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- Digital Signage software and Media Players
- HD Matrix Switchers
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- HDMI and Component HD distribution amplifiers
- CAT 5 Signal Extenders
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- and cables of all types.

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WARRANTY

Cable Electronics, Inc. warrants this product to be free from defects in material and workmanship, under normal use and service, for a period of one year from the purchase by the original purchaser. If this product is defective or malfunctions, Cable Electronics will replace or repair this unit (at their option) within a reasonable time. No expressed or implied warranty is made for any defects caused by immersion or exposure to liquids, abuse, neglect, improper operation of unit, excess wear and tear and defects resulting from unauthorized disassembly and or modification.



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Document: AV501HDXi_manual.pdf

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INSTRUCTION MANUAL



AV501HDXi

Component Video/Audio
HDTV Distribution Amplifier

Includes Input Ground Isolation Circuitry
Helps Eliminate Video Hum Bar Problems

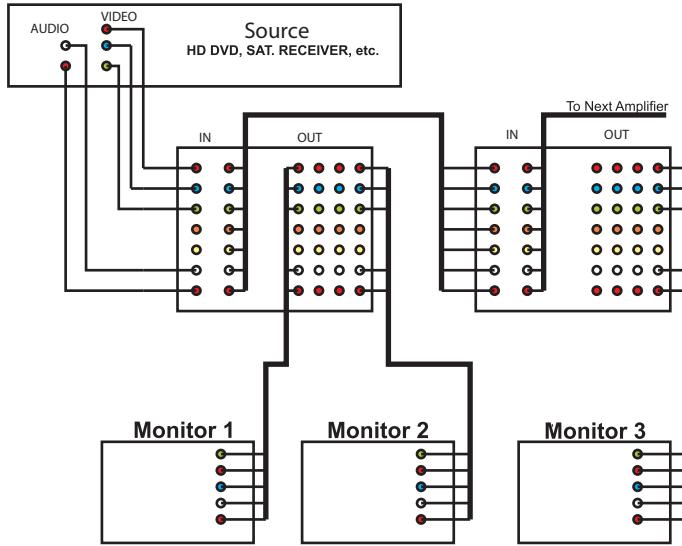


True One-to-One Signal Ratio

Duplicates a Video/Audio Source to multiple outputs without any signal loss.

Designed for large display arrays.

Heavy duty metal housing. Commercial duty rated.



AV501HDXi

The AV501HDXi incorporates isolation circuitry on the input connectors that helps to eliminate AC hum bars associated with ground loops. The ground connection on the inputs is isolated by a high impedance that effectively breaks the AC ground loops.

The AV501HDXi has one set of inputs and five sets of outputs (Output #5 is designated as the loop output, but may be used to drive a monitor directly). The unit allows any Audio/Video source, with Y, Cb, Cr, or Y, Pb, Pr Outputs (component), to distribute Audio and Video to five different locations without any signal loss. The amplifier also supports composite video and digital audio.

Note: the loop output may be used to daisy chain several units together as is typically done in store displays.

INSTALLATION/OPERATION INSTRUCTIONS

Unpack the amplifier and power supply from the box. Place the amplifier in a dry location, usually behind the shelf where the monitors are located.

The unit has integrated mounting brackets that are pre-drilled in case the user wishes to screw the unit to the shelf (screws supplied by user).

Connect the source device outputs to the appropriate input jacks on the AV501HDXi.

Connect cabling from the AV501HDXi outputs to the desired display or recording device.

The loop output may be used as normal or connect to the next distribution amplifier to create more outputs.

Insert the power supply connector into the power jack of the AV501HDXi. Plug the wall transformer into a 120Vac outlet. The power LED should be on and the unit is ready to use.

This unit is very effective in breaking AC ground loops that cause moving video hum bars. If a system using non-isolated distribution amplifiers is exhibiting hum bars, place the AV501HDXi between the video source and the first distribution amplifier. This should eliminate or greatly reduce visible hum bars. Larger display systems may contain more than one AC ground loop, and require more than one isolated input amplifier to totally eliminate the issue.

SPECIFICATIONS

VIDEO

Nominal Input level:	1 Volt peak to peak
Gain:	1 Volt into 75 ohms
	2 Volts Unterminated
Input Impedance:	75 ohms
Output Impedance:	75 ohms
Isolation port to port:	32 dB
Isolation output to input:	60 dB
Return loss:	>18 dB
Video bandwidth:	150 MHz

AUDIO

Analog:

Nominal Input level:	1 Volt peak to peak
Gain:	Unity (one to one)
Input impedance:	22k ohm
Output impedance:	1k ohm
THD:	<0.05%
Frequency Response:	20Hz to 100kHz
Channel Separation:	>75dB
Port to Port Isolation:	60dB
Out to Input Isolation:	60dB
Signal to Noise:	>100dB @ 2 Volts out

Digital:

Supports Standard SPDIF digital audio. Unity gain when terminated into 75 ohms (2X gain, high impedance.) Greater than 50 MHz of bandwidth to ensure minimal degradation.

POWER

Requirement: External 9 to 10 Volt AC @ 1000mA with a (2.1mm center diameter) Coaxial Connector.

Power supply is included.