



DVI+HDCP 4x1 Switcher
User Manual

DVI-4141



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I. INTRODUCTION

Thank you for purchasing this DVI + HDCP 4x1 Switcher from DVI Gear. The DVI-4141 is designed for usage with two sources and a single display. The device allows for four DVI-enabled sources to be switched to a single DVI input on a display. The unit is fully HDCP compliant for usage with sources and displays utilizing this technology.

Prior to using this product, please read this manual in its entirety. Please feel free to contact us with any questions or comments you may have regarding the unit or its performance.

II. PACKAGE CONTENTS

- DVI-4141 DVI + HDCP 4x1 Switcher
- DVI-DVI 6ft Cable
- 9VDC AC Power Adapter
- Manual

III. FEATURES

- Ultra Compact, High Performance Unit
- Supports HDCP on both inputs and output
- Supports HDTV resolutions up to 1080p and PC resolutions up to 1920x1200 / 60Hz
- Four DVI (HDCP or non-HDCP) signals can be switched to a single DVI (HDCP or non-HDCP) display
- Full DDC support



IV. GETTING THE BEST RESULTS

Many factors influence the quality of a digital video signal in any application. When additional interconnects are put into the system, the possibility for signal degradation arises. Below are some things to keep in mind in order to ensure the best unit performance:

- **Output source device** - The quality of the output signal will depend largely upon the type and quality of source device used. For instance, some DVD players just perform better than others.
- **Using Native Resolution** - It is always best to set the output resolution of the source device to the native resolution and refresh rate of the display device(s). This allows for the two units to work together in the best fashion.
- **Distance between the source and display devices** - The length of cable between the source(s) and display(s) should be minimized as much as possible. When using the DVI-4141, the overall cable distance should not exceed 10M without proper amplification.
- **Connection cables** - When using the DVI + HDCP 4x1 Switcher, the highest quality cables should be used. Using DVI Gear's Super High Resolution DVI cables will ensure the best possible signal between the source and the display.
- **Interference from nearby electrical devices** - These can have an adverse effect on signal quality. For example, an older computer monitor often emits very high electromagnetic fields that can interfere with the performance of video equipment in its proximity.



V. SPECIFICATIONS

Performance	
HDTV Resolutions Supported	480i, 480p; 720p; 1080i; 1080p
Computer Resolutions Supported	All up to 1920x1200 @ 60Hz
Maximum Bandwidth Supported	165MHz (analog)
Maximum Bitrate Supported	1.65Gbit/sec
Mechanical	
Dimensions (HxWxD) (mm)	42 x 162 x 72
Weight (grams)	0.9lbs
Environmental	
Operating Temperature	0° to 40° C (32° to 104° F)
Operating Humidity	10% to 85% non-condensing
Accessories Included	
9VDC AC Power Adapter	
Operations Manual	
6ft DVI-DVI Cable	



VI. CONNECTING THE HARDWARE

Prior to connecting the unit, ensure that all devices have been powered off.

- 1) Connect your DVI display to the switch's DVI output with a high-quality cable
- 2) Connect your four (4) DVI sources to the switch's inputs using a high-quality DVI cable.
- 3) Plug the 9VDC power adapter in to the rear of the unit.
- 4) Plug the power adapter in to an AC socket.
- 5) Power on all source and display devices.

V. OPERATING THE UNIT

It is possible to select the input device you wish to access in two ways: using the front panel push button or via the enclosed remote control unit.

1) Front Panel Push Button Selection:

- The front panel push button is used to select the source to be displayed on the screen. Pressing the button during normal operation will cause the input devices to be toggled through.

2) Remote Control Selection:

- The input device may selected via the included remote control by pressing the appropriate button ("1" for the source on input 1 and "2" for the source on input 2 and so on).

Note: If you have a problem with the IR control conflicting with other devices, the remote allows users to configure four (A, B, C, D) alternate combinations of IR codes. To change, press and hold an IR code button for 2 seconds.



VIII. TROUBLESHOOTING

If the switcher does not appear to be functioning, make certain that all of the DVI connections are securely attached to the unit with all appropriate screws in tight. Secondly, verify the functioning of all DVI devices (sources and displays) by connecting them with a short (6ft or less) DVI cable. If the signal is present under those conditions, ensure that the connections are made fully and that the power indicator light is clearly lit. Finally, make sure that the overall cable distance does not exceed 10M (approx. 33ft) without proper amplification.

If the above suggestions are not helpful, please contact us at support@dvigear.com or by phone at 888-463-9927. For more information, please visit our website at <http://www.dvigear.com>



IX. WARRANTY INFORMATION

DVIGear warrants the equipment it manufactures to be free from defects in material and workmanship. If equipment fails because of such defects and DVIGear is notified within three years from the date of shipment, DVIGear will, at its option, repair or replace the equipment, provided that the equipment has not been subjected to mechanical, electrical, or other abuse or modifications. Equipment that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of the repair. Such repairs are warranted for ninety days from the day of re-shipment to the buyer. This warranty is in lieu of all other warranties expressed or implied, including without limitation, any implied warranty or merchantability or fitness for any particular purpose, all of which are expressly disclaimed. The information in this manual has been carefully checked and is believed to be accurate. However, DVIGear assumes no responsibility for any inaccuracies that may be contained in this manual. In no event will DVIGear be liable for direct, indirect, special, incidental, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. The technical information contained herein regarding the product features and specifications is subject to change without notice.



Your Digital Connectivity Experts

Toll Free: 888.463.9927

Phone: 770.421.6699

Fax: 770.234.4207

1059 Triad Court

Suite 8

Marietta, GA 30062-2258

www.dvigeear.com