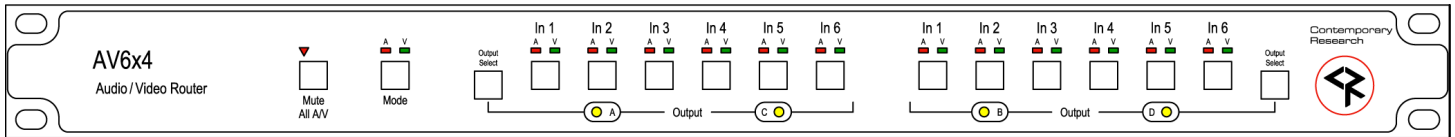


# AV6x4

## 6x4 Matrix A/V Router RS-232 Control



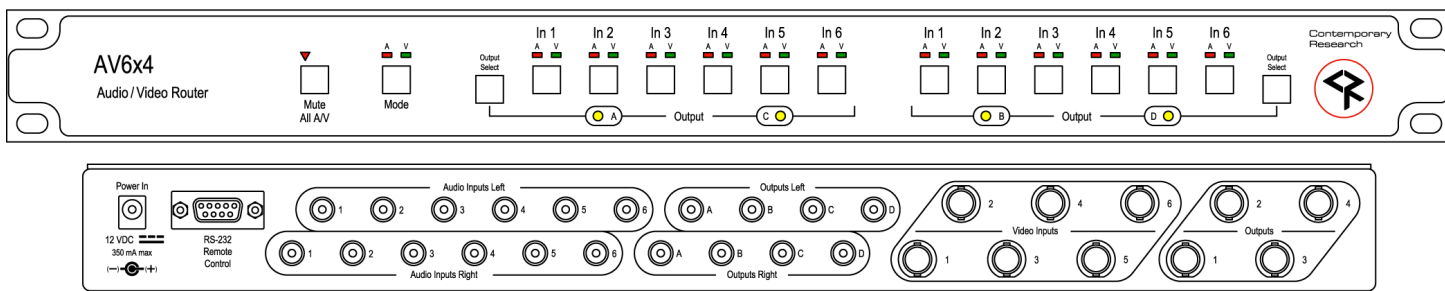
Contemporary Research presents the AV6x4, a flexible, controllable matrix switcher for routing six stereo A/V inputs to four stereo A/V outputs. Using the simplified front-panel controls, it's easy to switch VCRs, DVDs CDs, cameras and other sources to TVs, projectors, and plasma displays. Route and input to any combination of outputs, send both audio and video, or switch audio and video separately. Advanced capabilities are available from front-panel programming as well, including adjusting input levels, setting RS-232 baud rate and device number, and selectively enabling or disabling front-panel features.

The AV6x4 is a popular choice for conference rooms, home theaters, and classrooms because it is easily controllable by computer software and custom control systems. Up to three switchers, as well as CR stereo TV and FM tuners, can be controlled by a single RS-232 control port. Simple and logical, the AV6x4 ASCII protocol is easy to integrate for system control, setup, and feedback.

### Features

- ▽ Switches six A/V inputs to any four outputs
  - BNC video inputs and outputs (composite NTSC, PAL, SECAM)
  - Vertical interval routing for clean glitch-free switching
  - Internal DIP switch provides 75 ohm input termination or Hi-Z video T-connection operation
  - Stereo gold RCA inputs and outputs
  - Audio-follow-video or breakaway audio and video switching
  - Adjustable input levels help to balance audio from sources with different output levels
  - Master Mute for all video and audio outputs
- ▽ Operates from RS-232 control port or front-panel control
  - Simple ASCII commands and feedback for computer or control system integration
  - Opto-isolated RS-232 port reduces interference and ground loops
  - Control up to three switchers or other CR RS-232 products from a single RS-232 control port
  - Programmable front-panel control enable/disable
  - Simplified switching and setup using front-panel buttons and LED indicators
- ▽ Restores all operation status after loss of power from data stored in non-volatile memory
- ▽ Mounts on shelf or in 19" equipment rack

# AV6x4 Specifications



## Physical

Size: 19" [483mm] wide x 1.75" [38mm] height (1RU) x 9.25" [235mm] deep  
Weight: 4.25lbs [1.47Kg]  
Enclosure: All aluminum, including front extrusion, durable black powder coat paint

## Front Panel

Mute All A/V: Toggling Mute for all audio and video, red LED lights when muted  
Routing Mode: Cycling routing mode selection — red LED (Audio only), green LED (Video only), or both LEDs (A/V)  
Routing Control: Select Mode  
Select Output (A, B, C, or D), LEDs show the current audio and video input routed to output  
Selecting Input (1-6) initiates switch, LEDs reflect change

## Rear Panel

Power In: 2.1mm coaxial jack (inside center conductor positive), 300 mA maximum  
11.5 to 17 VDC, 12 VDC typical (may be unregulated)  
Remote Control: DB-9 male RS-232 port for interface to control system  
Front panel set-up for 300 to 9600 baud. Always 8 data bits, no parity, 1 stop bit  
Standard ASCII keyboard character strings available from any terminal program  
Status update is sent after every front panel or RS-232 command  
Audio Inputs: 6 stereo (dual channel) gold RCA female  
Unbalanced line level, 20K ohms and buffered  
Each input programmable from -9 to +9dB in 3dB steps  
Maximum level, including any AV6x4 gain, +11 dBm (3.5V rms or 10V peak to peak)  
Audio Outputs: 4 stereo (dual channel) gold RCA female  
Unbalanced line level, buffered, 100 ohms (capable of driving 600 ohm load to +11dBm)  
Frequency Response 20Hz to 30KHz flat  
Total Harmonic Distortion (THD) < 0.01%  
< -75dB @ 1KHz Crosstalk  
< -75dB Noise  
Video Inputs: 6 BNC female  
NTSC, PAL, or SECAM composite  
2 V peak to peak maximum level  
75 ohms Impedance (+/- 1%) or internal DIP switch selectable to HI-Z for looping  
Video Outputs: 4 BNC female  
Video Op-amp with 75 ohm (+/- 1%) series termination  
DC through 10 MHz response  
< -55dB @ 4.43 MHz (chroma) Crosstalk  
< -70dB Noise  
< 0.1% Differential Gain  
< 0.2° Differential Phase  
Vertical interval Switching

## Includes

19" mounting brackets  
12 VDC Power Supply (Included for North American shipments only)

## Options

CC-232 Cables for control, linking multiple units  
232-STA Stereo TV Tuner (may be daisy-chained with AV6x4 for RS-232 control)  
232-FMA Stereo FM Tuner (may be daisy-chained with AV6x4 for RS-232 control)