

geratech®



EGE-DVI-341

3×1 DVI Switcher

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1. Application

EGE-DVI-341 DVI Switcher is a high performance digital HD signal processor that designed for use in switching between various DVI sources such as satellite receiver, DVD player and PCs for sharing one TV display.

2. Features

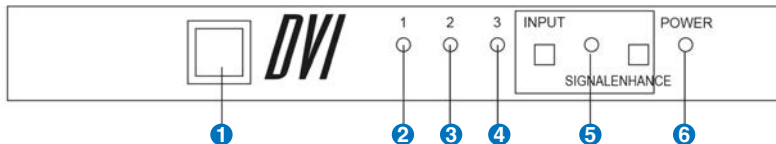
- * HDCP 1.1 and DVI 1.0 compliant
- * The unit has the function of signal enhancer to improve the signal quality after long distance transmission.
- * LED indicators
- * Ideal for home theater integration.
- * Supports high resolution:
PC:VGA, SVGA, XGA, SXGA and UXGA 1600X 1200,&
DTV: 480i, 576i, 480p, 576p, 720p, 1080i and 1080p @ 60Hz
- * Remote control
- * Easy to install and simple to operate
- * Low cost solution for home theater integration
- * Plug-and-Play. No software installation
- * EGE-DVI-341 can be controlled either through input selection button on the front panel or using an included infrared remote control.

3. Package Includes

- The EGE-DVI-341 unit
- IR remote control
- 5VDC power supply with universal plugs

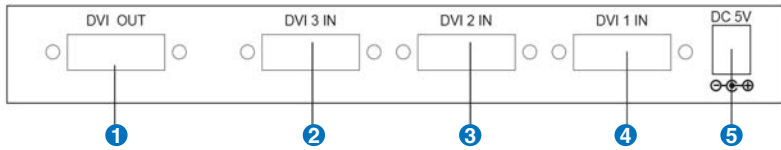
4. Operation Controls and Functions

Front Panel



- ① IR sensor: Infrared remote control sensor.
- ② LED 1: When it lights up, it means source 1 is selected.
- ③ LED 2: When it lights up, it means source 2 is selected.
- ④ LED 3 : When it lights up, it means source 3 is selected.
- ⑤ Signal Enhance: After long distance transmission you can press this button to enhance the signal.
- ⑥ Power: When power LED lights up, the unit works on.

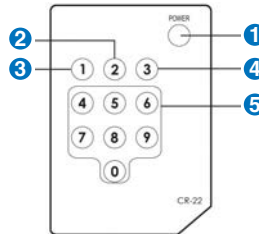
Rear Panel



- ❶ DVI out: Use a DVI to DVI cable to connect to your display.
- ❷ DVI 3 in: Use a DVI to DVI cable to connect to your source 3.
- ❸ DVI 2 in: Use a DVI to DVI cable to connect to your source 2.
- ❹ DVI 1 in: Use a DVI to DVI cable to connect to your source 1.
- ❺ DC power jack: 5V 2A DC power input.

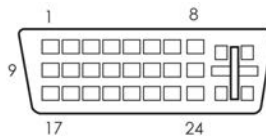
Remote Control

- ❶ Power: Switch between power ON and Standby. 4
- ❷ Press button 1 to select source 1.
- ❸ Press button 2 to select source 2.
- ❹ Press button 3 to select source 3.
- ❺ 4~0: Void buttons.



DVI-D Pin Configuration

DVI-Digital (DVI-D): Supports display-only connections between the host computer and display. This interface is designed for a 12 or 24-pin connection to enable single or dual-link mode activation.



Digital-Only Connector Pin Assignments					
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. Data2/4 Shield	11	T.M.D.S. Data1/3 Shield	19	T.M.D.S. Data0/5 Shield
4	T.M.D.S. Data4-	12	T.M.D.S. Data3-	20	T.M.D.S. Data5-
5	T.M.D.S. Data4+	13	T.M.D.S. Data3+	21	T.M.D.S. Data5+
6	DDC Clock	14	+5V Power	22	T.M.D.S. Clock Shield
7	DDC Data	15	Ground (for +5)	23	T.M.D.S. Clock+
8	No Connect	16	Hot Plug Detect	24	T.M.D.S. Clock-

5. Specifications:

- * Frequency bandwidth: 1.65Gbps(Single link)
- * Inputs: 3 DVI-I female ports (Single link)
- * Output: 1 DVI-I female port (Single link)
- * Power supply: 5VDC 2A/ center positive
- * Weight: 0.57kgs
- * Dimension: 105(W) x20(L) x 25(H)mm

6. RS-232 Remote Control Protocol

The connection between splitter and remote controller with RS-232 modem cable. ns definition of modem cable

Splitter		Remote Controller	
PIN	Definition	PIN	Definition
1	NC	1	NC
2	T xD	2	R xD
3	R x D	3	T x D
4	NC	4	NC
5	GND	5	GND
6	NC	6	NC
7	NC	7	NC
8	NC	8	NC
9	NC	9	NC

RS-232 transmission format:

Baud Rate : 9600 bps Parity: None
 Data Bit : 8 Bits Stop Bit: 1 bit
 RS-232 command

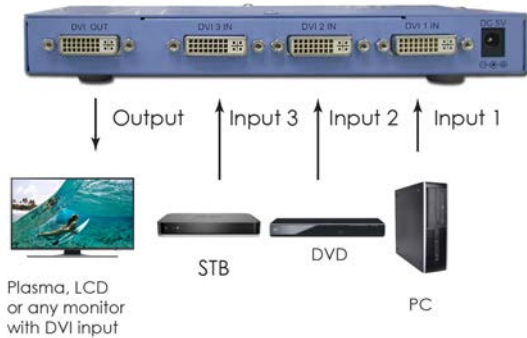
- * The command is combined with a characters and digits.
- * This combination command code has to be separated by ASCII character

SPACE

- * The command will be executed after ASCII character "CR" input
- * After ASCII character "CR" is entered, if the command is legal the unit will reply "OK" message
- * If the command is illegal, The unit will reply "NG" message

Command Code	Comment
PORT 1	PORT 1 ON
PORT 2	PORT 2 ON
PORT 3	PORT 3 ON
SIGNAL 1	ENABLE SIGNAL ENHANCE
SIGNAL 0	DISABLE SIGNAL ENHANCE
POWER 1	POWER ON
POWER 0	POWER OFF

7. Connection and Installation



Trouble Shooting Guide

When there is no picture present, please check:

1. Whether all connectors connect well or not? Or
2. Whether the connecting cable is damaged?



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