



# **EGE-DSCA-DVI-CV** DVI to CV Scaler



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#### SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.

Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

#### **REVISION HISTORY**

VERSION NO.	DATE DD/MM/YY	SUMMARY OF CHANGE
VR0	25/04/11	Preliminary Release
VS1	11/10/12	Updated format/diagrams
VR1	10/07/14	Add Auto TV 4:3X

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# EGE-DSCA-DVI-CV DVI to CV Scaler



#### **1. INTRODUCTION**

The DVI to Video Scan Converter is designed to convert the digital video signal from DVI-D sources to analog composite (CVBS) signal (NTSC or PAL). It is HDMI and DVI compliant and has many great features such like 3D noise reduction, frame rate conversion, adaptive contrast enhancement and many more. It also has a simple on-screen display (OSD) menu that allows the user to access the display status including input/output information.

#### 2. APPLICATIONS

- Convert DVI-D signal to Composite (CVBS) signal
- · Display graphics card signal on CRT monitor
- Display PC signal to LCD display

#### **3. PACKAGE CONTENTS**

- DVI-D to Video Scan Converter
- Power Adaptor
- Operation Manual

#### **4. SYSTEM REQUIREMENTS**

Input source equipment such as a PC/Notebook with DVI cable and output display (TV) with CVBS input port and cable.

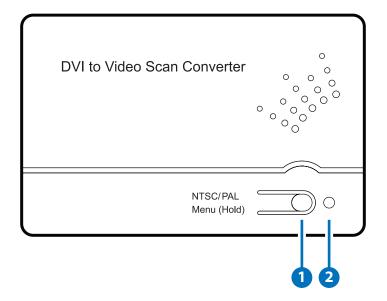
#### **5. FEATURES**

- DVI 1.0 compliant
- Converts video signal from DVI-D source to NTSC/PAL composite (CVBS) signal
- Accepts a wide range of input resolutions of 480p to 1080p@60 Hz (DVI-D) and VGA to WUXGA@60 Hz (PC)
- 3D noise reduction in both the temporal and spatial domain
- Frame rate conversion
- Adaptive contrast enhancement
- OSD Display
- Overscan and underscan adjustment
- Phase and Aspect adjustment
- No software installation required
- Compact and elegant design

Note: The converter does NOT support HDCP. If any HDCP-encrypted content is played, there will no any video output.

## 6. OPERATION CONTROLS AND FUNCTIONS

6.1 Top Panel



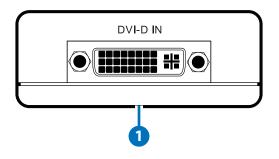
**1** NTSC/PAL MENU (Hold): Press this button to bring up the On-Screen Display (OSD) which will display the input timing and the output TV format information.

When the OSD is displayed, press the button again to switch the output TV system from NTSC to PAL or from PAL to NTSC.

Press and hold this button for 3 seconds the OSD will bring up the selection menu. Press it sequentially to select the required setting.

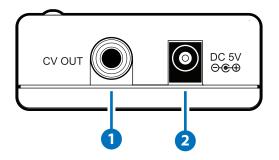
POWER LED: This LED will illuminate in RED when the unit is connected to the power supply.

6.2 Left Panel



**1 DVI-D IN:** Connect to the DVI equipped source equipment such as a PC or notebook for DVI input signal with a DVI cable.

6.3 Right Panel



- **1 CV OUT:** Connect to the output display TV or monitor with RCA cable for display of the converted composite (CVBS) signal.
- **2 DV5V:** Plug the 5V DC power supply included in the package into the unit and connect the adaptor to an AC wall outlet.

#### 6.4 OSD Menu

IN	1280×960	0 @60 (Input Timing)	Press the Menu button once to bring up the OSD and display	
OUT	DUT NTSC (Output TV System)		the input (IN) and Output (OUT) information.	
	rscan 1 rscan 2		Press and hold the MENU button for 3 seconds to bring up the OSD then press it repeatedly to move the OSD cursor to the desired selection.	
Overs			Once the selection is made, if the MENU button is not pressed	
		Full Screen	for a few seconds, the OSD will	
		Letterbox	disappear and the display will output following the selected	
Aspect Adj	Pan & Scan	parameters.		
	Auto TV 4:3			
	Auto TV 4:3X			
	Auto TV 16:9			

Below is the example of the scan selection result.

	4:3			
Source	TV	Underscan1	Underscan2	Overscan

**Aspect Adjustment:** There are total of 5 different aspect ratio adjustments: Full Screen, Letterbox, Pan & Scan and Auto TV 4:3 & Auto TV 16:9.

Full Screen: To allow the image to fill the screen of the TV.

**Letterbox:** To fit a 16:9 formatted video signal on a 4:3 display. Horizontal Black bars will be displayed above and below the image

**Pan & Scan:** To fit a 4:3 formatted video signal on a 16:9 display. Vertical black bars will be displayed at both sides of the the image.

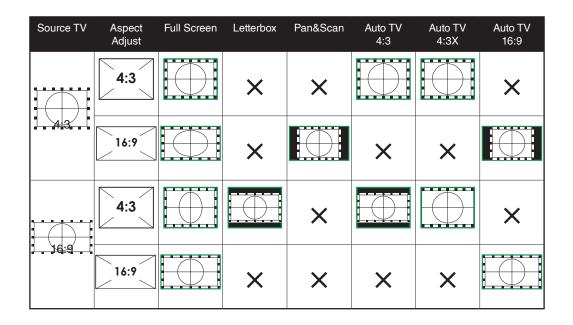
**Auto TV 4:3:** The device will detect the input source aspect ratio of 4:3 or 16:9 and automatically make the adjustment of Full Screen

or Letterbox to 4:3.

Auto TV 4:3X: The device will detect the input source aspect ratio of 4:3

or 16:9 and automatically make the adjustment of Full Screen or Cropped Pan&Scan to 4:3. **Auto TV 16:9:** The device will detect the input source aspect ratio of 16:9 or 4:3 and automatically make the adjustment to 16:9.

Blow is the sample chart of the selection result:

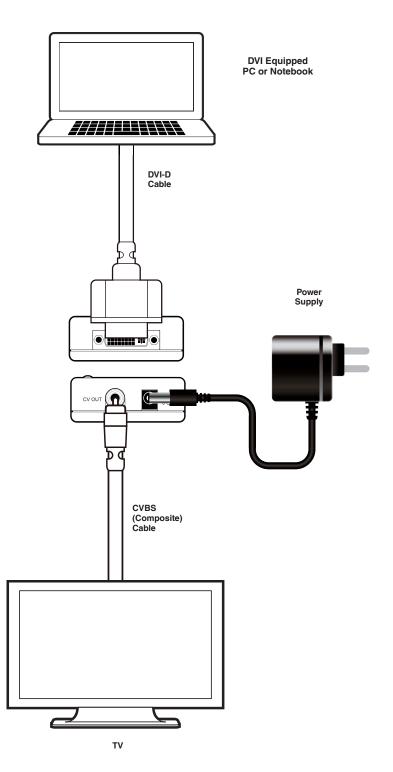


#### 6.5 Supported Input Timing

	480p	60
	576p	50
HD Timing	720p	50/60
	1080i	50/60
	1080p	50/60
	640×480	60/72/75/85
	720×400	70
	800×600	56/60/72/75/85
	1024×768	60/70/75/85
	1152×864	70/75/85
	1280×720	60
	1280×768	60/60 (RB)
PC Timing	1280×800	60/60 (RB)
	1280×960	60
	1280×1024	60
	1366×768	60/60 (RB)
	1400×1050	60/60 (RB)
	1440×900	60/60 (RB)
	1600×1200	60
	1680×1050	60/60 (RB)
	1920×1200	60 (RB)

Note: If the input resolution is not supported, the OSD will show 'IN Not Support'.

# 7. CONNECTION DIAGRAM



#### 8. SPECIFICATIONS

Input Port	1×DVI-D
Output Ports	1×CVBS
Output Video	NTSC/PAL
ESD Protection	Human body model:
	±8kV (air-gap discharge)
	±6 kV (contact discharge)
Power Supply	5V DC/1A linear power adaptor (US/EU standards, CE/FCC/UL certified)
Dimensions	64 mm (W)×104 mm (D)×26 mm (H)
Weight	120 g
Chassis Material	Plastic
Silkscreen Color	White
Operating Temperature	0 °C~40 °C/32 °F~104 °F
Storage Temperature	–20 °C~60 °C/–4 °F~140 °F
Power Consumption	3 W
Relative Humidity	20~90% RH (non-condensing)

#### 9. ACRONYMS

ACRONYM	COMPLETE TERM
CRT	Cathode Ray Tube
HDMI	High-Definition Multimedia Interface
LCD	Liquid Crystal Display
NTSC	National Television System Committee
PAL	Phase Alternating Line

