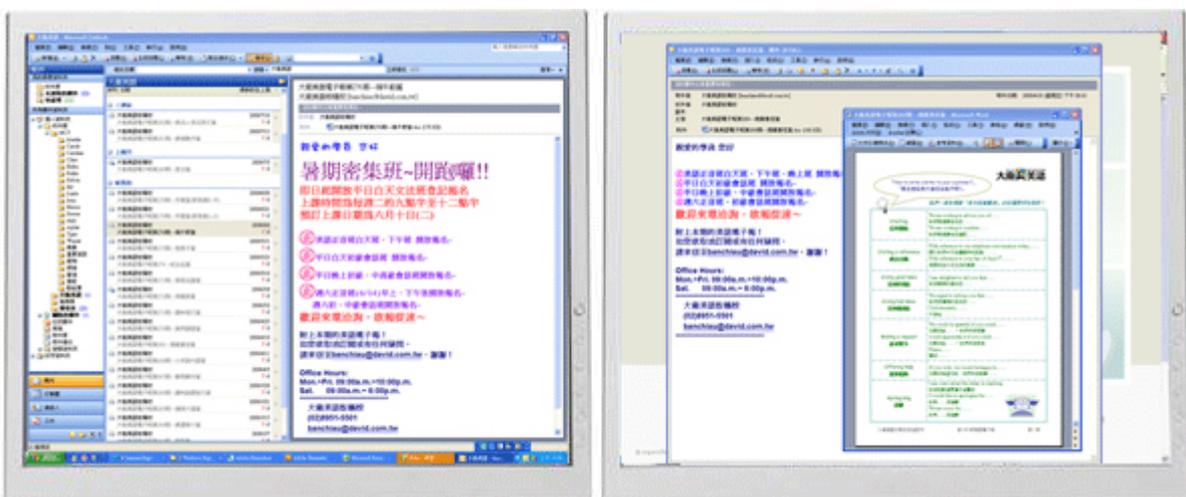
Graphics workstation:
   - Design and check reference material at the same time.
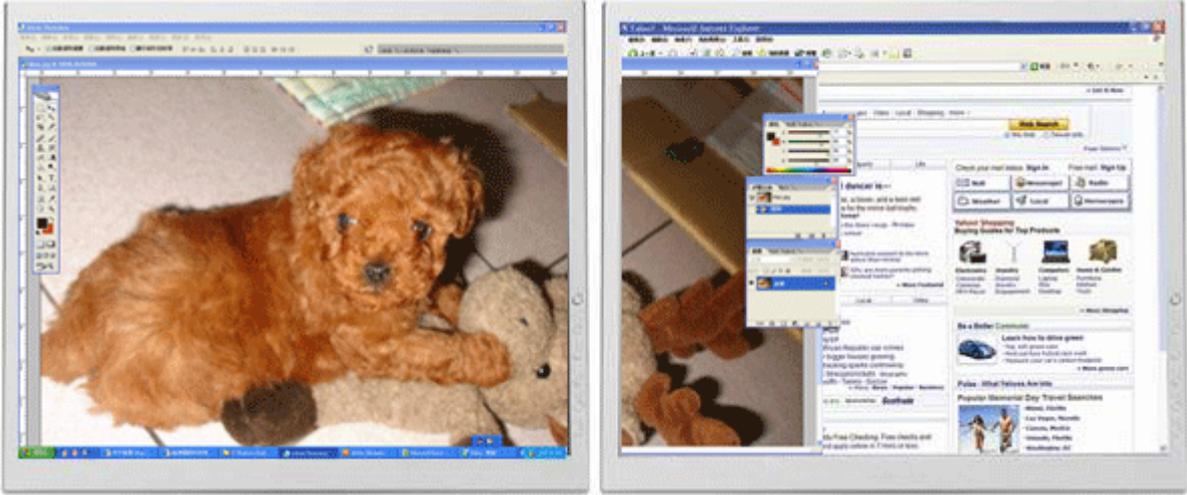
Entertainment:
   - Watch TV/ Movie and searching program preview at the same time.

   - Playing on-line game on one screen with the strategy guide on the other
     screen.
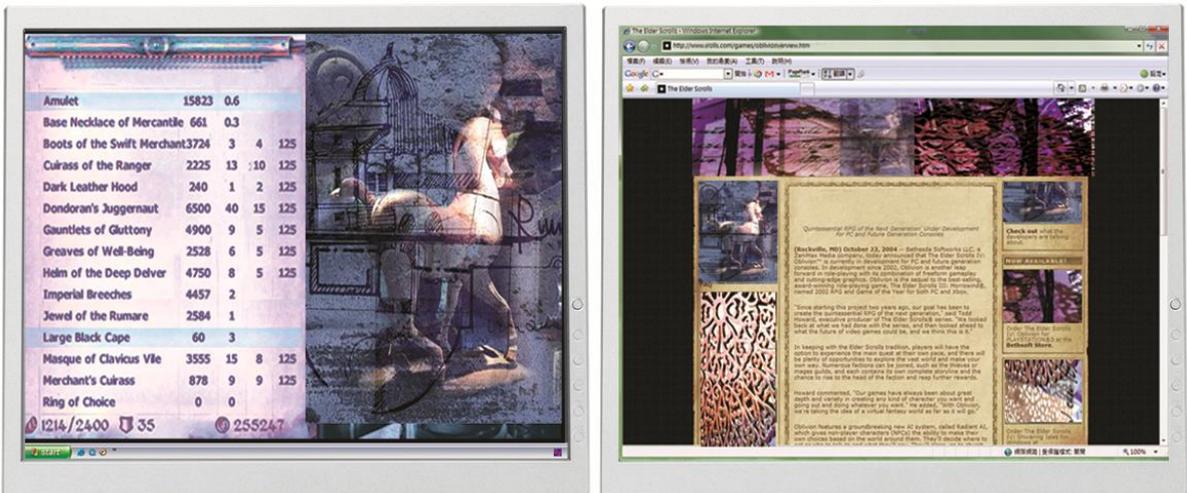
Stock Marketers:
- Simultaneously monitor multiple stock markets and market news.

Coding Programmer:
- Allow effective code programming- great companion for software programmers

To know more application of USB graphics adapter, please visit our website.   http://www.kaijet.com/eng

PACKAGE CONTENTS

- *USB 2.0 Graphics Adapter*
- Driver/ User Manual CD
- Quick Installation Guide
- Warranty Card

RESOLUTION TABLE

The different resolution will be supported by the display connector of USB Graphics adapters you purchased.

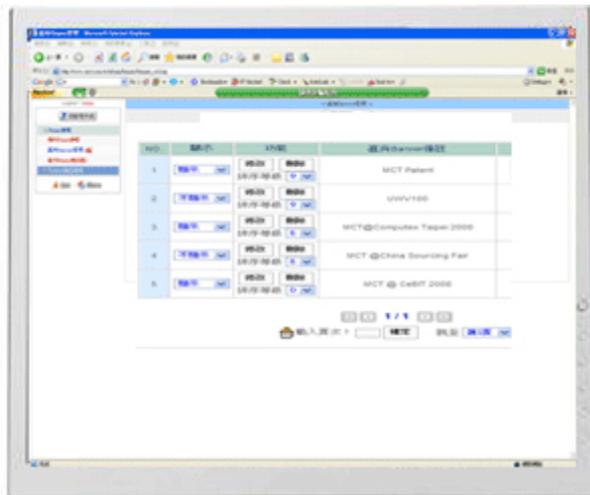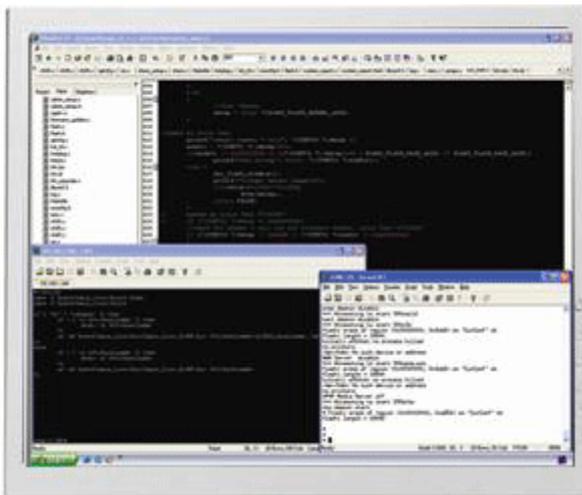| Aspect Ratio	Resolution	Refresh Rate Frequency	USB -VGA	USB-DVI	USB -HDMI
4:3	1600x1200	60Hz	16bit, 32bit	X	X
16:10	1680x1050	60Hz	16bit, 32bit	16bit, 32bit	16bit, 32bit
16:10	1440x900	60Hz	16bit, 32bit	16bit, 32bit	16bit, 32bit
4:3	1400x1050	60Hz	16bit, 32bit	16bit, 32bit	16bit, 32bit
16:9	1360x768	60Hz	16bit, 32bit	16bit, 32bit	16bit, 32bit
5:4	1280x1024	60Hz	16bit, 32bit	16bit, 32bit	16bit, 32bit
4:3	1280x960	60Hz	16bit, 32bit	16bit, 32bit	16bit, 32bit
16:10	1280x800	60Hz	16bit, 32bit	16bit, 32bit	16bit, 32bit
15:9	1280x768	60Hz	16bit, 32bit	16bit, 32bit	16bit, 32bit
16:9	1280x720	60Hz	16bit, 32bit	16bit, 32bit	16bit, 32bit
4:3	1152x864	60Hz	16bit, 32bit	16bit, 32bit	16bit, 32bit
4:3	1024x768	60Hz,75Hz	16bit, 32bit	16bit, 32bit	16bit, 32bit
4:3	800x600	60Hz,75Hz	16bit, 32bit	16bit, 32bit	16bit, 32bit

DISPLAY MODES

1. Primary Display
2. Extended Display
3. Mirror Display

DISPLAY FUNCTIONS

1. Display Rotation
2. Identify Monitor
3. Multiple Display Control Panel

MULTIPLE ADPATER SUPPORT

Support up to 6 adapters attached simultaneously in Windows.

OPERATING SYSTEM (*Server OS not included)

Windows 2000 SP4
Windows XP   SP3 (32 bits) / SP2 (64 bits)
Windows Vista SP1 (32 / 64bits)
Window   7

MINIMUM SYSTEM REQUIREMENTS

QTY	1 Dongle	2 ~ 3 Dongles	4 ~ 6 Dongles
CPU	Intel / AMD single core1.5 or above	Intel / AMD single core 2.4G or above	Intel / AMD Dual core 2.0G or above
RAM	512MB or above	1GB or above	2GB or above
USB	Independent power supply was required when using the USB HUB to connect multiple dongles. Recommend to use KaiJet product: 7-port HUB (Model # KJHP700).。		

To know more application of USB graphics adapter, please visit our website.   http://www.kaijet.com/eng

USB 2.0 GRAPHICS ADAPTER INSTALLATION

BEFORE YOU START

※Please run the setup program as an administrator to avoid error situation.

※DO NOT insert the USB graphics adapter into USB port before the driver was installed completely.

※Don't insert two USB graphics adapters into USB port at the same time.

※Independent power supply was required for USB HUB, when multiple dongles were connected to the USB HUB.

※Please uninstall the previous driver before you install a newer one.

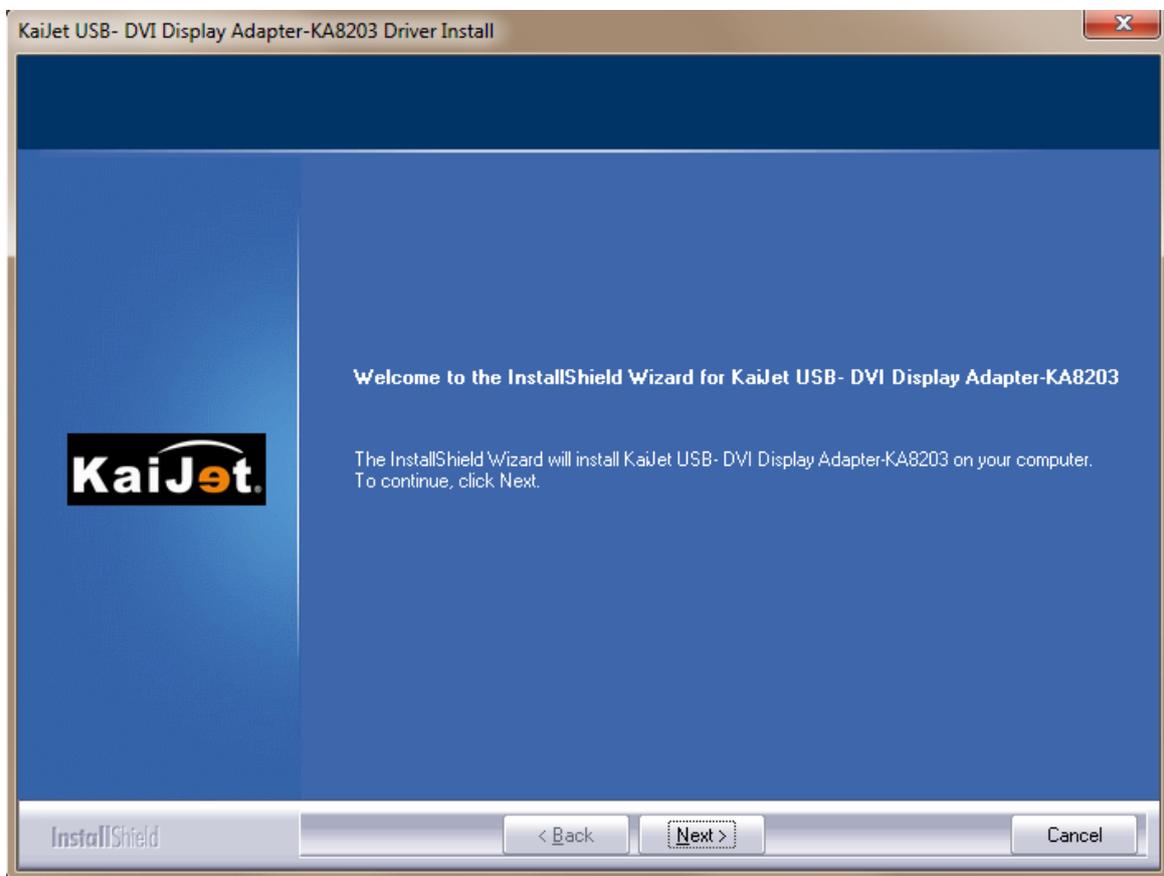※The screen of display device will flash during the installation.

WINDOWS VISTA / WINDOWS 7

INSTALLATION

After computer is ready to use, please insert the Driver CD into the optical disk drive, the setup program should be launched automatically. If Autorun does not begin, please go to "Computer", click on your optical disk drive, and manually run the setup CD.

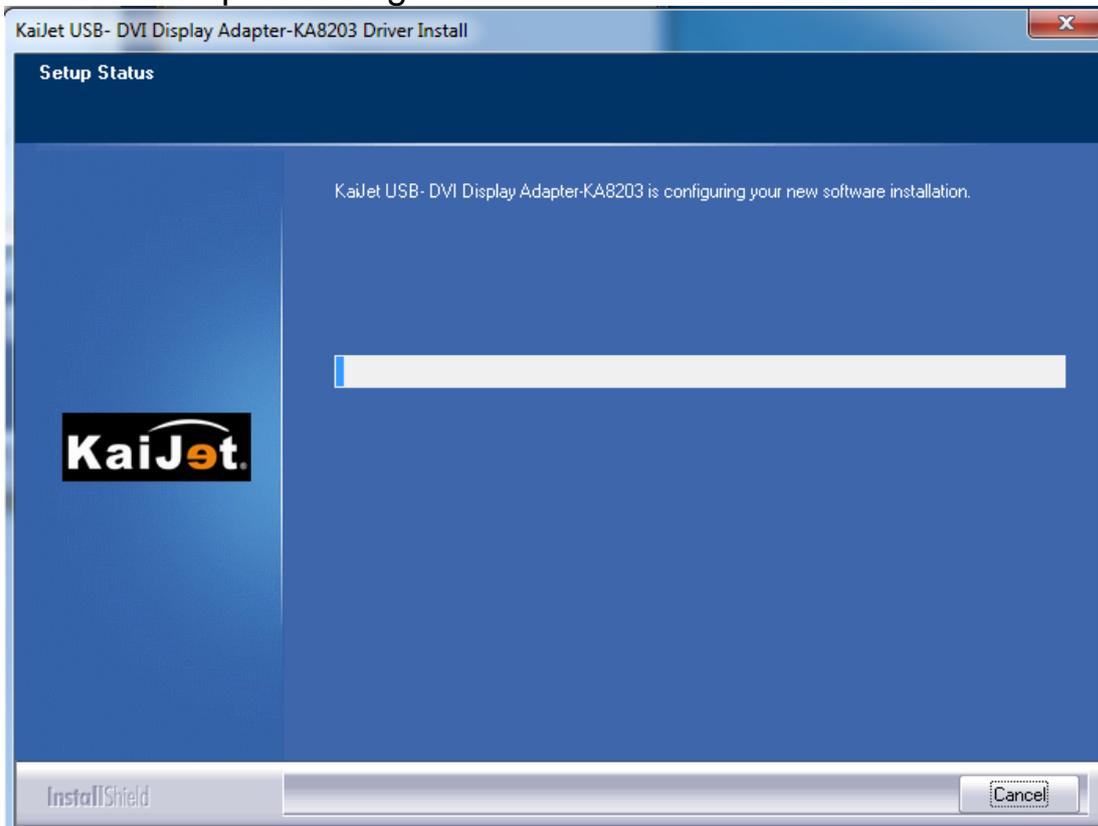※Before executing the installation program, please do not plug USB Graphics adapter from your PC or Notebook.

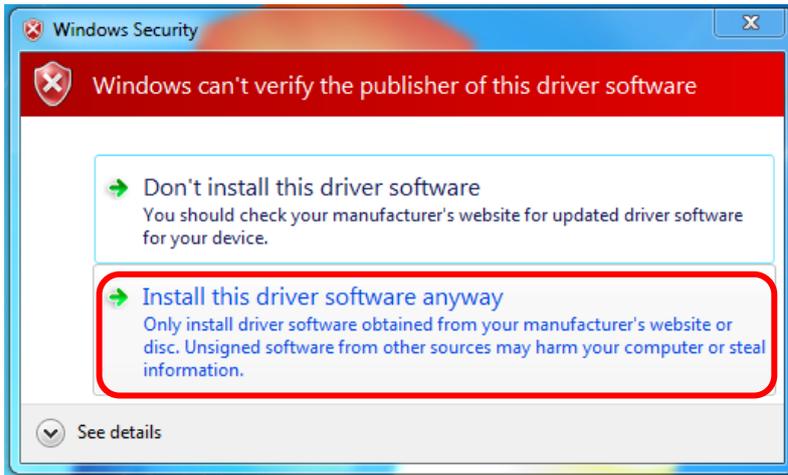**1.** Install Shield Wizard launched, click Next> to continue

2. Please read the license agreement and check "**I accept the terms of the license agreement**", click Next > to accept it and continue.
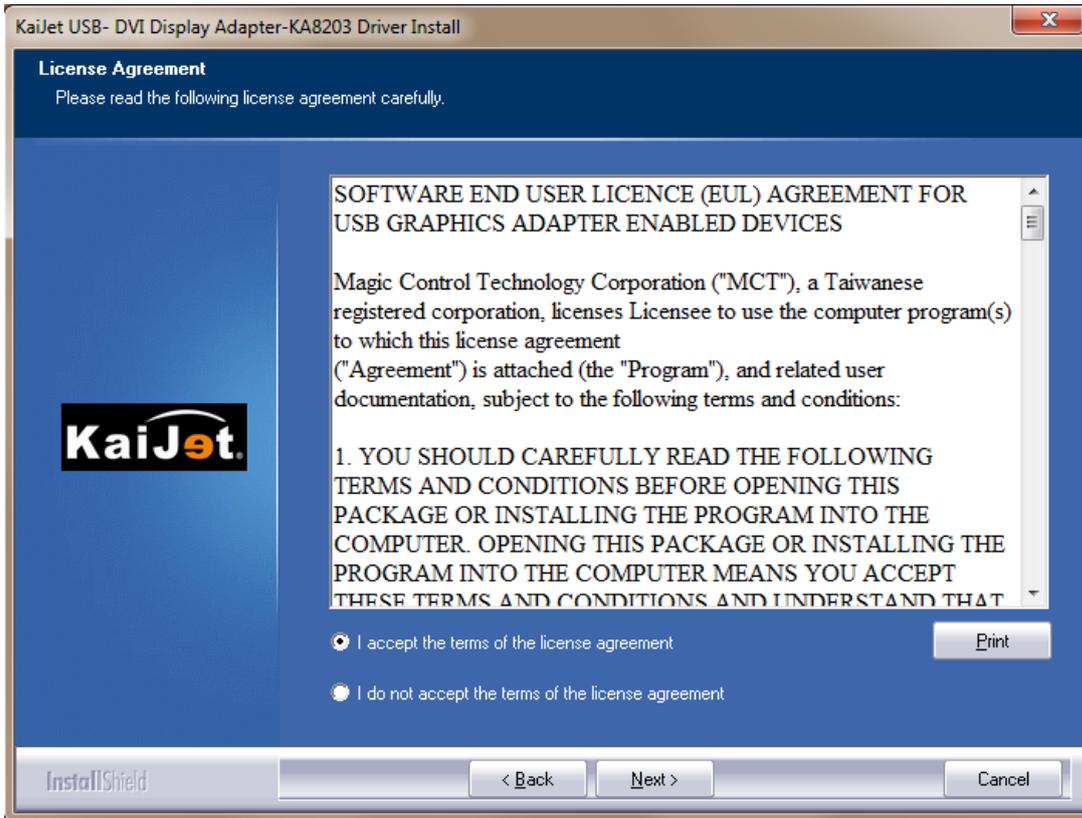
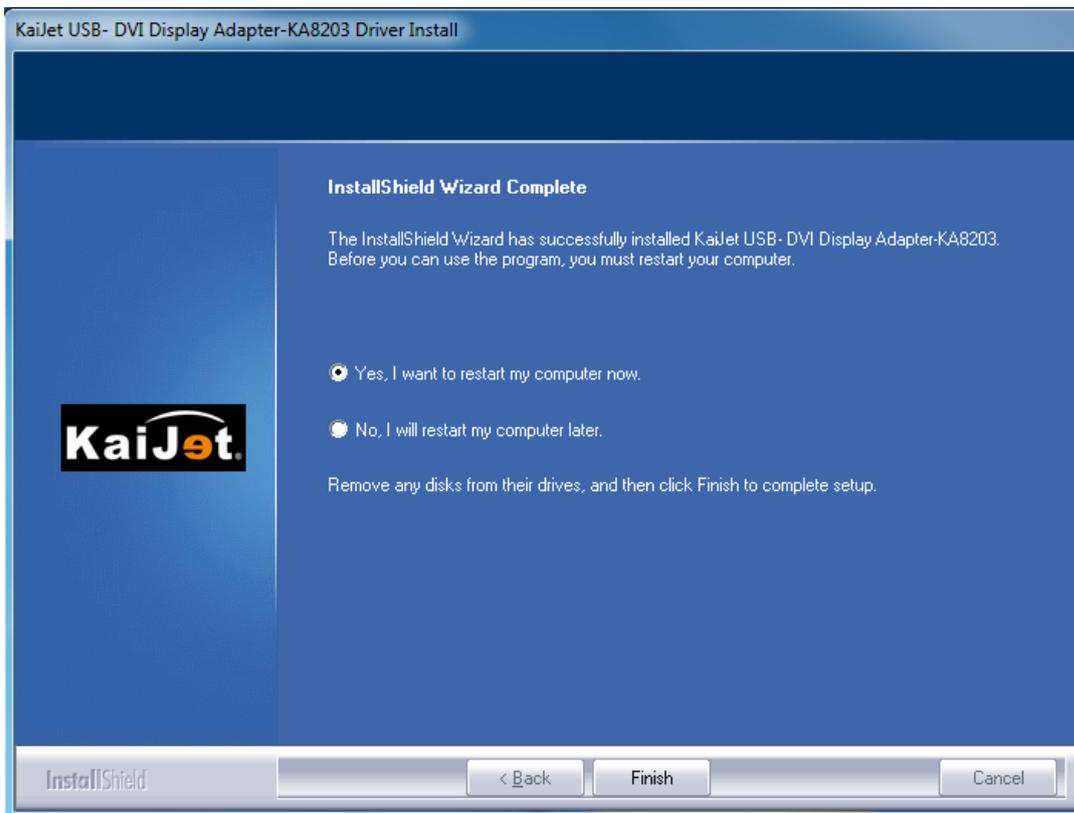**3.** Driver install proceeding..…

4. Check "Install this driver software anyway" when the dialogue box below pop-up, and click ⎣ Install ⎦ to continue.

5. Install Shield Wizard complete, select "**Yes, I want to restart my computer now.**" and click ⎣ Finish ⎦ to restart, or select "**No, I will restart my computer later.**"
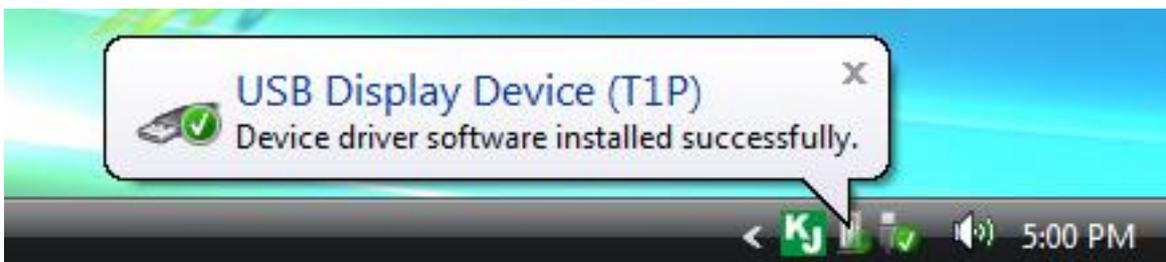
6. Insert the Insert the USB graphics adapter into an USB 2.0 port after computer restarted, the "**Installing device driver software**" message will pop-up.

※Please DO NOT insert the USB connector upside down, or the hardware may be damaged.

Driver software was installed successfully when the message below shown, if you're not going to install more USB graphics adapter, please restart your PC.

※If you're going to install the 2nd or more USB graphics adapters, please skip restart, and follow the next steps below.

7. Insert the next USB graphics adapter into USB 2.0 port, if you check **"Install this driver software anyway."** at step 4, the system will automatically starting install procedure and the prompt message below will pop-up at task bar.

The 2nd prompt message changes after screen blinking.

The driver was installed, if you're going to install more USB graphics adapter, please repeat step 7.   Or, please restart your PC.
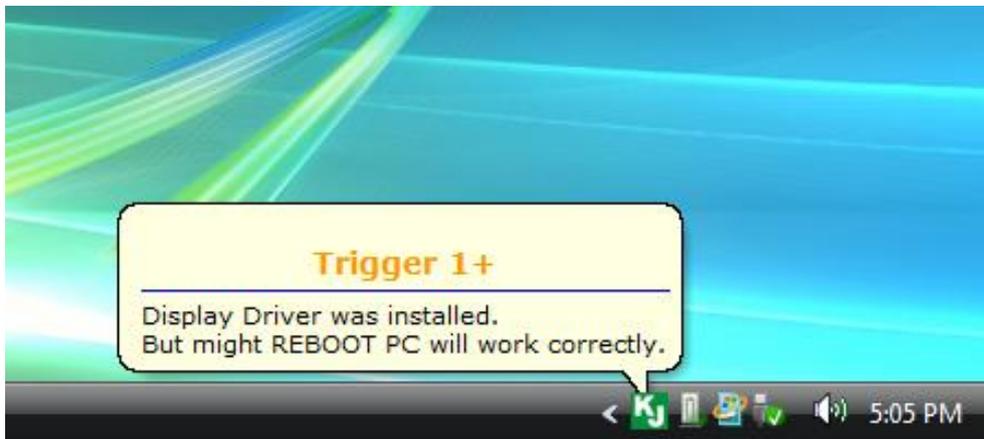
When the prompt message below pop-up, please remember to restart your PC after all the USB graphics adapter was installed.

※The functions of USB graphics adapter will be activated after the computer restarted.
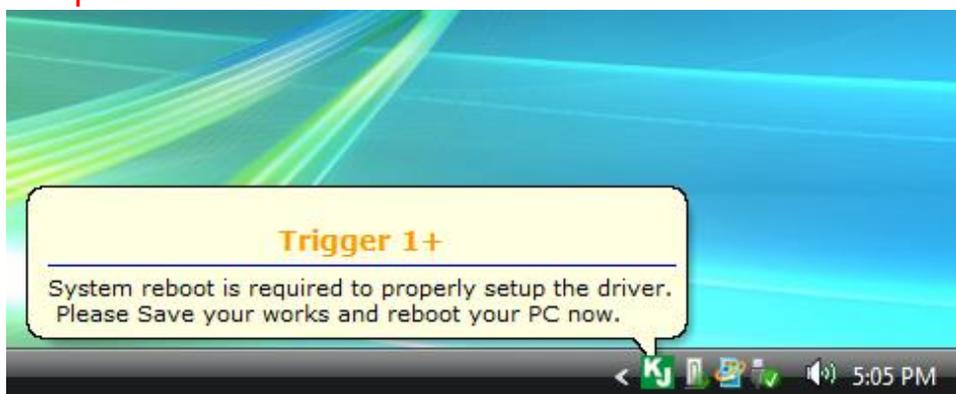
8. While the computer restarting, please connect external display device to the connector of USB graphics adapter and switch its power on. You would see the extended display on the external display device. If not, please check the display device and confirm the driver installed correctly or not.

You can modify the corresponsive position of each extend display via display settings. Go to "**START**" → "**Control Panel**" →

"**Appearance and Personalization**" → "**Adjust screen resolution**"
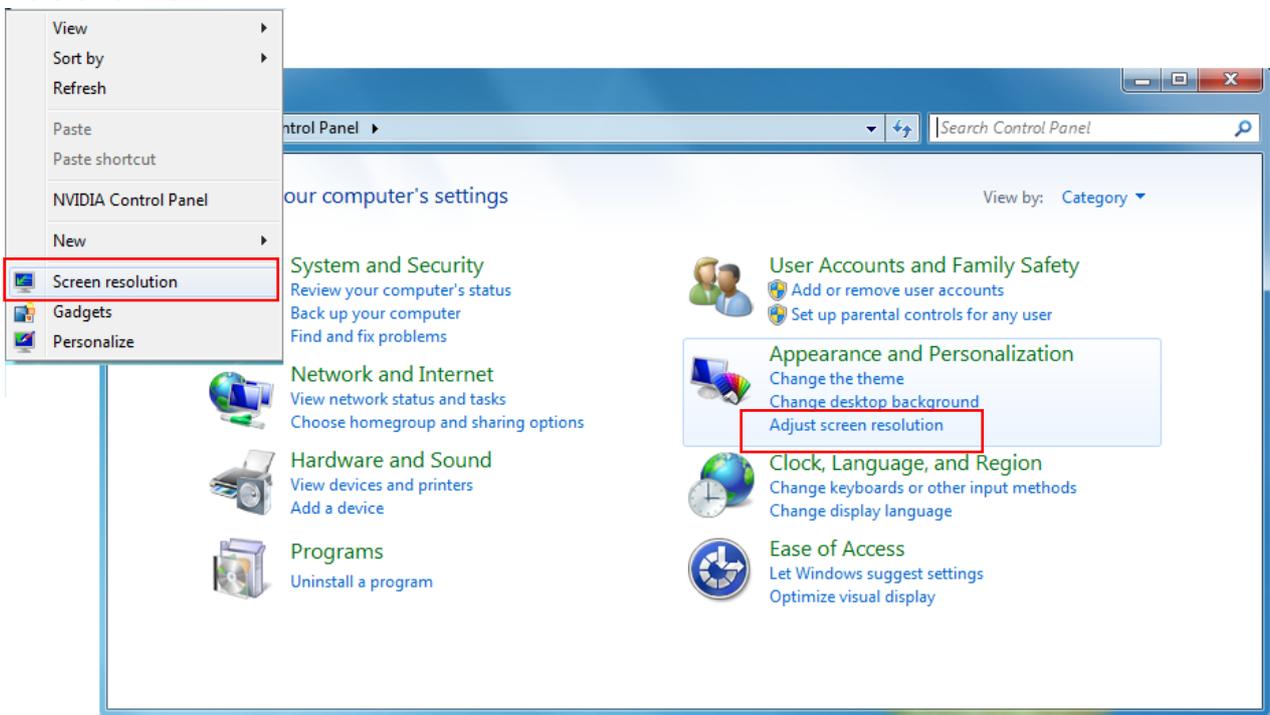
*or Right click on the desktop and go to Screen Resolution"

When the Screen Resolution Windows pop out, you can Identify each monitor's number by click "Identify" and also can drag the Monitor to the location you want.
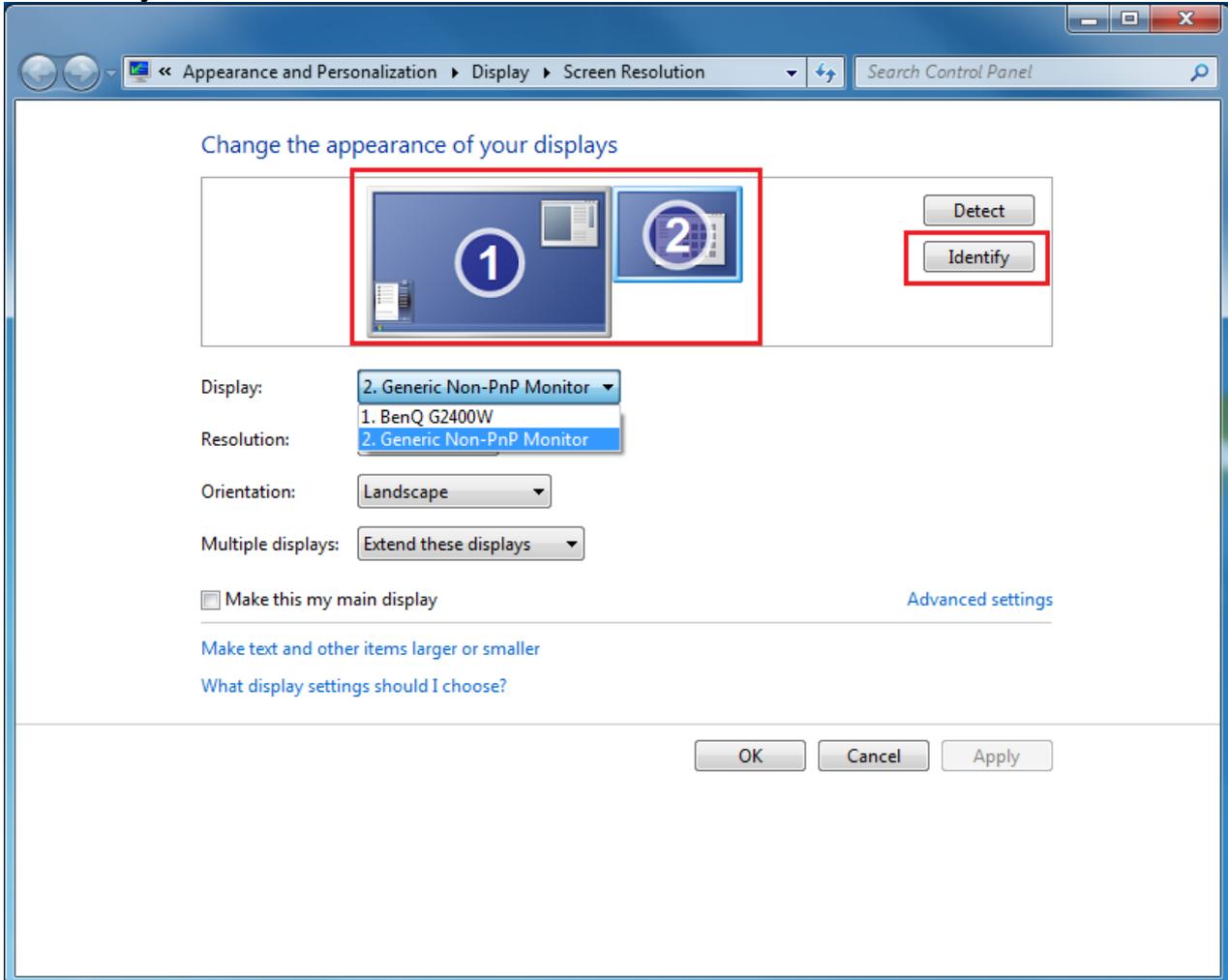
For more help, including FAQ and trouble shooting, please refer appendix or visit our website.
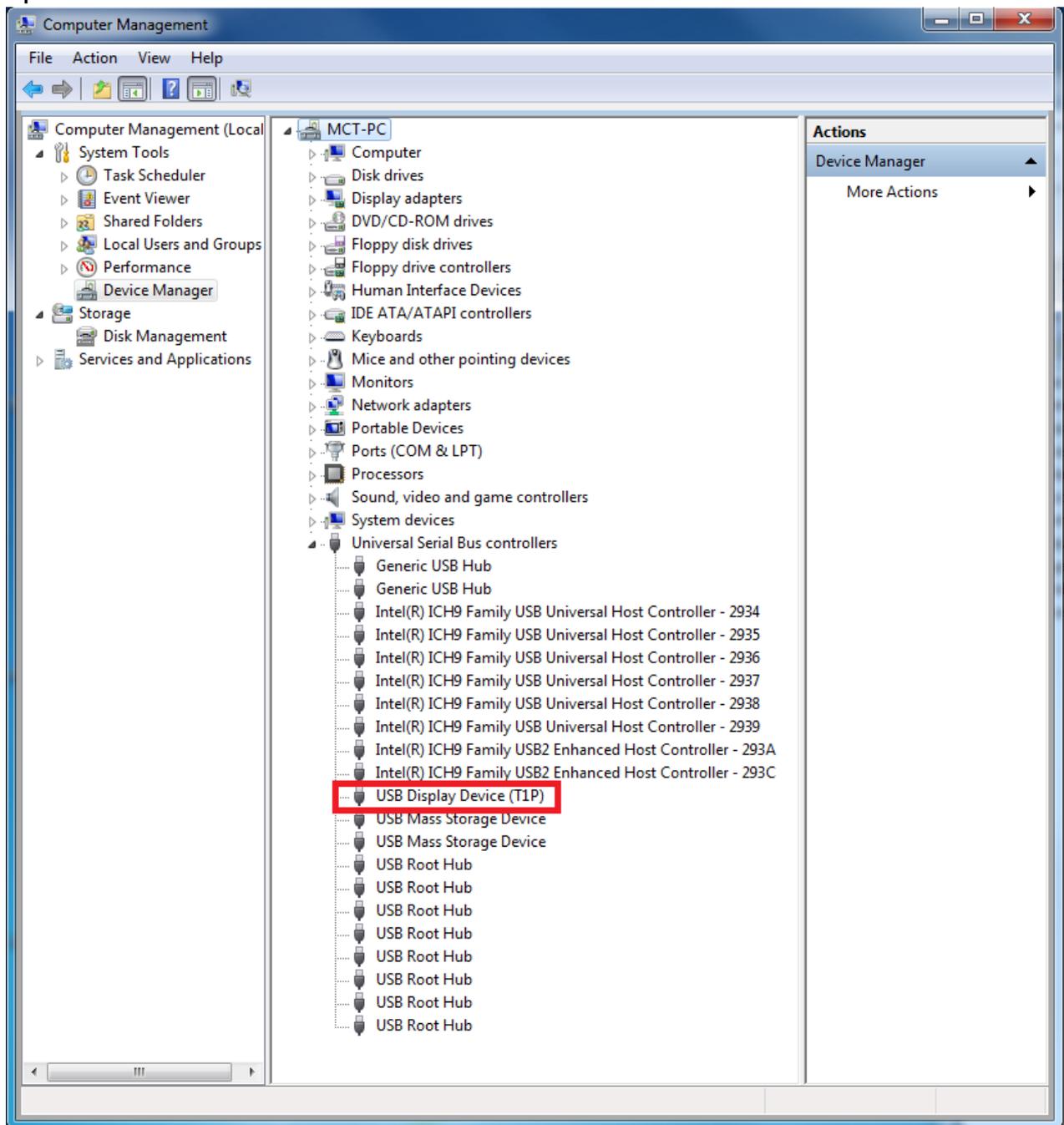http://www.kaijet.com/eng

VERIFY DEVICE DRIVER INSTALLATION

The following procedure helps you to verify the driver installation status of USB graphics adapter

Please right Click "**My Computer**", "**Manager**" → "**Device Manager**" click "**+**" sign of "**Universal Serial Bus controllers**"

When Single USB Graphics Adapter installed on the computer, the pictures will be shown like below

When Multiple USB Graphics Adapter installed on the computer, the pictures will be shown like below
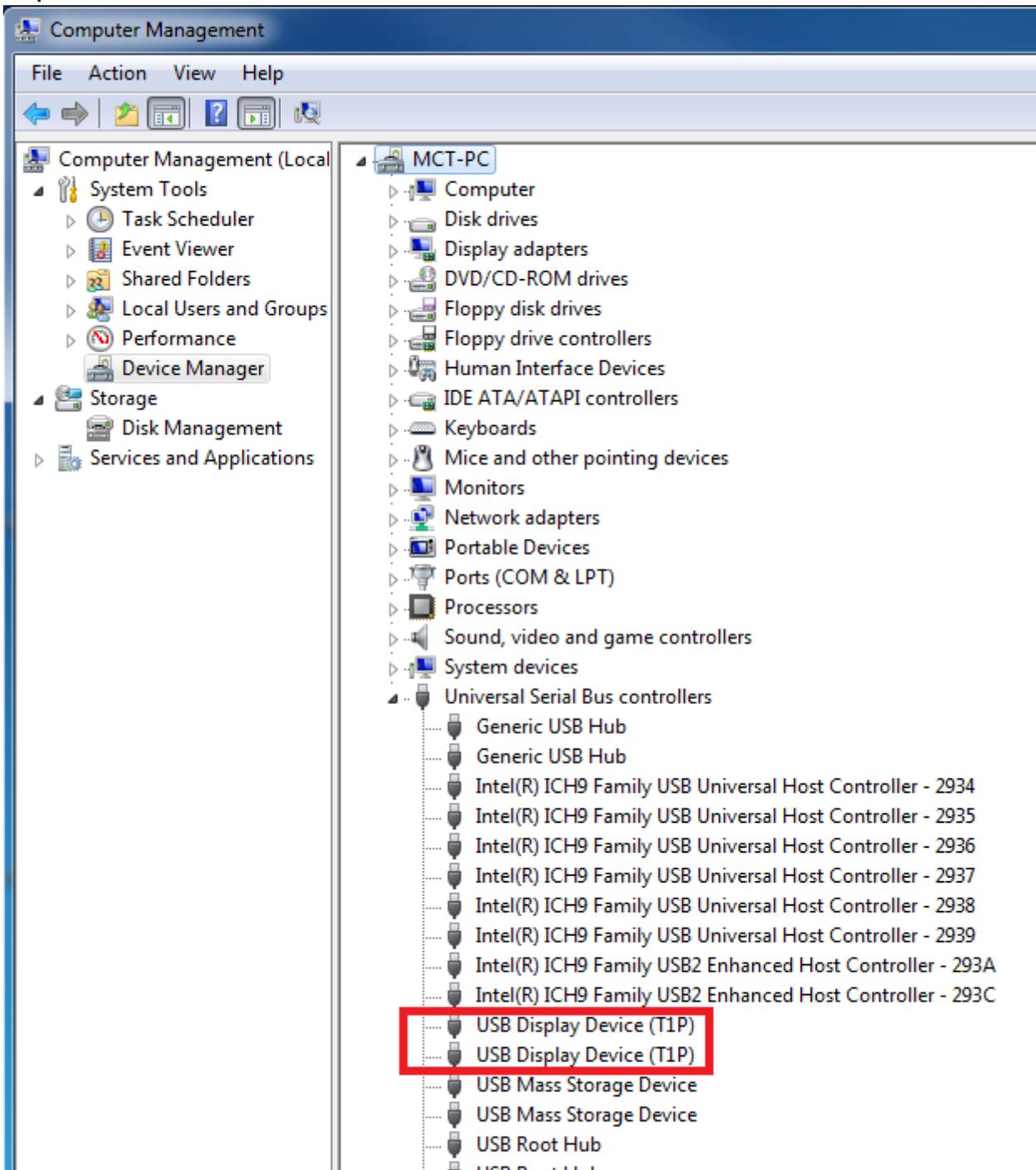
UN-INSTALLATION
Please unplug the _USB 2.0 Graphics adapter before uninstall the driver_

1. Click " **Start**"→ **Control Panel** → **Programs and Feature**→ **Uninstall or change a program**
   Select   **KaiJet USB Graphics Adapter XXX.. Click** │ **Uninstall** │
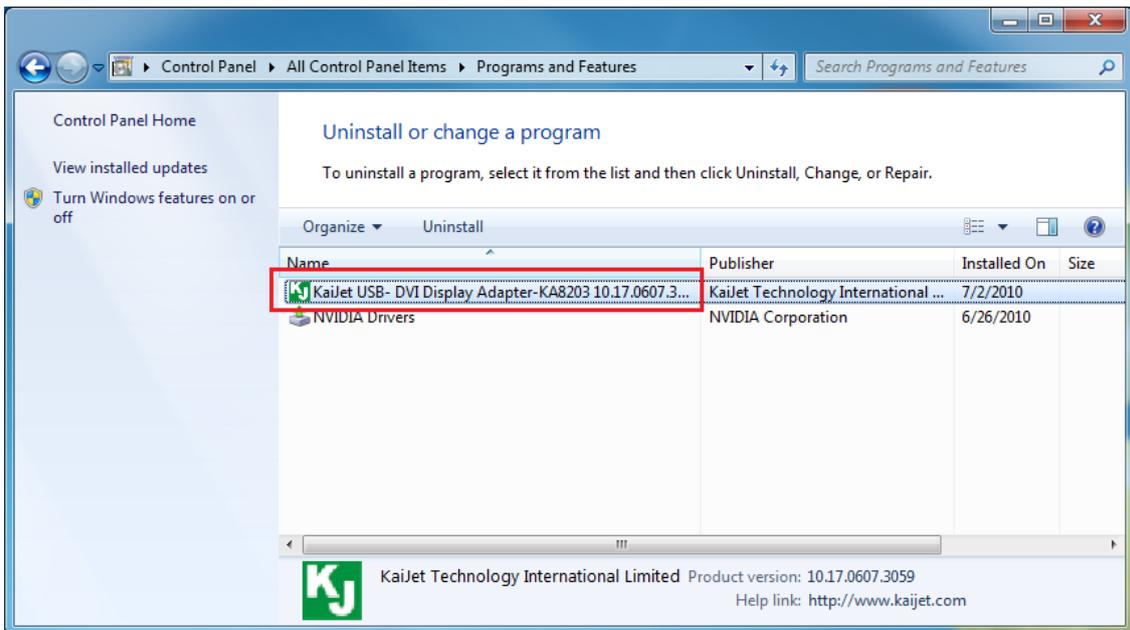
2. Confirm window will pop out. Click │ OK │ to continue
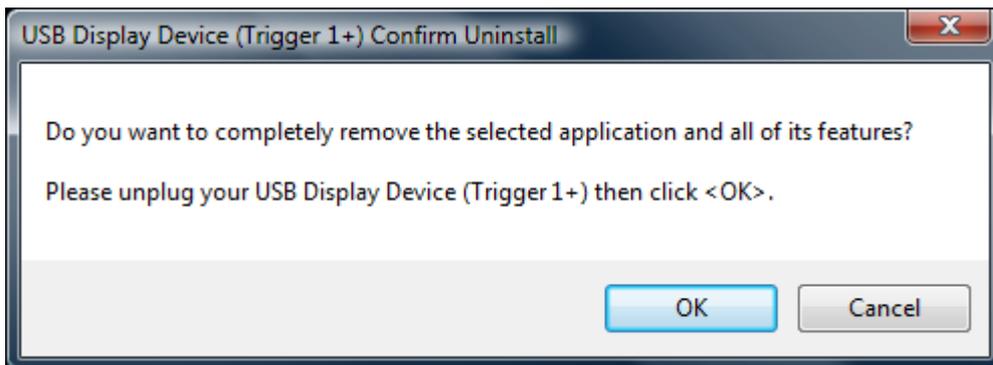
3. *Driver uninstall proceeding..…*

4. Driver uninstall completed. Select " Yes, I want to restart my computer now. click Finish to restart, or select "No, I will restart my computer later."
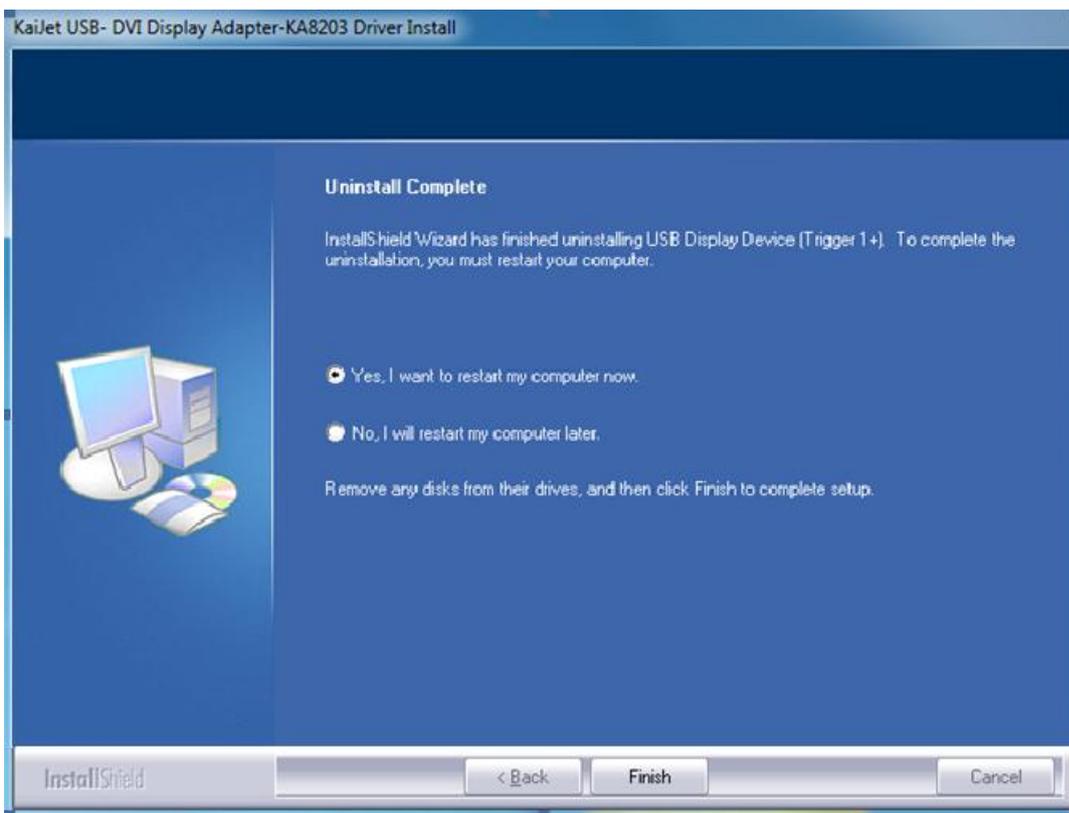
WINDOWS XP / 2000

INSTALLATION

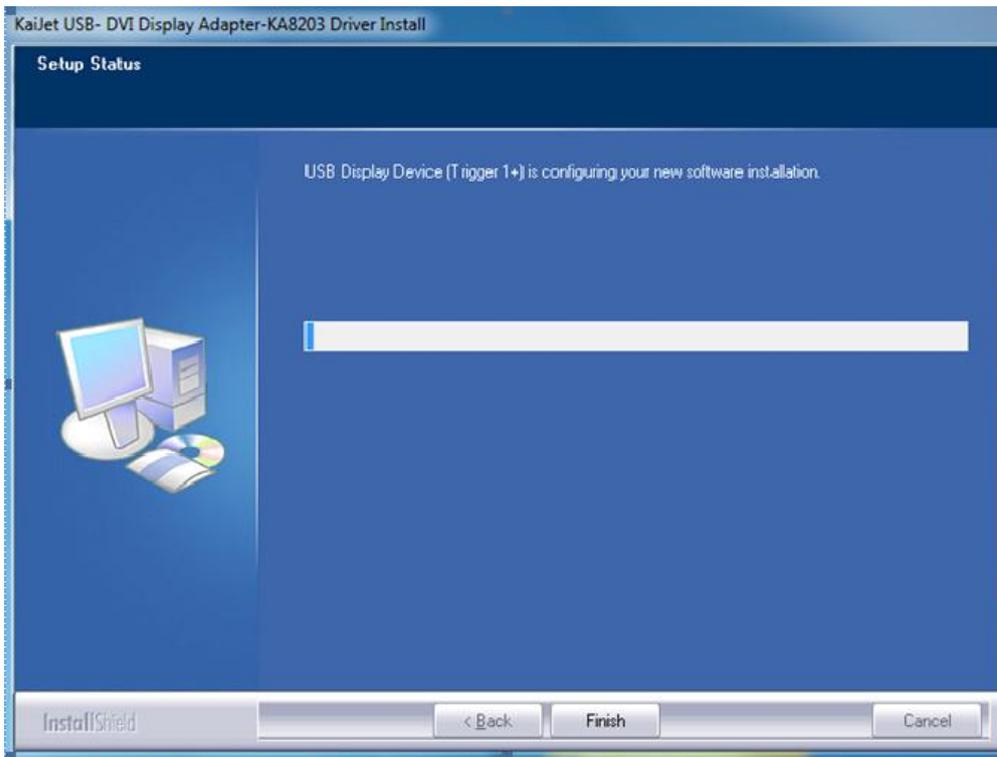After computer is ready to use, please insert the Driver CD into the optical disk drive, the setup program should be launched automatically. If Autorun does not begin, please go to "Computer", click on your optical disk drive, and manually run the setup CD.

※Before executing the installation program, please do not plug USB Graphics adapter from your PC or Notebook.

1. Install Shield Wizard launched, click Next> to continue

2. Please read the license agreement and check ""**I accept the terms of the license agreement**", click [Next >] to accept it and continue.
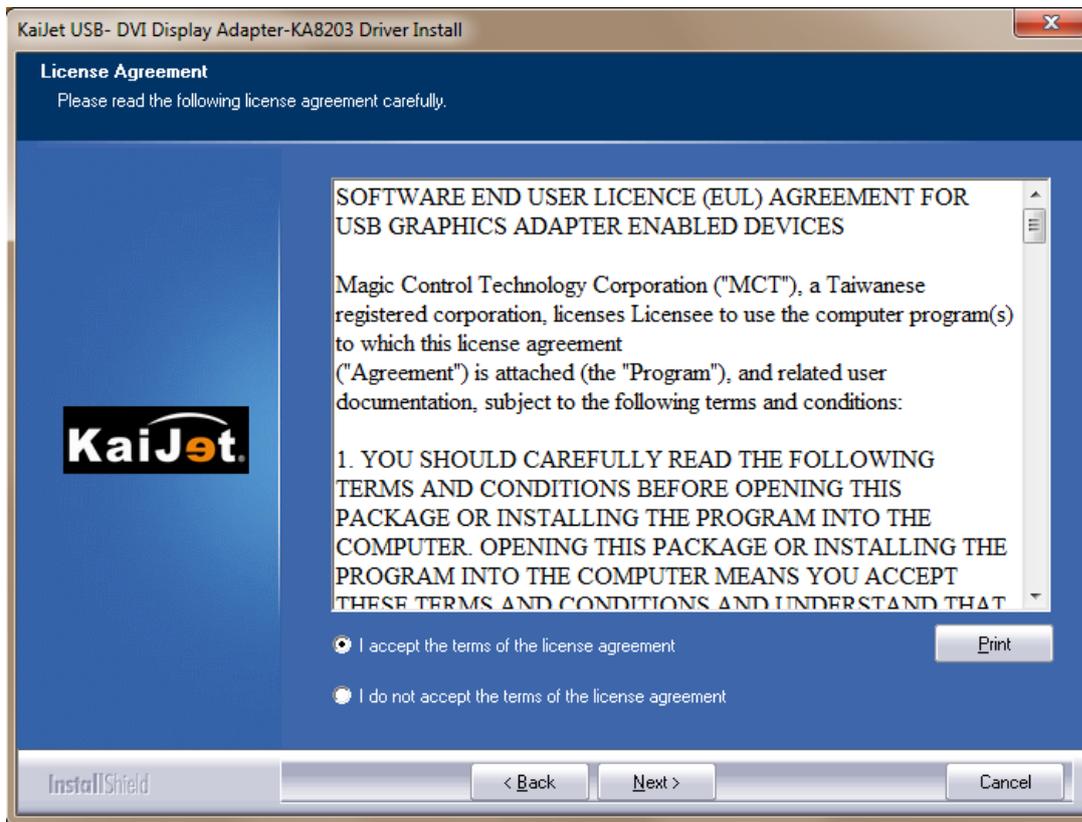
3. Driver install proceeding..…
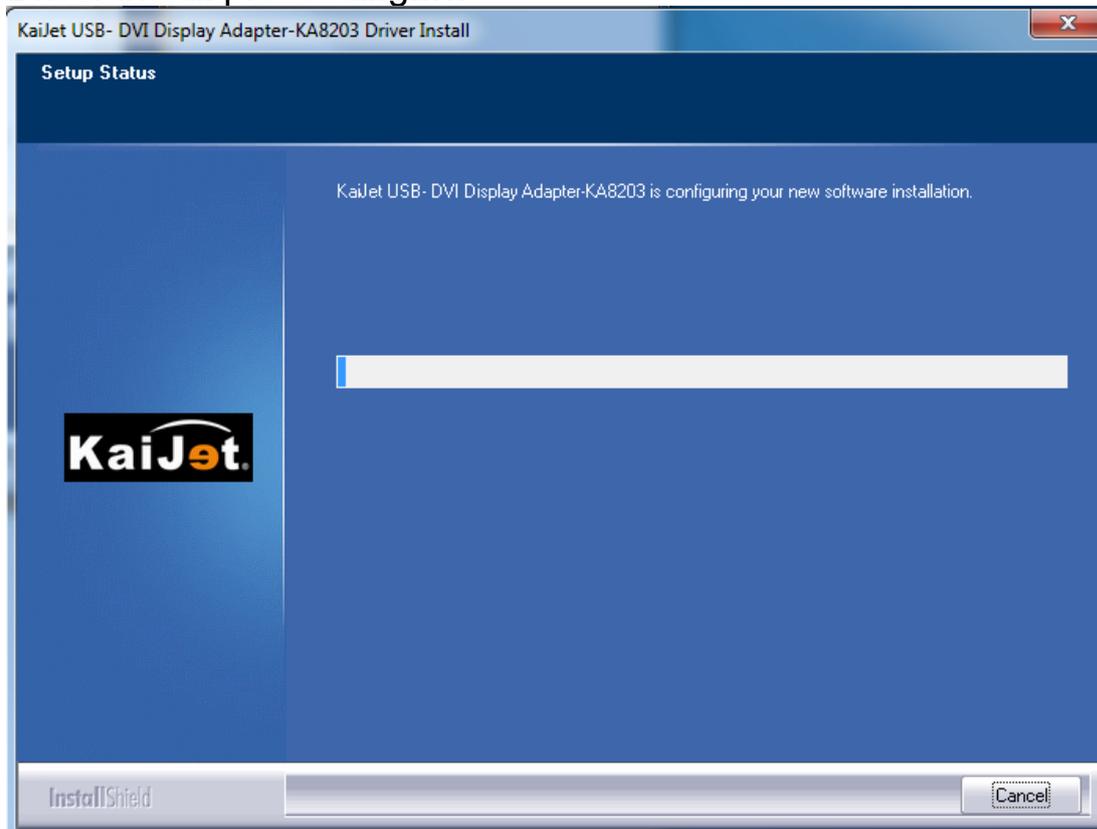
4. Install Shield Wizard complete, select "**Yes, I want to restart my computer now.**" and click ⌐ Finish ⌐ to restart, or select "**No, I will restart my computer later.**
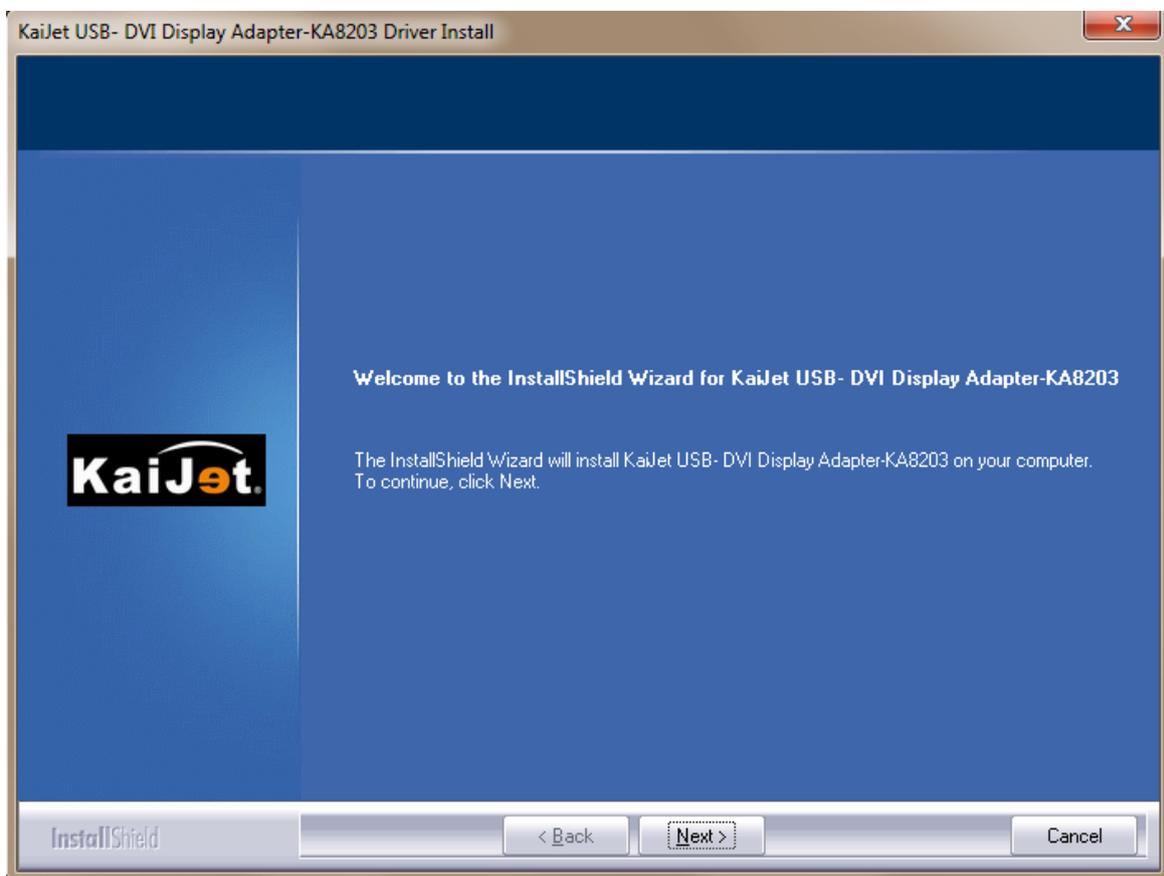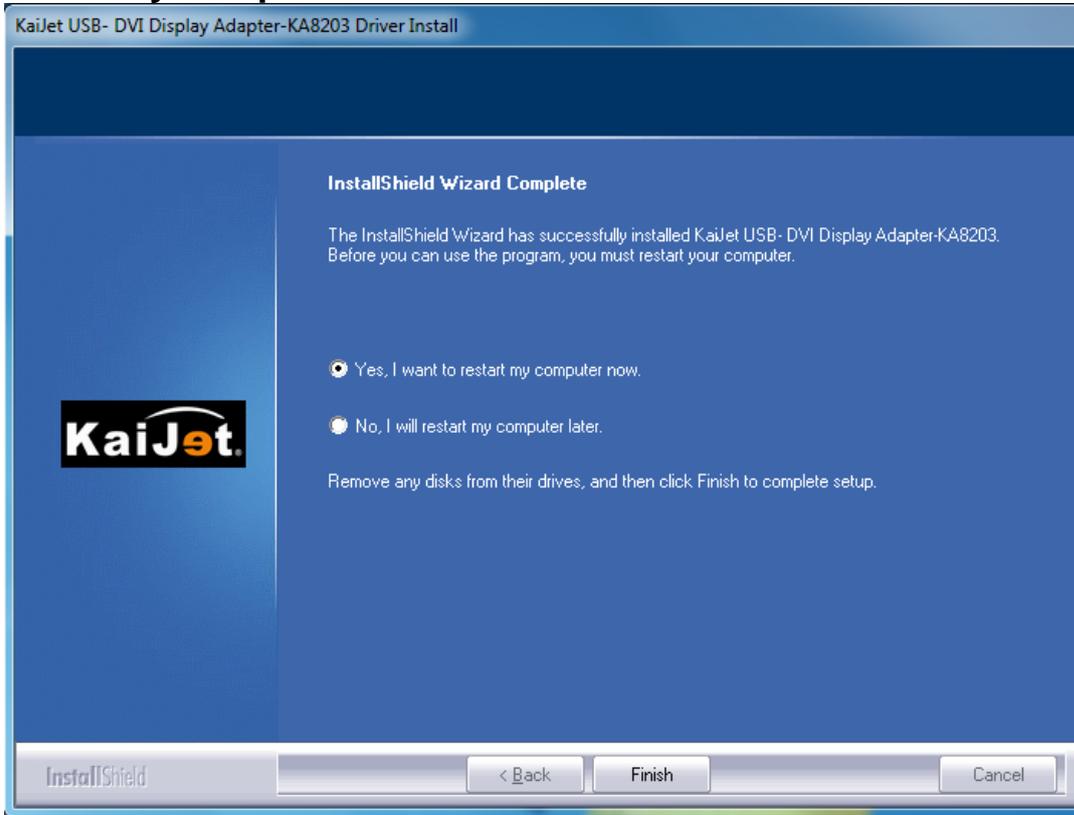

5. Insert the USB graphics adapter into an USB 2.0 port after computer restarted, the "**Installing device driver software**" message will pop-up.
   ※Please DO NOT insert the USB connector upside down, or the hardware may be damaged.

Driver software was installed successfully when the message below shown, if you're not going to install more USB graphics adapter, please restart your PC.
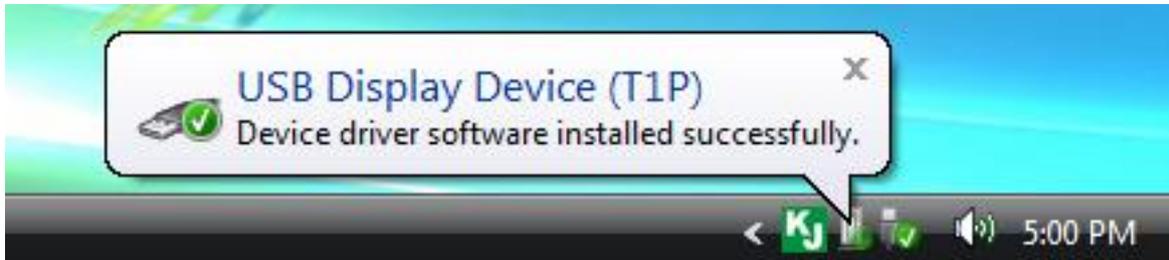
※If you're going to install the 2nd or more USB graphics adapters, please skip restart, and follow the next steps below.

6. Insert the next USB graphics adapter into USB 2.0 port, the system will automatically starting install procedure and the prompt message below will pop-up at task bar.

The 2nd prompt message changes after screen blinking.

The driver was installed, if you're going to install more USB graphics adapter, please repeat step 6.   Or, please restart your PC.

When the prompt message below pop-up, please remember to restart your PC after all the USB graphics adapter was installed.

※The functions of USB graphics adapter will be activated after the computer restarted.

7. While the computer restarting, please connect external display device to the connector of USB graphics adapter and switch its power on. You would see the extended display on the external display device. If not, please check the display device and confirm the driver installed correctly or not.

   Go to " START" → "Control Panel" → **"Appearance and Themes"** → **"Display"   Display Properties**
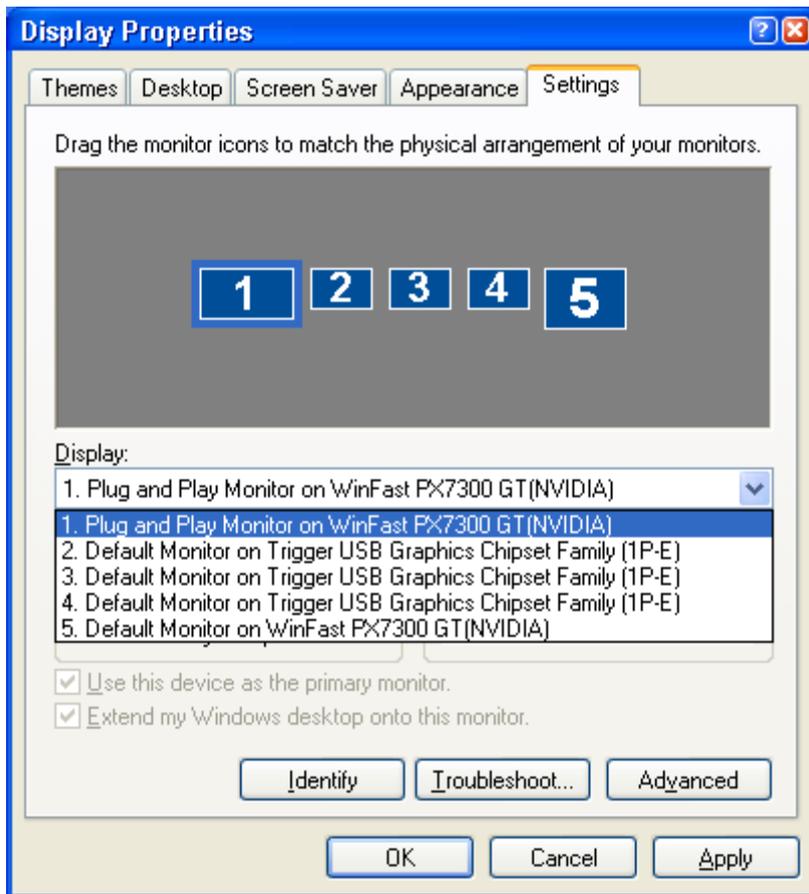
Identify each monitor's number by click "Identify"

And then, you can modify the resolution of each monitor, or adjust virtual position as you like by drag the monitor icon.

If your internal graphics card is with two VGA ports…

1. When using one USB graphics adapter
   the display device which connected to the 2nd VGA port will be numbered 3rd monitor, the display device which connected to the USB graphics adapter will be numbered 2nd monitor.

2. When using two USB graphics adapters
   the display device which connected to the 2nd VGA port will be numbered 4th monitor, the display device which connected to the USB graphics adapter will be numbered 2nd and 3rd monitor.
   And so on…

The utility of USB graphics adapter (UV icon) will be shown at the task bar. It helps you to change the display mode and resolutions easily.
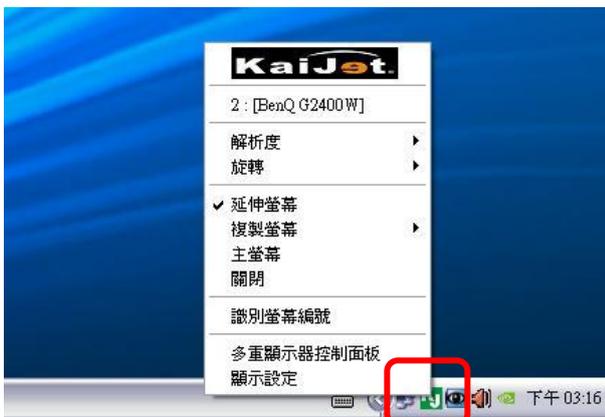
VERIFY DEVICE DRIVER

The following procedure helps you to verify the driver installation status of USB Graphics adapters

Right click "**My Computer**" → "**Manage**" → "**Device Manager**", click the "**+**"sign of "**Display adapters**", and "**Universal Serial Bus Controllers**".

※When **Single USB Graphics adapter** Installed on the Computer should be shown as the picture below.
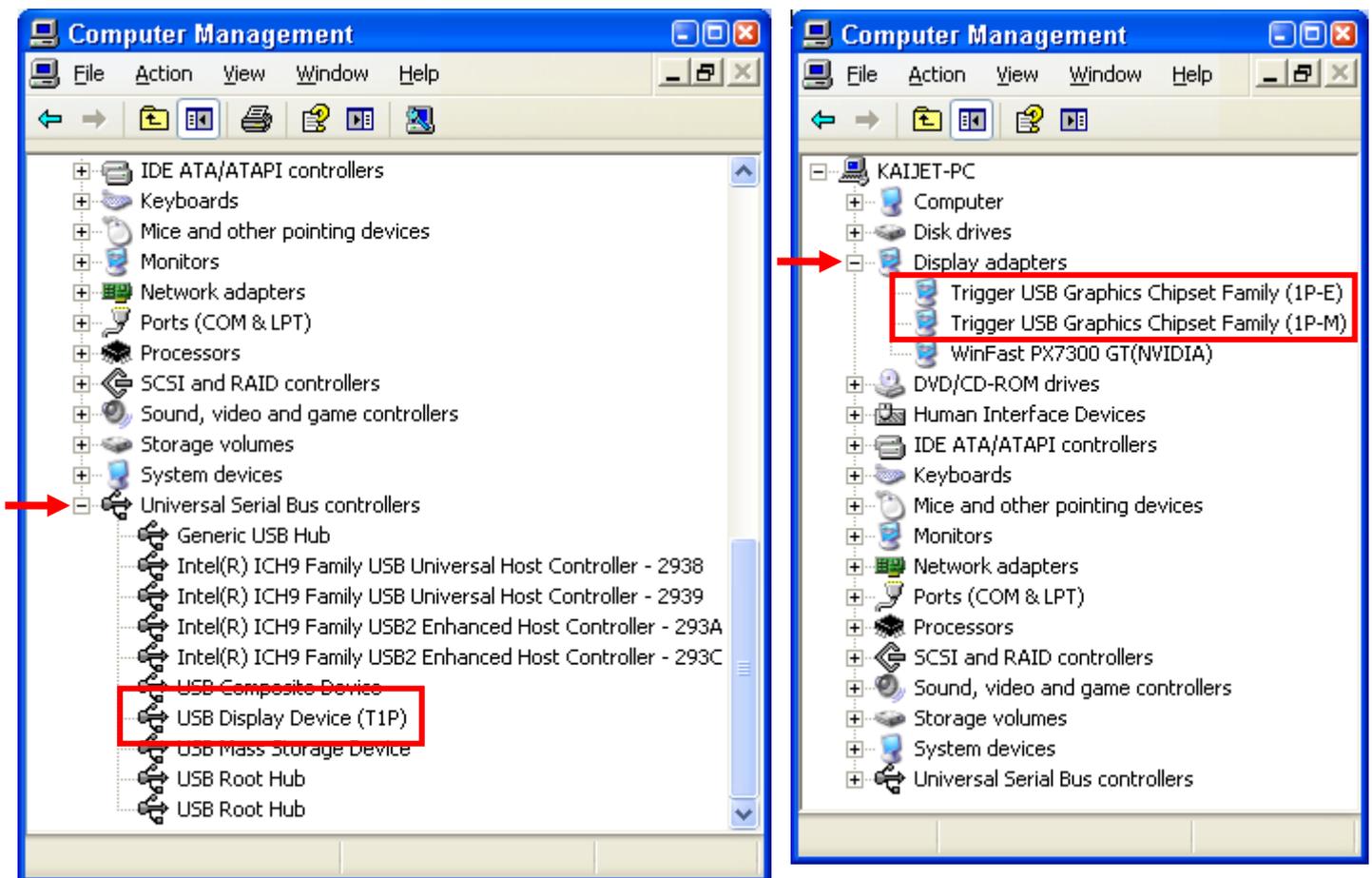
※When **Multiple USB Graphics adapter** Installed on the Computer should be shown as the picture below, and so on…

For ex. 3 USB Graphics Adapters
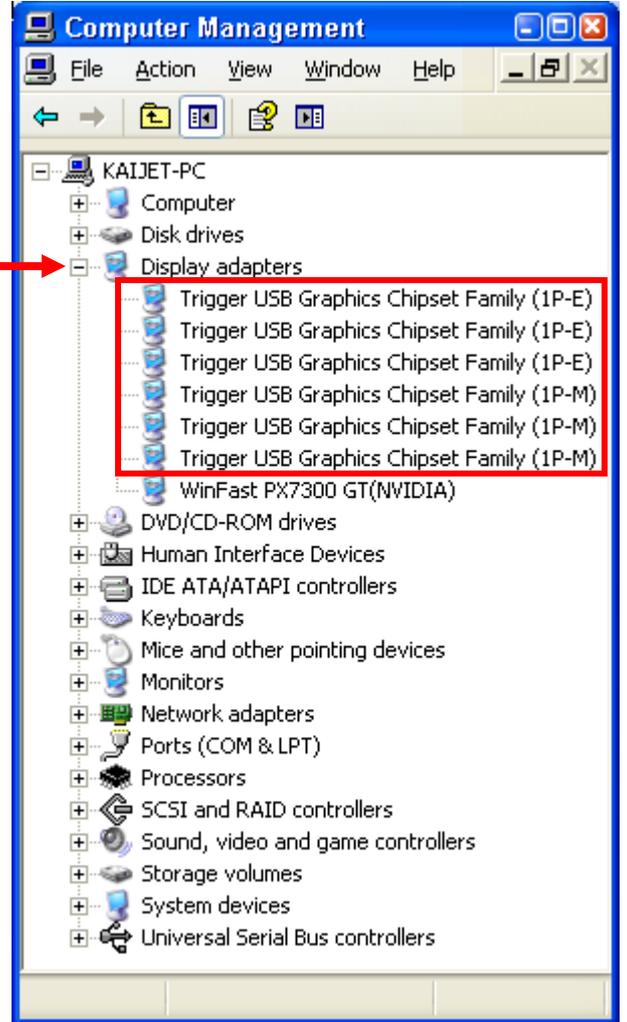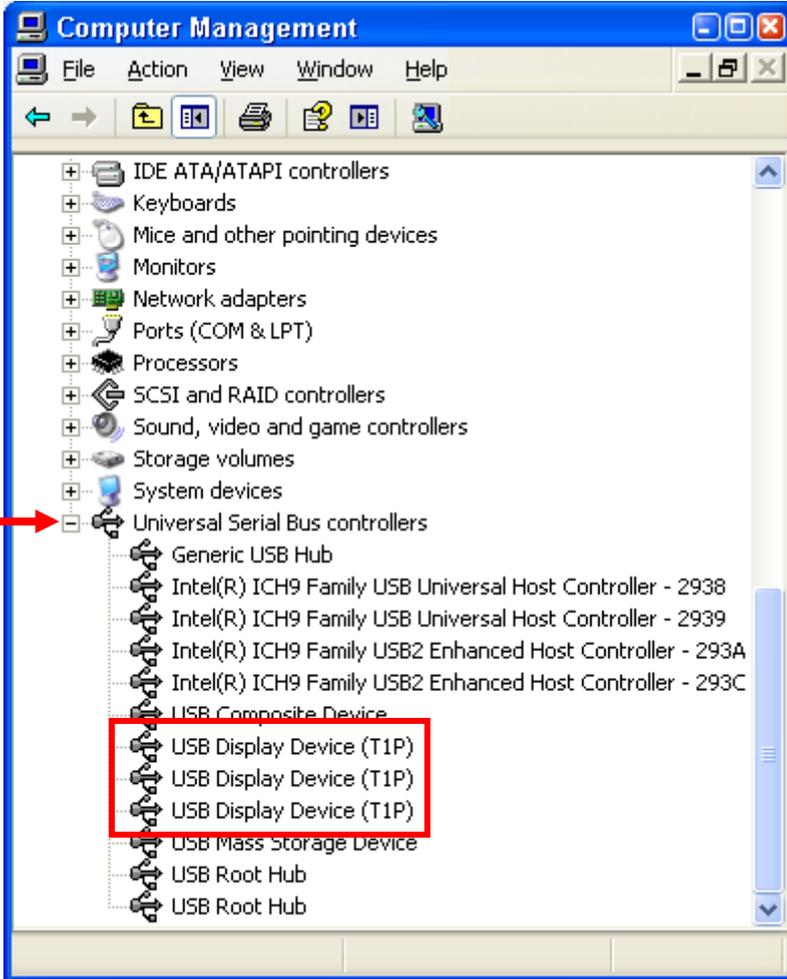
UN-INSTALLATION

※Please make sure the USB 2.0 graphics adapter was removed from your computer before starting the uninstall procedure.

1. Go to "**START**" → "**Control Panel**" → "**Add or Remove Programs**" Select "**USB Graphics Adpater…**" , click ☐ Remove
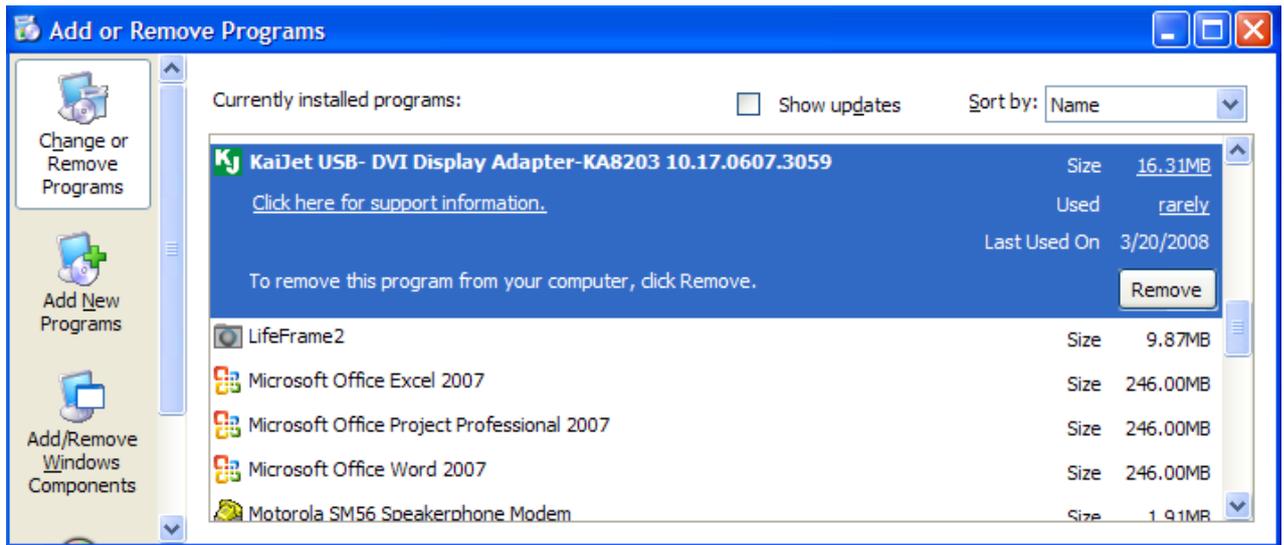
2. Confirm Uninstall , click ☐ OK to continue.
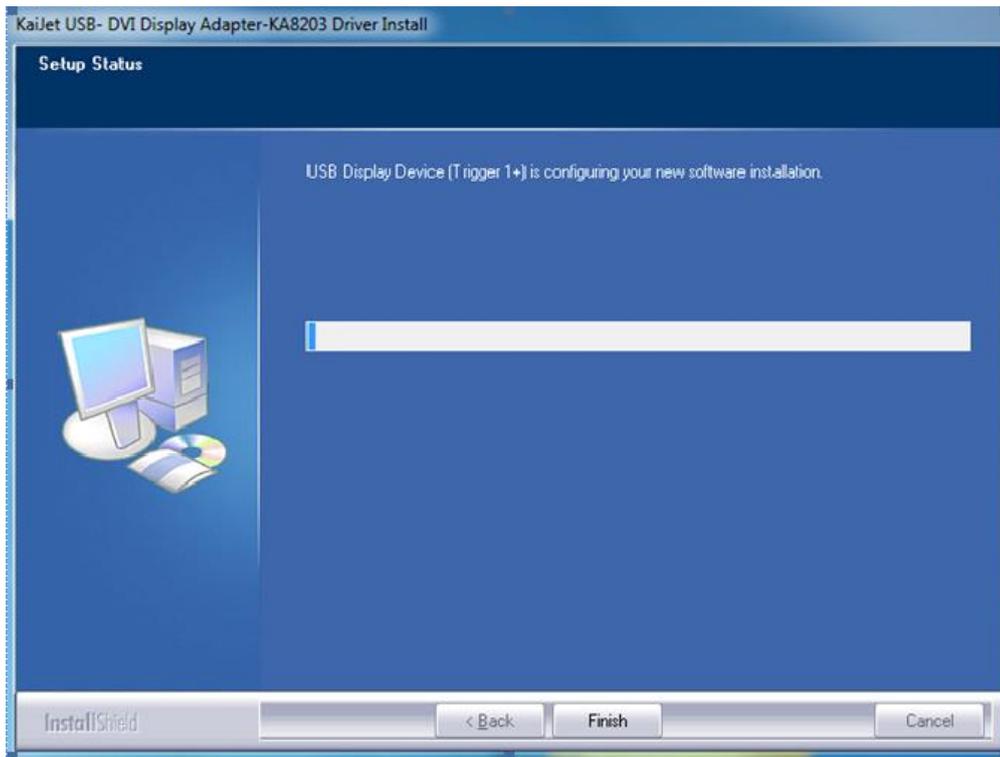
3. Driver un-install proceeding.

4. Driver uninstall completed.
   Select "*Yes, I want to restart my computer now.*"click ⌈ Finish ⌋ to restart, or select "*No, I will restart my computer later.*"
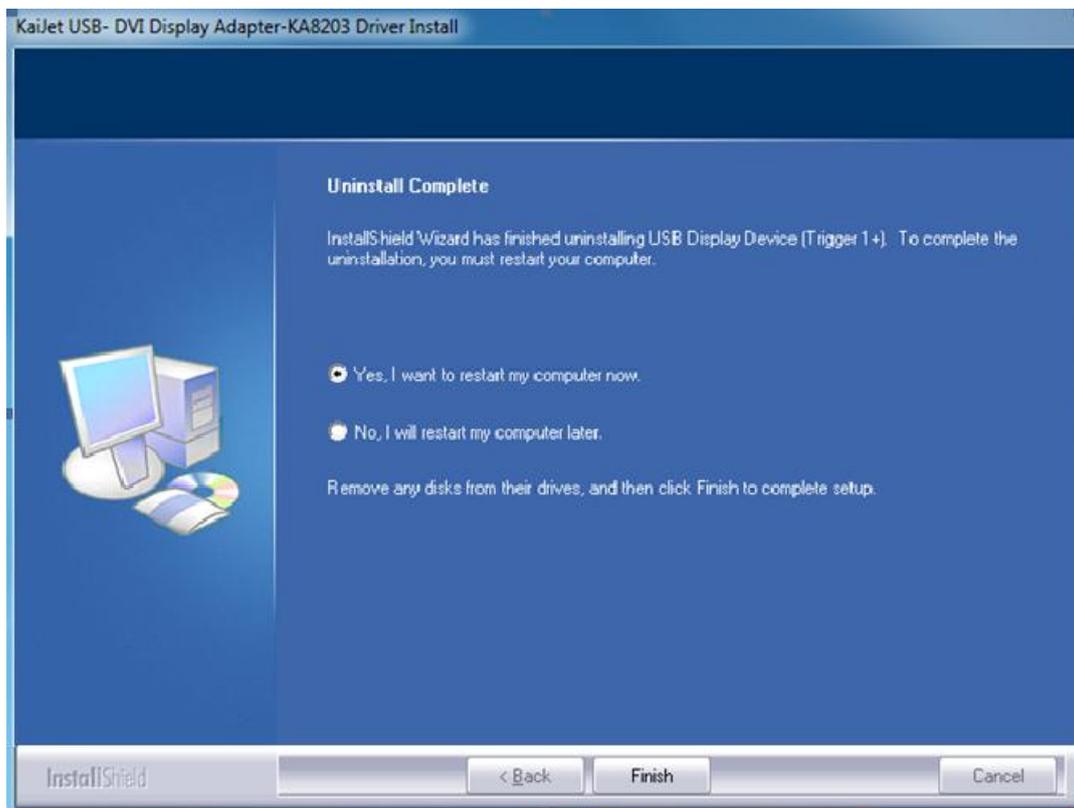
FUNCTIONS INSTRUCTIONS : Windows 2000/XP/Vista (KJ icon Utility)

Display ID

Smart Display Device ID Detection

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.
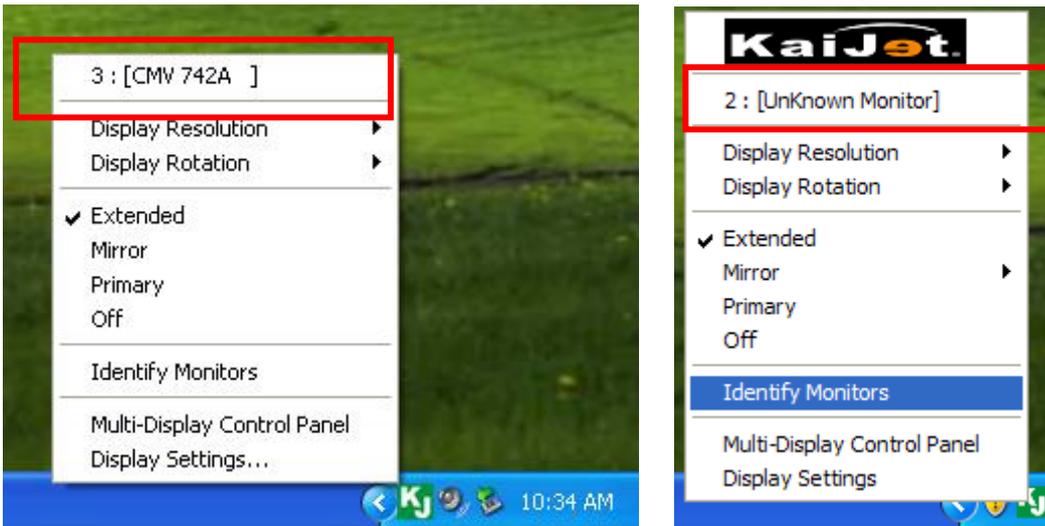
If there is no display device attached to the USB Display Adapter, an "**Unknown Monitor**" ID will be shown. In some cases, the attached display device does not support EDID, the ID will also defined as "**Unknown Monitor**".

Display Resolution

Default resolution: 1024*768*32 bit
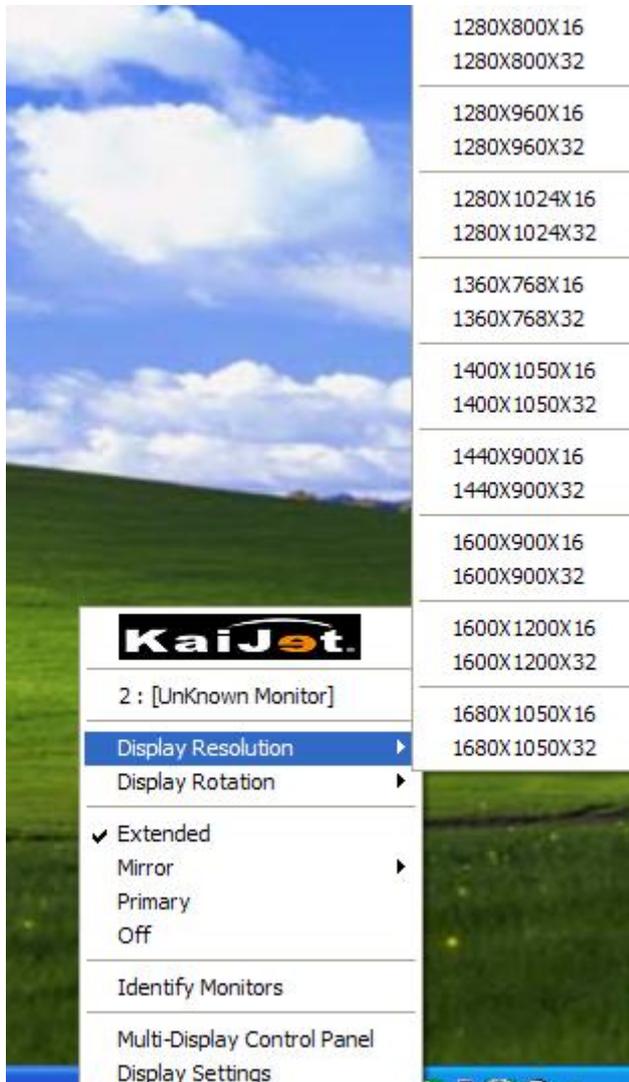
The resolution list will be shown when moving the cursor on **Display Resolution**, selecting the resolution you want it to be on the display device which connected to USB graphics adapter.

Display Rotation
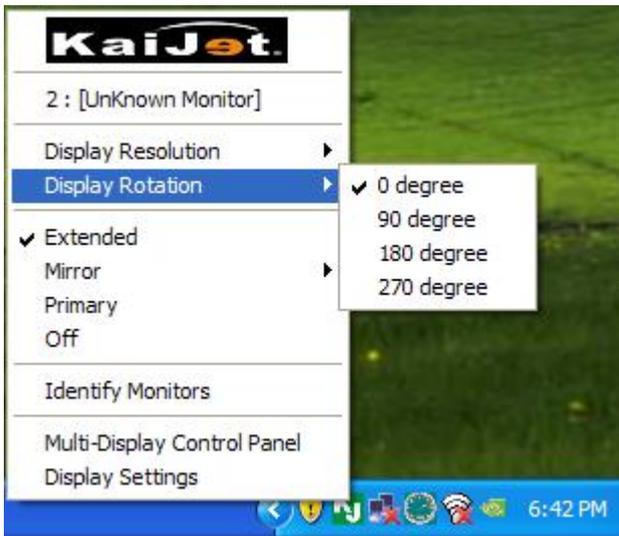
The **Display Rotation** allows you to turn the display device, which connected to USB graphics adapter, to be 4 kinds of degree position.

There are 4 options available:
0 degree/ 90 degrees/180 degrees/ 270 degrees

Display Mode

Extended (Default mode)

When **Extended** selected, the screen of display device, which connected to USB graphics adapter, will become an extend display.
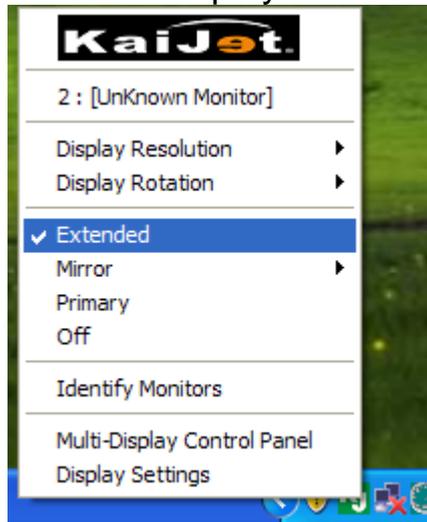
Mirror Mode

When **Mirror** selected, the screen of display device, which connected to USB graphics adapter, will be the same as the main display, and Display Rotation will be disabled automatically.

You can select either " Horizonal Filp", or " Vertical Flip".

Primary Mode

When **Primary** selected, the display device, which connected to USB graphics adapter, will become the main display, the display of the internal graphics card will automatically switch to be the extended display and act as an extension desktop.
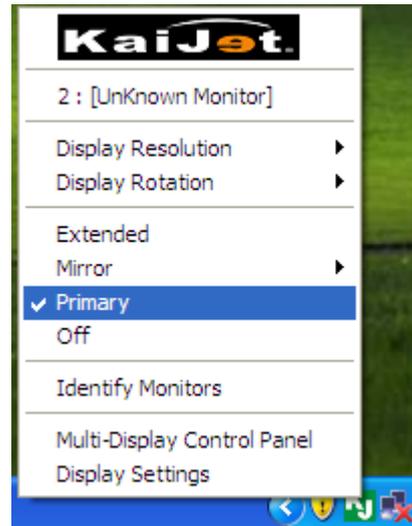
OFF

When **Off** selected, it will be disable the display of the USB graphics adapter.
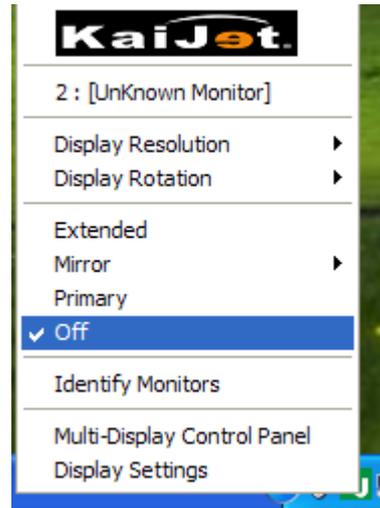
Identify Monitors
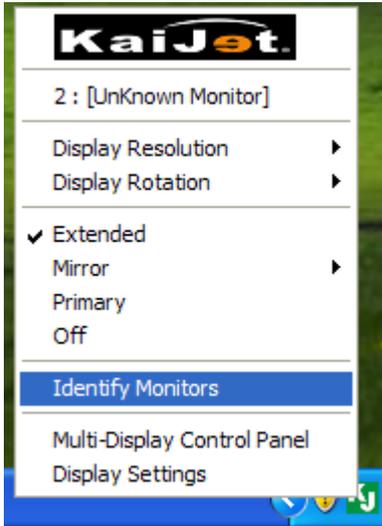
When **Identify Monitors** selected, a serial number will be shown at the upper right corner of attached display devices.

It helps you to know the serial number of each display, when using Hotkey function.

Multi-Display Control Panel
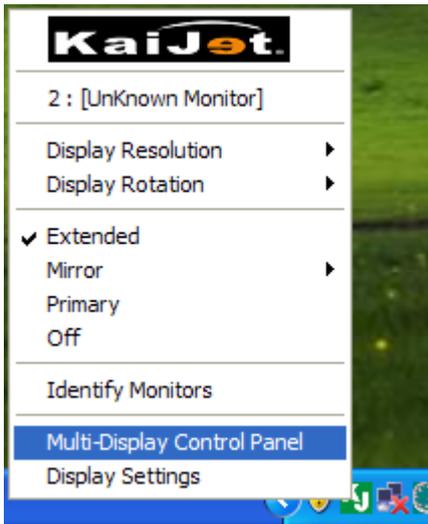
When **Multi-Display Control Panel** selected, the window of Multi-Display Control Panel will pop-up to enable the modification of the hotkeys.
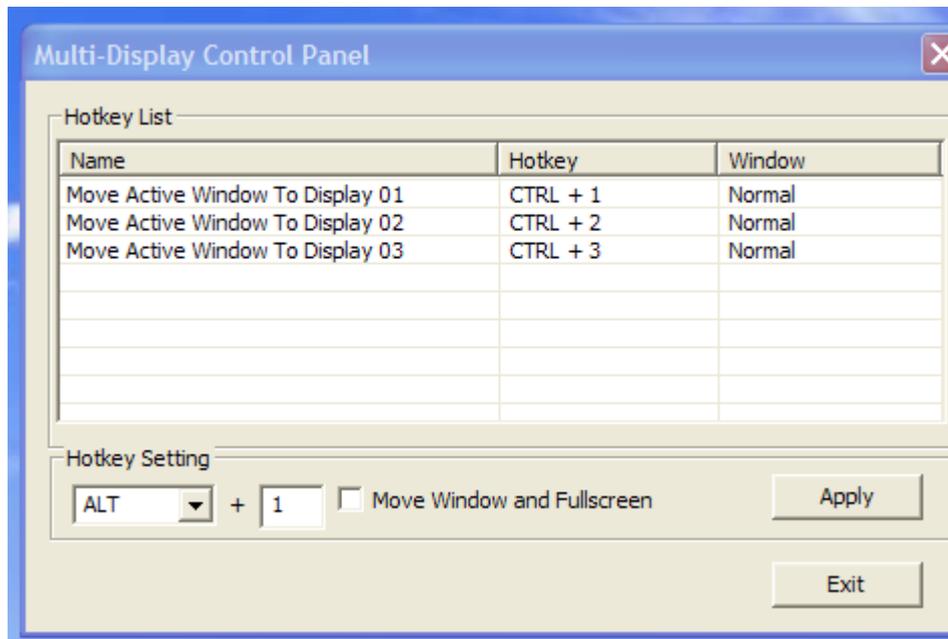
※**Using Hotkey**

Default setting is ┌ **Ctrl** ┐ **+** ┌ **Display No.** ┐

Click the window you want to move at task bar or itself become active, and then press Hotkey.

※**Setting Hotkey**

For example: Move window to Display03, and automatically enlarge it to full screen.

Choose "**Move Active Window to Display03**", check "**Move Window and Fullscreen**", and click ┌ Apply ┐ to make it effect.

FUNCTIONS INSTRUCTIONS：Window 7

DISPLAY ID

Window 7 OS supports VESA defined DDC/EDID，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 Monitor**" ID will be shown. In some cases, the attached display device does not support EDID, the ID will also defined as "**Unknown Monitor**".
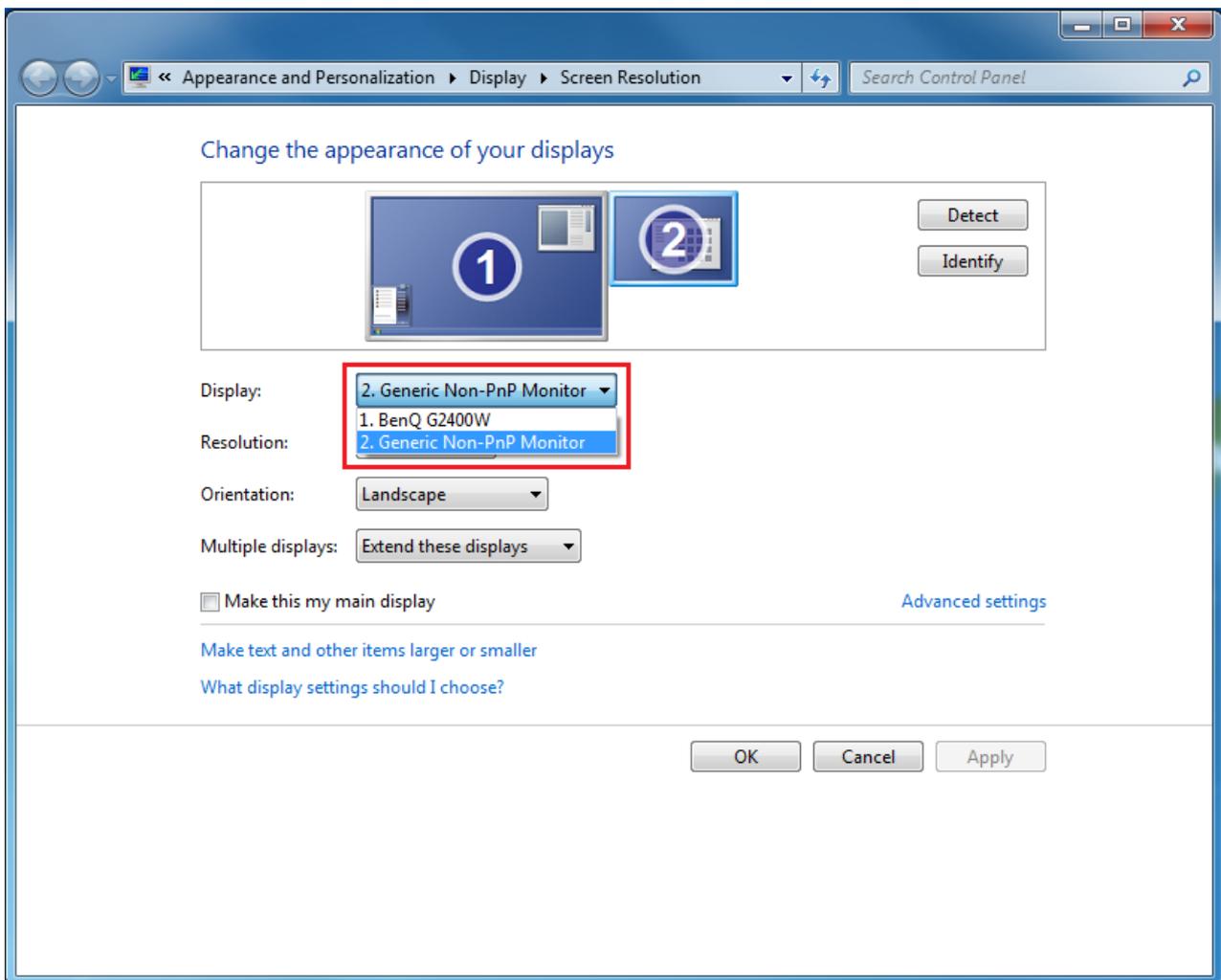
DISPLAY RESOLUTION

The resolution list will be shown when moving the cursor on **Display Resolution**, selecting the resolution you want it to be on the display device which connected to USB graphics adapter.

Default resolution: 1024*768*32 bit
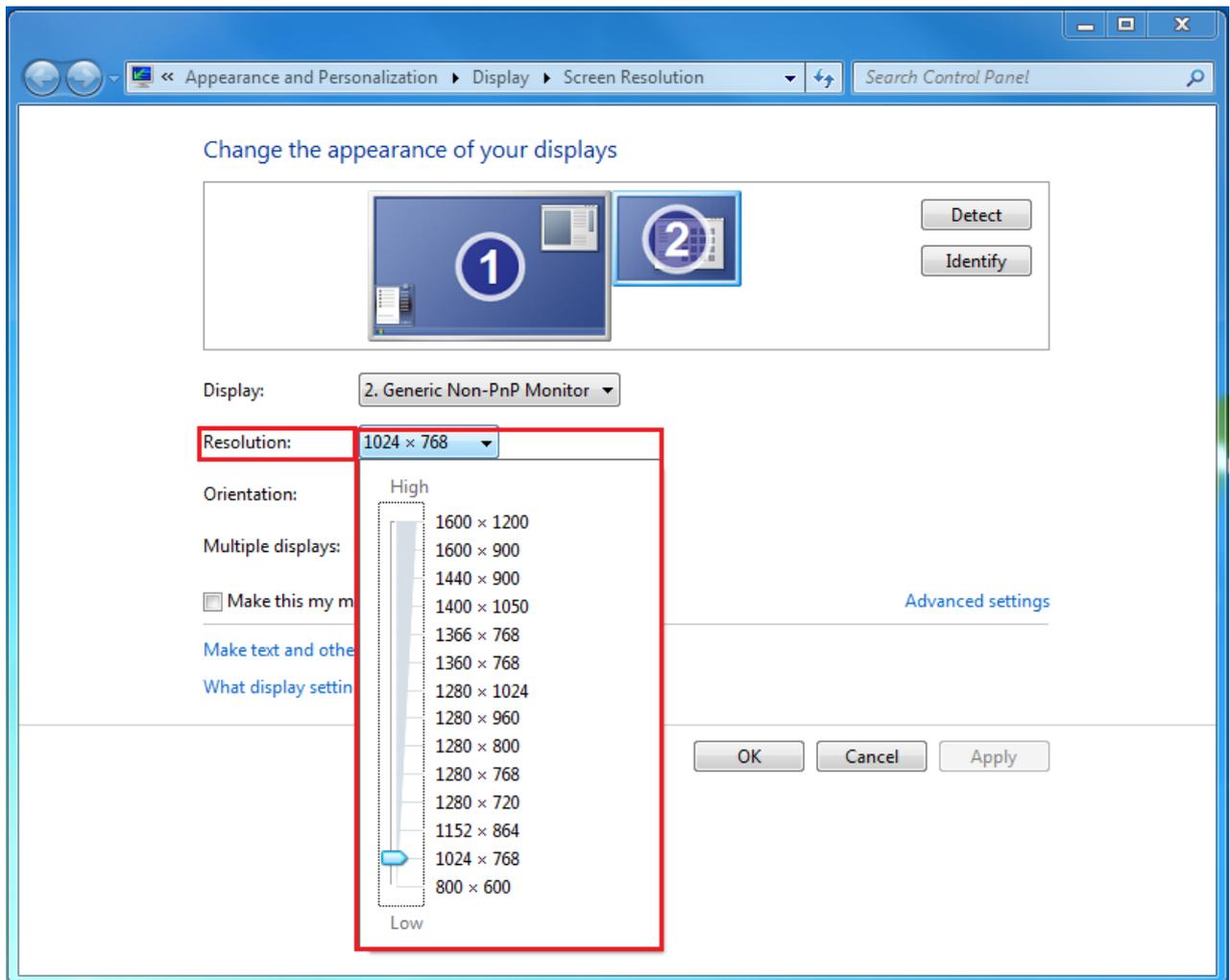
DISPLAY ORIENTATION

The **Orientation** allows you to turn the display device, which connected to USB graphics adapter
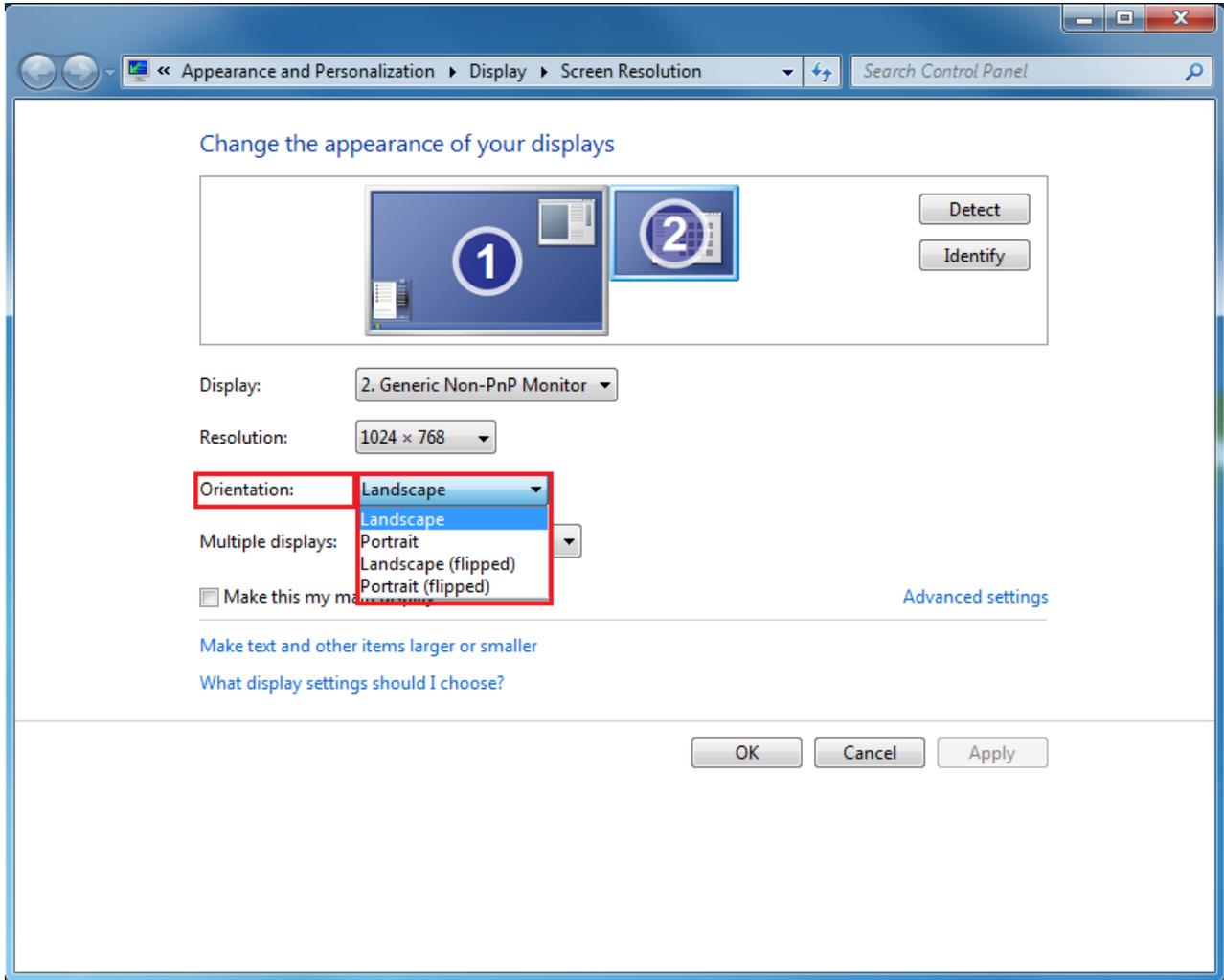
DISPLAY MODE

◆ **Extended**

Click "the # of the display" first and Select "Extend these displays" and click"Apply"
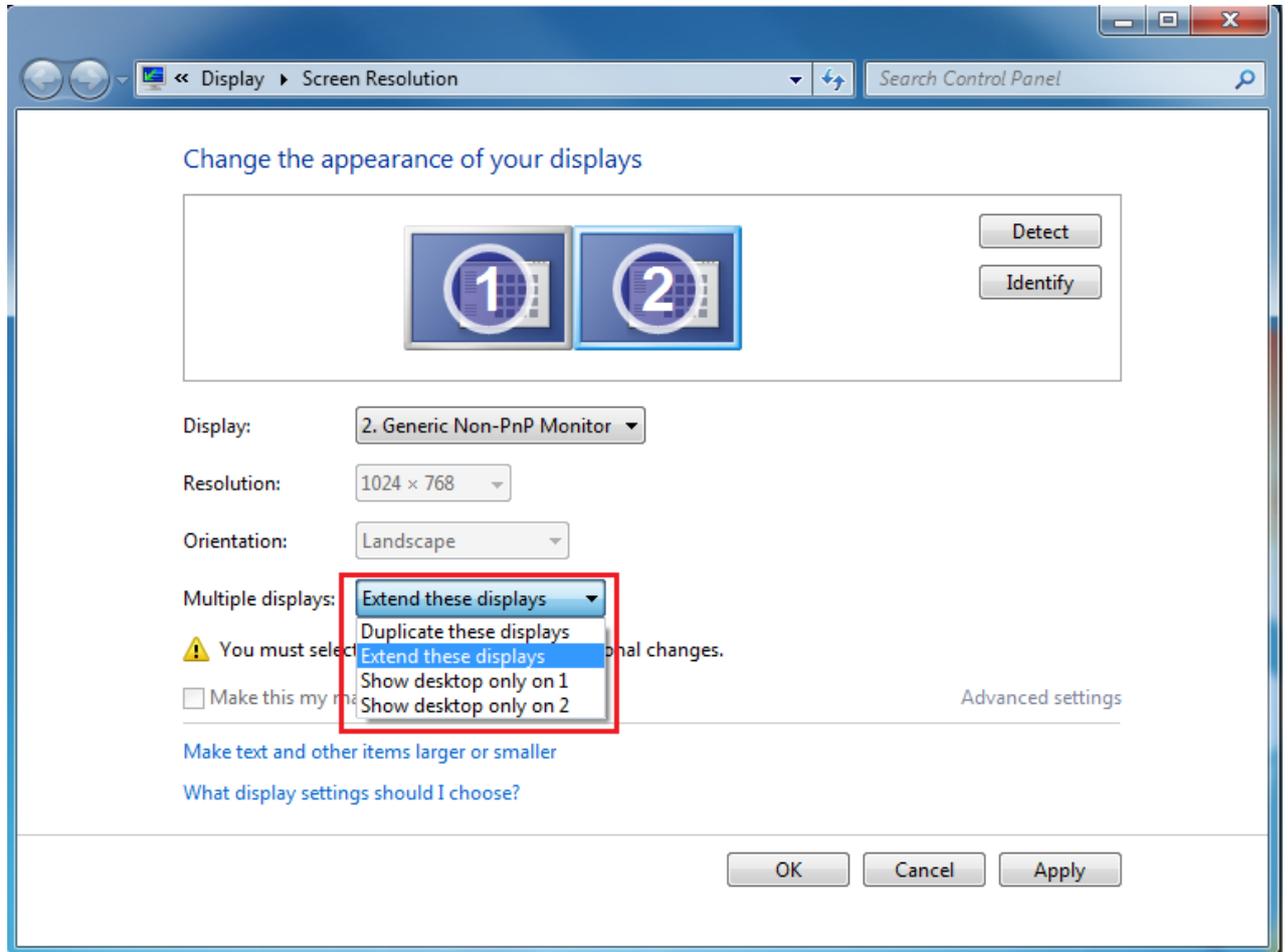
◆   **Mirror- Duplicate**

Click the # of the display first and Select "Duplicate these displays" and click "Apply"
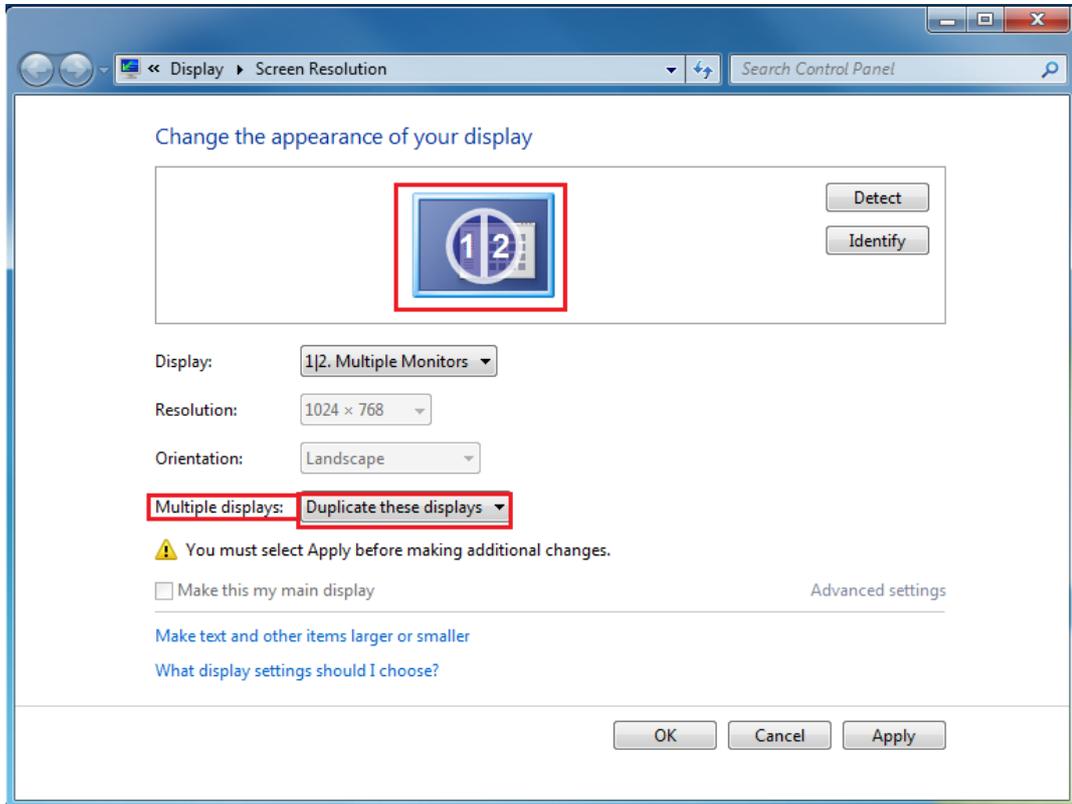
◆ **Primary**

Drug the display to where you would like it to locate.
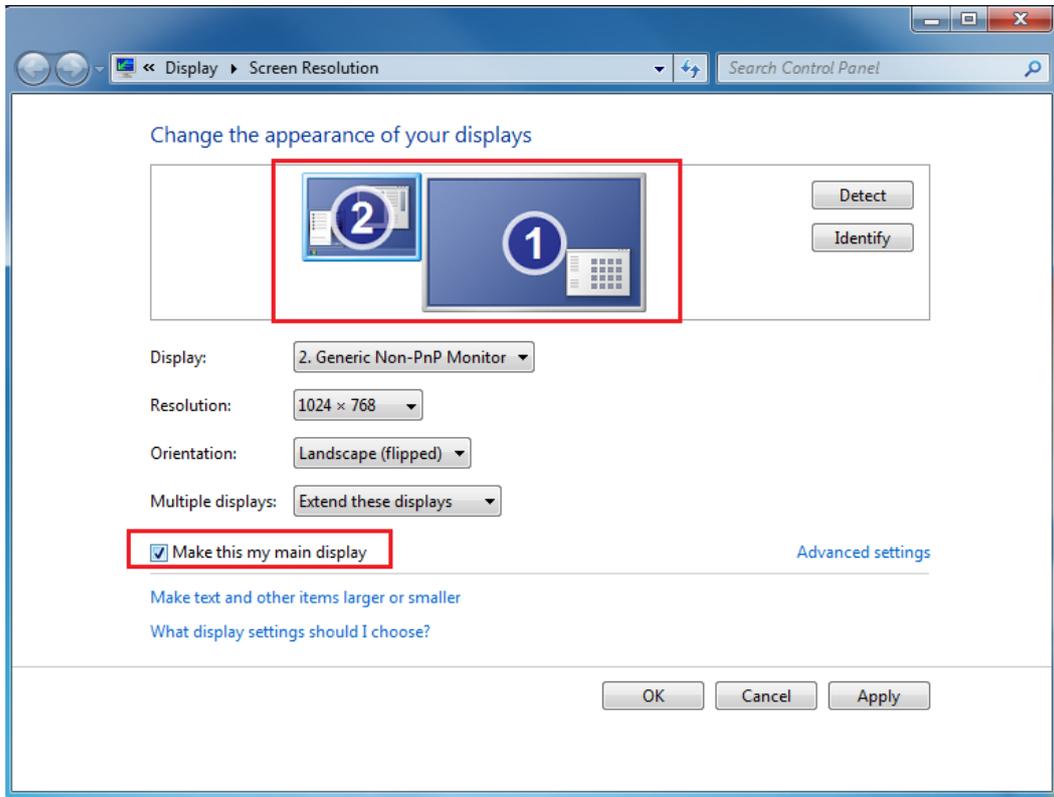
◆ **OFF**

Select one display to be off

Select " Show desktop only on 1" , the 2 display will be off

Select "Show desktop only on 2" , the 1 display will be off
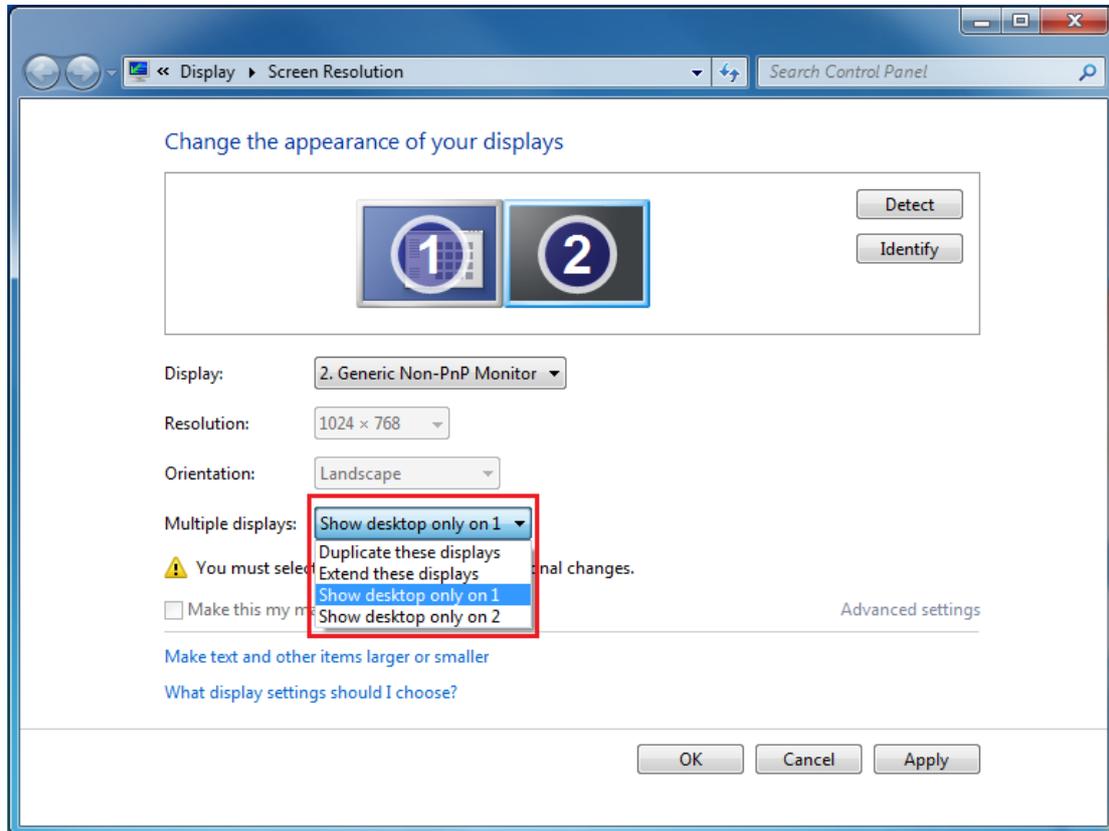
IDENTIFY MONITORS
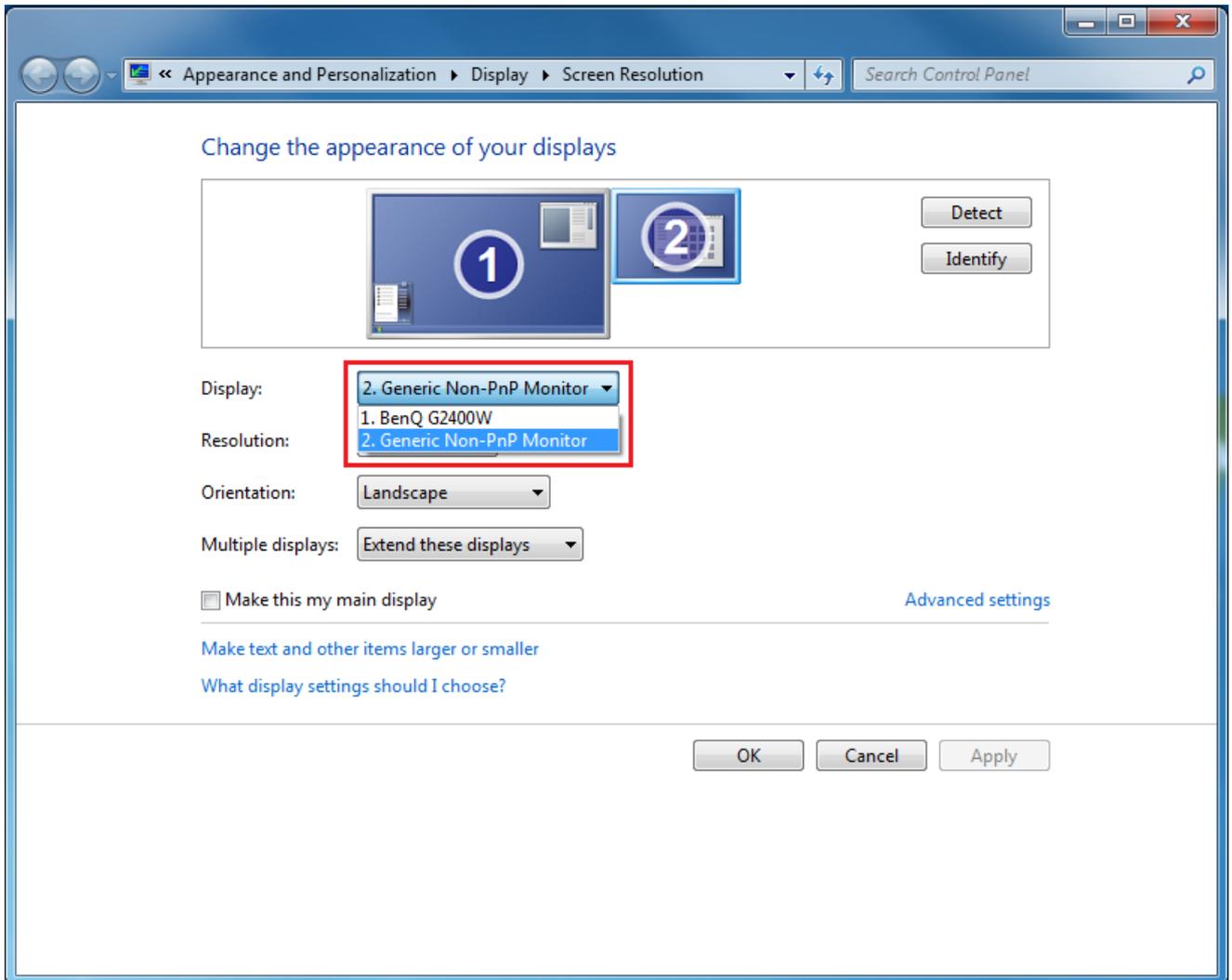
Frequency Asked Questions

Q：Why can't I choose the Primary Mode of the USB graphics adapter?

A：The utilities of some display devices override other display devices from being set as main display device. Please check the toolbar in the lower right corner of your desktop, if the program of another display device is already running (usually the other display device's utility icon will be showed together with USB graphics adapter's icon among the icons of the toolbar in the lower right corner), please disable the display device utility before you use the Primary mode of the USB graphics adapter.

Q：When I choose the Primary mode of the USB graphics adapter, why is my screen turned off?

A：When the USB graphics adapter turns on the Primary mode, some Intel-chipset based motherboards or display device systems will turn off the original screen, please manually turn the screen back on.

Q：Why cannot my DVD-player software run on the second   (or third) extended desktop?

A：Some DVD-player software does not support second or third extended desktop playing well, you will experience only hearing sound and seeing no image. Moreover, at the time of writing, except Media Player Classic, most media playing software cannot play DVD content in Windows Vista.

*The list of compatible DVD player software is shown on the webpage of product requirement and will be updated continually.

Q：Why can't I see what the video is playing when I move the media player window to the extended desktop?

A：It might be because some part of the media player window is still not moved onto the other desktop, please make sure that you have moved the entire media player window all the way across to the other desktop.

Q：Why can't my mouse move over to the extended desktop on the right hand side when I use the extended mode?

A：Please check your display settings. If your second display equipment is on the right hand side of the first one, please make sure that the opposite

position of the extended desktop corresponds with the actual screen arrangement; the second extended desktop should be placed on the right hand side of the original desktop. You can adjust the opposite position of the extended desktop in the display settings to correspond with the actual screen arrangement at any time.

Q：Why is there a horizontal disturbance on the screen?

A：This is because of the screen refresh frequency is too low. Please go to Windows display settings and make appropriate changes on the display settings. Please do not set the frequency over the limit that your display device can support, it might damage your display device. You can also try to use automatic adjustment or power on your display device again.

Q：Does Direct 3D work with the USB graphics adapter?

A：USB graphics adapter does not support Direct 3D at the moment, you are welcome to visit our website to check the driver updates.
http://www.kaijet.com/eng/support0.php.
If your application needs this function, please run it via the connection of the main display device.

Q：Can the USB graphics adapter be used in Windows Server operating system?

A：At the moment, the drivers of USB graphics adapter are only compatible with the 32/64 bits operating system but the Server family; you are welcome to visit our website to check the driver updates.
http://www.kaijet.com/eng/support0.php

Q：After driver installed, the color depth of my original graphics card became only 4 bit?

A：Please try to remove the USB graphics adapter driver, and upgrade both the driver of your original graphics card and USB graphics adapter to the latest version.
If the situation stills the same, please check the RAM capacity of your system.

Trouble Shooting

If you have any question in use, please follow and check the instruction below, any further assistance needed, please visit our website or call
+886-2-82265058

Known Issues

- Windows Vista Aero mode support will be available at MP version driver update (WDDM).
  - ■ WDDM driver update is also aimed to resolve most of video playback compatibility issue under Windows Vista.
- Direct 3D is not supported under XP.   It would be supported under Vista Aero mode.

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: http://www.free-codecs.com/download/K_Lite_Codec_Pack.htm

- 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: http://www.videolan.org/vlc/

   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" → "Add or Remove Programs" to check the program: USB Display Device (Trigger 1+) 9.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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