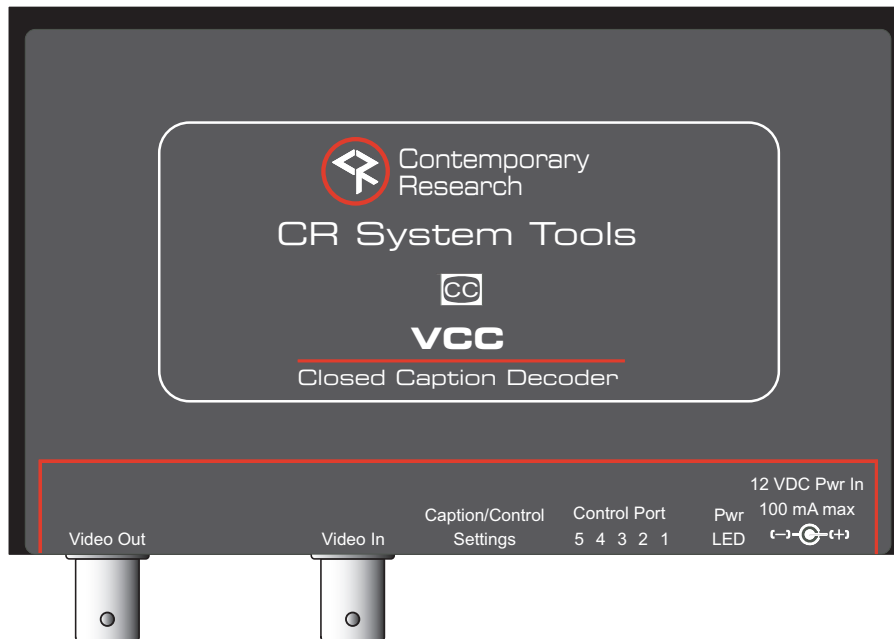


VCC Installation Manual

Closed Caption Decoder CR System Tools



The VCC Closed-Caption decoder gives integrators a simple, reliable way to decode and display closed caption text for monitors, video projectors, and flat-panel displays.

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 VCC 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
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

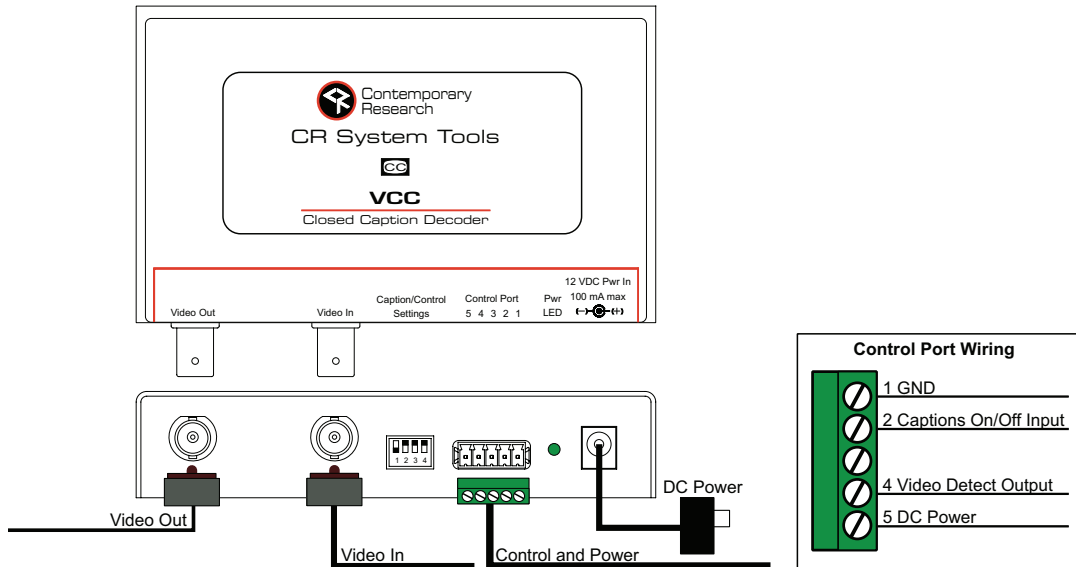
RK3 Rack Kit

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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VCC Installation

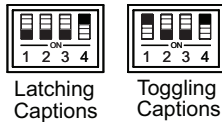


Video and Power Connections

- Video In: Connect BNC composite NTSC video
 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.



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

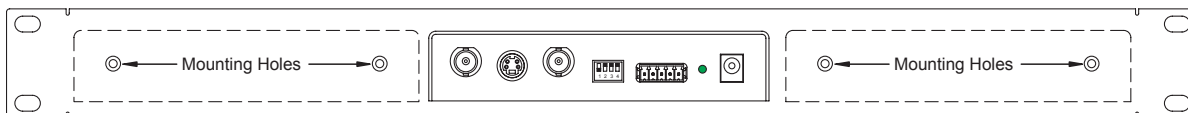


4. If you change Control Options, reset DIP switches to desired Caption Type

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