

# KD-CSW2x1

**FLASH MAX  
SERIES™**

KD-CSW2x1 is a Video/Audio Switcher with capability of switching 2 Component/RGBHV Video Sources/Inputs to 1 output



## General:

### 2x1 (2-In, 1-Out) automatic video and audio switcher

- > Crystal-clear and seamless switching of all SD and HD analog video formats
  - 480i, 576i, 480p, 576p, 1080i/540p, 720p, and 1080p, as well as VGA
  - Component (Y, Pb, Pr), VGA (RGBHV), S-Video (with adapter), Composite Video
- > Audio Switching:
  - Analog Left and Right stereo
  - Digital PCM
  - Generates a simultaneous Toslink Optical Audio output (from the digital PCM audio input) for the selected input
- > Multiple means to control the switching, with front-panel LEDs to indicate the status:
  - Automatically looks for sync on Input "1"
  - Front-panel pushbutton manual override
  - Infrared (IR) remote control, included
- > 12 Volt Trigger Control:
  - Special wire cable (12" cable included with your Switcher) provides +12 Volts when inserted into appropriate jack and the desired input channel is switched
- > Can be cascaded to other KD-CSW2x1 or other Key Digital™ switchers to switch as many inputs as desired

## Video Signal Properties:

- > Inputs and Outputs have the same scanning format
- > All known SDTV and HDTV formats are accepted at 50 Hz or 60 Hz, including 480i, 576i, 480p, 576p, 1080i/540p, 720p, and 1080p
- > Video bandwidth -3 dB at 300 MHz, linear-phase passband, unity gain terminated to 75 ohms

## Inputs:

There are 2 Input Groups ("1" and "2"), and each Input Group can accept the following Inputs:

- > Video Inputs:
  - 3 color-coded RCA video input jacks for Component Video (Y, Pb, Pr) with composite sync on "Y"

- VGA (RGBHV) video (use the L&R audio connectors for H&V)
- S-Video (with adapter)
- Composite Video (CV)
- > Audio Inputs:
  - 2 color-coded RCA analog audio jacks (standard line-type Left & Right pairs). Can not be used for audio when VGA H&V are used as an input
  - 1 color-coded RCA jack for digital PCM
- > Either input can be selected to drive the output

## Outputs:

There is 1 Output Group consisting of:

- > Video Outputs:
  - 3 color-coded RCA video input jacks for Component Video (Y, Pb, Pr) with composite sync on "Y"
  - VGA (RGBHV) video (use the L&R audio connectors for H&V)
  - S-Video (with adapter)
  - Composite Video (CV)
- > Audio Outputs:
  - 2 color-coded RCA analog audio jacks (standard line-type Left & Right pairs). Can not be used for audio when VGA H&V are used as an input
  - 1 color-coded RCA jack for digital PCM
  - Simultaneously provides Toslink Optical Audio link by converting the digital PCM audio for the switched input
- > Both the Video and Audio switch together
- > Output = Input
- > Outputs can be cascaded to other KD-CSW2x1 or other Key Digital™ switchers to switch as many inputs as desired

## Status and Control:

- > Front-panel LEDs to indicate the mode (automatic or manual switching) and status (which Input has been switched to the Output)

- > Included IR Remote:
  - Press "1" to select the "1" input
  - Press "2" to select the "2" input
  - Press "9" for auto-sensing mode
- > Automatic switching mode: automatically looks for sync on Input "1":
  - If input "1" has active video (that is, active sync) on the "Y" line, automatically the output switches to input "1"
  - Otherwise, the output switches to input "2"
  - Turning off an unwanted source allows automatic display of a wanted source
  - Auto-switching works only if the sync is inactive when the undesired input is turned off - some Set Top Boxes (STBs) output active sync even when they are turned off, so it is advised to connect these devices to Input "2"
- > Manual switching mode:
  - Infrared (IR) remote control
  - One front-panel pushbutton allows manual override of automatic switching
- > 12 Volt Trigger Control:
  - Must be used in conjunction with the cable provided by Key Digital™ with your KD-CSW2x1
  - Requires the removal of the small faceplate on the top of the Flash Max 2 unit
    - » Exposed jack "J4" (towards the front) will provide a 12 Volt Trigger Control when the "1" Input is selected
    - » Exposed jack "J3" (towards the rear) will provide a 12 Volt Trigger Control when the "2" Input is selected

## Mechanical:

- > No fan noise
- > Rack mountable: 1U
- > Size: 8.6" x 4" x 1.75"
- > Weight: 2 lbs.
- > Enclosure type: Metal
- > Input Power: 5 Volt DC (external supply included,
- > 110-240V AC, 50-60 Hz, 1.0 A)



Key Digital® Exclusive Technologies



Supported Technologies



Harmony Remote