



# User's Guide



## FCC Warning

This equipment has been tested and found to comply with the regulations for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this user's guide, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

#### **CE Mark Warning**

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

#### **VCCI** Warning

This is a product of VCCI Class B Compliance.

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## INTRODUCTION

Thank you for purchasing the TU2-DVIV. You can now organize your workspace and increase productivity with multiple monitors. TU2-DVIV allows you to connect up to six monitors to your desktop or laptop using a simple USB connection.

#### Features

- Easy and quick to connect and use.
- Compatible with all CRT and Flat Panel monitors.
- Standard and wide screen aspect ratios.
- ◆ Fully integrated into Windows XP<sup>™</sup>, Windows Vista<sup>™</sup>.
- ◆ Supported Windows Vista<sup>™</sup> Aero mode.
- Fully integrated into the Windows system and appear as a virtual graphics card (VGC).
- Full flexibility to clone or extend desktop display space.
- Static, interactive and video content.
- Auto display identification using VESA compliant protocols.
- ◆ Fully USB 2.0 bus powered.
- User interfaces already built in to OS.
- Support up to six monitors at the same time via own adaptor.
- Supports 16 bit and 32-bit True Color depth.
- High-definition displays up to UXGA 1600 x 1200.

#### System Requirement

- ◆ PC with 1.2 GHz or higher processor clock speed, with an Intel Core 2 Duo or equivalent power CPU.
- ♦ Microsoft Windows 2000, XP and Vista
- ◆ 512 megabytes (MB) of RAM for a single attached screen, 1 gigabyte (GB) of RAM for two attached screens, more for more attached screens.
- ◆ At least one USB 2.0 port.
- ◆ 30 megabytes (MB) of free disk space..

## UNPACKING AND SETUP

This chapter provides unpacking and setup information for the TU2-DVIV USB 2.0 to DVI / VGA Adapter.

### Unpacking

Open the shipping carton of the TU2-DVIV and carefully unpack its contents. The carton should contain the following items:



• The USB to DVI-I/VGA Adapter

The TU2-DVIV adapter allows you to connect monitors to your computer using a USB connection.

• DVI (Male) to VGA (Female) Adapter

This adapter will convert your DVI port to a classic VGA port allowing you to connect your VGA monitor to the TU2-DVIV's DVI port.

• USB Cable

USB 2.0 Cable, mini USB Connector. Connects to the computer and the TU2-DVIV.

• CD Rom

The CD contains the driver and utility for the TU2-DVIV

If any item is found missing or damaged, please contact your local reseller for replacement.

# SOFTWARE INSTALLATION

This chapter describes the software installation procedure of the TU2-DVIV.

### Windows Vista Install

1. Insert the CD-ROM in your PC and if ask for permission to run the CD, click **Yes** to continue then the Autorun wizard will appear.



- 2. Click on **Install Utility & Driver** button to install the control software to your PC
- 3. When prompt for permission to continue. Click **Continue** to go to the next step.
- 4. After reading the License Agreement click **I** Accept to continue. The installation will start.

Install Display	Link Software for TL	J2-DVIV			<b>-</b> X
					Ð
English		•			
Some versi software at disabled th information update sen means that	ons of this softwa least once and th is feature when about your PC or ers during this pro you accept this pr	re, once instal en again at reg given this op the software i cess. Acceptin oduct feature.	led, will check for ular intervals unles tion. No persona nstalled on your f ng the End-User Li	updated s s you spec al informat PC is sent cense Agre	eifically tion or to our eement
1. Licence DisplayLink use one co any user d terms of th provided that	grants You a pe py of the Program ocumentation supp is agreement. Yo t such copy shall	ersonal, non-ex n as acquired v blied with the P u may make be subject to th	clusive, non-trans with this licence in rogram and in acc one back-up copy ne terms of this ag	ferable lice accordance cordance w of the Pr reement.	nce to ce with vith the ogram,
2. Use You are ent the product	itled to install and that contains Di	use the Progra splayLink's pro	m on a computer t prietary technolog	hat is attao ay (the "Do	ched to evice") =
			I Act	:ept	Cancel

5. Wait a few moments for the process to complete.

U2-DVIV	
Please wait while Windows con	figures TU2-DVIV
	0
	Cancel

6. When the process is finished click Yes to reboot.



7. Plug in the TU2-DVIV and a message will display on your PC as shown.

```
    New display found: TRENDnet TU2-DVIV Display Adapter
    Z. TRENDnet TU2-DVIV Display Adapter (USB_015E-123460)
    Use the icon here to control the new display.
```

### Windows 2000/XP Install

1. Insert the CD-ROM in your PC and the Autorun wizard will appear.



- 2. Click on **Install Utility & Driver** button to install the control software to your PC
- 3. When prompt for permission to continue. Click Continue to go to the next step.
- 4. After reading the License Agreement click I Accept to continue. The installation will start.

1.7		
		$\mathfrak{P}$
English		
Some versions of this software, once inst software at least once and then again at re disabled this feature when given this u information about your PC or the software update servers during this process. Accept means that you accept this product feature.	alled, will check for update gular intervals unless you sj option. No personal inforr installed on your PC is si ing the End-User License A	d system becifically nation or ent to our greement
<ol> <li>Licence DisplayLink grants You a personal, non- use one copy of the Program as acquired any user documentation supplied with the terms of this agreement. You may make provided that such copy shall be subject to</li> </ol>	exclusive, non-transferable I with this licence in accord. Program and in accordance one back-up copy of the the terms of this agreement	icence to ance with e with the Program,
2. Use You are entitled to install and use the Progr the product that contains DisplayLink's p	am on a computer that is at roprietary technology (the	tached to "Device") =
	T Among L	

5. Wait a few moments for the process to complete.

TU2-D	VIV		
1	Please wait while Wind	lows configures TU2-[	VIV
Gathe	ing required information.		
			Cancel

6. Plug in the TU2-DVIV and the system will found a new hardware of the TU2-DVIV.

## HARDWARE INSTALLATION

See the following illustrations for instructions on how to install your TU2-DVIV USB 2.0 to DVI / VGA Display Adapter.

## Connecting the Adapter

#### Connecting to DVI monitor

Connect the DVI monitor with the USB to DVI-I/VGA Display Adapter as shown.



#### Connecting toVGA monitor

Connect the VGA monitor with the DVI to VGA adapter then to the USB to DVI-I/VGA Display Adapter as shown.



#### Connecting to USB port

Connect the USB cable and the USB to DVI/VGA Display Adapter as shown.



#### Connecting the Monitors

TU2-DVIV supports up to 6 display connections to a single PC. See the following illustrations for sample setups.

#### Connecting 2 monitors

PC connects to two monitors via USB cables using TU2-DVIV adapters. Monitors connect to graphics adapters via standard VGA/DVI cables.



#### Multiple monitors using powered USB hub

PC connects to a standard powered USB hub. Three monitors are connected to the USB hub via TU2-DVIV adapters. Monitors connect to graphics adapters via standard VGA/DVI cables.



**Note:** A typical PC can run up to six monitors. The exact number depends on the type of content being displayed.

## **CONFIGURE YOUR SCREEN**

After software installation, connect the TU2-DVIV to your PC. A icon will appear on the lower right corner. Click the icon to pull up the USB to DVI Convertor Manager menu. USB to DVI Convertor Manager menu allows you to configure basic functions of your additional screens including screen resolution, color quality, screen rotation, and extend, mirror, and off mode.

	USB to DVI Convertor DisplayLink I	Manager
	Screen Resolution	•
	Color Quality	•
	Screen Rotation	•
	Extend To	•
•	Extend	
	Mirror	
	Off	
	Advanced	

#### Screen Resolution

To setup the screen resolution, select an available resolution from the Screen Resolution submenu as shown.



#### **Color Quality**

The Color Quality specifies how many colors are displayed on the monitor. To setup the color quality, select an available color quality from the Color Quality submenu.

	USB to DVI Convertor DisplayLink Manager			
	Screen Resolution	•		
	Color Quality	+		Medium (16-bit)
	Screen Rotation	+	۲	Highest (32-bit)
	Extend To			
۲	Extend			
	Mirror			
	Off			
	Advanced			

#### Screen Rotation

To rotate your screen, choose Rotated Left, Rotated Right, Upside-Down from the Screen Rotation submenu. Choose Normal to return the screen to the original orientation.



#### Screen Positioning

If your computer is connected to more than two monitors, you can assign each of the monitors to a different mode.

#### Extend Mode

If your computer is connected to more than two monitors, you can assign each of the monitors to a different mode.

#### Select **Extend** to switch to the Extend Mode.

	Screen Resolution	
	Color Quality	•
	Screen Rotation	+
	Extend To	۰.
•	Extend	
	Mirror	
	Off	
	Advanced	

## Configuring Extend Mode

1. Select **Right**, **Left**, **Above**, and **Below** from the Extend To submenu to choose where to extend your desktop. Or

	USB to DVI Convertor DisplayLink	Manager	
	Screen Resolution	*	
	Color Quality	•	
	Screen Rotation	•	
	Extend To	N *	Right
•	Extend	43	Left
	Mirror		Above
	Off		Below
	Advanced		

2. Select Advanced from the menu to activate Display Settings.

	USB to DVI Convertor DisplayLin	k Manager
	Screen Resolution	•
	Color Quality	
	Screen Rotation	,
	Extend To	,
	Extend	
•	Mirror	
	Off	
	Advanced	

3. Display Settings window now opens. To move the position of a display, click and hold the monitor icon you wish to move.

onitor		
Drag the icons to match your mon	itors.	Identify Monito
1	2	3
1. Generic PnP Monitor on Mobile	e Intel(R) 945GM Ex	press Chipset Controll
1. Generic PnP Monitor on Mobile	e Intel(R) 945GM Ex	press Chipset Controll
1. Generic PnP. Monitor on Mobile This is my main monitor Extend the desktop onto this m Resolution:	e Intel(R) 945GM Ex	press Chipset Controll
1. Generic PnP Monitor on Mobile This is my main monitor Extend the desktop onto this m Resolution: Low	e Intel(R) 945GM Exponitor	press Chipset Controll Colors: Highest (32 bit)
1. Generic PnP Monitor on Mobile This is my main monitor Extend the desktop onto this m Resolution: Low 1280 by 800 pixels	e Intel(R) 945GM Ex onitor U High	press Chipset Controll Colors: Highest (32 bit)
1. Generic PnP Monitor on Mobile	e Intel(R) 945GM Ex	press Chipset Cont

4. Drag it to the desired position. The display will be highlighted with a blue border whilst you are moving the display to its new position



#### Mirror Mode

Mirror mode allows you to replicate the exact image from your primary monitor to your secondary monitor. To activate Mirror Mode select Mirror from the menu.

	USB to DVI Convertor DisplayLink	Manager
	Screen Resolution	•
	Color Quality	•
	Screen Rotation	•
	Extend To	,
	Extend	
•	Mirror	N
	Off	45
	Advanced	

## Off Mode

To disable the secondary monitor select **Off** from the menu.

	USB to DVI Convertor DisplayLink Manager	
	Screen Resolution	
	Color Quality	
	Screen Rotation	•
	Extend To	
	Extend	
	Mirror	
•	Off	
	Advanced	

## Identify the Monitors

To identify the active monitor click the **Identify Monitors** button. A number will be shown on the screen to identify the active monitor.



## **TECHNICAL SPECIFICATIONS**

#### System Requirement

✤ PC with 1.2 GHz or higher processor clock speed, with an Intel Core 2 Duo or equivalent power CPU

- ✤ 512 megabytes (MB) of RAM for a single attached screen, 1 gigabyte (GB) of RAM for two attached screens, more for more attached screens
- ✤ At least one USB 2.0 port

✤ 30 megabytes (MB) of free disk space

#### Supported OS

✤ Microsoft Windows 2000<sup>TM</sup> Service Pack 4 and up

✤ Microsoft Windows XP<sup>TM</sup> Service Pack 2 and up

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VIICTOSOIT VISta <sup>1M</sup>			
Power mode:	USB Bus Powered mode		
Number of Expansions:	Up to 6 USB to DVI-I/VGA Display Adapters (7 monitors)		
Diagnostic LED:	Power		
Display Connector:	DVI-I, VGA (with DVI to D-Sub 15 VGA Adapter)		
Dimensions:	50 x 77 x 22 mm (W x H x D)		
Temperature:	Operating: 0 ~ 40 oC Storage: -10 ~ 70 oC		
Humidity:	Operating: 10% ~ 90% RH Storage: 10% ~ 70% RH		
Emission:	FCC Class B CE mark Class B VCCI-B		

#### Limited Warrantv

TRENDnet warrants its products against defects in material and workmanship, under normal use and service, for the following lengths of time from the date of purchase.

If a product does not operate as warranted above during the applicable warranty period, TRENDnet shall, at its option and expense, repair the defective product or deliver to customer an equivalent product to replace the defective item. All products that are replaced will become the property of TRENDnet. Replacement products may be new or reconditioned.

TRENDnet shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to TRENDnet pursuant to any warranty.

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Warranty service may be obtained by contacting TRENDnet office within the applicable warranty period for a Return Material Authorization (RMA) number, accompanied by a copy of the dated proof of the purchase. Products returned to TRENDnet must be preauthorized by TRENDnet with RMA number marked on the outside of the package, and sent prepaid, insured and packaged appropriately for safe shipment.

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Governing Law: This Limited Warranty shall be governed by the laws of the state of California.

Note: AC/DC Power Adapter, Cooling Fan, Cable, and Power Supply carry 1-Year Warranty

# TRENDNET

### **Product Warranty Registration**

Please take a moment to register your product online. Go to TRENDnet's website at http://www.trendnet.com/register

TRENDNET 20675 Manhattan Place

Torrance, CA 90501 USA

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