

232-ATSC+ HDTV Tuner

Applications

Boardrooms
Classrooms
Training Centers
Broadcast Testing
Command and Control Centers



Sales Support

Need help integrating HDTV tuning 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

AV Tuners
232-Amp

The 232-ATSC+ HDTV Tuner is an integrator-friendly HDTV tuner, controllable 2-way RS-232 and discrete IR commands. As a universal TV tuner, the 232-ATSC+ can receive ATSC, NTSC, and clear QAM cable channels from switchable Off-Air and Cable RF inputs. Evolved from the popular 232-ATSC, the 232-ATSC+ features improvements in setup, rack space, and power usage.

Controllable via RS-232 or IR, up to two compact 232-ATSC+ tuners can fit within 2 or 1.5 rack spaces.

The tuner displays broadcasts through simultaneous HDMI, RGB/Component, and NTSC composite video or connections. Full-time audio is available from Dolby® 5.1/PCM digital HDMI, optical, and coax ports, as well as variable-level analog stereo audio outputs.

With the 232-ATSC+, you can always enjoy the highest quality full-bandwidth local HDTV and multi-channel broadcasts, unaffected by weather, service outages, and compression losses from satellite and cable providers.

Features

- Tunes ATSC off-air, clear QAM cable, and analog channels
- Always-active HDMI and composite video, as well as stereo, and digital coax and Toslink optical audio ports
- VGA or Component outputs switchable from front-panel settings or RS-232 control
- Dolby® 5.1 or PCM/Variable PCM digital audio formats for digital audio ports and HDMI
- Front-panel and onscreen menus for tuner setup and scanning, new buttons eliminate need for IR remote for setup
- Supports dual Air/Cable tuning with optional RF switch
- Analog and digital closed captioning
- Upscales SD and analog channels
- Rack-mountable in 1.5RU, two across
- Full ASCII 2-way RS-232 commands, AMX, Crestron, and RTI modules available, discrete IR commands
- RS-232 can be daisy-chained to control up to 9 tuners from a single RS-232 port
- Works with free Tuner Helper control panel/setup software, operates over RS-232 or Ethernet with IP-232 Interface
- Field updatable for control and HD processing firmware
- Green Machine - consumes less power than previous 232-ATSC, meets ROHS and California energy-saving standards
- Includes HD2-RC IR remote and 12 VDC power supply
- Options for single and dual rack mounts, pole-mounting, stereo mixer/amplifier, external RF-AB RF switch



232-ATSC+ HDTV Tuner

Specifications



232-ATSC+



HD2-RC



RF-AB Switch

Warranty

All CR products feature a full two-year warranty.



Feature	
Type	Universal NTSC, digital ATSC and clear QAM Tuner
Physical	8.5" [216mm] wide x 2.0" [51mm] height (1.5 RU) x 8.0" [203mm] deep 2.25 lbs [1 kg] 2/1.5RU Rack mounting for one or two units side-by-side optional (RK1/2-HD+, RK2S-HD+) RoHS compliant and energy-efficiency meets new California standards
Tuning	Cable/RF input, switchable with optional RF-AB RF A-B Switch Type: ATSC, NTSC and Clear QAM DTV Standards: (1080i/720p/480p/480i) Aspect Ratio: Adjustable, variety of modes for widescreen 16:9 and normal 4:3 broadcasts Captioning: Analog and Digital, set by program or customized for size, font, and attributes Favorites: Favorite channel menu Lock: Parental option for channels and/or rating
Front Panel	RS-232 TX/RX LEDs (Yellow) Power, Menu, and Select buttons Up and Down (Channel Up and Down) buttons Left and Right (Volume Up and Down) buttons Channel Display (Red LED, dot for major/minor separator, dot for Air/Cable tuning) IR Sensor RS-232 LEDs: RX (Yellow), TX (Red)
Back Panel	
RF Input	Air/Cable, 'F', female, 75 ohm impedance, -10 to 15 dBmV typical Supports dual Cable and Air tuning with optional RF-AB RF A-B Switch
HD Outputs	HDMI and switchable RGB/Component outputs operate simultaneously Component: RCA Pr, Pb, Y outputs (1080i/720p/480p/480i) RGB: RGBHV DB-15 female (1080i/720p/480p) HDMI: HDMI receptacle (1080i/720p/480p), version 1.3, PCM digital audio, HDCP Digital Audio S/PDIF: Coax and Toslink optical output, Dolby 5.1, PCM, or PCM variable
AV Outputs	Simultaneous with HD output Composite Video: RCA female jack Audio L and R: 2 stereo RCA female jacks, variable level
RS-232 Control	DB-9 male, RS-232 data link to control system 300 to 19,200 baud (9600 default), 8 data bits, no parity, 1 stop bit
IR Control	3.5 mm stereo input for external IR sensor or wired IR, discrete codes available
Air/Cable	3.5 mm output to operate the RF-AB RF A-B Switch
Power	2.1mm coaxial jack (inside center conductor positive) 1 A maximum, 11.5 to 15 VDC, 12 VDC typical
Includes	HD2-RC IR Remote Switching power supply, 1.5 A 12 VDC
Options	RK1-HD+ Single Rack Kit, 2RU RK2-HD+ Dual Rack Kit, 2RU RK2S-HD+ Dual Space-Saver Rack, 1.5RU (reverse mount to stack) RF-AB RF A-B Switch, self-terminating, closure controlled CC-232 RS-232 Cable PMT-2+ Projector Pole Mount IR-RXC External IR Receiver

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