



Applications

Classrooms
Training Centers
Command and Control Centers



Sales Support

Need help finding a tuning solution for your application? Our Sales Support staff will be happy to work with you, providing expert integration assistance and a complete systems proposal.

Tech Support

Need tech help? Give us a call. Our tech support staff are experts in the integration industry, so we can research solutions in the proposal stage, advise on programming requirements, and resolve installation issues.

Our job is to make our solutions work seamlessly with your system, performing as promised.

Related Products

Tuner Helper Software
232-ATSC+ HDTV Tuner
VCC Closed Captioning Decoder
232-Amp

232-Series AV Tuners

Contemporary Research AV tuners share several features in common:

- Tunes up to 125 NTSC channels in off-air, cable, HRC, and IRC modes
- Programmable tune ring defines active channels
- Pro quality video and audio
- Variable volume, bass, and treble control
- Closed captioning and on-screen text
- Switchable AV input allows tuner to share AV input
- Inserts blue screen on video loss
- RS-232 control and feedback with simple ASCII commands
- Daisy-chain up to nine tuners from a single RS-232 control port
- IR control and input for external/wired IR control
- Closure inputs for channel up and down
- Sturdy metal enclosure, rack mountable
- AMX and Crestron programming modules available, compatible with wall panels by SP Controls, RTI and others
- Internal memory back-up restores operation after power loss
- Easy setup, cloning, and PC operation with Tuner Helper software or Terminal software and text files
- Combines with pole mount and 232-Amp for integrated, pole-mounted video projection installations

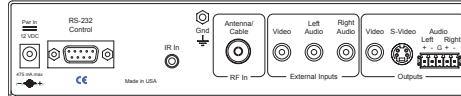
Models

232-ST S-Video Stereo TV Tuner

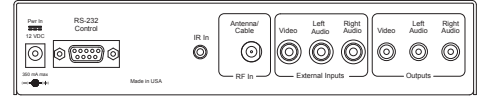
- S-Video and composite video outputs
- Stereo/SAP audio
- Switchable AV input with stereo audio
- Captive screw balanced/unbalanced audio terminal
- Front-panel setup, status and channel display
- Enable/disable commands for front-panel control lockout

232-MCT Mono Caption Tuner

- Composite video output
- Monaural audio
- Switchable AV input, audio inputs convert stereo to mono



232-ST5 Back Panel



232-MCT Back Panel



232-ST5



232-MCT

Specifications

Feature	232-ST5	232-MCT
Application	Full-feature tuning with stereo audio	Economy tuning
Front Panel	AV Mute (Power) Volume Up/Down Channel Up/Down RS-232 TX/RX LEDs Red LED Channel Display Stereo Indicator LED IR Sensor	IR Sensor Power LED (behind sensor window)
Video Out	Composite RCA S-Video Mini-DIN4	Composite RCA
Audio Out	100 ohm balanced stereo 200 Ohm unbalanced stereo 5-Pin captive screw terminal	2 Mono RCA, 1K ohms
Performance	Stereo: Total Harmonic Distortion (THD): 1% maximum, 0.3% typical, 50Hz to 12KHz Channel Separation: 25dB minimum Mono: Total Harmonic Distortion (THD) 0.5%, 0.1% typical, 20Hz to 20KHz	Total Harmonic Distortion (THD): 0.5%, 0.1% typical, 20Hz to 20KHz
Level	+4 dBu (1.2V RMS) balanced 0 dBu (.8V RMS) unbalanced	+8dBu, (2V RMS)
Volume	0 to -70 dB and mute, 64 steps	0 to -70 dB and mute, 64 steps
AV Input	RCA Video, Stereo Audio	RCA Video, Dual Mono audio, Converts stereo to mono audio
Power	400 mA maximum, 11.5 to 16.5 VDC, 12 VDC typical	350 mA maximum, 11.5 to 16.5 VDC, 12 VDC typical
Shared Features		
Physical	8.5" [216mm] wide x 1.75" [38mm] height (1RU) x 6.0" [153mm] deep, 1.5 lbs [0.68kg] Rack mounting for one or two units side-by-side optional (RK1, RK2)	
Tuning	NTSC television 55.25 to 801.25 MHz, 62.5KHZ fine tune resolution +6dBmV max input, +4dBmV nominal, 125 channels in off-air, cable, HRC, or IRC modes	
Antenna/Cable	'F', female, 75 ohm impedance	
RS-232 Control	DB-9 male connector User selectable 300 to 19,200 (9600 default) baud, 8 data bits, no parity, 1 stop bit Employs standard ASCII strings from any terminal program, PC, or control system	
Closure Control	2 momentary closure inputs - Channel Up (Pin 4), Down (Pin 9), GND (Pin 5) on DB9	
IR Control	Front-panel IR sensor 3.5mm stereo jack on back for external sensor	
Closed Caption	Modes CC1-CC4, TT1-TT4, On/On with Mute/Off modes, CG text times out for captions	
CG	White text over video or white text with black background over video, up to 32 characters, 13 lines	
Video Sensing	Displays blue video image	
Power	2.1mm coaxial jack (inside center conductor positive)	
Includes	12 VDC 500 mA power supply RCA stereo audio adapter	
Options	HD-RC Wireless IR Remote, IR-RXC External IR Receiver RK1 Single Rack Kit , RK2 Dual Rack Kit CC-232 RS-232 Cable PMT-1 Pole Mount	

Warranty

All CR products feature a full two-year warranty.