



CAT5/6/7 Component/RGBHV/Audio/IR/RS-232 Matrix Switchers

# KD-MSCAT8X8

Video/Audio Matrix Switcher capable of switching up to 8 Component/RGBHV Video Sources/Inputs to 8 independent Zones/Outputs via CAT5/6/7 with Digital/Analog Audio & Volume Control



## Key Features

- Full switching of 5 independent matrixes: Video, Analog Audio, Digital Audio, Bi-Directional IR, and Bi-Directional RS-232 Control
- Supports all SD, HD, and VESA (VGA, SVGA, XGA, WXGA, SXGA, UXGA) resolutions up to 1080p (60Hz & 50Hz)
  - SD & HD: 480i, 480p, 720p, 1080i, 1080p
  - VESA / RGBHV: From 640x480p up to 1920x1200p
- 8 Outputs distribute Component/RGBHV Video, Analog Audio, Digital Audio, and Control Signals up to 1,000 ft.
- Inputs support analog and digital audio
- Ribbon Cable Expansion ports
- Separates audio from video

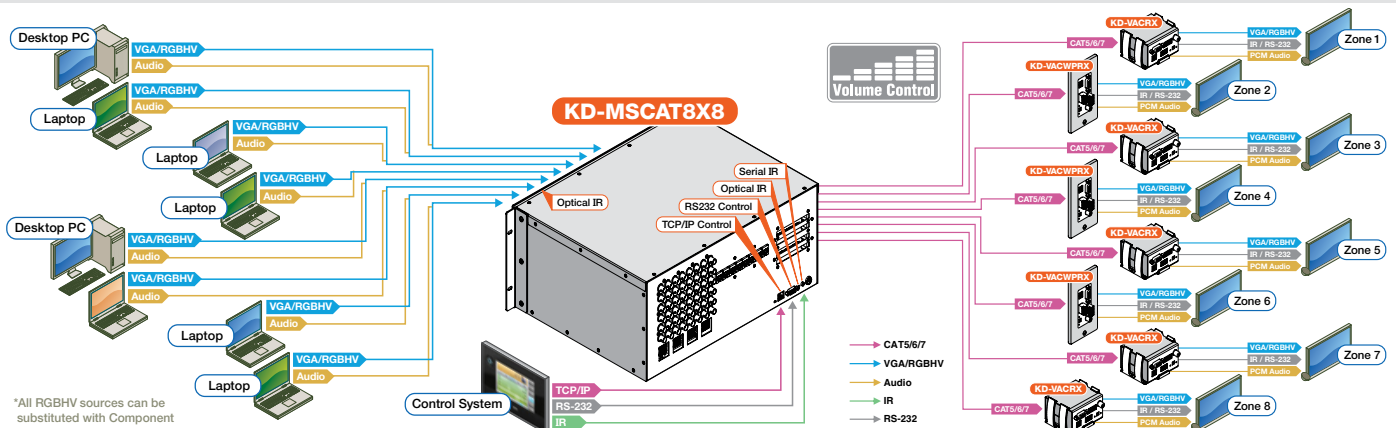
## Key Benefits

- Compatible with any Component or RGBHV Video source device, and any major video resolution up to UXGA
- Fully automatic CAT5 cable equalization when used with KD-VACRX or KD-VACWPRX Receiver Baluns
- Full Audio control includes volume, treble, bass, balance, and lip-sync
- Serial IR, Optical IR, Front Panel, Discrete Remote Codes, TCP/IP & RS-232 control. Supports major control systems such as AMX®, Colorado vNet®, Control4®, Crestron®, HomeLogic™, lifeware™, RTI®, Savant, Universal®, Xantech®

## Matrix Expansion

- Can be incrementally expanded (with additional units) up to 40 Sources/Inputs to 40 Zones/Outputs. Visit [www.keydigital.com](http://www.keydigital.com) for expansion unit models.

## System Design Example



\*All RGBHV sources can be substituted with Component

## Specifications

### Technical:

- Input (Each): RGB or YPrPb on 3 BNC female 1Vpp/75Ω; 1 Stereo analog balanced or unbalanced audio 0dBu/1kΩ, 0.5V/75Ω, on a Phoenix connector; 1 digital S/PDIF audio on BNC connector; H&V on 2 BNC connectors 5Vp-p TTL, 10 KΩ
- Output (Each): 8 CAT5 on RJ45 shielded connector (video/audio/data)
- Resolution: Up to UXGA; 1080p
- Control: Front panel push buttons and LED's, front and rear Infrared Receiver, Wired IR on rear, RS-232 Tx and Rx lines, TCP/IP full access via manually set IP address, Full bi-directional operation of IR, RS-232 and TCP/IP
- Video/Audio Matrix Switching: Full matrix switching for 3 independent matrixes: Video, Analog Audio, Digital Audio
- RS-232 Control Matrix: RS-232 input/output can independently control the system or input/output through attached KD-VACRX balun. Full bi-directional RS-232
- Wired IR Control Matrix: Each input and output section wired IR and unit wired IR can be switched into matrix in bi-directional operation to any of the inputs or outputs
- TCP/IP Control: Via RJ45; Independent IP address; Full control of the matrix switcher
- EQ and Gain adjustment: Auto adjustment in the KD-VACRX /KD-VACWPRX by continued CAT5 cable measuring up to 1,000 ft.
- RS-232 Link to KD-VACRX/KD-VACWPRX: Tx, Rx, and Ground always active; 0-5V TTL or +/- 10V DC coupled, baud rate up to 115,200. Baud rate of input and output are transparent
- Wired IR Link to KD-VACRX/KD-VACWPRX: 0-5V or +/- 10V DC coupled, bi-directional, modulated or un-modulated, data transparent
- Audio Control: Full Audio control of Left/Right Stereo Audio through RS-232, IR includes volume, treble, bass, balance, lip-sync
- Video Isolation (Crosstalk): -45dB @ 5MHz
- Max Analog Audio Input /Output Level: 4dBu on AC coupling (input); 4dBu on DC coupling (output)
- Audio Bandwidth: 20Hz to 20kHz, @ 0dBu
- Max S/PDIF Input/Output Level: 1Vpp on 75Ω, AC coupling (input), DC coupling (output)
- Analog Audio Sample Rate Conversion: 48kHz
- Resolution Conversion: 24 bits
- Power: External Power Supply. 7V DC / 10A; UL Certified

### General

- Rack Mount: 4U (rack ears included)
- Product Dimensions: L = 17.25" W = 13.75" H = 7.5"
- Shipping Carton Dimensions: L = 22" W = 17" H = 12"
- Accessories: IR Remote Control, Power Supply
- Regulation: CE, RoHS, WEEE
- Enclosure: Black Metal
- Product Weight: 19 lb
- Shipping Weight: 28 lbs