

# VSC Installation Manual

## S-Video to Video Converter

CR System Tools



The VSC Video to S-Video Converter delivers high-quality S-Video signals from a composite NTSC video input. Employing technology developed for the popular 232-ST5 S-Video TV Tuner, the VSC features digital 2-D adaptive Y/C separation for superior S-Video performance.

Front-panel settings allow video looping and selectively boost luminance (Y) and chrominance (C) video levels..

Designed for versatile installation, the compact VSCC can be operated on a tabletop, attached to a display, or rack-mounted 3-across, mixed with other CR System Tools using the optional single-rack height RK3 Rack Kit.

### Physical

Size: 5.5" [140mm] wide x 1.1" [28mm] height x 3.5" [86mm] deep  
Weight: 8 oz [226g]  
Enclosure: All aluminum with durable black powder coat paint  
Mounting: Tabletop or attached to any flat surface  
Mounts up to 3 units in RK3 Rack Mount

### Connections

Video Output: BNC composite NTSC output, 1V p-p at 75 ohm impedance  
S-Video Output: Mini DIN 4-pin, Y - 1V p-p at 75 ohms, C - 0.286 V p-p at 75 ohms  
Digital adaptive 2-D Y/C separation filtering, cross-color and cross-luminance reduction  
Differential Phase .3° max, Differential Gain .2% max, Video bandwidth 10MHz, Luma S/N 77dB  
Video Input: BNC composite input, 1V p-p, switchable direct or looping applications  
Video Settings: 4-position DIP switch sets video options  
Power LED: Green LED lights when DC power is active  
Power In: 2.1mm coaxial jack (inside center conductor positive), 75 mA maximum  
11.5 to 16.5 VDC, 12 VDC typical (may be unregulated)

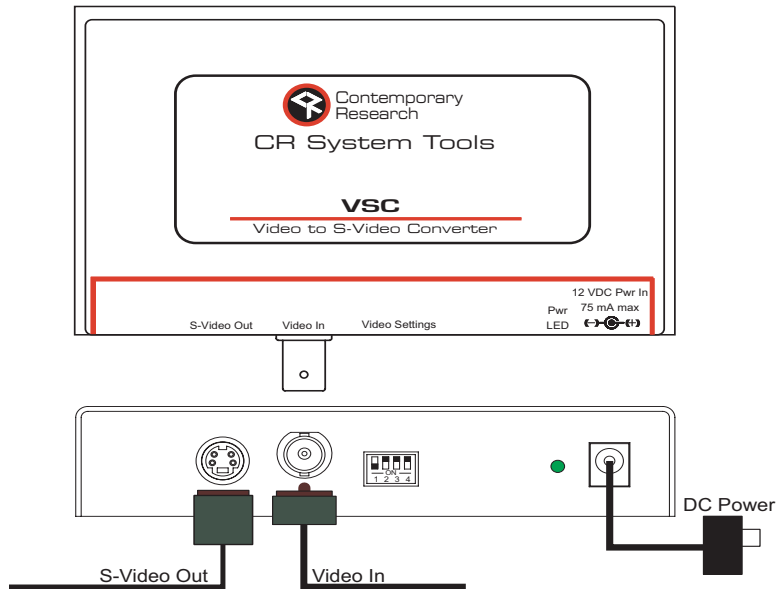
### Includes

12 VDC power supply, 100 mA (North American shipments only), 5-pin captive screw terminal

### RK3 Rack Kit

Size: 19.0" [483mm] wide x 1.73" [44mm] 1RU height x .437" [11mm] deep  
Mounting: Three mounting spaces, each space accepts two 4-40 1/4" screws 4.25" apart to attach System Tool

# VSC Installation



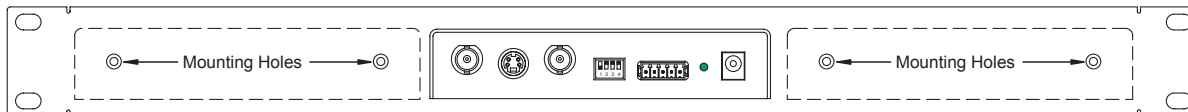
## Video and Power Connections

- Video In: Connect BNC composite NTSC video
- S-Video Out: Connect S-Video cable (2-D Y/C processed video plus captions)
- Video Out: Connect BNC composite NTSC video (input video plus captions)
- DC Pwr: Connect DC power supply, Green Pwr LED lights when DC power is active
- Operation: 75 ohm video termination, no Y/C boost (default setting)

## Video Settings

- Video Settings: 4-position DIP switch sets video options
- Default setting is Switch 1 On (down), Switches 2 - 4 Off
- Switch 1 On = 75 ohm video input termination, Off = High impedance for looping
- Switch 2 On = Luminance (Y) boost (15%), Off = Unity gain
- Switch 4 On = Chrominance (C) boost (15%), Off = Unity gain

## RK3 Rack Kit



- Mounting: Use screws included with RK3 to bolt System Tool into one of 3 positions
- Back of System Tool includes two pre-tapped 4-40 1/4" mounting holes