Gigabit Ethernet to DVI Adapter

User's Manual

ABOUT THIS MANUAL

This manual is designed for use with the Gigabit Ethernet to DVI Adapter. Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. The manufacturer does not make any representations or warranties (implied or otherwise) regarding the accuracy and completeness of this document and shall in no event be liable for any loss of profit or any commercial damage, including but not limited to special, incidental, consequential, or other damage.

SAFETY INSTRUCTIONS

Always read the safety instructions carefully:

- Keep this User's Manual for future reference
- Keep this equipment away from humidity
- If any of the following situation arises, get the equipment checked by a service technician:
 - The equipment has been exposed to moisture.
 - The equipment has been dropped and damaged.
 - The equipment has obvious sign of breakage.
 - The equipment has not been working well or you cannot get it to work according to the User's Manual.

COPYRIGHT

This document contains proprietary information protected by copyright. All right are reserved. No part of this manual may be reproduced by any mechanical, electronic or other means, in any form, without prior written permission of the manufacturer.

TRADEMARKS

All trademarks and registered trademarks are the property of their respective owners or companies.

Table of Contents

1. Introduction	1
Features	2
Package Contents	
System Requirements	
LED Status	2
2. Installation	3
Hardware Connection	
Driver Installation	
On Windows [®] XP	
On Windows Vista [®] / Windows [®] 7	
3. Application	13
File	
Options	
View	
Help	
4. Display Mode	22
5. Uninstall the Driver	24
6. Specifications	27
7. Regulatory Compliance	28
FCC Conditions	
CE	
WEEE Information	

1. Introduction

The Gigabit Ethernet to DVI Adapter enables you easily to connect monitor and projector from a computer. You may perform a high quality presentation and DVD video by the high throughput of Gigabit Ethernet and have the content of your PC get access remotely. The display station can be up 100 meters away from your computer with CAT6 cable. You can connect to 6 different display screens with this adapter as digital signage application.



Features

- Support connect up to 6 display screens as digital signage function
- Compatible with Gigabit Ethernet specification
- Video application on LCD monitor or projector shared through Gigabit Ethernet port
- Display remote control
- Compatible with USB 1.1/2.0 specification
- Support resolution up to 1920 x 1080
- Input: Gigabit Ethernet interface ; Output: DVI interface
- Long transmission distance up to 100 meters
- Plug and Play

Package Contents

Gigabit Ethernet to DVI Adapter	x1
Power Adapter	x1
CD (Driver and User's Manual)	x1
Quick Installation Guide	x1

Operating System Requirements

Windows[®] XP, Windows Vista[®] 32/64 bits and Windows[®] 7 32/64 bits

LED Status

LED	Color	Description
Power	Green	On for connected to the power adapter Off for not connected to the power adapter
Link	Blue	LAN activity. Blinking when there is data flow between LAN and the host computer

2. Installation

Hardware Connection



Driver Installation

On Windows[®] XP

Caution: DO NOT connect the adapter to your computer before installing the driver on the provided CD.

Insert the provided CD into your disc drive. When the Install DisplayLink
 Software screen appears, select I accept the terms in the license agreement.

Install DisplayLink Software for DisplayLink Graphics
DisplayLink
English S.3.26313.0
SOFTWARE END USER LICENCE AGREEMENT FOR
DISPLAYLINK MIRROR DRIVER and DISPLAYLINK GRAPHICS ADAPTER
(THE "PROGRAM")
This is a legal agreement between you, the end user, ("You") and DisplayLink (UK) Limited ("DisplayLink"). BY INSTALLING THIS SOFTWARE, YOU ARE AGREEING TO BE BOUND BY THE TERMS OF THIS AGREEMENT.
Some versions of this software, once installed, will check for updated system software at least once and then again at regular intervals unless you specifically disabled this feature when given this option. No personal information or information about your PC or the software installed on your PC is sent to our update servers during this process. Accepting the End-User License Agreement means that you accept this product feature.
Automatically check for updates I Accept Cancel

2. Your screens may temporarily go black or flash during this process.



3. USB Server Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.

USB Server - InstallShield	Wizard
	Preparing to Install
0	USB Server Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
	Preparing to Install
	Cancel

4. Setup has finished installing USB Server on your computer. Please click **Finish**.

USB Server - InstallShield	Wizard
	InstallShield Wizard Complete
	Setup has finished installing USB Server on your computer.
	< Back Finish Cancel

5. The InstallShield Wizard has successfully installed USB Server. Before you can use the program, you must restart your computer.



 When the installation is completed. Please restart your system before using Gigabit Ethernet to DVI Adapter. You may see the Launch USB Server icon on desktop.



7. Please plug power cable into Gigabit Ethernet to DVI Adapter and connect the Ethernet adapter's LAN port end to a free Router.

8. Please return to the desktop and Double-click the shortcut icon of Launch USB

Server on the desktop. This will bring up the main dialog box. The following is what you will see at program start up; please click **Connect Device** when a device is selected.

The **Windows Security Alert Window** will appear when making connection. Please click **Unblock** or **Allow Access** button to make connection.



9. When the device is connected, the check mark will be green.

vice	Stat	us	Information	
Network AV	Adapter (192.168.0.12	9)		
— 🔍 Display		Locally Connected		

On Windows Vista[®] / Windows[®] 7

Caution: DO NOT connect the adapter to your computer before installing the driver on the provided CD.

1. Insert the provided CD into your disc drive. Locate and double-click the **Run autorun.exe** file in the **Driver** folder to launch the setup program.



Note :

If the installer program doesn't run automatically, please locate and double-click on the **Setup.exe** file in the **Driver** folder to launch the setup program.

If you encounter a **User Account Control** dialog box when attempting to install a program, enter an administrator password or click **Allow/Yes** to start the installation.

2. When the **Install DisplayLink Software** screen appears, select **I accept** the terms in the license agreement.



3. Your screens may temporarily go black or flash during this process.

DisplayLink Core Software
Please wait while Windows configures DisplayLink Core Software. Your screens may temporarily go black or flash during this process.
Gathering required information
Cancel

4. USB Server Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.



Note: If you encounter a User Account Control dialog box when attempting to install program, enter an administrator password or click Allow/Yes to start the installation.

5. Setup has finished installing USB Server on your computer.



6. The InstallShield Wizard has successfully installed USB Server. Before you can use the program, you must restart your computer.



7. When the installation is completed. Please restart your system before using Gigabit Ethernet to DVI Adapter. You may see the **Launch USB Server** icon on desktop.



8. Please plug power cable into Gigabit Ethernet to DVI Adapter and **connect** the Ethernet adapter's LAN port end to a free Router.

 Please return to the desktop and Double-click the shortcut icon of Launch USB Server on the desktop. This will bring up the main dialog box. The following is what you will see at program start up; please click Connect Device when a device is selected.

The **Windows Security Alert Window** will appear when making connection. Please click **Unblock** or **Allow Access** button to make connection.



10. When the device is connected, the check mark will be green.



*Actual strings depend on your operation system. These screen shots are from Windows Vista[®] 64-bit and might vary slightly for each operation system.

Application

■ File

The Quit function exits the program.

些 USB Server			_ _ X
File (F) Options (O) View (V) Hel	p (H)		
Quit (Q)	Status	Information	
- Network AV Adapter	(192.168.0.121)		
Display	Free		
	~		
	Search	Connect Device	

Options

 Language: You can change the utility's language with this option. The default language would be the same as your system's language.



Server Configuration: There are two way to bring up Server Configuration. You can go through Options Tab (figure 1) or Right-Click on the server icon to bring up this menu, and select Server Configuration (figure 2).

👄 USB	Server		
File (F)	Options (O) View (V) Help (H)		
Device	Language (L) Run this application when PC starts up. (A)	Information	
	Server Configurations (S)		
	Open Web Page (O)	Free Network AV Adapter	
	Connect Device (E) Disconnect Device (D) Request Disconnect Device (R) Device Properties (B) Disconnect Storage Device when Idle (T) Disconnect Printer when Idle (P)		
·			_
	Search	Open web Page	

(Figure 1)



(Figure 2)

🚨 Server	Configura	tions 🛛 🔀
Networ	k Setting :	
Serve	er Name : [Network AV Adapter
∎ H€	PDHCP	
IP,	Address :	192.168.2.103
	Subnet:	255 . 255 . 255 . 0
	Set	Cancel
	В	ackup Firmware
	U	Ipdate Firmware
	Cł	hange Password
		Restart Server

Server Name: This field allows you change the Server name. Change it whatever you want.

USE DHCP: When this field is checked, your server acquires IP address automatically. Uncheck it and you can enter IP address automatically. **Note:** You can apply this function to a server under different network segment. HOWEVER, some router/switch hub does not allow communication between servers under different segment. In this case, you won't even see the server on a different network segment.

Backup Firmware: this function is a fail-save mechanism for the Update Firmware function. Just browse to where you want to save the backup file and click on **Save** to save the file.

Update Firmware: update firmware with this function. Use the **Browse** button to choose the firmware to update. Click on **Open** to start.

Change Password: Simply enter the new password and enter it again for confirmation. Click on **Submit** to change.

Reset Server: This button reboots the server. Please note that this function will not work if the server you attempt to reset has a device connected to it and the device is occupied by a user.

Open Web Page

To bring up the server's configuration web pages.



Status: This is the main page. You can see the important information about the EST USB Server and the devices connected to it. The 4 links at the left-hand side take you to different pages with other information about this server or functions you could perform.



Network Information: This page displays the current network setting of the server, like the current IP setting and the MAC address.

avorites 🛛 😭 🏉 Suggeste	ed Sites 🔻 🙋 Web Slice G	allery ▼	
letwork AV Adapter		🖄 🕶 🗟 👻 🖻 Bage 🕶 Sa	fety 🔻 T <u>o</u> ols 🕶 🌘
		Leading the Evolution in Miniaturized Server Design	
Status	Network		
Vetwork		Network Information	
Reset Device	IP Setting	Automatic (DHCP)	
Password Change	IP Address	192.168.0.121	
	Subnot Mack	255 255 255 0	
	Subilet Wask	200.200.200	
	MAC Address	00:50:b6:07:74:37	
	MAC Address	00:50:b6:07:74:37	
	MAC Address	265,255,250 00:50:b6:07:74:37 Network Setting	
	MAC Address DHCP Setting IP Address	235,235,230 00:50:b6:07:74:37 Network Setting Enable • 1921680121	
	MAC Address DHCP Setting IP Address Subnet Mask	235,235,230 00:50:66:07:74:37 Network Setting Enable 192 168 0 121 255 255 255 0	
	MAC Address DHCP Setting IP Address Subnet Mask Device Name	235,235,230 00:50:b6:07:74:37 Image: Constraint of the second	
	MAC Address MAC Address DHCP Setting IP Address Subnet Mask Device Name Password	235,235,230.0 00:50:b6:07:74:37 Image: Constraint of the second secon	

Reset Device: Click on the Submit button with the correct password provided will reboot this EST USB Server. If no password has been set, then simply click on Submit button to perform this function.

Average Averag	Internet Explorer	the second s		×
🕒 🗢 🖉 http://192.168.0.	.121/	▼ 3 47 × 6 Bing	۶	•
🚖 Favorites 🛛 👍 🏉 Suggester	d Sites 🔻 🙋 Web Slice Gallery	•		
🥖 Network AV Adapter		🟠 🔻 🔝 👻 🖃 🖉 Page 🕶 Safety	/ ▼ T <u>o</u> ols ▼ 🧕	•
		Leading the Evolution in Miniaturized Server Design		
Status Notwork	Reset Device			
Reset Device		Reset Device		
Password Change	Password	*Must Provide If Available*		
	-	Submit Clear		
		Internet Uniternet Uniternet Moder On	⊕ 100% ··· ··	-

Change Password: To change the password, you must enter current password, enter new password and enter it again for confirmation and the click on Submit to set the new Password. If you are setting the password for the first time, you do not have to provide current password.

Network AV Adapter - Window:	s Internet Explorer						- 0 ×
🕗 🗢 🙋 http://192.168.0	.121/			• 🗟 47 🗙 🗔	Bing		٩
Favorites 🛛 👍 🏈 Suggeste	ed Sites 👻 🙋 Web Slice Gallery	•					
Network AV Adapter				🖄 - 🔊 -	- 🖃 🖶 - P	age ▼ <u>S</u> afety ▼	T <u>o</u> ols 🔻 🔞
		-		Leading the Evolution in Miniaturized Server Oesign			
Status	Password Cha	inge		0hanaa			
Reset Device		-	Password	Change			
Password Change	Current Password	-		*Must Provide If Available*			
	New Password						
	Confirm New Password				-		
		Submit	Clear				

View

The tree view in the main dialog has two display modes: "Servers and Devices" mode and "Devices Only" mode. The default setting is "Devices Only" mode. You can toggle between these two display modes with the View option on the control menu.



Help

 About: Bring up a dialog box with legal and other relative information displayed.





Log File: Enabling Log function allows the USB Server software to generate a log file that records data which might help software developers debug a problem. So if you want to report a bug, enable this function and repeat the steps to reproduce the bug. Once you have seen the bug happen again, you can use the Extract log file function to extract the file and send the file in for analysis.

🕙 USB Server		
File (F) Options (O) View (V)	Help (H)	
Device	About (A)	Information
Retwork AV Adap	Extract Log File (X)	
Display	Free	Network AV Adapter
	Search	Connect Device

• Extract Log File: Clicking on this option brings up the folder where

the log file is kept.

🛎 USB Server		
File (F) Options (O) View (V)	Help (H)	
Device	About (A) Log File (L) Extract Log File (X)	Information
Display	Free	Network AV Adapter
	Search	Connect Device

4. Display Mode

On Windows[®] XP/ Windows Vista[®]

To change the display mode, please right-click on your desktop and click **Properties** > **Settings** on Windows[®] XP, **Personalize** > **Display Setting** on Windows Vista[®] or use the icon in the system tray that looks like a monitor as below.

The USB-attached monitor can be configured to:

- Extend your Windows desktop (default)
- Extend your Windows desktop to Right / Left / Above / Below
- Mirror your Windows desktop
- Set as Main Monitor
- Notebook Monitor Off
- Off

On Windows[®] XP



On Windows Vista[®]

	DisplayLink Manager	
	Updates	•
	Screen Resolution	•
	Color Quality	•
	Screen Rotation	•
	Extend To	•
۲	Extend	
	Set as Main Monitor	
	Notebook Monitor Off	
	Mirror	
	Off	
	Optimize for Video	
	Advanced	

On Windows[®] 7

 You can change the appearance of your displays through the Window. Moreover, additional controls are available in Windows[®] 7: Orientation (Portrait, landscape, rotated portrait, rotated landscape)

	x
🕞 🕞 💌 🔄 Control Panel 🔸 Appearance and Personalization 🔸 Display 🔸 Screen Resolution 🔹 😽 Search Con	,
Change the appearance of your displays	
Identify	
Display: 1. E70-3 🔻	
Resolution: 1024 × 768 (recommended)	
Orientation: Landscape 💌	
Multiple displays: Extend these displays	
This is currently your main display. Advanced settings	
Make text and other items larger or smaller	
What display settings should I choose?	
OK Cancel Apply	
Your device is ready to use 🔌 🗙 Device driver software installed successfully.	
	12 (

 To control the behavior of an attached DisplayLink device (or screen), it is possible to use Windows Key+P to display menu (and cycle through it) to allow: Disconnect Projector, Duplicate, Extend, Projector Only.



5. Uninstall the Driver

If for any reason you want to uninstall the driver, please take these steps:

Uninstall USB Server Driver

- Open the Control Panel and double-click Uninstall a Program on Windows[®] 7, Programs and Features on Windows Vista[®], and Add or Remove Programs on Windows[®] XP.
- 2. Select USB Server and click Uninstall or Remove.

🄄 Organize 🖌 📗 Views 😼 🕵 Uninstall 🔤	Change
Name	Publisher
人 Acrobat.com	Adobe Systems Incorporated
Adobe AIR	Adobe Systems Inc.
≽ Adobe Reader 9.1	Adobe Systems Incorporated
晃 DisplayLink Core Software	DisplayLink Corp.
晃 DisplayLink Graphics	DisplayLink Corp.
Marvell Miniport Driver	Marvell
B Microsoft Office Enterprise 2007	Microsoft Corporation
BNEC Electronics USB 3.0 Host Controller Driver	NEC Electronics Corporation
le NVIDIA Display Control Panel	NVIDIA Corporation
SNVIDIA Drivers	NVIDIA Corporation
NVIDIA Stereoscopic 3D Driver	NVIDIA Corporation
Kealtek High Definition Audio Driver	Realtek Semiconductor Corp.
過 USB Server	Generic

an income
nield Wizard, which rocess. Please wait.

3. Click **Yes** to completely remove the selected application and all of its features.



4. Click **Finish** to exit the wizard.

USB Server - InstallShield Wi	zard
	InstallShield Wizard Completed.
	The wizard was interrupted before USB Server could be completely installed.
	The system has not been modified. To install this program at a later time, run the installation again. Click Finish to exit the wizard.
	< <u>B</u> ack Finish Cancel

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

USB Server - InstallShield Wizar	rd
	Uninstall Complete InstallShield Wizard has finished uninstalling USB Server.
	Yes, I want to restart my computer now No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.
	< <u>B</u> ack Finish Cancel

Uninstall the DisplayLink Driver

- Open the Control Panel and double-click Uninstall a Program on Windows[®] 7, Programs and Features on Windows Vista[®], and Add or Remove Programs on Windows[®] XP.
- 2. Select DisplayLink Graphics and click Uninstall or Remove.

🕛 Organize 🗵 📗 Views 🗵 🕵 Uninstall	
Name	Publisher
人 Acrobat.com	Adobe Systems Incorporated
Adobe AIR	Adobe Systems Inc.
🝌 Adobe Reader 9.1	Adobe Systems Incorporated
晃 DisplayLink Core Software	DisplayLink Corp.
🛃 DisplayLink Graphics	DisplayLink Corp.
Marvell Miniport Driver	Marvell
B Microsoft Office Enterprise 2007	Microsoft Corporation
BNEC Electronics USB 3.0 Host Controller Driver	NEC Electronics Corporation
lisplay Control Panel	NVIDIA Corporation
SNVIDIA Drivers	NVIDIA Corporation
NVIDIA Stereoscopic 3D Driver	NVIDIA Corporation
🔀 Realtek High Definition Audio Driver	Realtek Semiconductor Corp.

3. Click **Yes** to confirm the removal. During the removal process a couple of DOS windows will pop up.



4. Click **Yes** to restart your computer and then unplug the adapter now.

		22.4	12	
You mu:	st restart your sy	stem for th	e configura	tion
effect (ick Yes to resta	IYUNK Core	e Software t	o take
manualh	restart later.		vo il you più	anto

6. Specifications

Function	Gigabit Ethernet DVI Adapter	
Connector	Gigabit Ethernet port	1 xRJ45 Female
	USB Downstream Port	2 xUSB A type Female
	Video out	1 x DVI
	Audio out	Speaker x1
	Power	1 x DC Jack(Black)
LED	Power LED	1x LED (Green)
	Link LED	1x LED(Blue)
Video	Video Resolution	1920 x 1080
Power Consumption	Operating Power : 1075mA	
	Suspend Mode Power : 893mA	
Physical Properties	Housing	Plastic (ABS + PC)
	Weight	110g
	Dimension	97mm(L)x75mm(W)x26mm(H)

7. Regulatory Compliance

FCC Conditions

This equipment has been tested and found to comply with Part 15 Class B of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received. Including interference that may cause undesired operation.

CE

This equipment is in compliance with the requirements of the following regulations: EN 55 022: EMC Directive 2004/08/EC (EN55022/EN55024)

WEEE Information

For EU (European Union) member users:

According to the WEEE (Waste electrical and electronic equipment) Directive, do not dispose of this product as household waste or commercial waste. Waste electrical and electronic equipment should be appropriately collected and recycled as required by practices established for your country. For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.

