Avenview

USER GUIDE

Universal Video Converter / Scalar with Audio

Model #: C-SC-UNI

HD ready 1080p

dvi digital visual interface

WUXGA 1920x1200

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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 C-SC-UNI, Avenview Universal Video Converter and Scalar with Audio 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-SC-UNI 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

Avenview C-SC-UNI Universal Video Converter / Scalar with Audio offers the highest compatibility among composite, component, DVI, VGA, HDMI and S-Video to VGA and DVI in the market. This unique device supports analog and digital conversion and scaling without loss of quality. With the embedded advanced de-interlace, interlaced video inputs, such as component, composite and S-Video, can be further improved. The wide range video support in both input and output can be up to WUXGA or 1080p. C-SC-UNI supports the insertion of stereo analog audio and S/PDIF inputs into HDMI output! With this advanced feature, users can combine asynchronous video and audio sources into the state-of-art HDMI compliant A/V signal for further long range lossless transmission and high standard A/V experience.

C-SC-UNI is designed to ease the conversion among the available video formats with affordable cost. With C-SC-UNI, the bothersome video format issues will not become a bottleneck in your applications. With versatile IR remote control, C-SC-UNI offers a very easy way to convert, switch, and adjust video at your convenience. With PIP and PAP support, users can display two video inputs at the same time.

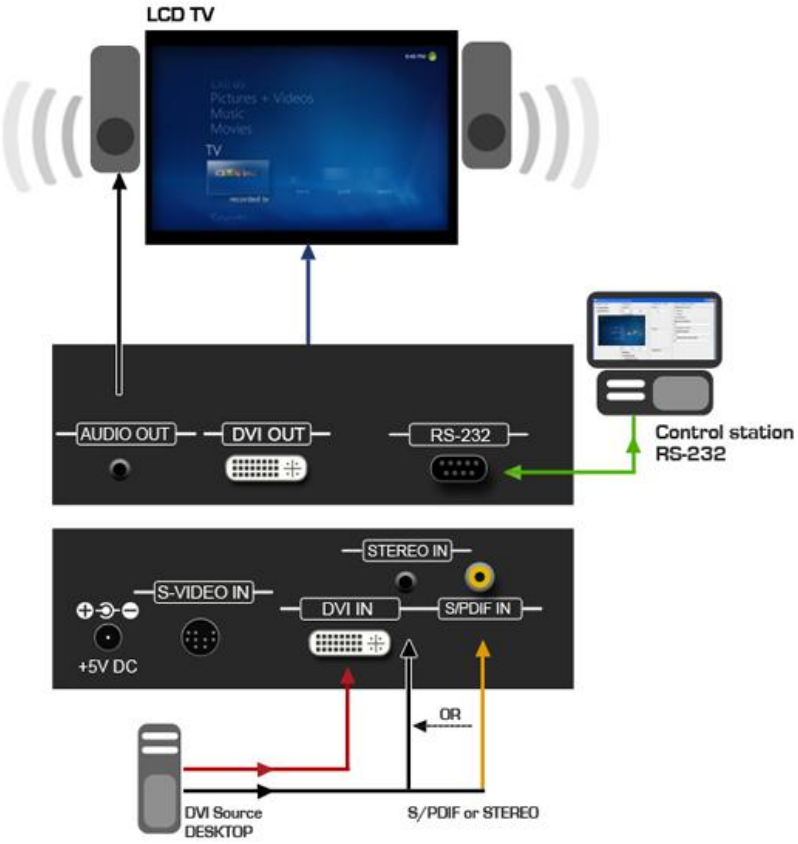
- HDMI 1.2, HDCP 1.1 and DVI 1.0 compliant
- Scales up and down VESA compliant formats (VGA and DVI)
- Scales SD/ED/HD video inputs to VESA compliant formats
- PIP and PAP support
- Advanced video processing supports: noise reduction, color management, flesh tone control, dynamic contrast control, closed caption support for CVBS, 3-D de-interlacing, 3:2/2:2 pull down detection and recovery
- Selectable analog stereo and S/PDIF audio support for HDMI audio
- RS-232 Firmware upgradable
- Equivalent to 4x1 video switch
- Video output supports up to WUXGA, UXGA or 1080p
- Dual DVI and VGA outputs
- Internal timer
- Versatile IR control

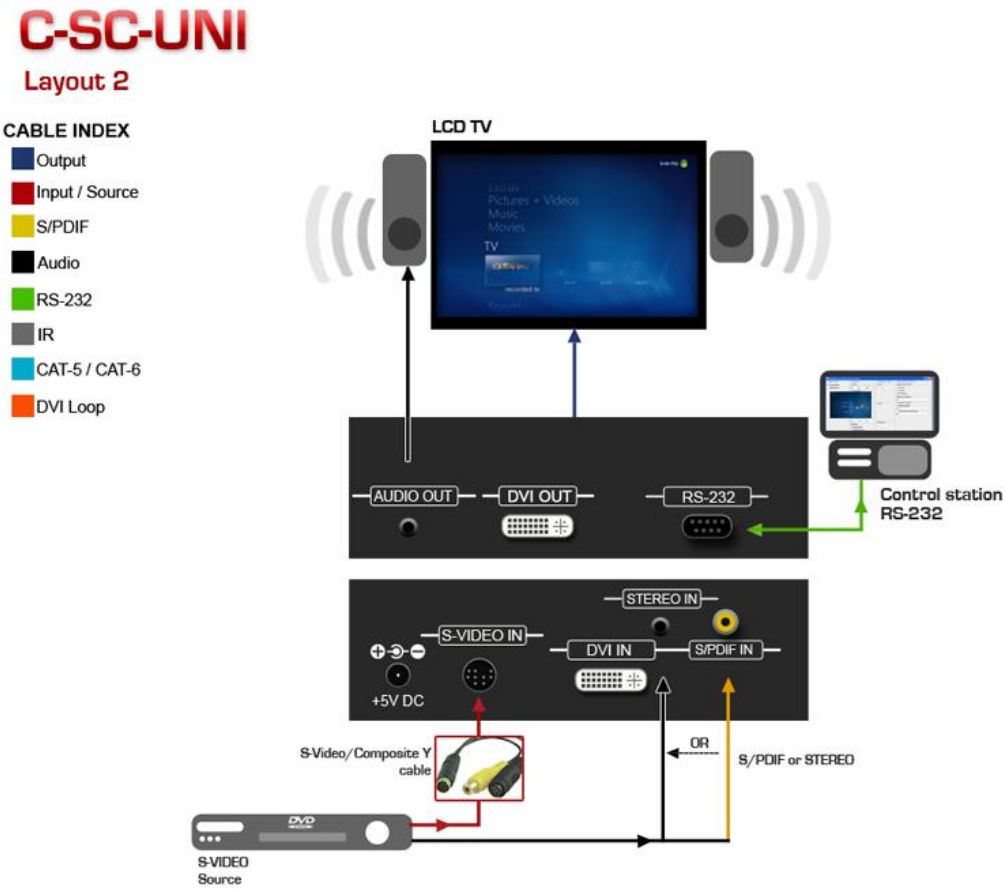
C-SC-UNI

Layout 1

CABLE INDEX

- Output
- Input / Source
- S/PDIF
- Audio
- RS-232
- IR
- CAT-5 / CAT-6
- DVI Loop





1.5 Package Contents

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

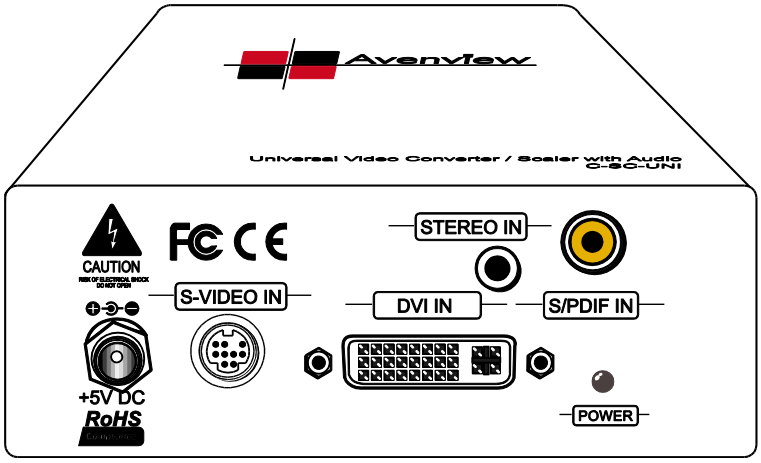
- C-SC-UNI x 1
- Breakout cable for Composite & S-Video x 1
- VGA to Component Cable x 1
- 3.5mm to RCA Audio Cable x 1
- IR Remote Control x 1
- Power Adapter (+5VDC) x 1
- User Guide x 1

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.

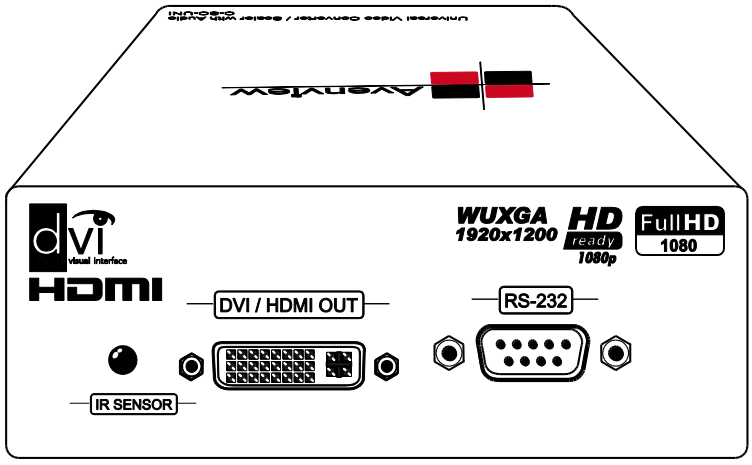
1.7 Panel Description

FRONT PANEL



1. 5V DC Power Jack	2. Composite & S-Video Jack
3. DVI-I Input Connector	4. Stereo Audio Jack
5. S/PDIF Audio Jack	6. Power Indicator

REAR PANEL



1. DVI-I Connector	2. RS232 Connector
DIP SWITCH	

Switch Position		
1	OFF ↑ (Normal Operation)	ON ↓ (Reset)
2	OFF ↑ (Normal Operation)	ON ↓ (Reset)

1.8 Installation

To setup Avenview C-SC-UNI follow these steps for connecting to a device:

1. Connect your Video sources to Input connectors
2. Connect your VGA, DVI, HDMI enabled monitors to DVI-I Output connector
3. Plug in 5V DC power cord to power jack of C-SC-UNI
4. Use IR Remote to select the input, setup the output resolution and adjust your video format

a. PIP and PAP only support digital and analog display or dual display for single input.
b. Analog stereo audio can merely support 2-channel audio. This version does NOT support 8-channel analog audio applications.
c. S/PDIF audio input can support 2 out of 8-channel audio input.
d. S/PDIF supports only 48KHz audio sample rate.

1.9 IR Remote Control

Idle

PIP/PAP Menu

Source: Sequential source switch

Info: Display input type and time

Auto: Auto adjustment for VGA input

C.C.: *No use in this model*

HDMI: No use in this model

Aspect: Aspect ratio change

Freeze Video

Sleep ON

Menu Control Buttons

TV: *No use in this model*

CV1: CVBS

CV2: *No use in this model*

YUV1: *No use in this model*

YUV2: *No use in this model*

SV1: S-Video

SV2: *No use in this model*

VGA: VGA

DV1: DVI/HDMI

F1: *No use in this model*

F2: Display input timing

F3: Auto color balance

1.10 General Troubleshooting

Problem	Possible Solution
No Image	• Check if connection to the source and the display are correct. • Ensure that display device supports 480p, 720p and 1080p resolution
Screen Defects Appear	• This product supports up to 1080p (1920x1200) resolution. • Check the DVI and HDMI connection

Section 2: Specifications

Item	Description
HDMI Compliance	1.2
HDCP Compliance	1.1
Digital Video Bandwidth	4.95 Gbps
Analog Video Bandwidth	165 MHz (Single Link)
Analog Audio Bandwidth	20 ~ 20KHz
Maximum Resolution	1080p /1920x1200 @ 60Hz
Max TMDS Input Clock	165MHz
Max Output Pixel Clock	165MHz
Input TMDS Signal	1.2 Volts (peak-to-peak)
Input DDC Signal	5 Volts (peak-to-peak, TTL)
Input	1 x DVI 1 x S-Video (HDMI, CVSB, VGA, Component through Adapters)
Output	1 x DVI 1 x VGA (through DVI to VGA Adapter)
PIP/PAP	Yes
Audio Support	Stereo 24-bit ADC) / S/PDIF
ESD Protection	- Human body : ±19kV (air-gap discharge) and ±12kV (contact discharge) - Core chipset: ±2kV
IR Remote Control	Electro-optical characteristics: τ = 25˚ / Carrier frequency: 38kHz
DIP Switch	Restore Default
Dimensions (L x W x H)	4.9” x 6.5” x 1.6”

Environmental

Operation	0˚ to 40˚C (32 ~ 104˚F)
Storage	-20˚C ~ 60˚C (-4 ~ 140˚F)
Humidity	20 ~ 90% RH (no condensation

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