

**Component Video/Digital Audio  
HDTV Distribution Modules**

## **Cat 5 Distribution Adapter UTP BALUN**

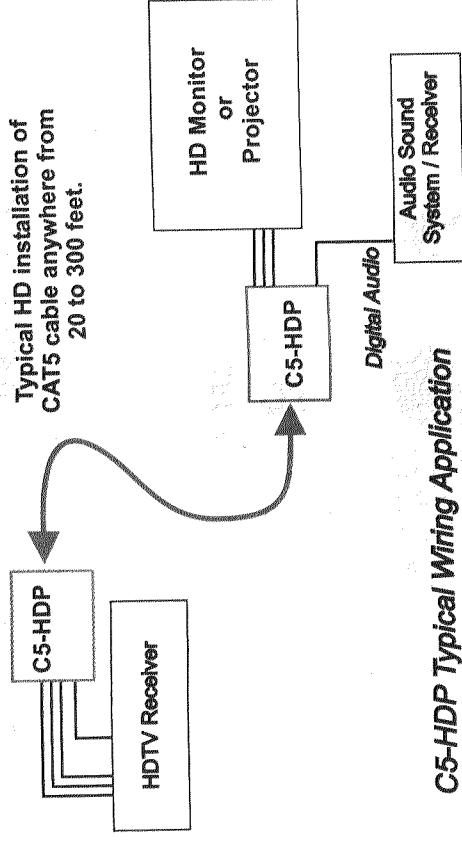


Distribute a High Definition  
Video / Digital Audio Source to multiple locations over  
extended distances using economical Cat 5 cable.

**Cable Electronics, Inc.**

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### C5-HDP Typical Wiring Application

## Installation / Operation Instructions

Unpack the C5-HDP from the box. Place the adapter in a location close to the source unit.

Connect the source device outputs to the appropriate input jacks on the C5-HDP using a customer supplied RCA component video cable.

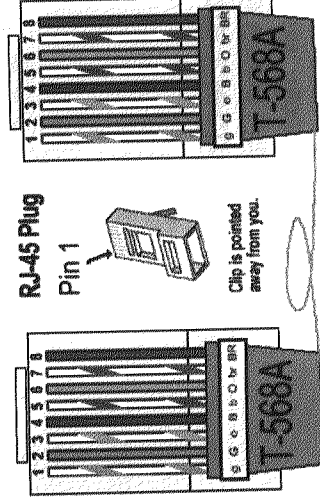
If not already installed, run the UTP cable from the source to the destination. Leave extra cable length to terminate the ends with RJ-45 connectors. Either EIA-568A or EIA-568B wiring standard may be used, as long as it is the same on both ends of the UTP cable.

### Do not use a cross-over cable!

Plug the remote end of the UTP cable into a second C5-HDP unit. Connect a component video cable from the C5-HDP to the HD monitor. The digital audio can be connected to the monitor (provided that it has the digital audio input option) or to an audio receiver that has digital audio input capabilities.

Adjust brightness on video monitor to compensate for cable loss.

Installation is complete.



## High Definition CAT5 Passive Baluns

The C5-HDP is a high quality, wide bandwidth balun that is designed specifically to transport HD video over medium distance UTP cable runs. It has a set of four RCA connectors for component video and digital SPDIF audio. The UTP connector uses standard Cat5 or Cat6 cable in order to transport the signals to a remote location. All four channels use the same wide bandwidth, custom balun transformer. This allows all channels to be used for composite video if desired. The chassis is heavy gauge steel to stand up to any abuse and provides excellent shielding to prevent pickup of unwanted signals. The chassis is powder-coat painted to ensure corrosion and scratch resistance.

### SPECIFICATIONS

#### VIDEO:

Nominal Input level: 1 Volt peak to peak  
 Gain: N/A (Passive unit)  
 Input Impedance: 75 ohms  
 Output Impedance: Balanced 100 ohms  
 Isolation port to port: >60 dB  
 Isolation out to input: Bi-directional  
 Return loss: >15 dB  
 Video bandwidth: > 35 MHz

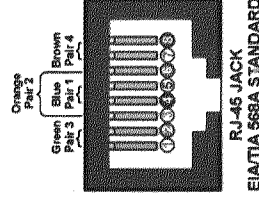
#### AUDIO:

##### Digital / Analog

There is one audio channel available. It may be used to transport a SPDIF digital audio signal or a mono audio signal (mono analog signal will be attenuated slightly due to lower impedance of the Digital Audio channel).

#### PINOUT

Pin	Description
1	Pr +
2	Pr -
3	Pb +
4	Y +
5	Y -
6	Pb -
7	Digital Audio +
8	Digital Audio -



RJ-45 JACK  
EIA/TIA 568A STANDARD

#### DISTANCE:

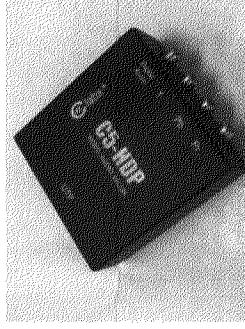
The adapter provides a minimum of signal loss and may be used for High Definition distribution with cable lengths up to 200 feet usually with no adjustment to the monitor.

We have achieved good results with a 1080i signal with cable in excess of 300 feet. Due to the passive nature of the adapter and the inherent loss of the UTP cable, the picture was a little less bright, but easily corrected with minor adjustment to the monitor brightness control.

For composite video, the balun should provide an excellent picture in excess of 750 feet. When used in security applications, a monochrome picture will work in excess of 1500 feet.

#### POWER

No power required.



CABLE ELECTRONICS, INC.

CE labs can support many areas of your audio and video distribution needs.

We manufacture RF modulators, RF amplifiers, HD distribution amplifiers, and cables of all types.

See our full product line at [www.celabs.net](http://www.celabs.net).

#### 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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