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KD-VCS500

Video Converter & Scaler

Setup Guide





The Experts in Digital Video Technology and Solutions



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You MUST use the Power Supply provided with your unit or you VOID the Key Digital® Warranty and risk damage to your unit and associated equipment.



Please read all instructions to insure safe operation of the product.

About KD-VCS500

KD-VCS500 is a Video Converter & Scaler of VGA/Audio to HDMI.

Key Features

- > Converts: VGA video+ analog audio to digital HDMI video and audio
- > Embeds: Incoming analog audio onto the HDMI output
- > Up-scales: VGA resolutions to 720p or 1080p
- Supports the following VGA resolutions: 640x480@60, 800x600@60, 1024x768@60, 1152x864@60Hz, 1280x720@60, 1280x768@60, 1280x800@60, 1280x960@60, 1360x768@60, 1360x768@60, 1280x900@60, 1280x1024@60, 1440x900@60/75, 1600x1050@60, 1680x1050@60, 1600x1200@60, 1920x1080@60
- >> Resolution Selection: Simple switching between 720p and 1080p up-scaling
 → Dual-color LED allows for easy identification of resolution mode
- > HDMI® and HDCP Licensing: Fully licensed and compatible with all HDMI and HDCP technologies
- Ultra small design

Accessories

> 5V 1A DC Power Supply

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Mounting

Thanks to its small size, the KD-VCS500 can be placed on a tabletop, set onto a rack shelf, Velcro mounted under a conference table, or placed anywhere convenient.

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Connections



Inputs:

There is a standard 15-pin VGA video input and a standard 3.5mm analog audio input. The KD-VCS500 supports the following incoming signal formats:

- > VGA Video: 640x480@60, 800x600@60, 1024x768@60, 1152x864@60Hz, 1280x720@60, 1280x768@60, 1280x800@60, 1280x960@60, 1360x768@60, 1366x768@60, 1280x960@60, 1280x960@60, 1280x900@60, 1280x1050@60, 1600x1050@60, 1680x1050@60, 1600x1200@60, 1920x1080@60
- > Analog Audio: 2CH PCM, 48KHz/24bits



Outputs:

There is one HDMI output. The KD-VCS500 supports the following output signal formats:

- > HDMI Video: 720p or 1080p
- > HDMI Digital Audio: 2CH PCM, 48KHz/24bits

Buttons and LEDs



There is a black pushbutton to toggle between the two output resolutions. The LED next to the pushbutton will change color to indicate the selected resolution.

- > 720p: Red LED
- > 1080p: Blue LED

Application Example



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Quick Setup Guide

Connections

- Begin with the KD-VCS500 and all input/output devices turned off with power cables removed.
- 2. Connect VGA source to the VGA input connector
- 3. If using audio, connect a 3.5mm audio cable to the audio input connector
- 4. Connect a display via HDMI
- Connect power to the KD-VCS500 as well as to all other input and output devices and turn them on.
- Select the desired output resolution by pressing the black pushbutton and verifying the selected resolution with the resolution LED indicator

Specifications

Technical

- > Inputs: 1 VGA, 1 3.5mm stereo audio
- > Outputs: 1 HDMI
- > Control: Pushbutton Resolution Switching
- > DDC Signal (Data): Input DDC Signal: 5 Volts p-p (TTL)
- DDC Communication: EDID and HDCP Bi-directional Transparency from Display to Source
- > Power: 5V 1A external power supply

General

- > Regulation: CE, RoHS, WEEE
- > Enclosure: Black Plastic
- > Product Dimensions: 4.68" x 2.91" x 0.9", Weight: 0.8 lbs
- > Shipping Dimensions: 7" x 5.3" x 2.6", Weight: 1 lb



Important Product Warnings:

- 7. Connect all cables before providing power to the unit.
- 8. Test for proper operation before securing unit behind walls or in hard to access spaces.
- If installing the unit into wall or mounting bracket into sheet-rock, provide proper screw support with bolts or sheet-rock anchors.



Safety Instructions:

Please be sure to follow these instructions for safe operation of your unit.

- 1. Read and follow all instructions.
- 2. Heed all warnings.
- Do not use this device near water.
- . Clean only with dry cloth.
- 5. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 7. Only use attachments/accessories specified by the manufacturer.
- Refer all servicing to qualified service personnel. Servicing is required when the device has been damaged in any way including:
 - → Damage to the power supply or power plug
 - → Exposure to rain or moisture



Power Supply Use:

You MUST use the Power Supply provided with your unit or you VOID the Key Digital® Warranty and risk damage to your unit and associated equipment.

How to Contact Key Digital®

System Design Group (SDG)

For system design questions please contact us at:

> Phone: 914-667-9700

> E-mail: sdg@keydigital.com

Technical Support

For technical questions about using Key Digital® products, please contact us at:

> Phone: 914-667-9700

> E-mail: tech@keydigital.com

Repairs and Warranty Service

Should your product require warranty service or repair, please obtain a Key Digital® Return Material Authorization (RMA) number by contacting us at:

> Phone: 914-667-9700> E-mail: <u>rma@keydigital.com</u>

Feedback

Please email any comments/questions about the manual to:

> E-mail: <u>customersupport@keydigital.com</u>

Warranty Information

All Key Digital® products are built to high manufacturing standards and should provide years of trouble-free operation. They are backed by a Key Digital Limited Lifetime Product Warranty Policy.



> http://www.keydigital.com/warranty.htm