



Multimedia Accessories

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HDDA-1 HDTV Wideband Analog Distribution Amplifier



Overview And Uses

The HDDA-1 is a very wideband analog Distribution Amplifier (DA) capable of buffering and splitting any nominal 1 to 2 Volt (peak to peak) signal that terminates into 75 ohms. This includes any of the following.

- HDTV Analog RGB/YPbPr signals.
- Standard Def. Analog RGB/YPbPr/Betacam
- Component DVD, Progressive or Interlaced.
- Composite Video (NTSC)
- SPDIF Digital Audio (PCM/AC3/DTS)

Configurations

The HDDA-1 can be configured in a number of ways. Here are the most common.

- ◆ A 1-In to 4-Out HDTV Receiver or Progressive Scan DVD Splitter. Figure 2
- ◆ A 1-In to 10 out Composite Distribution Amp to feed a stack of Dubbing VCR's. Figure 3
- ◆ Three separate 1-In to 4-Out DA's. Figure 4.
- ◆ Home Theater. One input distributes the Composite (NTSC) video to the Displays and another input distributes the Digital Audio to the Audio equipment. Figure 5

The unit is supplied with the proper 12VDC Power Supply (center pin positive +).

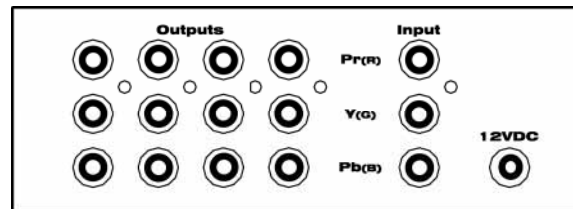


Figure 1 - Connectors

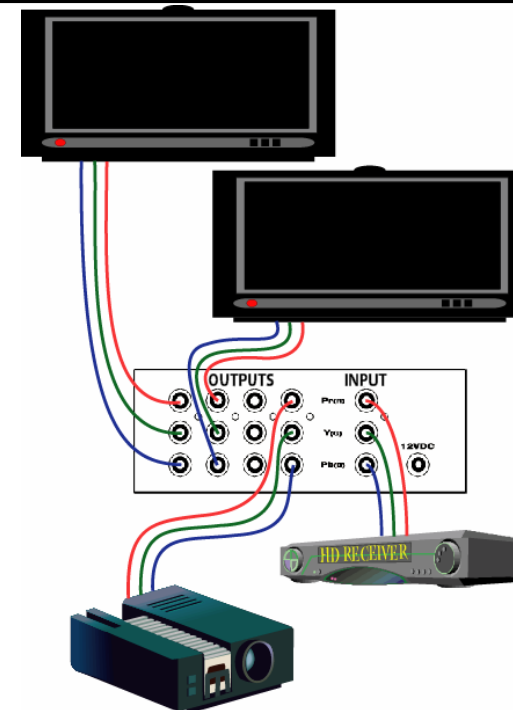


Figure 2 - Component Video Distribution

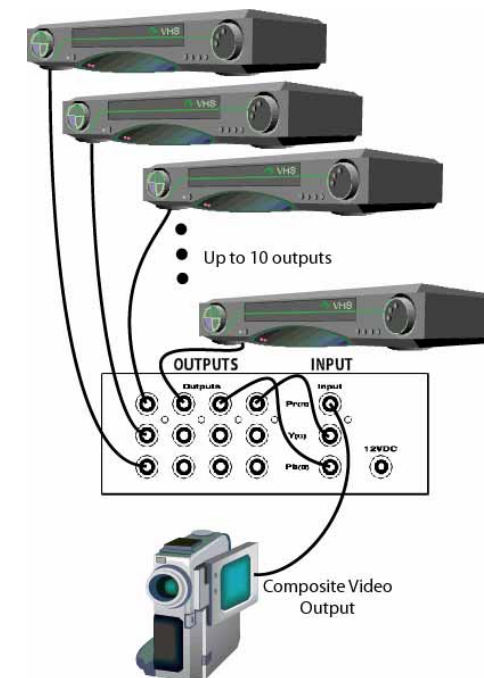


Figure 3 - Composite Video Distribution 1X10

Configurations Continued

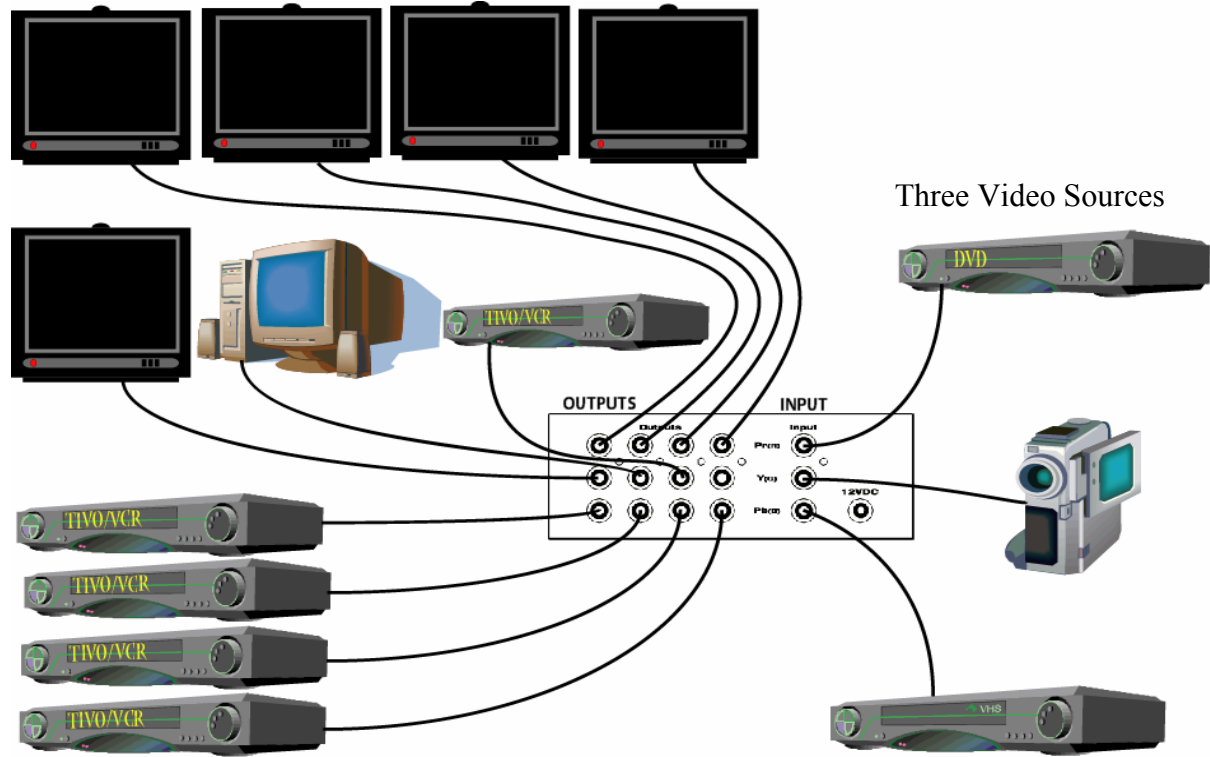


Figure 4 - Three Separate Splitters

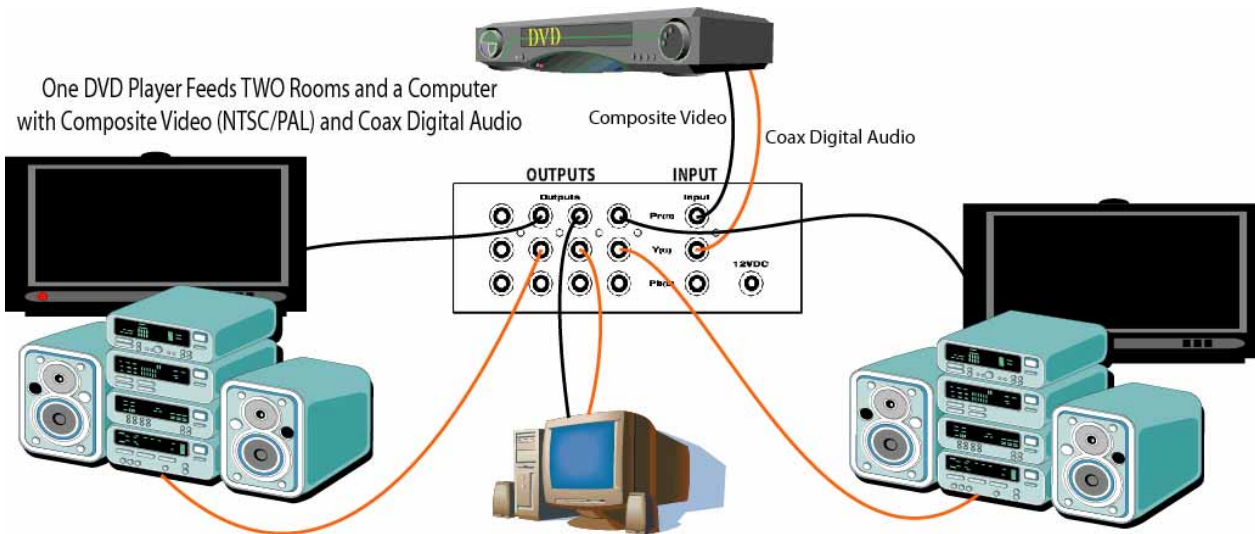


Figure 5 - Home Theater with Video and Digital Audio

Questions

Q: Why No Looping Inputs.

A: Looping inputs are ones that bridge off an unterminated input and send it to another input. This lets you daisy chain the inputs and terminate only at the last input. This works fine for Low Frequency video like NTSC (composite) at 5MHz, but not for High Frequency HDTV where frequencies can reach over 100 MHz. The input must be terminated to prevent reflections on the cable and maintain bandwidth.

Q: Can I split Analog Audio with this DA.

A: Yes, but the level (Volume) can drop from 2dB to 30dB due to the low input impedance (75 ohms). Some audio equipment with low enough output impedance can feed this DA with acceptable results, but most will have a high impedance that will cause unacceptable signal loss.

Q: Can I split Digital Audio (SPDIF).

A: Yes. SPDIF is just AES/EBU digital audio that is designed to run over Coax cable just like video.

Q: Could I use the Splitter for my Computer VGA output?

A: Yes. It would require 2 HDDA-1's and a bunch of adapters. One DA is required for the RGB Signals and another for the H and V Sync signals.

Specifications

INPUT:

3 Gold Plated RCA
Each 75 Ohm Terminated
Color Coded: Red, Green, Blue
Nominal Signal should be 1 Vp-p.
Maximum of 4 Vp-p.

OUTPUT:

12 Gold Plated RCA
Color Coded: 4 Red, 4 Green, 4 Blue
Impedance 75 ohms
Noise > 60dB below 1 Vp-p
Frequency Response DC-220 Mhz +/- .3dB

POWER:

12VDC (18VDC Max) @ 150ma Max.
Wall Transformer supplied

DIMENSION:

4"W x 6"L x 2"H

TEMPERATURE

0 TO 50 DEGREES C

HUMIDITY

0 TO 90% (non-condensing)

Disclaimer

This manual has been checked for accuracy. Indya assumes no liability for damages incurred directly or indirectly from errors or omissions or from the use and suitability of this product for a particular application.

Revision 1.1

1/28/2002