# VGA to DVI Converter

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

AV Connectivity, Distribution And Beyond...



**Model #: C-VGA-DVI**

# Product Application & Market Sectors

Coroprate

House Of Worship

Military

Residential

Education

Industrial

Medical

Aviation

# TABLE OF CONTENTS

# SECTION 1: GETTING STARTED

## 1.1    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.

## 1.2    SAFETY INSTRUCTIONS

The Avenview C-VGA-DVI, VGA to DVI Converter has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment's, the C-VGA-DVI 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.

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. |
|   BEWARE this unit contains static sensitive devices | 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 C-VGA-DVI converts analog VGA signal from Desktop or Laptop to DVI digital signal, so that any DVI compatible monitors such as LED, LCD or Projectors can be utilized.

-   Converts VGA to DVI Signal
-   Output Connector: DVI 24 pin (female), 15 pin D-sub (female)
-   Input Connector: 15 pin D-Sub
-   Compatible with DVI Standard by DDWG
-   Manual screen control key for corresponding to versatile resolution
-   Supports up to WUXGA(1920X1200)@60Hz and 1080p(1920x1080) and
-   UXGA, WSXGA+, SXGA, XGA, SVGA, VGA resolution
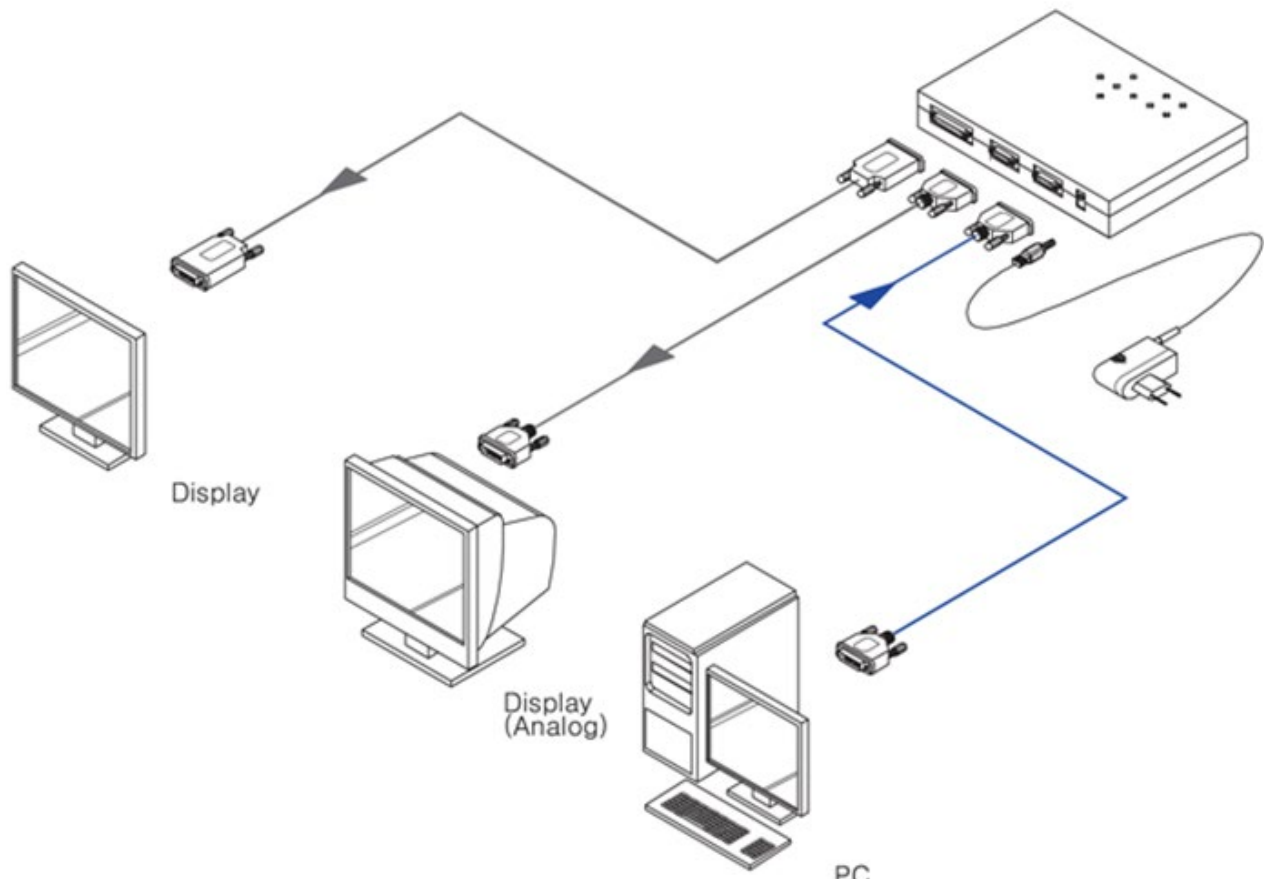
## 2.1     PACKAGE CONTENTS

Before you start the installation of the converter, please check the package contents.

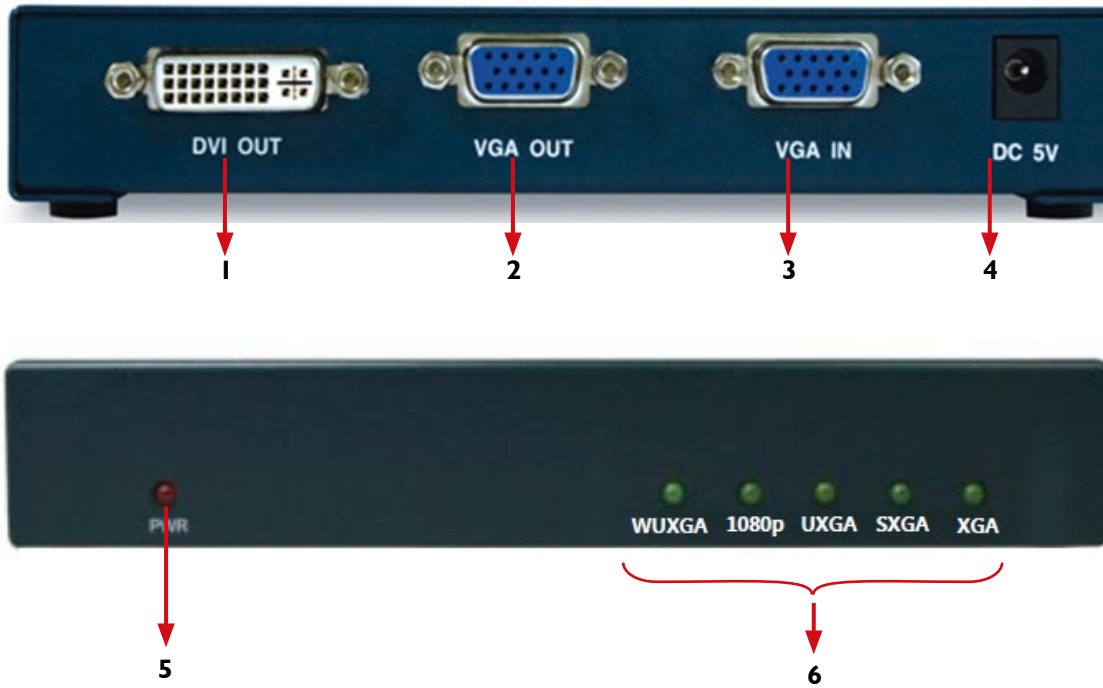| | | | |
|---|---|---|---|
| 1 | C-VGA-DVI | X 1 | |
| 2 | Power Adapter | X1 | |
| 3 | User's Manual | X 1 | |

- 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.



Display

Display
(Analog)

PC

## 3.    INSTALLATION

Follow these steps to connect Avenview C-VGA-DVI converter:

1. Connect the VGA connector C-VGA-DVI
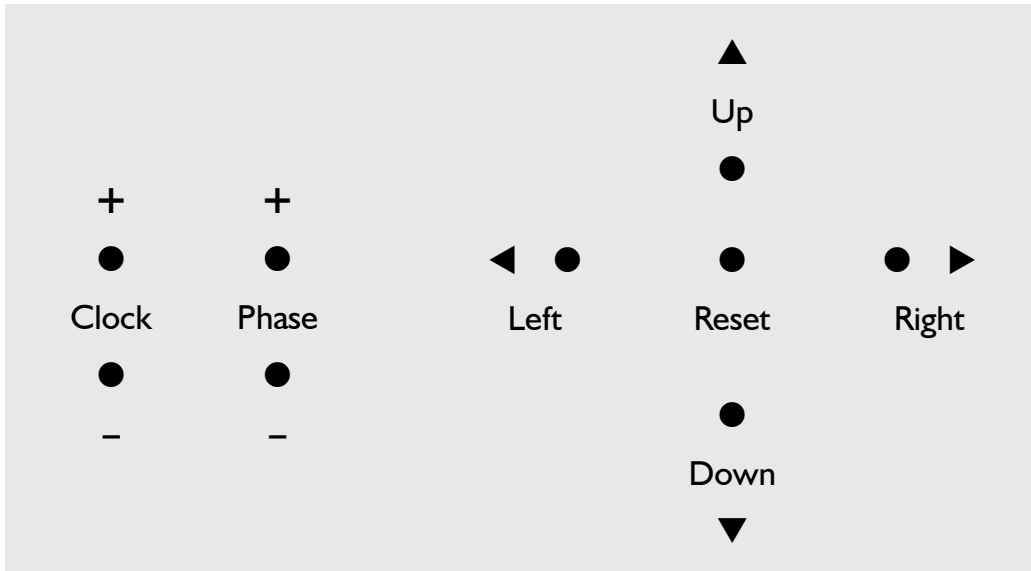2. Connect DVI display to C-VGA-DVI DVI Output
3. Plug the 5V DC power supply

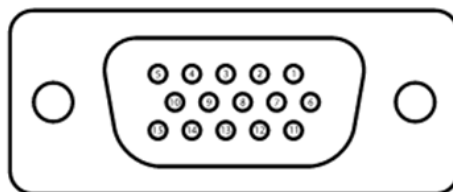| 1. | DVI Out | 2. | VGA Out |
|----|---------|----|---------|
| 3. | VGA In | 4. | Power In |
| 5. | Power LED Indicator | 6. | Resolution LED Indicator |

*Please ensure that the display resolution set in PC is supported by the Monitor/TV.*

## 3.1 Top Cover Adjustment Guide

| BUTTON NAME | DESCRIPTION |
|---|---|
| Clock | Adjusts clock : increase (+) / decrease (−) |
| Phase | Adjusts phase : increase (+) / decrease (−) |
| Reset | Reset to initial setting |
| Up/Down/Right/Left (▲/▼/▶/◀) | Adjusts screen location |

## 3.2 Receiver (Input) – D-SUB

| RECEIVER (INPUT) – D-SUB PIN | SIGNAL ASSIGNMENT | PIN | SIGNAL ASSIGNMENT | PIN | SIGNAL ASSIGNMENT |
|---|---|---|---|---|---|
| 1 | RED | 6 | RGND | 11 | GND |
| 2 | GREEN | 7 | GGND | 12 | No Connect |
| 3 | BLUE | 8 | BGND | 13 | H Sync |
| 4 | GND | 9 | No Connect | 14 | V Sync |
| 5 | GND | 10 | SGND | 15 | No Connect |

| TRANSMITTER (OUTPUT) - DVI 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 | Hot Plug Detect | 24 | T.M.D.S Clock- |
| C1 | No Connect | C2 | No Connect | C3 | No Connect |
| C4 | No Connect | C5 | No Connect | | |

DVI-D (Single Link)

## 4. SPECIFICATIONS

| ITEM | DESCRIPTION |
|---|---|
| UNITS | C-VGA-DVI |
| UNIT DESCRIPTION | VGA to DVI Converter |
| INPUT | 1 x Analog VGA (15 pin D-sub female) |
| OUTPUT | 1 x DVI Digital Single Link (24 pin female)<br>1 x Analog VGA (15 pin D-sub female) |
| VIDEO BANDWIDTH | 1.65Gbps (Single Link) |
| CLOCK FREQUENCY | 25Mhz - 165Mhz |
| DVI VERSION | 1.0 |
| OUTPUT SIGNAL | TMDS |
| DVI CONNECTOR | Type A 24 Pin Female |
| SUPPORT RESOLUTION | VGA,SVGA,XGA,SXGA,WSXGA+,UXGA,1080P,WUXGA |
| VGA CONNECTOR | 15 Pin Female |
| POWER ADAPTOR | 5V DC (110-220V 60HZ) |
| POWER CONSUMPTION | 2.3 watts (UXGA 1 Output) |
| SIZE | 162(W) x 26.7(H) x 104(D) mm<br>(6.4" x 1.1" x 4.1") inch |
| WEIGHT | 500 g (1.1 lbs) |

*Environmental*

| | |
|---|---|
| OPERATING TEMPERATURE | 32° ~ 104°F (0° to 50°C) |
| STORAGE TEMPERATURE | -4° ~ 140°F (-20° ~ 60°C) |
| RELATIVE HUMIDITY | 30~80% RH (no condensation) |

# Avenview

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