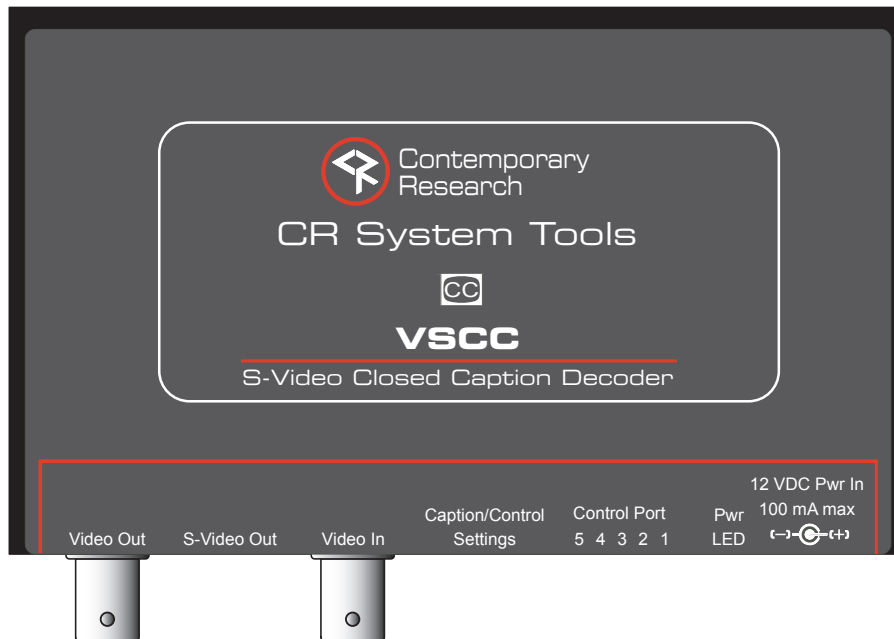


VSCC Installation Manual

S-Video Closed Caption Decoder CR System Tools



The VSCC S-Video Closed-Caption decoder gives integrators a simple, reliable way to decode and display closed caption text in both S-Video and composite video formats. Employing technology developed for the 232-ST5 S-Video TV Tuner, the VSCC provides digital 2-D adaptive Y/C separation for superior S-Video signals from a composite NTSC video input.

Front-panel settings can select eight Closed Caption modes and remote control operation. A captive-screw control port accepts a closure for Captions On/Off, sends a logic-level output for sensing video presence, and allows remote DC power.

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, mount 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 NTSC input
Caption/Control: 4-position DIP switch sets caption and control operation
Control Port: 5-pin captive screw terminal for logic level closure control, alternate remote DC
Power LED: Green LED lights when DC power is active, flashes when no video is present
Power In: 2.1mm coaxial jack (inside center conductor positive), 100 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

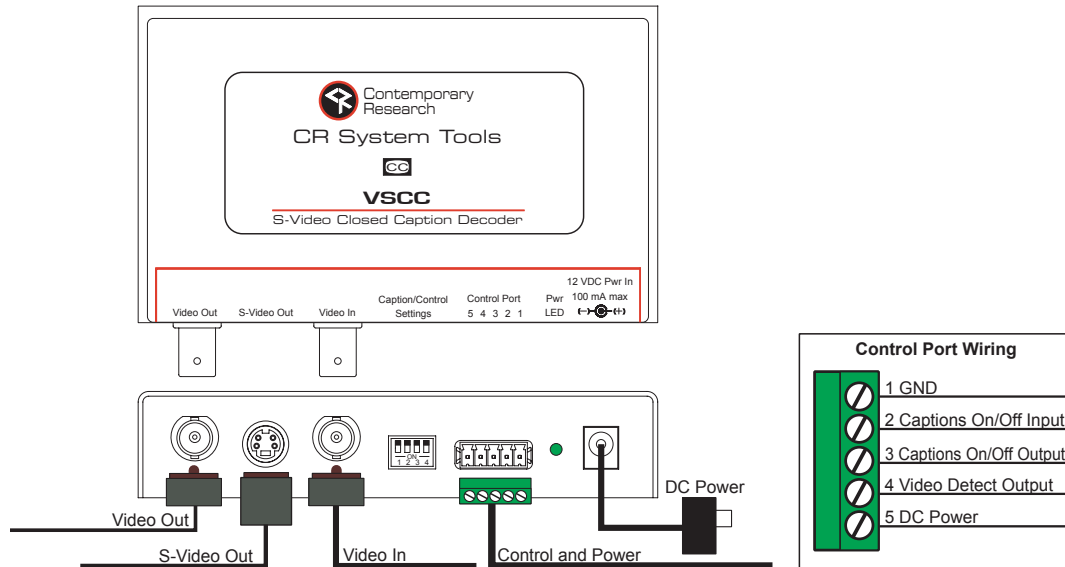
RK3 Rack Kit

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



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VSCC 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: Video output should include captions, CC1 mode (default setting)

Caption/Control Settings

- Caption/Control: 4-position DIP switch sets caption and control operation
- Default setting is all switches off (up): CC1 caption type, Latching caption on/off control
- 1. Set **Control Options** by setting Switch 4 On, then Switch 1 On or Off.



Latching Captions



Toggling Captions

- 2. Set Switch 4 to Off (Caption Mode)
- 3. Set **Caption Options** using switches 1 - 3 for caption type CC1 - CC4 or TT1 - TT4



CC1



CC2



CC3



CC4



TT1



TT2



TT3



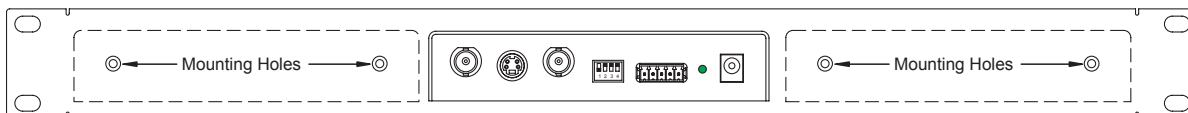
TT4

- 4. If you change Control Options, reset DIP switches to desired Caption Type

Control Port

- Control Port: Wire captive-screw terminal as shown above
- Pin 1: GND
- Pin 2: Captions On/Off Input, latching or toggling, closure to GND, max 50 mA
- Latching mode: Closure turns captions off, release to turn captioning on
- Toggling mode: Momentary contact toggles between captions on and off
- Pin 3: Captions Output, On = logic level low, max 50 mA, Off = Logic high, 5V through 10K pull-up resistor
- Pin 4: Video Detect Output, On = logic level low, max 50 mA, Off = Logic high, 5V through 10K pull-up resistor
- Pin 5: 12 VDC input, electrically identical to Pwr In
- 11.5 to 16.5 VDC, 12 VDC typical (may be unregulated)

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