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Key Digital®, led by digital video pioneer Mike Tsinberg,
develops and manufactures high quality, cutting-edge
technology solutions for virtually all applications where
high quality video imaging is important. Key Digital®
is at the forefront of the video industry for Home Theater
Retailers, Custom Installers, System Integrators,
Broadcasters, Manufacturers, and Consumers.

KD-VCS500
Video Converter & Scaler

Setup Guide

Video Output
Switch   Red: 720p
          Blue: 1080p   HDMI Output   Power   5V⎓1A

Audio L/R
Input   VGA Input

Key digital®

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The Experts in Digital Video Technology and Solutions™

HDMI

Table of Contents

> ⚠ **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, 1366x768@60, 1280x960@60, 1280x1024@60, 1440x900@60/75, 1600x1050@60, 1680x1050@60, 1600x1200@60, 1920x1080@60, 1920x1200@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

> Power Supply: KD-PS5V1A, 5V/1A, 100-240VAC, 50-60Hz, Interchangeable head

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.

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, 1280x1024@60, 1440x900@60/75, 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

Quick Setup Guide

Connections

1. 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
5. Connect power to the KD-VCS500 as well as to all other input and output devices and turn them on.
6. 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
› DDC Signal (Data): Input DDC Signal: 5 Volts p-p (TTL)
› DDC Communication: EDID and HDCP Bi-directional Transparency from Display to Source
› Power Supply: KD-PS5V1A, 5V/1A, 100-240VAC, 50-60Hz, Interchangeable head
› 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.
9. 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.
3. Do not use this device near water.
4. Clean only with dry cloth.
5. Install in accordance with the manufacturer's instructions.
6. 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.
8. 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: rma@keydigital.com

Feedback

Please email any comments/questions about the manual to:
- › E-mail: customersupport@keydigital.com

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 3 Year Product Warranty Policy.   http://www.keydigital.com/warranty.htm