



## VGA De-Skew Controller



Model #: C-VGA-DSKW

**WUXGA**  
**1920x1200**

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## Table of Contents

Section 1: Getting Started .....	3
1.1 Important Safeguards .....	3
1.2 Safety Instructions .....	3
1.3 Regulatory Notices Federal Communications Commission (FCC) .....	4
1.4 Introduction .....	4
1.5 Package Contents.....	5
1.6 Before Installation.....	5
1.7 Panel Description .....	6
1.7.1 Front Panel .....	6
1.7.2 Rear Panel .....	6
1.7.3 Push Button.....	6
1.8 Installation .....	7
Section 2: Specifications.....	7

## 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-DSKW De-skew controller 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-DSKW 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.

### 1.4 Introduction

The Avenview C-VGA-DSKW VGA De-skew Controller offers the flexible functionality to allow skew compensation among VGA R, G, B signals or Component video Y, Pb, Pr due to long transmission or thru low quality cable. This unit is perfect for compensating for the skew introduced by a typical CAT-5/5e LAN cable with differing electrical lengths on each pair. By adjusting the delay between each color individually, the graphics or video quality can be assured.



- Control the delay of VGA colors individually
- Applicable for Component video (YPbPr)
- Stores the recent state of the adjustment
- Push buttons for delay compensation
- Work with the long distance transmitted VGA signal
- Portable size

## 1.5 Package Contents

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

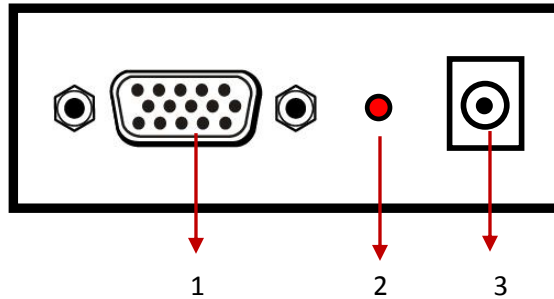
- C-VGA-DSKW x 1
- Power Adapter (+5VDC, 2A) x 1
- User's Manual x 1

## 1.6 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 optical cable. It can cause malfunction.

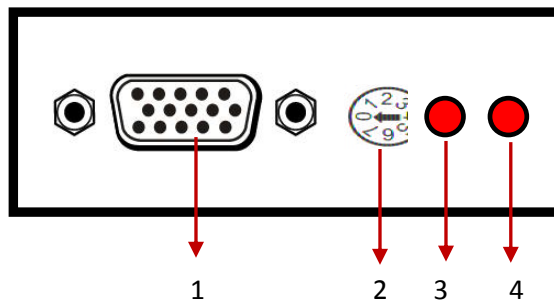
## 1.7 Panel Description

### 1.7.1 Front Panel



1. VGA Input	2. Power Indicator
3. 5V DC Power Jack	

### 1.7.2 Rear Panel



1. VGA Output	2. Rotary Switch (de-skew control: 0~2 for R, 3~5 for G, 6~7 for B)
3. Increase Delay	4. Decrease Delay

### 1.7.3 Push Button



There are totally 31 steps or 62 ns for tuning delays for each color. Pushing left or right button will automatically decrease or increase the phase delay for the selected channel.



## 1.8 Installation

To setup Avenview C-VGA-DSKW follow these steps for connecting to a device:

1. Connect VGA / Component source to VGA-IN Port
2. Connect VGA / Component enabled monitors to VGA OUT Port
3. Power up the C-VGA-DSKW
4. Compensate the delays between colors
5. Power on HDMI Sources.

## Section 2: Specifications

Item	Description
<b>Units</b>	C-VGA-DSKW
<b>Unit Description</b>	VGA / Component De-Skew Controller
<b>Video Bandwidth</b>	Single Link 122 MHz
<b>Supported Resolutions</b>	Up to WUXGA 1920x1200
<b>Delay Controls</b>	62ns for each color with 2ns delay step increments
<b>Input</b>	1 x VGA
<b>Output</b>	1 x VGA
<b>Dimensions (L x W x H)</b>	2.8" x 3.3" x 1.0"
<b>Power Supply</b>	5V 2A DC
<b>Power Consumption</b>	1 Watt (max)
<b>Environmental</b>	
<b>Operating Temperature</b>	32° ~ 104°F (0° to 40°C)
<b>Storage Temperature</b>	-4° ~ 140°F (-20° ~ 60°C)
<b>Relative Humidity</b>	20~90% RH (no condensation)



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