

IP-HDTV

HD Tuner

Ethernet, RS-232, and IR Control



The Contemporary Research IP-HDTV is an HD tuner that offers analog and digital tuning, a variety of HD and NTSC output options, and full systems integration via Ethernet, RS-232, or discrete IR control.

The IP-HDTV tuner is capable of receiving analog and unscrambled digital programming, either off-air or CATV. High-definition and up-scaled NTSC video can be viewed from the tuner's component, RGB, or DVI ports, in 1080i, 720p, 480p or 480i formats. Standard 480i video can be recorded or monitored from composite and S-Video outputs. Stereo, mono, and Dolby 5.1 surround sound is available from optical, coax, and two stereo analog audio channels. Closed captioning is provided in both analog and digital formats.

Full control can be integrated from Ethernet, RS-232, IR, and wired IR control ports. System setup can be performed from a control system, front-panel controls, and on-screen menus from the included IR wireless remote. In addition, the tuner can install on a shelf or rack-mounted with an optional rack kit.

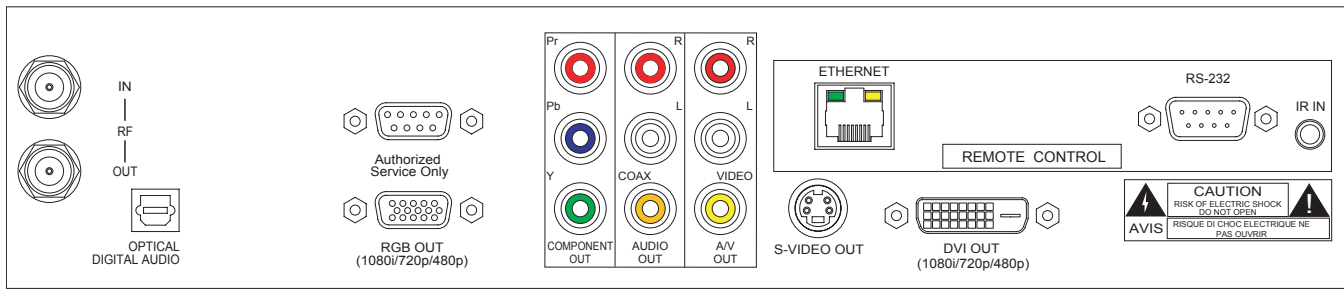
Applications include HD and SD TV tuning for conference and meeting rooms, board rooms, and home theaters.

Features

- ▽ Receives ATSC HD and NTSC SD TV broadcast and unscrambled QAM cable channels
- ▽ Outputs 1080i/720p/480p HD and up-scaled SD video to Component YPbPr, DVI, or RGB outputs
- ▽ Provides simultaneous monitor/record 480i video from S-Video and composite connections
- ▽ Integrates easily from Ethernet, RS-232, discrete IR and wired IR control ports
- ▽ Enables RS-232 control of display or projector via an IP control system connection
- ▽ Offers Dolby 5.1 surround sound from optical and coax digital outputs and two variable-level stereo channels
- ▽ Sets up using front-panel control, easy on-screen menus, and control ports
- ▽ Operates with included HD-RC IR wireless remote
- ▽ Displays closed-captioning text and on-screen channel names
- ▽ Inserts blue-screen video image when unit senses loss of video level
- ▽ Updates firmware using RS-232 software loader
- ▽ Mounts in 19" rack with optional RKHD kit
- ▽ Includes HD-RC IR remote and cables for component, DVI, RCA stereo audio, RCA coax audio, and antenna connections



IP-HDTV Specifications



IP-HDTV Rear AV Jack Panel

Physical

Size (WHD): 14.2" [360 mm] x 2.4" [60 mm] x 10.8" [274 mm]
 Weight: 8.0 lbs [3.6 kg]
 Enclosure: Steel and aluminum with durable silver and black powder coat paint
 Mounting: Shelf or rack-mount with optional RKHD Rack Kit

Front Panel

Display: Blue LCD, 2 lines of 20 characters each
 IR: IR sensor
 Control: Buttons for Display, Menu, Select, Exit, and Left, Right, Up, and Down operation

Rear Panel

Ant In: 'F', female, 75 ohm impedance
 Ant Loop Out: 'F', female, 75 ohm impedance
 Digital Audio: Toslink optical output, Dolby Digital or PCM
 Service Port: DB-9 female RS-232 for factory service and firmware updates
 RGB Out: RGB DB-15 female (1080i/720p/480p)
 Component Out: Pr, Pb, Y outputs (1080i/720p/480p/480i)
 Audio: Stereo RCA, Mono, Stereo, or SAP, fixed or variable level
 RCA female, coax digital audio output
 A/V Out: Stereo RCA audio, Mono, Stereo, or SAP, fixed or variable level
 RCA composite video output, 1V p-p at 75 ohm impedance
 Simultaneous 480i, on-screen menu displayed when digital set to 480i
 S-Video Out: Mini DIN 4-pin, Y - 1V p-p at 75 ohms, C - 0.286 V p-p at 75 ohms
 Simultaneous 480i, on-screen menu displayed when digital set to 480i
 DVI Out: DVI-D with HDCP (1080i/720p/480p), HDMI video with optional adapter
 Ethernet Control: 10/100baseT RJ-45 jack
 Ethernet LEDs: Right yellow LED indicates 100 baseT speed/10 baseT when off
 Left green LED indicates link, blinks with data activity
 RS-232 Control: DB-9 male, RS-232 data link to control system, PC, or RS-232 controlled display
 300 to 115,200 baud (9600 default), 8 data bits, no parity, 1 stop bit
 IR In: 3.5 mm stereo input for external IR sensor or wired IR
 Discrete codes available
 Power In: AC power port, 120 VAC, 60 Hz, 16W (not shown above)

Video

Frequency Range: NTSC, ATSC and Clear QAM (cable) television 55.25 to 801.25 MHz
 TV System: NTSC, ATSC DTV (1080i/720p/480p/480i)
 Tuning: Off-air 2-69 and CATV 1-135
 Aspect Ratio: Letter Box, Cropped, or Squeezed
 Captioning: DTV, set by program or customized for size, font and display attributes
 Analog CC1-CC4, TT1-TT4, On/On with Mute/Off modes
 Lock: Parental option for channels and/or rating

Includes

RF loop cable
 RCA composite video/coax audio cable
 Stereo RCA cable
 Component YPbPr cable
 HD-RC IR Tuner Remote, 4 batteries (AAA)

Options

RKHD Kit for mounting single unit in 19" rack (2RU)



HD-RC Remote