

## Large System



# KD-VPHD3

Digital Video Processor, Video/Audio Switcher and Universal Distribution Center



### Key Features

- Accommodates 11 total digital and analog video input formats and connectors, including HDMI/DVI, VGA/RGBHV, Component, Composite and S-Video
- Up-converts / down-converts SD, HD, XGA, and WXGA resolutions of analog and digital video inputs from 480i to 1080i to a single digital HDMI/DVI or Component/RGBHV output with available resolutions from 480i to 1080p
- Supports most video formats to all standard HDTV outputs: SD, HD, and VESA (VGA, WXGA) resolutions up to 1080p (60Hz & 50Hz)
  - 60 Hz: From 640x480p up to 1920x1200p
  - 50 Hz: From 720x576i up to 1920x1080p
- Can assign any audio input to any video input with the ability to convert any audio input format to any audio output format (analog or digital)

### Key Benefits

- Provides a one cable solution to the display and/or A/V receiver
- Both Analog and HDMI Video outputs can be active simultaneously, if no HDCP is present
- Becomes a media center switching up to 2 HDMI/DVI inputs, 3 Component, 1 VGA, 2 S-Video, 3 Composite inputs and scaling into 1 HDMI/DVI output and/or 1 Component/RGBHV output
- EDID Control™
- Serial IR, Optical IR, Front Panel with LCD, Discrete Remote Codes, and RS-232 control. Supports major control systems such as AMX®, Colorado vNet®, Control4®, Crestron®, HomeLogic™, life!ware™, RTI®, Savant, Universal®, Xantech®

### Specifications

#### Technical:

- Inputs:** 3 x Composite 1Vpp/75Ω on RCA connectors; 2 x S-Video 1Vpp 75Ω (Y); 0.3Vpp (C)/ on 4-pin connectors; 3 x Component (Y, Pb, Pr) 1Vpp 75Ω (progressive or interlaced) on RCA connectors; 1 x VGA (RGBHV) (progressive or interlaced) 1Vpp/75Ω on 15-Pin HD Female connector; 2 x HDMI (DVI-D) on 19-Pin HDMI Female connector; 4 x unbalanced stereo audio on RCA connectors, 22dBm; 4 x S/PDIF Digital Coaxial Audio on Left RCA connector; 2 x Digital Optical on Toslink connector
- Outputs:** 1 x Component/RGBHV Scaled output (Y/G, Pb/B, Pr/R, H, V) 1Vpp/75Ω, 5V TTL for H&V on RCA connectors; 1 x HDMI (DVI-D) Scaled Output on 19-pin HDMI Female connector
- Processing:** 6 fields of 3-D motion adaptive de-interlacing; 3:2 and 2:2 pull-down; bad-edit film detection and correction; subtitle detection and artifact removal; pixel-by-pixel adaptive interpolation; intra-inter-interpolation with alpha-blend combination; multi-directional edge detection and interpolation; fast moving detection and interpolation; noise detection and noise adaptive interpolation; anti-aliasing filter for down scaling, independent vertical and horizontal filter for up and down scaling.
- Control:** Front panel push buttons, front and back panel IR remote control, Serial IR, RS-232, front-panel LCD
- Additional Control:** Auto sensing for input resolutions, selectable output resolutions, independent ProcAmp and aspect ratio control with independent memory for each input, independent audio and video association for any input, inclusion of selected audio input into HDMI output
- Power:** External 6V/5A power supply for 100-240VAC, 50/60Hz, 30VA.
- Supported Resolutions:** Input and Output Resolution Support Matrix

INPUT	720x 480i 60Hz	720x 480p 60Hz	720x 576i 50Hz	720x 576p 50Hz	1280x 720p 50/60Hz	1024x 768p 60Hz	1280x 768p 60Hz	1280x 1024p 60Hz	1366x 768p 60Hz	1920x 1080i 50/60Hz	1920x 1080p 50/60Hz
HDMI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VGA/RGBHV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Component	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Composite	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S-Video	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

  

OUTPUT	640x 480p	720x 480p 60Hz	720x 480p 60Hz	720x 576i 50Hz	720x 576p 50Hz	1280x 720p 50/60Hz	1024x 768p 60Hz	1280x 768p 60Hz	1280x 1024p 60Hz	1366x 768p 60Hz	1920x 1080i 50/60Hz	1920x 1080p 50/60Hz
HDMI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VGA/RGBHV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Component	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

#### General

- Rack Mount:** 1U Rack Ears Included
- Product Dimensions:** L = 17" W = 7.75" H = 1.75"
- Shipping Carton Dimensions:** L = 23" W = 11" H = 4.5"
- Accessories:** IR Remote Control, UL Cert. Power Supply
- Regulation:** CE, RoHS, WEEE
- Enclosure:** Black Metal
- Product Weight:** 6.5 lbs
- Shipping Weight:** 9.5 lbs

### System Design Example

