# DECLARATION OF CONFORMITY Der FCC Part 2 Section 2. 1077(a) Froduct Name : <u>GRAND MULTI VIEW FCC Part 15 Rules.</u> Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device may not cause harmful interference, and (2) This device may not cause harmful 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-ITUSPOIV02 )

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

# **C E** Declaration of Conformity

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	1	GRAND MULTI VIEW
Model Number	1	P498
Trade Name	2	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:

#### RFI Emission:

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
Immunity:	
EN 55024:1998+A1:2001+A2:2003	: Product family standard

# **GRAND MULTI VIEW**

**USB to VGA/ HDMI Monitor** 

# **User's Manual**

(E FC

# 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 (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
- IGB 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



(connect to the VGA input of display device)

# 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>  $\rightarrow$  <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.

DisplayLink	Dis	playLink		DisplayLin
S2.1265.0	English.	9.2.23663.0	English -	5.1.100
SOFTWARE END USER LICENCE AGREEMENT FOR	SOFTWARE END USER LICENCE AGREEMENT F	OR ·	SOFTWARE END USER LICENCE	E AGREEMENT FOR
DESPLAYLINK MIRROR DRIVER and DISPLAYLINK GRAPHICS ADAPTER SOFTWARE	DISPLAYLINK MIRROR DRIVER and DISPLAYLINK GRAPH SOFTWARE	CS ADAPTER	DISPLAYLINK MIRROR DRIVER and DISPL SOFTWARE	AYLINK GRAPHICS ADAPTER
(THE "PROGRAM")	(THE "PROGRAM")		(THE "PROGRA	M")
his is a legal agreement between you, the end user, ("Yen") and DisplayLink (In) Limited ("DisplayLink"), BY INSTALLING THIS SOFTWARE, YOU ARE IGREEING TO BE BOUND BY THE TERMS OF THIS AGREEMENT.	This is a legal agreement between you, the end user, ("Yow"), (UR) Linuted ("DisplayLink"), (IV INSTALLING THIS SOFTWA AGREEING TO BE NOUND BY THE TERMS OF THIS AGREEM	and DisplayLink RE, YOU ARE IENT.	This is a legal agreement between you, the e (UK) Limited ("DisplayLink"). BY INSTALLIN AGREEING TO BE BOUND BY THE TENMS (	nd user, ("You") and Display(.in) G THIS SOFTWARE, YOU ARE OF THIS AGREEMENT.
time versions of this software, once installed, will check for updated system otherwist (least once and then again at regular internals, urbits) you specifically information short, you PC or the software installed on your PC to sent to our pdate senser during this packets. Accepting the End-User License Agreement ments that you accept this pocket feature.	Some versions of this software, once installed, will check for software at least once and then again at regular interval sufers fisabled this flature when given this again. No personal information about your PC or the software installed on your PC update servers during this process. Accepting the End-User Lice means that you accept this product feature.	updated system you specifically indernation or C is sare to our ense Agreement	Some versions of this software, once installe software at least once and then again at regid dealled this feature when given this opti- information about your PC or the software in update servers during this process. Accepting means that you accept this product feature	d. will check for updated system ar intenuals unless you specifically on. No personal information o tabled on your PC is sent to ou the End-User License Agreement
Automatically check for updates I Accept Cancel	Z Automatically check for updates E Accept	Canal		I Actigit Center

**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>  $\rightarrow$  <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 <a href="http://www.displaylink.com/mac/">http://www.displaylink.com/mac/</a>

# 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  $\rightarrow$  Control Panel  $\rightarrow$  Add or Remove Programs.

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

🐻 Add or Re	move Programs			
	Currently installed programs:	Show up <u>d</u> ates	Sort by: Name	~
C <u>h</u> ange or Remove	avg LinkScanner® 8.5		Size	38.67MB
Programs	晃 DisplayLink Core Software		Size	10.57MB
14	🚚 DisplayLink Graphics		Size	<u>0.91MB</u>
Add New	Click here for support information.		Used	rarely
Programs	To remove this program from your computer, click Remove.			Remove
<b>F</b>	🔂 Intel(R) Graphics Media Accelerator Driver			
Add/Remove	🕞 Intel(R) Management Engine Interface			
<u>W</u> indows	👸 Microsoft Visual C++ 2005 Redistributable		Size	5.21MB

# 7.2 Uninstall the Driver on Windows Vista

Step 1: Open the Control Panel: Start  $\rightarrow$  Control Panel  $\rightarrow$  Programs and Features.

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

	and the second se	1000			
🔾 🗢 🖾 🖡 Control Panel	<ul> <li>Programs and Features</li> </ul>		<ul> <li>+ +y Search</li> </ul>	h	P
Tasks View installed updates Get new programs online at Windows Marketplace View purchased software	Uninstall or change a program To uninstall a program, select it from t	The list and then click "Uninstall", "Change",	or "Repair".		0
(digital locker)	Name	Publisher	Installed On	Size	3
	JoisplayLink Graphics	DisplayLink Corp.	11/11/2009	984 KB	-

Step 3: Click Yes to uninstall it.

## 7.3 Uninstall the Driver on Windows 7

Step 1: Open the Control Panel: Start  $\rightarrow$  Control Panel  $\rightarrow$  Programs



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

🚱 🔍 🔻 🥅 🕨 Control Pane	I      Programs      Programs and Features	✓ 4 Search Programs and	Features 🔎
Control Panel Home View installed updates 😵 Turn Windows features on o	Uninstall or change a program To uninstall a program, select it from th	e list and then click Uninstall, Change, or F	Repair.
off	Organize 👻 Uninstall		8= • 🔞
	Name	Publisher	Installed On
	Codec .		2010/2/4
	Real DisplayLink Core Software	DisplayLink Corp.	2010/3/1
	🛃 DisplayLink Graphics	DisplayLink Corp.	2010/3/1
	🛞 DivX Codec	DivX, Inc.	2010/2/24
	DivX Content Uploader	DivX, Inc.	2010/2/24
	DivX Converter	DivX, Inc.	2010/2/24

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
		Connects to the Update Server to check for
	Check Now	newer driver versions and downloads them, if
Updates		available.
	Configure	Opens the Update Options window where you
	Conligure	can configure automatic updates.
Screen Resolution		Displays a list of available resolutions.
	Medium (16-bit)	Changes the color depth of the extending
Color Quality		display to 16bit.
Color Quality	Highest (32-bit)	Changes the color depth of the extending
		display to 32bit.
	Normal	No rotation is applied to the DisplayLink
		display.
	Rotated Left	Rotates the extended or mirrored display by
Screen Rotation		270 degrees.
	Rotated Right	Rotates the extended or mirrored display by 90
		degrees.
	Upside-Down	Rotates the extended or mirrored display by
		180 degrees.
	Right	Extends the display to the right of the main
		display
Extend To	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.
		Switches off the display of an attached
Notebook Monitor Off		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		Configures the secondary display for optimum
(Windows Vista & 7 Only)		full screen video performance output. (Note:
		Iext 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.

Updates	1
2. DisplayLink Device	
3. DisplayLink Device	

**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**  $\rightarrow$  **Check Now...**, and it will check and download the latest firmware immediately..

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

Displayunk Manager	_	
Updates	•	Check Now
Screen Resolution		Configure
Color Quality	- 19 E	
Screen Rotation		

## Configuring Updates

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

heck Frequency			
Do not check for upo	lates automatically.		
Oheck and prompt m	e to download and install the up	odates.	
Check and automatic	cally download and install:	All	- updates.
Check Frequency:	7 days.		
Next Notification: 00:29	:48 02 December 2009		
ptions			
Downloads Folder:	C:\Program Files\DisplayLin	nk Graphics\upo	lates\

## 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.
	Landscape	Sets the display to landscape view.
	Portrait	Sets the display to portrait mode.
Orientation	Landscape (flipped)	Sets the display to upside down landscape mode.
	Portrait (flipped)	Sets the display to upside down portrait mode.
	Duplicates these displays	Reproduces the main display on the second display.
Multiple d'autour	Extend these displays	Extends the main display onto the secondary display.
Multiple displays	Show Dealston only on 1	The desktop appears on the display marked 1.
	Show Desktop only on T	The display marked 2 becomes blank.
	Show Desktop only on 2	The desktop appears on the display marked 2.
	Show Desktop only on 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
Chash fan undatas	Connects to the Windows Update and checks for newer versions and
Check for updates	downloads them, if available.
	Select the option for better movie playback performance on the DisplayLink
Optimize for Video	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.

Personal							
<b>F</b>	12		<b>H</b>		0		
Appearance	Desktop & Screen Saver	Dock	Exposé & Spaces	International	Security	Spotlight	
Hardware							
0	(5)		Q		-	4	
Bluetooth	CDs & DVDs	Displays	Energy Saver	Keyboard & Mouse	Print & Fax	Sound	
Internet &	Network						
		0					
Mac	Network	QuickTime	Sharing				
System							
11	(P)	to	(0)	8	10	0	
Accounts	Date & Time	Parental Controls	Software Update	Speech	Startup Disk	Time Machine	Universi Access
Other							
ló.							

## 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.

	Display Color			
Resolutions:				
640 x 480	Col	lors: M	illions	1
720 x 480				
768 x 576	Refresh P	late: 6	) Hertz	
800 × 600			Detect D	ienlaue
1024 x 768			Connecto	
1280 x 720			Gather W	indows
1280 x 1024				
1360 x 768	Rot	tate: 9	0°	
1366 x 768	1			
1440 x 900	-			(

## Rotating a Display

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

	Display Color
Resolutions:	
640 x 480	Colors: Millions
720 x 480	
768 x 576	Refresh Rate: 60 Hertz
800 × 600	Detect Displays
1024 x 768	Contra a service
1280 x 720	Gather Windows
1280 x 1024	Constant and a second
1360 x 768	Rotate: 90*
1366 x 768	
1440 x 900	•

## 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.

Show All	Color LCD	٩
	Display Arrangement Color	
To rearrange the disp To relocate the menu	lays, drag them to the desired position, bar, drag it to a different display.	

#### 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.

► Show All				9,	
	Display	Arrangement	Color		
To rearrange the displ To relocate the menu	ays, drag them to the d bar, drag it to a differer	esired position. t display.			
Mirror Displays	)				(7)

## Setting the Display to Extend

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

	Display	Arrangement	Color	
To rearrange the displays, d	rag them to the d	esired position.		
To relocate the ments dary a	rag it to a distant	r display.		

## Using both Extended and Mirrored Displays

To work with both extended and mirrored displays, turn off mirroring than 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.

0		Color LCD			
▶ Show All				Q	_
	Display	Arrangement	Color		
To rearrange the displays.	drag them to the de	sired position.			
	_				
			1		
		_			

# 9. Troubleshooting

Situation	Check Point
	1. Make sure you restart your computer after the
	driver installation.
	2. Check all the connectors are plugged in correctly.
	3. Make sure the USB port that you are using is USB
	2.0.
The device driver has	4. Check the additional monitor is connected
been installed, but the	correctly and the power is on.
Multi View is not working	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.
	6. Try a different USB 2.0 or computer.
DVD player not working	1. Try to open the program in the additional display
when move it over to the	first before playing the DVD.
extended display	
The mouse not move	1. Check the display settings and make sure that
pass the right side of the	your display number 2 is on the right side of
screen as it should on	display number 1.
extended desktop	