



AV Connectivity, Distribution And Beyond...

VIDEO WALLS VIDEO PROCESSORS
VIDEO MATRIX SWITCHES
EXTENDERS SPLITTERS WIRELESS
CABLES & ACCESSORIES

5 Port DVI Splitter



Model #: SPLIT-DVI-5

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Product Application & Market Sectors



Corporate



House Of Worship



Military



Residential



Education



Industrial



Medical



Aviation



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SECTION I: GETTING STARTED

I.1 IMPORTANT SAFEGUARDS

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
- Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
- Repair or attempted repair by anyone not authorized by us.
- Any damage of the product due to shipment.
- Removal or installation of the product.
- Causes external to the product, such as electric power fluctuation or failure.
- Use of supplies or parts not meeting our specifications.
- Normal wear and tear.
- Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

I.2 SAFETY INSTRUCTIONS

The Avenview SPLIT-DVI-5, 5 Port DVI Splitter, has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment's, the SPLIT-DVI-5 should be used with care. Read the following safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- ⚠ Do not dismantle the housing or modify the module.
- ⚠ Dismantling the housing or modifying the module may result in electrical shock or burn.
- ⚠ Refer all servicing to qualified service personnel.
- ⚠ Do not attempt to service this product yourself as opening or removing housing may expose you to dangerous voltage or other hazards
- ⚠ Keep the module away from liquids.
- ⚠ Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- ⚠ Have the module checked by a qualified service engineer before using it again.
- ⚠ Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.



1.3 REGULATORY NOTICES FEDERAL COMMUNICATIONS COMMISSION (FCC)

This equipment has been tested and found to comply with Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment.

Warning symbols	Description
	ONLY USE THE PROVIDED POWER CABLE OR POWER ADAPTER SUPPLIED. DO NOT TAMPER WITH THE ELECTRICAL PARTS. THIS MAY RESULT IN ELECTRICAL SHOCK OR BURN.
	DO NOT TAMPER WITH THE UNIT. DOING SO WILL VOID THE WARRANTY AND CONTINUED USE OF THE PRODUCT.
	THE VIDEO BOARDS ARE VERY SENSITIVE TO STATIC. PLEASE ENSURE IF RACK MOUNTED OR INSTALLED ON A SURFACE, IT SHOULD BE IN A GROUNDED ENVIROMENT.
	 WARNING Read & understand user guide before using this device. Failure to follow the proper installation instructions could result in damage to the product and preventing expected results.

2. INTRODUCTION

Avenview SPLIT-DVI-5 Distribution System is designed to input your digital video signal example (Set-Top boxes, DVD Player or PC) into DVI input port and distribute the video signal to five digital displays such as PC Monitor, HDTV, LCD, LED or Projector.

- Supports both PC Monitor and HDTV display by Front Panel switch
- Supports HDCP compliant device
- Compatible with DVI Standard by DDWG
- The use of standard DVI-D Plug
- Support 480i, 480p, 720i, 720p, and 1080i/1080p resolution for HDTV
- Supports up to WUXGA (1920 x 1200) resolution for PC Monitor
- Connects two or more digital display at the same time from the same digital video source
- Waiting Mode for Low Power (50mW)

2.1 PACKAGE CONTENTS

Before you start the installation of the Extender/Splitter, please check the package contents.

1	SPLIT-DVI-5	X 1	
2	Power Adapter (+5VDC)	X1	
4	User's Manual	X 1	



2.2 BEFORE INSTALLATION

- Put the product in an even and stable location. If the product falls down or drops, it may cause an injury or malfunction.
- Don't place the product in too high temperature (over 50°C), too low temperature (under 0°C) or high humidity.
- Use the DC power adapter with correct specifications. If inappropriate power supply is used then it may cause a fire.
- Do not twist or pull by force ends of the Video cable. It can cause malfunction.

SPLIT-DVI-5

WSXGA+(1680X1050) = 15m (50 feet) DVI
WUXGA(1920X1200) = 10m (33 feet) DVI

LAYOUT 2

CABLE INDEX

Output ■
Input / Source ■



SPLIT-DVI-5

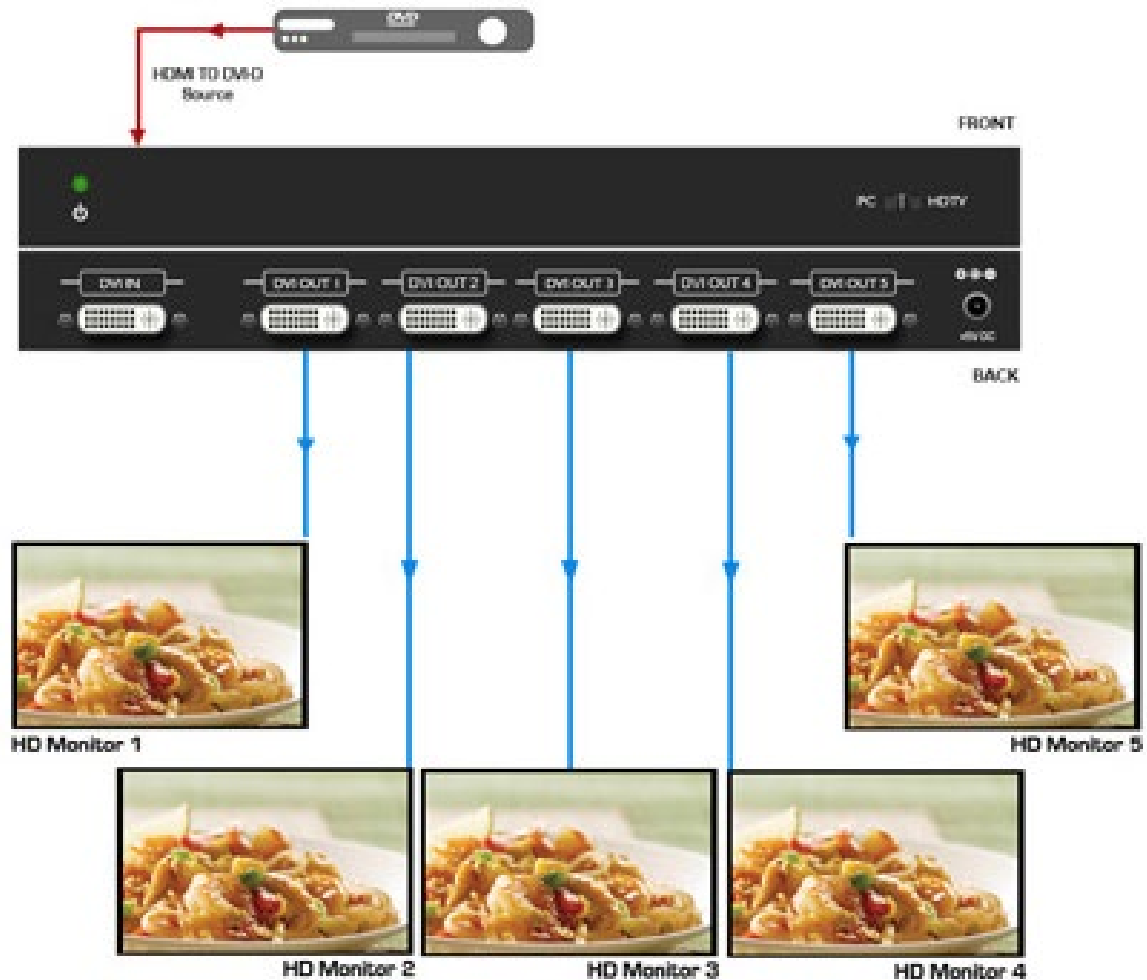
720P/1080i = 15m (50 feet) DVI
1080p = 10m (33 feet) DVI

LAYOUT 2

CABLE INDEX

Output ■

Input / Source ■

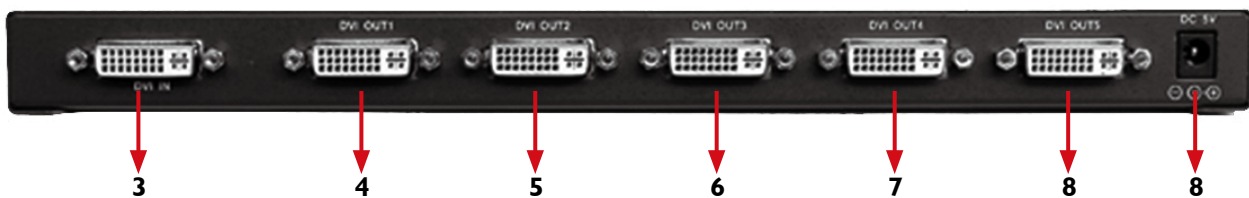


2.3 PANEL DESCRIPTION

2.3.1 Front Panel



2.3.2 Rear Panel



1. Power LED	2. Mode Selector
3. DVI In	4. DVI Out - 1
5. DVI Out - 2	6. DVI Out - 3
7. DVI Out - 4	8. DVI Out - 5
9. Power in	

3. INSTALLATION

The installation of SPLIT-DVI-5 is simple:

1. Power off display source such as DVD Player, Set-top box
2. Connect the DVI cable into each display source and display
3. Connect DVI cable which is attached to display source into SPLIT-DVI-5
4. Connect Power to SPLIT-DVI-5
5. For HDTV Signal select HDTV from Front panel Switch and for PC Signal select PC



4. SPECIFICATIONS

Item	Description
UNITS	SPLIT-DVI-5
UNIT DESCRIPTION	5 Port DVI Splitter
DVI VERSION	1.0
HDCP COMPLIANCE	1.1
CLOCK FREQUENCY	25MHz – 225 MHz
SUPPORTED RESOLUTION & DISTANCE	Up to WUXGA 1920 x 1200
DVI CONNECTOR	29 pin DVI-D Plug
DIMENSIONS (L X W X H)	12" x 4.6" x 1"
POWER SUPPLY	5V 2A DC
POWER CONSUMPTION	5W (max)
WEIGHT	2lbs
ENVIRONMENTAL	
OPERATING TEMPERATURE	32° ~ 104°F (0° to 40°C)
STORAGE TEMPERATURE	-4° ~ 140°F (-20° ~ 60°C)
RELATIVE HUMIDITY	20~90% RH (no condensation)

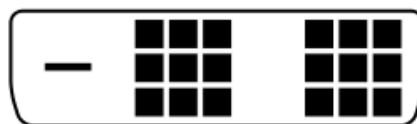


5. SUPPORTED RESOLUTIONS

SUPPORTED RESOLUTIONS			
480P	SD	720x480	59.94Hz, 60Hz
576P	EDTV	720x576	50Hz
720P	HD	1280x720	29.3Hz, 30Hz, 50Hz, 59.94Hz, 60Hz
1080i	FULL HD	1920x1080	25Hz, 29Hz, 30Hz
1080P	FULL HD	1920x1080	29.94Hz, 30Hz, 50Hz, 59.94Hz, 60Hz
VGA	PC	640X480	60Hz, 72Hz, 75Hz, 80Hz
SVGA	PC	800X600	56Hz, 60Hz, 72Hz, 75Hz, 85Hz
XGA	PC	1024x768	60Hz, 70Hz, 75Hz, 85Hz
XGA+	PC	1152x864	75Hz
SXGA	PC	1280X1024	60Hz, 75Hz, 85Hz
UXGA	PC	1600X1200	60Hz
SXGA+	PC	1400x900	59.94Hz, 60Hz
WSXGA+	PC	1680X1050	60Hz
WUXGA(RD)	PC	1920X1200	59.61Hz



6. CONNECTOR PIN ASSIGNMENTS



DVI-D (Single Link)

6.1 TRANSMITTER (OUTPUT)

PIN	SIGNAL ASSIGNMENT	PIN	SIGNAL ASSIGNMENT	PIN	SIGNAL ASSIGNMENT
1	T.M.D.S. Data2-	9	T.M.D.S. Data1-	17	T.M.D.S. Data0-
2	T.M.D.S. Data2+	10	T.M.D.S. Data1+	18	T.M.D.S. Data0+
3	T.M.D.S. Data2 Shield	11	T.M.D.S. Data1 Shield	19	T.M.D.S. Data0 Shield
4	No Connect	12	No Connect	20	No Connect
5	No Connect	13	No Connect	21	No Connect
6	No Connect	14	+5V Power	22	T.M.D.S. Clock Shield
7	No Connect	15	Ground for +5V	23	T.M.D.S. Clock+
8	No Connect	16	No Connect	24	T.M.D.S. Clock-

6.2 RECEIVER (INPUT)

PIN	SIGNAL ASSIGNMENT	PIN	SIGNAL ASSIGNMENT	PIN	SIGNAL ASSIGNMENT
1	T.M.D.S. Data2-	9	T.M.D.S. Data1-	17	T.M.D.S. Data0-
2	T.M.D.S. Data2+	10	T.M.D.S. Data1+	18	T.M.D.S. Data0+
3	T.M.D.S. Data2 Shield	11	T.M.D.S. Data1 Shield	19	T.M.D.S. Data0 Shield
4	No Connect	12	No Connect	20	Ground
5	No Connect	13	No Connect	21	No Connect
6	DDC Clock (SCL)	14	No Connect	22	T.M.D.S. Clock Shield
7	DDC Data (SDA)	15	Ground	23	T.M.D.S. Clock+
8	No Connect	16	Hot Plug Detect	24	T.M.D.S. Clock-

7. GENERAL TROUBLESHOOTING

Problem	Possible Solutions
NO IMAGE	• Check if connection to the computer and the monitor are correct. • Check if the connection to the HD source and the monitor is seated properly
SCREEN DEFECTS APPEAR	• Make sure the PC switch is on the correct selection for PC resolution • Make sure the HDTV switch is on the correct selection for HDTV resolution • This product supports up to 1080P (1920x1080) and up to Wuxga (1920x1200) resolutions • Check the all DVI cables are seated properly • Check the maximum resolution of the Source and Displays.



Notes



Avenview Warranty Certificate

AVENVIEW CORP. ("Avenview") warrants Avenview-branded product(s) contained in the original packaging against defects in materials and workmanship when used normally in accordance with Avenview's enclosed manual guidelines for a period of THREE (3) YEARS from the date of original retail purchase - Warranty Period. Avenview's published guidelines include but are not limited to information contained in technical specifications, user manuals and service communications.

LABOR: During the Warranty Period of THREE (3) YEARS, Avenview will repair or replace the product(s) at no cost using new or used parts equivalent to novel performance and reliability if the product(s) is determined to have abide by Avenview's published guidelines. Cost of Labor applicable to product(s) after Warranty Period. For labor costs, please contact support@avenview.com.

PARTS: During the Warranty Period of THREE (3) YEARS, Avenview will supply new or rebuilt replacements in exchange for defective parts of the product(s) at no cost if the product(s) is determined to have abide by Avenview's published guidelines. Cost of Parts applicable to product(s) after Warranty Period. For part(s) costs, please contact support@avenview.com.

To obtain Warranty: (a) proof of purchase in the form of a bill of sale or receipted invoice reflecting that the registered product(s) is within warranty period must be presented to obtain warranty service; (b) product(s) must be registered at time of purchase. Failure to do so will result in applicable parts and labor charges. Returning product(s) must be shipped in Avenview's original packaging or in packaging pertaining equal degree of protection to Avenview's. Both Avenview and purchaser are responsible for freight charges and brokerages when shipping the product(s) to the receiver.

NOT COVERED BY THIS WARRANTY

This warranty does not apply to any non-Avenview branded product(s); non-registered Avenview product(s). This warranty does not apply: (a) to cosmetic damage, including but not limited to scratches, dents and broken cords; (b) to damage caused by use with another product; (c) to damage caused by accident, abuse, misuse, liquid contact, fire, earthquake or other external cause; (d) to damage caused by operating the Avenview product(s) outside Avenview's manuals or guidelines; (e) to damage caused by service performed by anyone who is not a representative of Avenview or an Avenview authorized personnel; (f) to defects caused by normal wear and tear or otherwise due to the normal aging of the Avenview product(s), or (g) if any serial number has been removed or defaced from the Avenview product(s).

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275 Woodward Avenue, Kenmore, NY 14217
1.866.508.0269





AV Connectivity, Distribution And Beyond...

TECHNICAL SUPPORT

CONTACT US



Phone: 1 (866) 508 0269



Email: support@avenview.com



USA Head Office Avenview Corp. 275 Woodward Avenue Kenmore, NY 14217

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