

Specifications

AVT 200HD

NOTE: The AVT 200HD does not demodulate NTSC or analog CATV signals.

RF video input

Number/signal type	1 radio frequency (RF)
Connector	1 female F connector
Level	ATSC: -80 dBm to -5 dBm Cable: -62 dBm to -32 dBm
Impedance	75 ohms
Frequency range	54 MHz to 863 MHz
ATSC channels	2-69
Cable channels	1-135

Signal processing

Video	ATSC 8-VSB demodulation 64/256 QAM demodulation MPEG2 main profile high level video decoding
Audio	5.1 channel Class A Dolby® Digital audio decoding PCM audio decoding

Video output — analog

Number/signal type	1 RGBHV 1 component video 1 S-video 1 composite video
Connectors	5 female BNC 3 female BNC 1 female 4-pin mini DIN 1 female BNC
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels	0 V to 1.0 Vp-p
Impedance	75 ohms
Scaled resolution	480i ¹ , 480p ¹ , 720p ² , 1080i ² ¹ = at 59.94 Hz, ² = at 60 Hz
DC offset	±20 mV with input at 0 offset

Video output — digital

Number/signal type	1 single link HDMI with audio
Connector	1 female HDMI type A
Scaled resolution	480p ¹ , 720p ² , 1080i ² ¹ = at 59.94 Hz, ² = at 60 Hz

Sync

Output type	RGBHV, bi-level and tri-level for component video
Output level	2.75 V to 5.0 Vp-p for RGBHV 0.6 Vp-p for component video tri-level sync 0.3 Vp-p for component video bi-level sync
Output impedance	75 ohms
Polarity.....	Negative (default) or positive, selectable

Audio — analog

Gain	Unbalanced output: 0 dB; balanced output: +6 dB when volume is set to 0 dB gain
Frequency response.....	20 Hz to 20 kHz, ± 0.5 dB
THD + Noise.....	<0.3% @ 1 kHz
S/N.....	>-100 dB @ 20 Hz to 20 kHz, unweighted
Stereo channel separation	>35 dB @ 1 kHz

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV \approx 2 dBu

Audio output — analog

Number/signal type	1 balanced/unbalanced stereo 1 unbalanced stereo
Connectors	(1) 3.5 mm captive screw connector, 5 pole 1 pair of female RCA jacks
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	± 0.5 dB channel to channel
Nominal level	-10 dBV (316 mVrms), +4 dBu (1.23 Vrms)
Maximum level (Hi-Z).....	+6 dBV (unbalanced), +15 dBu (balanced) at 1% THD+N

Audio output — digital

Number/signal type	2 S/PDIF (1 optical, 1 coaxial)
Formats.....	PCM, AC-3 (Dolby Digital 5.1)
Connectors	1 TOSLINK™ fiber optic connector 1 RCA jack

Control/remote — tuner

NOTE: The front panel USB port and rear panel RS-232 port are independent of each other and can be used at the same time.

Serial control port.....	1 bidirectional RS-232, 3.5 mm captive screw connector, 5 pole (shared with wired IR control)
Baud rate and protocol.....	115200, 38400, 19200, or 9600 baud (default); 8 data bits; 1 stop bit; no parity
Serial control pin configurations	1 = Tx, 2 = Rx, 3 = GND, 4 = modulated IR, 5 = +12 VDC
USB control ports	1 front panel female mini USB B
USB standards	USB 2.0, low speed
Ethernet control port.....	1 RJ-45 female
Ethernet data rate	10/100Base-T, half/full duplex with autodetect
Ethernet protocol	ARP, ICMP (ping), IP, TCP, DHCP, HTTP, SMTP, Telnet
Ethernet default settings	Link speed and duplex level = autodetected IP address = 192.168.254.254 Subnet mask = 255.255.0.0 Default gateway = 0.0.0.0 DHCP = off
Web server.....	Up to 200 simultaneous sessions 7.25 MB nonvolatile user memory

IR remote control	AVT 200HD remote (optional) Front panel: 30' maximum, 40 degrees off axis Rear panel captive screw connector (shared with RS-232): 38 kHz, hardwired, modulated
Program control	Extron control/configuration program for Windows® Extron Simple Instruction Set™ (SIS™) Microsoft® Internet Explorer® ver. 6 or higher, Telnet
IR/serial control ports.....	(2) 3.5 mm captive screw connectors, 2-pole Programmable: RS-232 (±5 V), or TTL level (0 to 5 V) infrared up to 1 MHz

General

Power supply.....	Internal 100 VAC to 240 VAC, 50-60 Hz
Power consumption	25.0 watts
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling.....	Convection, vents on top and sides
Thermal dissipation	52 BTU/hr
Mounting	
Rack mount	Yes, with included brackets
Furniture mount	Yes, with optional mounting kit
Enclosure type.....	Metal
Enclosure dimensions	1.7" H x 17.5" W x 10.5" D (1U high, full rack wide) (4.3 cm H x 44.4 cm W x 26.7 cm D) (Depth excludes connectors.)
Product weight.....	5.5 lbs (2.5 kg)
Shipping weight.....	10 lbs (5 kg)
Vibration.....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety	CE, c-UL, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI
Warranty.....	3 years parts and labor

NOTE: All nominal levels are at ±10%.

NOTE: Specifications are subject to change without notice.

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