



## Applications

*Broadcast Facilities  
Command and Control Centers*

## Sales Support

*Need help finding integration solutions 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

232-ATSC+1 HDTV Tuners

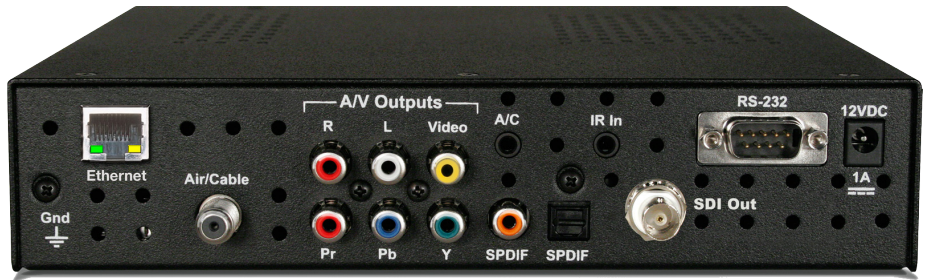
The **ATSC+SDI** is the first HDTV Tuner that features an onboard HD-SDI port. A professional HDTV tuner, the ATSC+SDI is controllable via RS-232, IP, and IR commands. An onboard Web page enables remote Web control. A new menu-driven display simplifies setup, and a front-panel USB port makes firmware updates a snap. The new compact enclosure allows mounting of two tuners in a single rack space.

The integral HD-SDI output allows inclusion of 708/608 captioning, choice of AES stereo or AC-3 audio, and scaled output set to a constant 1080i, 720p, or 480i resolution.

A universal TV tuner, the ATSC+SDI can receive both analog and digital channels, in ATSC, NTSC, and clear QAM formats. Using an optional RF switcher, the tuner can switch between Antenna and Cable feeds.

## Features

- Tunes analog and digital channels in ATSC, NTSC, and clear QAM formats
- Always-active HD-SDI, Component, and composite video, as well as stereo, and digital coax and Toslink optical audio ports
- Dolby® 5.1 or PCM/Variable PCM digital audio formats for digital audio ports
- HD-SDI selectable to pass through Dolby 5.1 as AC-3 or decode to stereo AES audio
- Front-panel text and onscreen menus for tuner setup
- Web page for remote setup and control
- Supports dual Air/Cable tuning with optional RF switch
- 608 and 708 closed captioning embedded in SDI output
- Internal scaler displays all channels at selected resolution
- Rack-mountable in 1RU, two across
- Full ASCII 2-way RS-232/USB 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, or control any number of tuners via IP
- Field updatable for control and HD processing firmware via USB
- Meets RoHS and California energy-saving standards
- Includes HD2-RC IR remote and 12 VDC power supply
- Options for single and dual rack mounts, stereo mixer/amplifier, external RF-AB RF switch



**Physical** 88.5" [216mm] wide x 1.75" [44mm] height (1RU) x 8.0" [203mm] deep  
2.25 lbs [1 kg]  
1RU Rack mounting for one or two units side-by-side (RK1, RK2)  
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** Power, Menu, Setup and Select buttons  
Up and Down (Channel Up and Down) buttons  
Left and Right (Volume Up and Down) buttons  
Text Display, white text on blue LCD, channel and setup information  
IR Sensor  
Mini USB Port for control and drag-and-drop firmware updates

**Back Panel**

**RF Input** Air/Cable, 'F', female, 75 ohm impedance, -10 to 25 dBmV typical  
Supports dual Cable and Air tuning with optional RF-AB RF A-B Switch  
New digital RF tuning for improved sensitivity

**HD Outputs** Internal scaler sets HD outputs at fixed resolution (1080i/720p/480i)  
HD-SDI with embedded stereo AES or Dolby 5.1 audio, Dolby 5.1 selectable to pass through as AC-3 or decoded to stereo AES audio, includes 708/608 captioning data  
Component: RCA Pr, Pb, Y outputs  
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

**Control** Ethernet, Web page: RJ-45 10/100 Ethernet connector  
RS-232: 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: 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 to 14 VDC, 12 VDC typical

**Includes** HD2-RC IR Remote  
Switching power supply, 1.5 A 12 VDC, option for 4A supply for up to 3 tuners

**Options** RK1 Single Rack Kit, 1RU  
RK2 Dual Rack Kit, 1RU, locking tab to connect enclosures externally, or remove one enclosure to lock units together  
RF-AB RF A-B Switch, self-terminating, closure controlled  
CC-COM RS-232 Null Modem Cable  
IR-RXC External IR Receiver

**Warranty**

All CR products feature a full two-year warranty.



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