

# GRAND MULTI VIEW

USB to VGA/ HDMI Monitor

## User's Manual



ISSUE: 2010/03/01

### FCC

<b>DECLARATION OF CONFORMITY</b> Per FCC Part 2 Section 2. 1077(a)	
	
The following equipment:	
Product Name	: GRAND MULTI VIEW
Trade Name	: GRANDTEC ELECTRONIC CORP.
Model Number	: P498
It's herewith confirmed to comply with the requirements of FCC Part 15 Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.	
The result of electromagnetic emission has been evaluated by QuieTek EMC laboratory (NVLAP Lab. Code : 200533-0 ) and showed in the test report. ( Report No. : 085280R-ITUSP01V02 )	
It is understood that each unit marketed is identical to the device as tested, and any changes to the device that could adversely affect the emission characteristics will require retest.	

### CE

 <b>Declaration of Conformity</b>	
The following product is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive (2004/108/EC). The listed standards as below were applied:	
The following Equipment:	
Product	: GRAND MULTI VIEW
Model Number	: P498
Trade Name	: GRANDTEC
This product is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive (2004/108/EC). For the evaluation regarding EMC, the following standards were applied:	
<b>RFI Emission:</b>	
EN 55022:1998+A1:2000+A2:2003 Class B	: Product family standard
EN 61000-3-2:2000+A2:2005 Class A	: Limits for harmonic current emission
EN 61000-3-3:1995+A1:2001	: Limitation of voltage fluctuation and flicker in low-voltage supply system
<b>Immunity:</b>	
EN 55024:1998+A1:2001+A2:2003	: Product family standard

## INDEX

1. Package Contents.....	1
2. Introduction.....	1
3. System Requirement.....	1
4. Product Features.....	2
5. Hardware Overview.....	2
6. Installation.....	3
6.1 Install the Driver on Windows.....	3
6.2 Install the Driver on MAC OS.....	3
6.3 Hardware Installation.....	4
7. Uninstall.....	5
7.1 Uninstall the Driver on Windows XP.....	5
7.2 Uninstall the Driver on Windows Vista.....	5
7.3 Uninstall the Driver on Windows 7.....	6
7.4 Uninstall the Driver on MAC OS.....	6
8. Using the Multi View.....	7
8.1 Windows XP & Vista.....	7
8.2 Windows 7.....	11
8.3 MAC OS.....	13
9. Troubleshooting.....	16

## 1. Package Contents

This package contains the following items :



Multi view



USB Cable



Driver CD

- Multi View
- USB Cable
- Driver CD (Driver & User Manual)

## 2. Introduction

The Grand Multi View enables you to add an additional monitor to your desktop or laptop through USB 2.0 without VGA card. With the unit, you can extend your display across two monitors, you can surf website on one monitor and word processing on the other.

What's more, the mirror function allows you to display the same desktop image on two monitors. The Multi View supports VGA and HDMI outputs, and the resolution supports up to 1600 x 1200 or 1680 x 1050 (32bit).

The Grand Multi View can be used for education (synchronous teaching-learning), and also can be used by art designer, architect or engineer (use second display for pallets or tools). The Multi View is designed to enhance work efficiency with fewer errors.

## 3. System Requirements

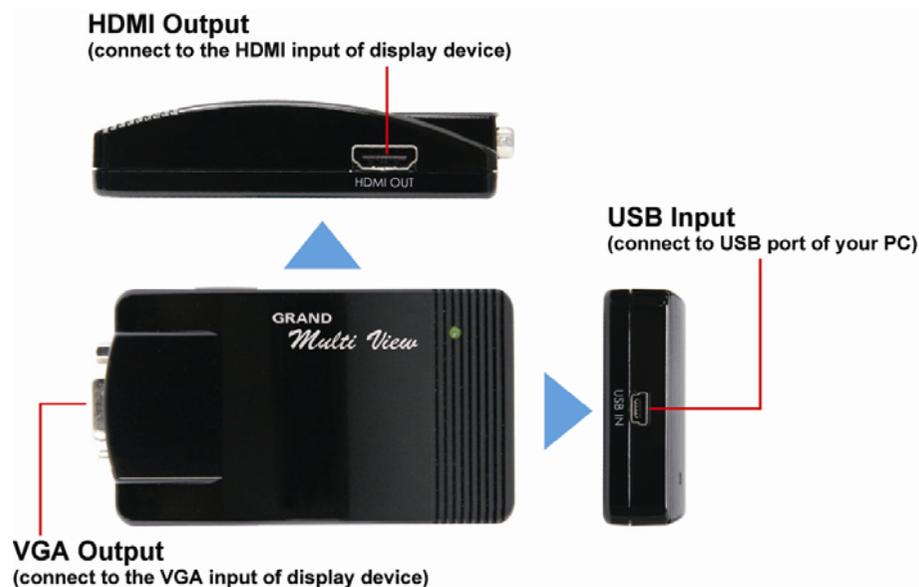
- Operating System:
  - Microsoft Windows 7 (32bit or 64bit)/ Vista (32bit or 64bit)/ XP (32bit).
  - Mac OS X Tiger 10.4.11/ Mac OS X Leopard 10.5.5 or above
- Processor: Intel Pentium Dual Core 1.8 GHz or above
- 1GB RAM or above
- Available USB 2.0 port
- 30Mb of available disk space

**NOTE:** When connecting more Multi View to a computer, a system with higher CPU performance is recommend.

## 4. Product Features

- Compatible with **Windows 7 (32bit or 64bit)/ Vista (32bit or 64bit)** and **XP (32bit)**.
- **Completely new architecture to support Vista Aero (32bit)**.
- Compatible with **Mac OS X Tiger 10.4.11/ Mac OS X Leopard 10.5.5** or above.
- Easily connect monitors to one PC through USB 2.0.
  - Windows OS: Up to 6 monitors.
  - Mac OS: Up to 4 monitors.
- Supports VGA and HDMI outputs simultaneously.
- Supports resolution up to 1600 x 1200 or 1680 x 1050 (32 bit true color).
- No external power supply needed (power is supplied from the PC through USB connection).
- Dimensions: 100(L) x 55(W) x 33(H) mm.
- Bundled Software:
  - Supports Distinct, Extended and Mirror Modes
  - Supports screen resolution and color quality adjustment in extended mode.
  - Allows you to rotate the screen on the add-on monitor by 90, 180 or 270 degrees
  - Supports online update automatically.
  - The software has been awarded Microsoft Windows Certification.

## 5. Hardware Overview



## 6. Installation

### 6.1 Install the Driver on Windows

**Step 1:** Insert the provided driver CD into your CD-ROM driver. Execute the **Setup.exe** file. <Driver> → <Windows>

**Step 2:** A dialog box should pop up to prompt you to choose desired installing language. After choosing your language, click on **I Accept** to start installation automatically.



**Step 3:** After finishing the installation, a dialog box should pop up to inform you to restart your PC for the installation to completed and usable.

### 6.2 Install the Driver on MAC OS

**Step 1:** Insert the provided driver CD into your CD-ROM driver. Mount the **Multi View Installer 1.1.dmg** file. <Driver> → <MAC OS>



**Step 2:** Double click the **DisplayLink Software Installer** icon to run the installer.



**Step 3:** Click through the standard Mac Installer, accepting the EULA and allowing the system to reboot.

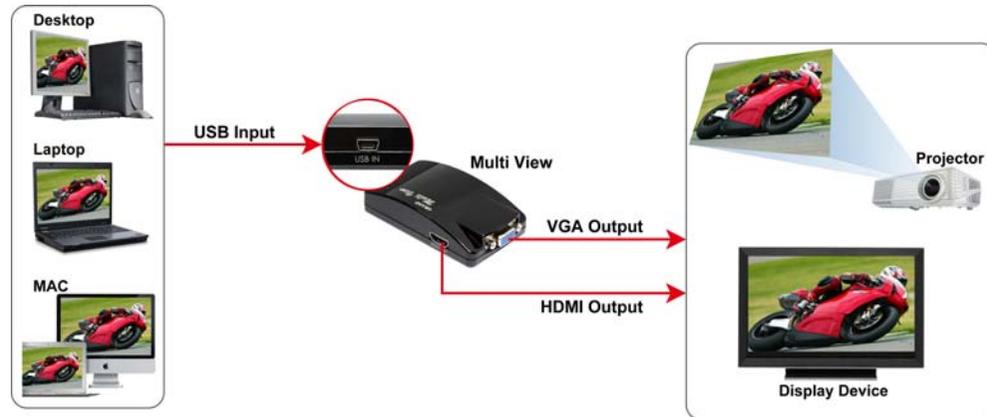
**NOTE:** Mac OS X support can be found at <http://www.displaylink.com/mac/>

## 6.3 Hardware Installation

After finishing the software installation, please follow the steps below to complete the hardware installation.

**Step 1:** Use the VGA or HDMI cable to connect your display device such as projector or display device that supports VGA or HDMI input.

**Step 2:** Connect the Multi View to an USB 2.0 port of your computer by using the provided USB cable.

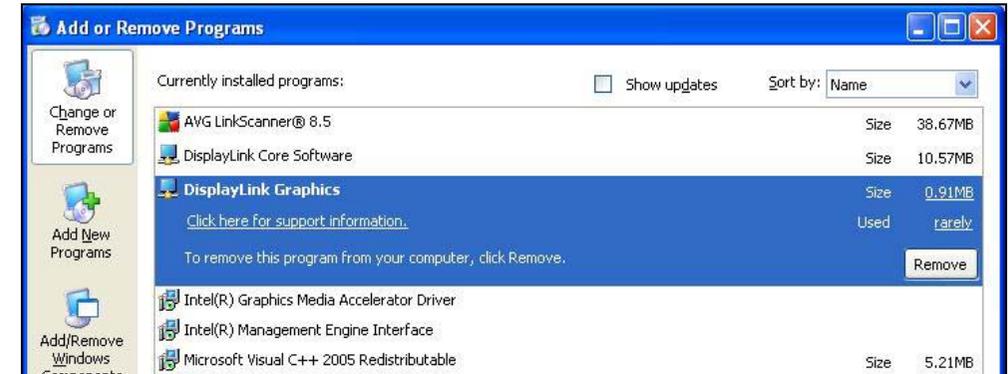


## 7. Uninstall

### 7.1 Uninstall the Driver on Windows XP

**Step 1:** Open the Control Panel: **Start** → **Control Panel** → **Add or Remove Programs**.

**Step 2:** Select the **DisplayLink Graphics** and click **Remove** to uninstall.



### 7.2 Uninstall the Driver on Windows Vista

**Step 1:** Open the Control Panel: **Start** → **Control Panel** → **Programs and Features**.

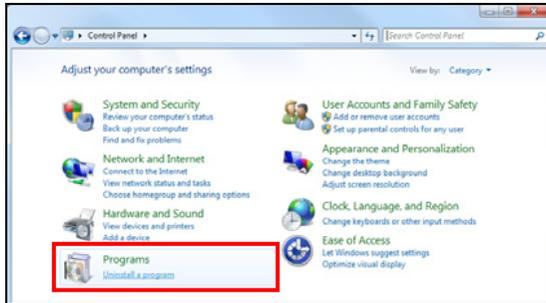
**Step 2:** Select the **DisplayLink Graphics** and click on **Uninstall**.



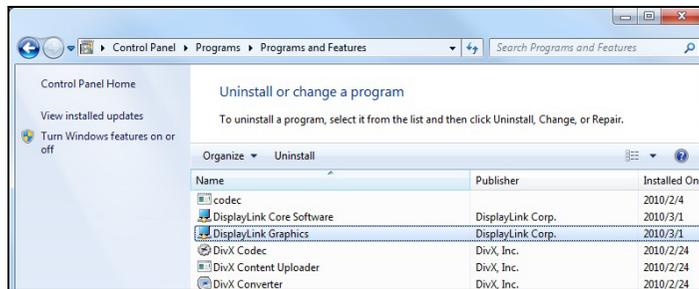
**Step 3:** Click **Yes** to uninstall it.

## 7.3 Uninstall the Driver on Windows 7

**Step 1:** Open the Control Panel: **Start** → **Control Panel** → **Programs**



**Step 2:** Double click on the **DisplayLink Graphics**, then a windows confirmation dialog will open.



**Step 3:** Click **Yes** to uninstall it.

## 7.4 Uninstall the Driver on MAC OS

**Step 1:** Mount the **Multi View Installer 1.1.dmg** file on the provided CD.

**Step 2:** Click **DisplayLink Software Uninstaller**.



**Step 3:** Click through standard Mac uninstaller.

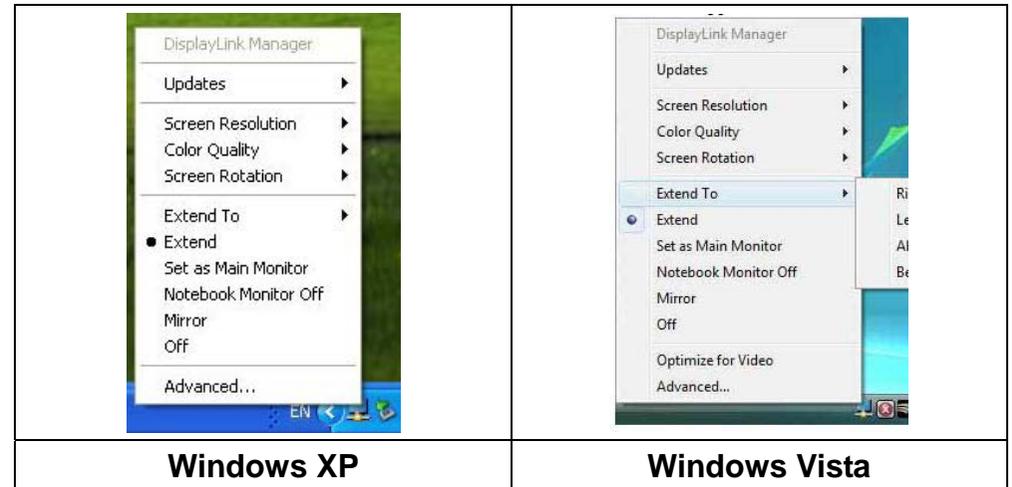
**Step 4:** After reboot, the USB Video driver will have been removed.

## 8. Using the Multi View

### 8.1 Windows XP & Vista

#### 8.1.1 Using the Multi View DisplayLink Manager

When devices are attached, an icon  appears in the task bar. Right-clicking the icon will bring out the DisplayLink manager menu.

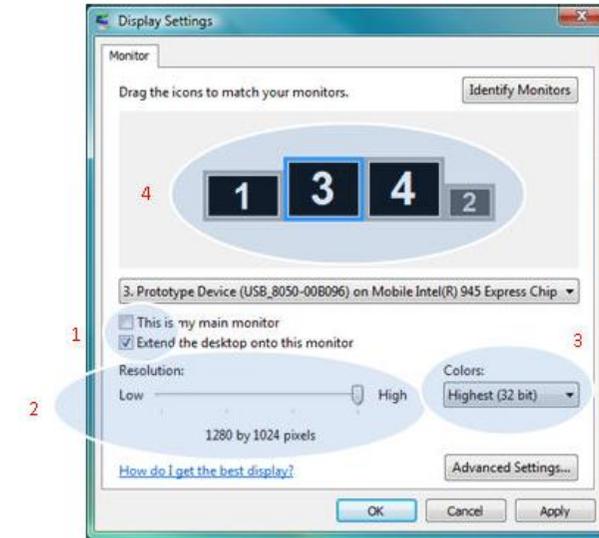


- Select an option from the menu, using the following table for the options available.

Menu Option	Sub-menu Option	Description
Updates	Check Now	Connects to the Update Server to check for newer driver versions and downloads them, if available.
	Configure	Opens the Update Options window where you can configure automatic updates.
Screen Resolution		Displays a list of available resolutions.
Color Quality	Medium (16-bit)	Changes the color depth of the extending display to 16bit.
	Highest (32-bit)	Changes the color depth of the extending display to 32bit.
Screen Rotation	Normal	No rotation is applied to the DisplayLink display.
	Rotated Left	Rotates the extended or mirrored display by 270 degrees.
	Rotated Right	Rotates the extended or mirrored display by 90 degrees.
	Upside-Down	Rotates the extended or mirrored display by 180 degrees.
Extend To	Right	Extends the display to the right of the main display
	Left	Extends the display to the left of the main display.
	Above	Extends the display above of the main display.
	Below	Extends the display below the main display.
Extend		Extends your desktop onto the secondary display.
Set as Main Monitor		Sets the secondary display as the main display.
Notebook Monitor Off		Switches off the display of an attached notebook and makes the DisplayLink display primary.
Mirror		Copies what is on the main display and reproduces it on the secondary display.
	Off	Switches off the secondary display.
Optimize for Video (Windows Vista & 7 Only)		Configures the secondary display for optimum full screen video performance output. (Note: Text may appear less clear when enabled)
Advanced		Opens the Display Settings window.

### 8.1.2 Windows Display Properties

You can also adjust the resolution, color quality, position and refresh rate from the **Windows Display Properties** dialog box. Select the **Advanced** item from the DisplayLink manager menu to open the Display Settings window.



1. **Extend/ Mirror Function:** Check or uncheck the **Extend the desktop onto this monitor** checkbox to set the Extend or Mirror mode.
2. **Resolution:** Set the screen resolution using the resolution slide bar.
3. **Colors:** Select the color quality from the colors drop-down list.
4. **Position:** Arrange its position with respect to the other monitors on the extended desktop in using the drag area.

### 8.1.3 Using More Multi View

It doesn't need to install driver again as long as you has completed above process of driver installation in advance. All the Multi View will list in the **Display Properties** or the display manager menu.



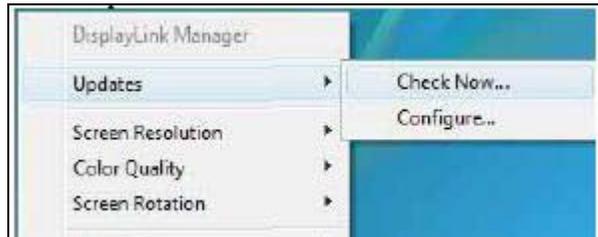
**NOTE:** When connecting more Multi View to a computer, a system with higher CPU performance is recommend.

## 8.1.4 Firmware Update

### Manually Update

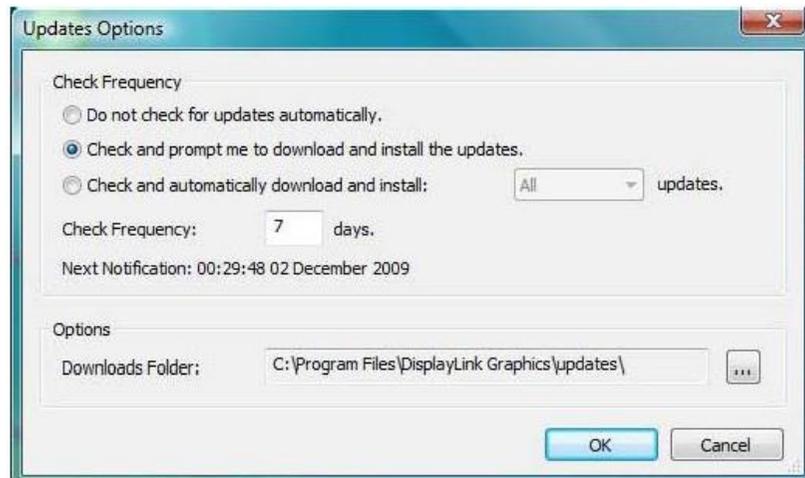
Click the **Updates** → **Check Now...**, and it will check and download the latest firmware immediately..

**NOTE:** Confirm that your computer is already connected to the network.



### Configuring Updates

Click the **Updates** → **Configure...**, the **Updates Options** window will appear as shown below. You can set the update method and frequency in the windows.



## 8.2 Windows 7

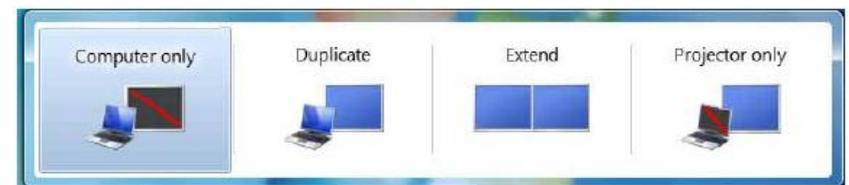
### 8.2.1 Windows Display Properties (WDP)

On Windows 7, you can configure the Multi View from the Windows Display Properties (WDP). WDP provides a simple method to attach, rotate, duplicate or extend screens as well as modify screen resolution.

- **To open WDP:** Right-click on the desktop, then select **Screen Resolution** to open the WDP.
- Set the display options. Refer to the table below for details on each option.

Menu	Sub-menu	Description
Display		Use the drop down list to select a display to be configured.
Resolution		Use the drop down list and use the slider to choose a resolution.
Orientation	Landscape	Sets the display to landscape view.
	Portrait	Sets the display to portrait mode.
	Landscape (flipped)	Sets the display to upside down landscape mode.
	Portrait (flipped)	Sets the display to upside down portrait mode.
Multiple displays	Duplicates these displays	Reproduces the main display on the second display.
	Extend these displays	Extends the main display onto the secondary display.
	Show Desktop only on 1	The desktop appears on the display marked 1. The display marked 2 becomes blank.
	Show Desktop only on 2	The desktop appears on the display marked 2. The display marked 1 becomes blank.

- It is also possible to use Windows Key + P to display a menu (and cycle through it) to switch mode.



## 8.2.2 DisplayLink Manager Menu

- From the taskbar, click the **Show hidden icons** arrow to show available icons.



- Click the DisplayLink icon . A menu appears with several options, as described in the following table.

Menu	Description
Check for updates	Connects to the Windows Update and checks for newer versions and downloads them, if available.
Optimize for Video	Select the option for better movie playback performance on the DisplayLink enabled displays. Only select the option when playing back video content. (Note: Text may appear less clear when enabled)
Advanced	Opens the Windows Display Properties (WDP).

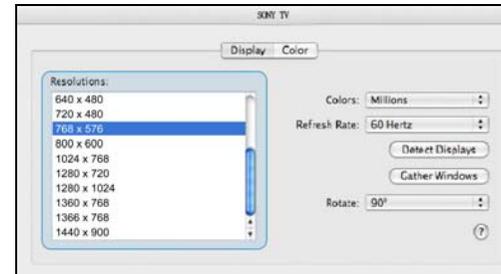
## 8.3 MAC OS

Select **Displays** from the **System Preferences** menu. This will open a Display Preferences window on each of your attached displays allowing you to configure each display as required.



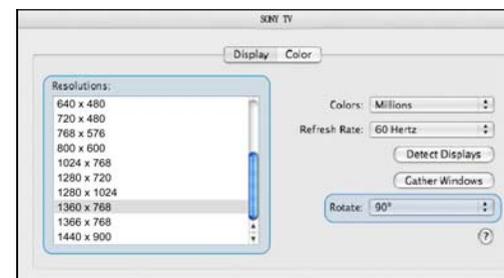
### Setting the Display Resolutions

To change the display's resolution, select an available resolution from the Display Preferences window of the display you wish to change.



### Rotating a Display

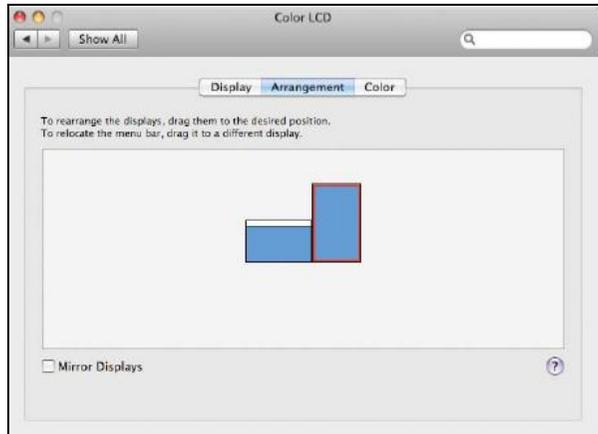
Use the Rotate drop down, and select the appropriate angle of rotation.



### ■ Setting the Position Displays

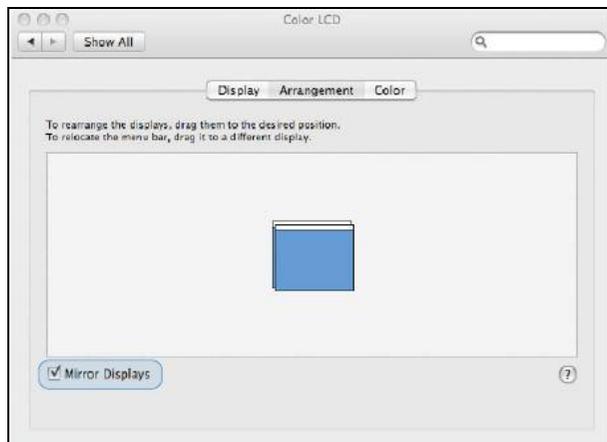
You can arrange your displays so that they match the physical layout of your displays by selecting the **Arrangement** pane within Display Preferences. This ensures that you can easily navigate between all connected displays.

To move the position of a display, click and hold the display you wish to move then drag it to the desired position. The display will be highlighted with a red border whilst you are moving the display to its new position.



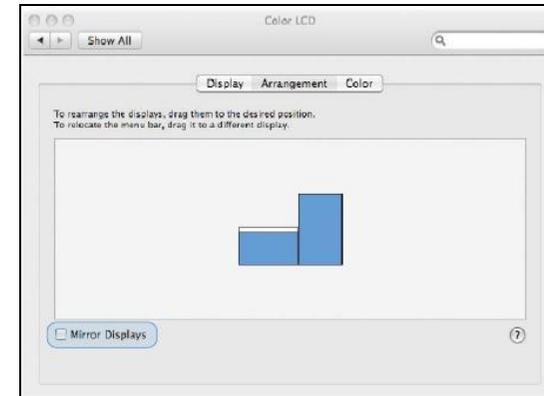
### ■ Setting the Display to Mirror Mode

When in Mirror mode, additional displays will display what is being shown on the primary display. Checking the **Mirror Display** on the **Arrangement** pane enables this feature.



### ■ Setting the Display to Extend

To extend connected displays, make sure that the **Mirror Display** on the **Arrangement** pane is unchecked.



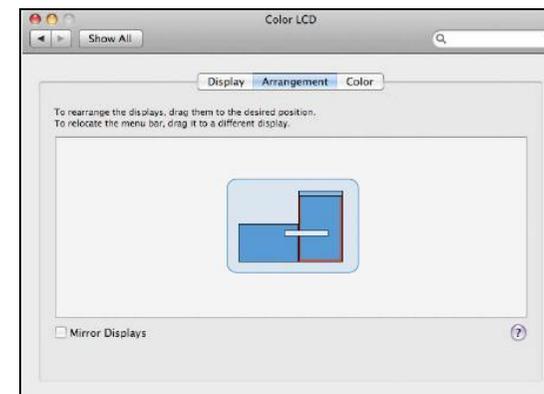
### ■ Using both Extended and Mirrored Displays

To work with both extended and mirrored displays, turn off mirroring then in the **Arrangement** pane press and hold **cmd** and **alt** and drag and drop the display you wish to mirror over the primary display.

Repeat this with each display you wish to mirror, those untouched will remain extending.

### ■ Changing the Main Display

You can change which is the main display by moving the **Menu Bar** between displays. Changing the main display affects where new windows appear and the position of the Dock. The **Menu Bar** can be moved so that is shown on an alternative display. Clicking the white menu bar and dragging it to the desired display will perform this action.



## 9. Troubleshooting

Situation	Check Point
The device driver has been installed, but the Multi View is not working	<ol style="list-style-type: none"><li data-bbox="432 217 1025 284">1. Make sure you restart your computer after the driver installation.</li><li data-bbox="432 296 1025 325">2. Check all the connectors are plugged in correctly.</li><li data-bbox="432 338 1025 405">3. Make sure the USB port that you are using is USB 2.0.</li><li data-bbox="432 418 1025 485">4. Check the additional monitor is connected correctly and the power is on.</li><li data-bbox="432 497 1025 686">5. Make sure the operating system The Multi View is compatible with Windows 7 (32bit or 64bit), Vista (32bit or 64bit), XP (32bit) or Mac OS X Tiger 10.4.11/ Mac OS X Leopard 10.5.5 or above.</li><li data-bbox="432 699 1025 727">6. Try a different USB 2.0 or computer.</li></ol>
DVD player not working when move it over to the extended display	<ol style="list-style-type: none"><li data-bbox="432 740 1025 807">1. Try to open the program in the additional display first before playing the DVD.</li></ol>
The mouse not move pass the right side of the screen as it should on extended desktop	<ol style="list-style-type: none"><li data-bbox="432 861 1025 970">1. Check the display settings and make sure that your display number 2 is on the right side of display number 1.</li></ol>