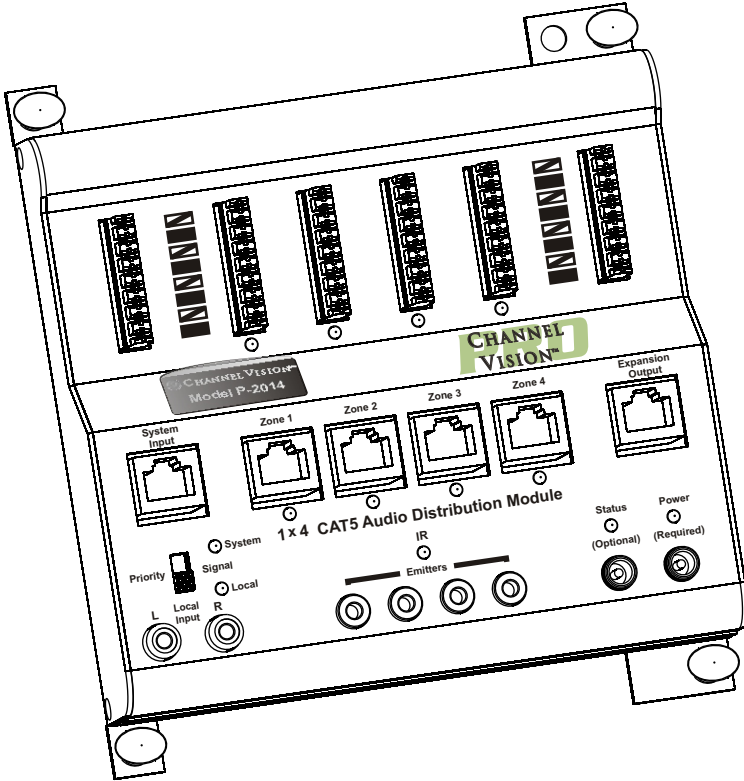


# INSTRUCTIONS



## **P-2014** **1x4 CAT5 Audio Distribution Module**

● CHANNEL VISION™

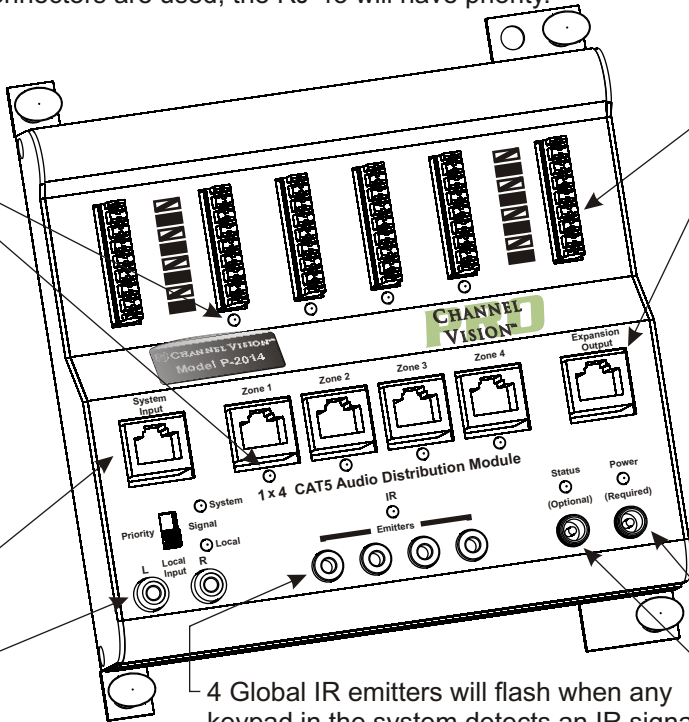
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The **P-2014** functions as the heart of your CAT5 audio system. It is a 1x4 distribution module that delivers audio signals and power to 4 keypads (model A0125). 4 IR emitter outputs on the P-2014 allow IR signals detected by the A0125 to control source devices such as CD players and AM/FM tuners. The A0125 acts as the volume control for the A0240 40Watt in-room amplifier.

- Both RJ-45 and 110 punch down connectors for easy setup
- Integrated single source audio input
- 4 common IR emitter outputs

Expansion connectors are used to hook up additional units for more CAT5 audio outputs.

Connection LEDs light when the A0125 keypad is attached. Only 4 keypads (1 per zone) can be powered at a time. If both RJ-45 and 110 connectors are used, the RJ-45 will have priority.



4 Global IR emitters will flash when any keypad in the system detects an IR signal.

Local Input

System Input from model A0301, A0313, or expansion output.

Optional Status power connection (for future use).

Power supply connection (included).

## How Does it Work?

Channel Vision's CAT5 Audio System uses Category 5 cable to distribute power, audio, and IR control signals. Power and line-level audio signals are delivered to the keypads which act as volume controls for the A0240 40Watt per channel amplifier which in turn power a pair of in-wall or in-ceiling speakers. The keypads have IR sensors that detect signals from standard hand held remote controls. These IR signals are then transmitted through the CAT5 wire back to a hub or input module where they activate IR emitters that control the source devices. IR emitters attach directly to the front of the source devices and recreate the IR signals that were produced by the remote control.

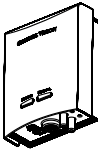
### Required components



**A0125** ... 1 per listening zone. Acts as volume control for the A0240 and relays IR information. Mount the keypad in single gang low-voltage ring or J-box (if required by code). Compatible with Decorator style wall plates. Blue LEDs show volume level. Keypad completely mutes when bottom LED is off.

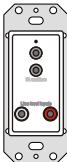


**A0302** ... 1 per every A0125. Transfers line-level audio into the A0240 and takes speaker-level audio from the A0240 and connects it to the speakers.



**A0240** ... 2-channel Amplifier. 1 per every A0125. Provides 40 Watts per channel of amplification to drive in-wall or in-ceiling speakers.

### Optional components



**A0301** ... Universal input module. Can be used to provide local source input in any room and/or act as the main system input feeding into the hub. The A0301 is a great way to enable simple connection of local sources into the zone - TV's, MP3 players, computer sources, etc.



**A0313** ... Wall Docking Station for iPod®. Can be used inject the iPod as a local source input in any room and/or act as the main system input feeding into the hub. The A0313 can extract audio from any iPod with a dock connector and will charge\* the iPod when not in use.



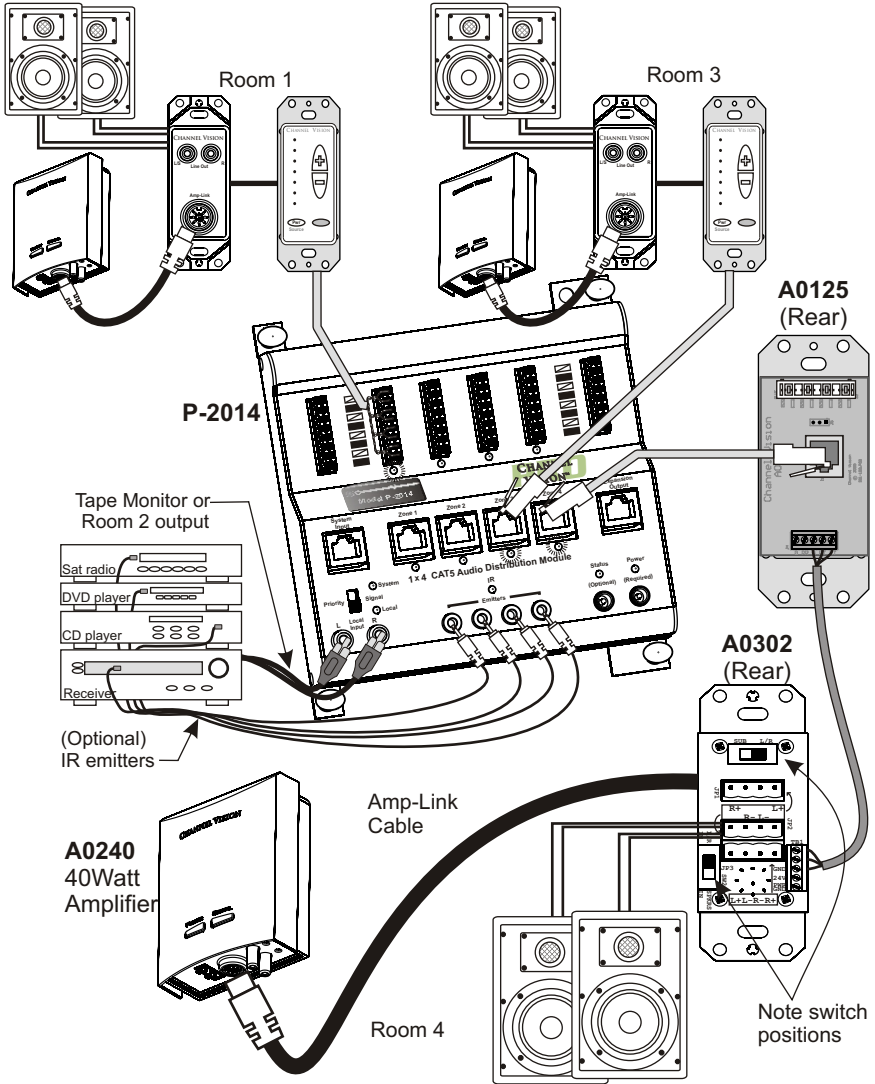
**A0505** ... Remote control. Compatible with: A0125, P-2044, P-6014, A4603, and many other Channel Vision products.



**IR-3002 & IR-3001** ... Single and dual head IR flashers. Use one head per source to control from the remote room.

# Basic System

Make all connections before applying power.

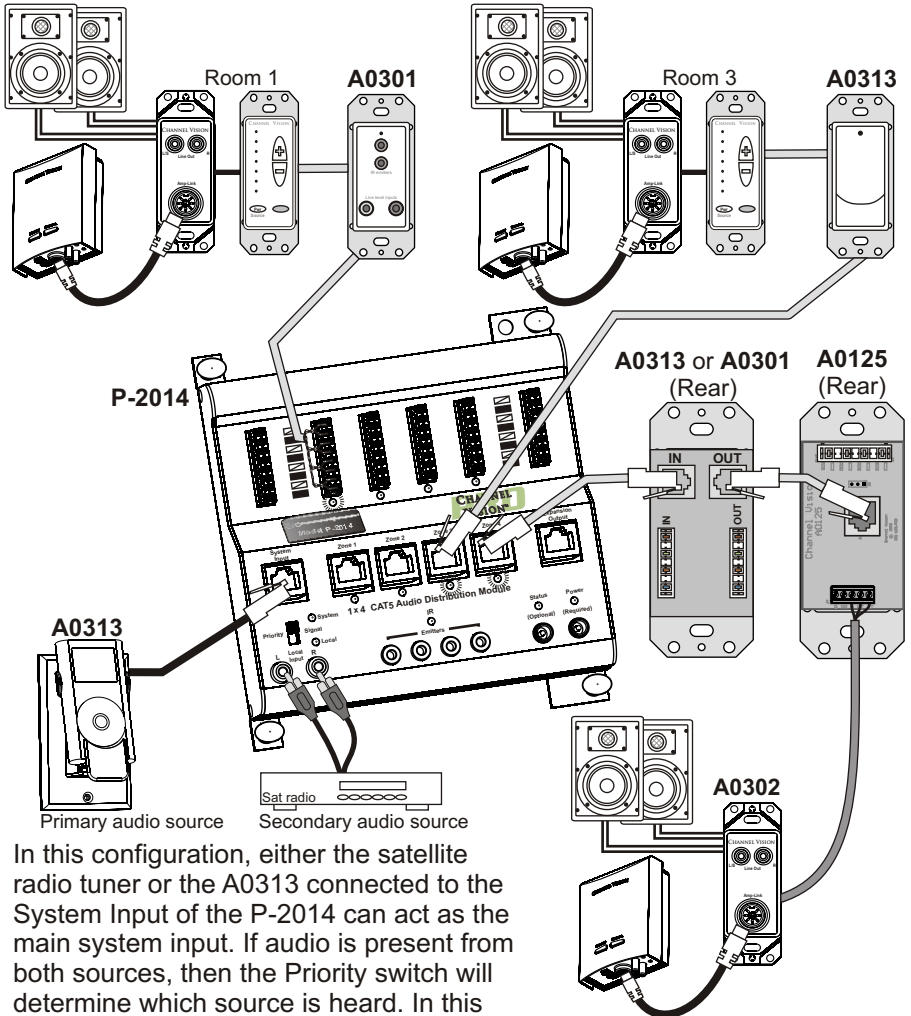


Most A/V receivers have a 'Tape Monitor' or 'Room 2' output that can be used to feed directly into the local input on the P-2014. When using the A0302 with the A0125, be sure to place both switches in the "L/R" position as shown above.

Both 110 and RJ-45 connectors are provided for convenience, but only 4 amplified keypads (1 per zone) can be powered at any one time. The LED indicator next to the active output will light up when a keypad is connected

# Advanced System

Using the A0301 and the A0313



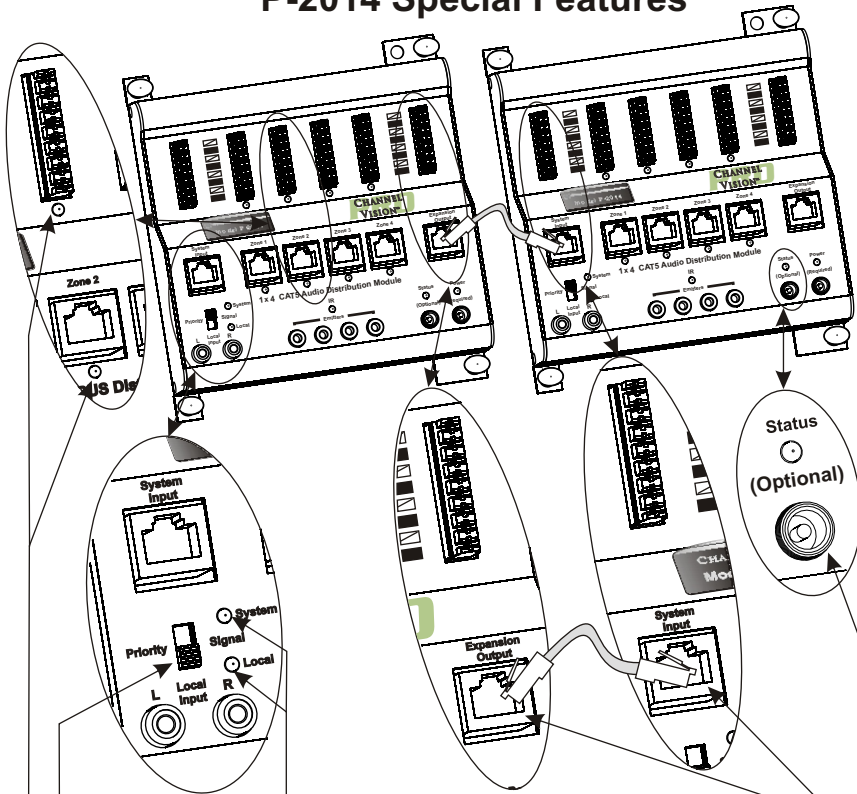
In this configuration, either the satellite radio tuner or the A0313 connected to the System Input of the P-2014 can act as the main system input. If audio is present from both sources, then the Priority switch will determine which source is heard. In this example the switch is set to give the A0313 priority.

(See Basic System for details)

A0301 and A0313 can be used as primary system inputs feeding the main hub or as local input modules in each room to override the primary audio source. The A0301 is a generic input module which provides a standard L/R RCA input and the A0313 is an iPod® docking station.

These local input modules should be installed in the CAT5 line between the P-2014 and the A0125. Multiple input modules can be installed in one CAT5 run. If audio is present at more than one input module the unit closest to A0125 will take priority and be played through the speakers.

## P-2014 Special Features



LEDs light when audio is sensed on the corresponding input.

The priority switch determines which input will be heard (either System or Local) when audio is sensed from both.

Expand your system by connecting a CAT5 jumper from the expansion output to of the first P-2014 to the System input of the second P-2014. Use either the RJ-45 connectors (as shown) or the 110 connector.

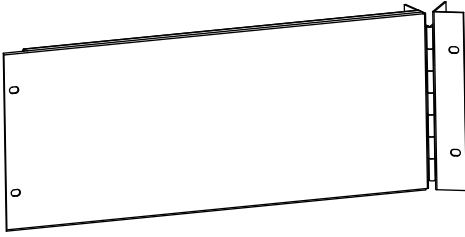
**Optional** Status power input senses when a connector is plug into it. This connection has the potential to disrupt some of the automatic switching features built into the A0125 keypad. It exists for future uses only and potential applications will be described in future manuals.

Keypad connection LEDs light when an a keypad is attached.

If a keypad is attached to the 110 connector, the LED below it will light. If a keypad is attached to the RJ-45 connector, the LED below it will light. If a keypad is attached to both connectors, the LED below the RJ-45 will light and only the keypad connected to the RJ-45 will be active.

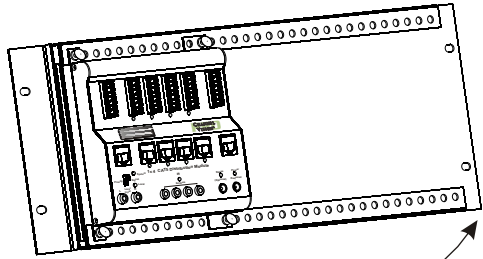
A maximum of 4 keypads (1 per zone) can be powered from each P-2014. *Note: the LED below the RJ-45 glows dimly even when the 110 connector is used. This is to indicate that the RJ-45 connection always takes priority.*

# Mounting Options

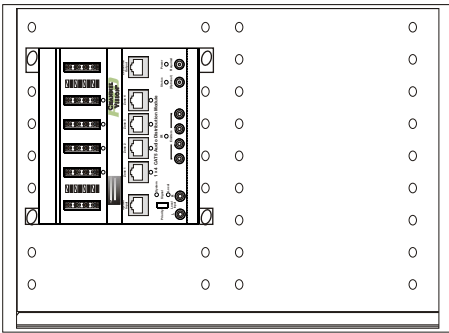


The **P-1300** from Channel Vision's Pro-series product line is the perfect home for the P-2014. The P-1300 is a hinged plate designed to fit into a standard 19" rack.

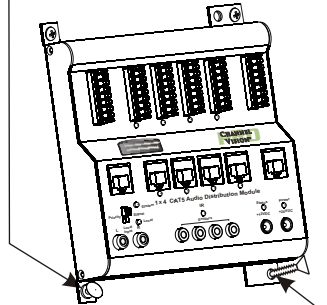
The **P-1300** hinges open to maintain a clean look and provide easy access for servicing equipment.



The P-2014 can also be mounted in a standard structured wiring enclosure or screwed to a wall or flat surface as shown below.



Cut or remove the nylon snap pin.



Install screws in empty holes.

**Specifications:** (typical)

**Power Supply:**

18VDC, 1.0Amp

**Audio Input Max Level:**

5 Vp-p

**IR Frequency range supported:**

30 kHz - 56 kHz

**Dimensions:**

6"W x 6.5"H x 1.25"D

Specifications subject to change without notice.

## CHANNEL VISION Limited Warranty

Channel Vision Technology will repair or replace any defect in material or workmanship which occurs during normal use of this product with new or rebuilt parts, free of charge in the USA, for two years from the date of original purchase. This is a no hassle warranty with no mail in warranty card needed. This warranty does not cover damages in shipment, failures caused by other products not supplied by Channel Vision Technology, or failures due to accident, misuse, abuse, or alteration of the equipment. This warranty is extended only to the original purchaser, and a purchase receipt, invoice, or other proof of original purchase date will be required before warranty repairs are provided.

Mail in service can be obtained during the warranty period by calling (800) 840-0288 toll free. A Return Authorization number must be obtained in advance and can be marked on the outside of the shipping carton.

This warranty gives you specific legal rights and you may have other rights (which vary from state to state). If a problem with this product develops during or after the warranty period, please contact Channel Vision Technology, your dealer or any factory-authorized service center.