

## IN1124 Twisted Pair Transmitter / 1x4 Distribution Amplifier for High Resolution Video & Audio

## IN1130 Twisted Pair Receiver / 1x2 Distribution Amplifier for High Resolution Video & Audio



The **IN1124** Twisted Pair Transmitter / Distribution Amplifier and **IN1130** Twisted Pair Receiver / Distribution Amplifier combine to create a transmission and distribution system for sending high resolution RGBHV video signals and audio signals up to 500 feet using Category 5 unshielded twisted pair (UTP) cable. The **IN1124 / IN1130** twisted pair video / audio transmission system lets A/V system designers and installers take advantage of the compact size, flexibility, and extremely low cost of CAT5 UTP cable. By using one **IN1124** transmitter and four **IN1130** receivers, the VGA and audio signal from one source computer can be split and amplified to drive a local monitor plus up to 8 additional displays.

**IN1124-1 Twisted Pair Transmitter / Distribution Amplifier for High Resolution Video** - VGA input signals are connected to the **IN1124-1** transmitter which features a 15-Pin HD connector for VGA video input and a 15-Pin HD connector for a local monitor loop output. Since the **IN1124** also acts as a 4 output distribution amplifier, four RJ45 female output connectors are provided for direct connection to four CAT5 cables.

**IN1124-2 Twisted Pair Transmitter / Distribution Amplifier for High Resolution Video & Audio** - The **IN1124-2** transmitter features the same VGA input, local monitor output and CAT5 output connectors as the **IN1124-1**. It also provides (1) 3.5mm stereo mini connector for stereo audio input and (1) 3.5mm stereo mini connector for audio output to drive a local audio device. The **IN1124-2** converts stereo audio input signals to mono audio.

**IN1130-1 Twisted Pair Receiver / Distribution Amplifier for High Resolution Video** - The CAT5 link cable is connected to the **IN1130-1** receiver which features an RJ45 female connector for CAT5 video input. Two 15-Pin HD output connectors are provided to drive two data displays simultaneously.

**IN1130-2 Twisted Pair Receiver / Distribution Amplifier for High Resolution Video & Audio** - The **IN1130-2** receiver features the same CAT5 input and VGA outputs as the **IN1130-1**. This model also provides (2) 3.5mm mini connectors for audio output.

**High Quality Video** - The **IN1124 / IN1130** system employs sophisticated video circuitry to maintain excellent video quality with VGA video signals at resolutions as high as 1600 x 1200. A **Video Peaking** control on the **IN1130** receiver lets users fine tune the video compensation to optimize the video image for various cable lengths.

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### FEATURES

- Send High Resolution Computer Video Signals Up to 500 Feet Over CAT5 UTP Cable
- Send Audio Signals over CAT5 UTP Cable (IN1124-2 / IN1130-2 Only)
- Split and Amplify One VGA Signal to a Local Monitor Plus 8 Displays using (1) IN1124 CAT5 Transmitter / DA & (4) IN1130 CAT5 Receiver / DAs
- Compatible with High Resolution Analog Video Signals in the RGBHV, RGBS, RGsB Formats
- Video Peaking Control - Provides Adjustable Cable Compensation to Optimize Video Image for Different Cable Lengths

### SPECIFICATIONS

#### IN1124-1 / IN1124-2:

Video Input Connector: (1) 15-Pin HD female  
Local Monitor Output: (1) 15-Pin HD female  
Stereo Audio Input: (1) 3.5mm Stereo Mini female (IN1124-2 only)  
Local Audio Output: (1) 3.5mm Stereo Mini female (IN1124-2 only)  
Output Connectors: (4) RJ45 female  
Video Input Signals: Analog video, 1.5 Vp-p max. Sync Signals: TTL  
Compatible Signal Formats: RGBHV, RGBS, RGsB  
Audio Input Signals: Line Level Stereo Audio

#### IN1130-1 / IN1130-2:

Input Connector: (1) RJ45 female  
Data Display Outputs: (2) 15-Pin HD female  
Audio Outputs: (2) 3.5mm female (IN1130-2 Only) - Mono Audio

#### GENERAL:

Power Supply - IN1124: 9VDC, 2.0A External Adapter Included  
Power Supply - IN1130: 9VDC, 500mA External Adapter Included  
Accessories Included: IN9031 VGA Termination Plug (with IN1124)  
Listed on reverse  
Optional Accessories:  
Shipping Weight - IN1124: 3 lbs. / 1.5 Kg Product Weight: 1 lb. / 0.45 Kg  
Shipping Weight - IN1130: 2 lbs. / 1 Kg Product Weight: 0.7 lb. / 0.3 Kg  
Dimensions - IN1124: 1.65" x 8.5" x 6" / 4.2cm x 21.6cm x 15.2cm  
Dimensions - IN1130: 1.65" x 5.6" x 3.75" / 4.2cm x 14.2cm x 9.5cm  
Regulatory Approvals: UL1950, CAN/CSA-22.2 No.950, Third Edition  
CE: EN55022 (1987), EN50081-1 (1991), EN50082-1 (1992 and 1994), EN60950-92

**Flexible Input Signal Compatibility** - In addition to VGA signal compatibility at all resolutions up to 1600x1200, the **IN1124 / IN1130** CAT5 high resolution video transmission system is also compatible with high resolution analog video RGBHV, RGBS or RGSB signals at a variety of resolutions and refresh rates. By using the appropriate adapter cables or a computer video interface on the input, the **IN1124 / IN1130** system can be used to transmit high resolution video and stereo audio signals from MAC, SUN, SGI and other high resolution workstations.

**Twisted Pair Cable Compatibility** - The **IN1124 / IN1130** have been optimized for Category 5 unshielded twisted pair (UTP) cable. However, the system will work with other twisted pair cables that conform to the appropriate pin outs and performance characteristics. The system may be used with CAT3 cable but video performance will be compromised and maximum cable lengths and maximum input signal resolution must be decreased. As new, higher performance types of twisted pair cables are developed in the future that exceed the capabilities of CAT5, the **IN1124 / IN1130** will be able to offer enhanced video bandwidth over longer cable runs.

**Advantages of CAT 5 Cable** - Leveraging the many benefits of CAT 5 cable, the **IN1124 / IN1130** CAT5 high resolution video and stereo audio transmission system provides A/V system designers with an economical, space efficient solution for high resolution video and stereo audio signal transmission in a variety of applications.

**Low Cost** - CAT 5 cable is extremely affordable, costing only a fraction of high resolution multi-conductor coaxial cables.

**Quick and Easy Termination** - Utilizing RJ45 connectors, CAT5 cables offer fast, easy, and extremely economical cable terminations.

**Easy Handling and Compact Size** - CAT5 cable is much thinner than high resolution and super high resolution coaxial cables, providing easy cable pulls and preserving conduit space. The **IN1124 / IN1130** twisted pair system uses just one CAT5 cable to transmit an entire high resolution RGBHV and audio signal. Using multiple **IN1124** transmitters and **IN1130** receivers it is now possible to send a dozen or more RGBHV signals in the same conduit space required for a single super high resolution 5-conductor coaxial cable.

**Inline CAT5 Cables** - Inline offers the **IN9500** series of CAT5 cables, available in lengths from 50 feet to 300 feet. These high quality CAT5 cables are pre-terminated with molded RJ45 connectors for enhanced durability.

**Rack Mountable** - Two **IN1124** transmitters can be rack mounted side-by-side in a 1U rack space using the optional **IN9080** rack shelf. A single **IN1124** transmitter can be rack mounted with the **IN9080** rack shelf and the **IN9088B** blank panel. The **IN1130** receiver can be mounted to virtually any flat surface using the optional **IN9089** "L" brackets that attach to the sides of the unit.

#### MAXIMUM RECOMMENDED CABLE LENGTHS FOR IN1124 / IN1130 SYSTEM USING CAT5 CABLE:

<u>Resolution</u>	<u>Maximum Length</u>
1600 x 1200	250 feet
1280 x 1024	300 feet
1024 x 768	350 feet
800 x 600	400 feet
640 x 480	500 feet

#### OPTIONAL ACCESSORIES

##### CAT 5 Link Cable

<b>IN9550</b>	<b>50' Long</b>
<b>IN95100</b>	<b>100' Long</b>
<b>IN95150</b>	<b>150' Long</b>
<b>IN95200</b>	<b>200' Long</b>
<b>IN95250</b>	<b>250' Long</b>
<b>IN95300</b>	<b>300' Long</b>

##### Mounting Accessories

<b>IN9089</b> Mounting Brackets
<b>IN9080</b> Rack Shelf
<b>IN9088</b> Blank Panel

One Pair of "L" Brackets, Mounts <b>IN1130</b> Receiver to Any Flat Surface
1U Rack Shelf Holds 1 or 2 <b>IN1124</b> Transmitters
1U Half Rack Wide Blank Panel - Fills Empty Space When Mounting Only One <b>IN1124</b>

