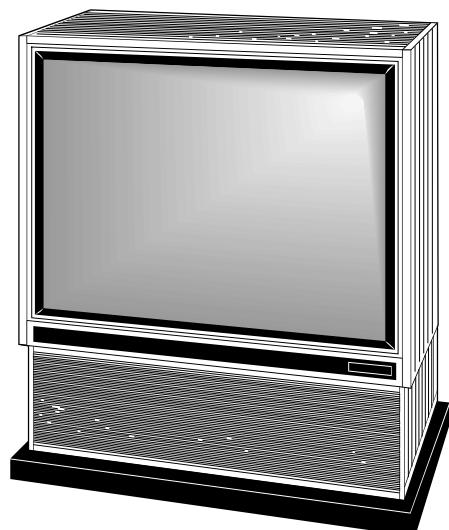
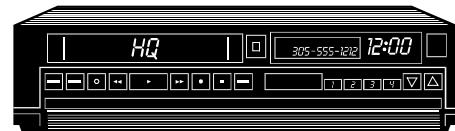


Pragmatic Communications Systems, Inc.

Audio/Video signal distribution over category 5 wires



544 E. Weddell Drive, Suite 8, Sunnyvale CA 94089

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Pragmatic Communications Systems, Inc.

CATSTM: Complete Audiophile/Videophile Transmission System

A very high performance audiophile/videophile quality audio and video signal distribution system on category 5 wires.

Wiring has always been the most challenging job in any audio / video home theater system. Heavy gauge cable hook-ups and installation is the most time consuming, laborious and expensive task in the system. Degradation of the audio performance due to noise pick-up, ground loops, signal loss, group delay distortion and other maladies has been also an issue with long cables from the multi-channel power amplifiers to the speakers. Others have attempted to alleviate these problems by using very expensive cables costing \$5 - \$10 /ft. or more. Still the noise, hum and signal attenuation issues are not fully addressed.

Pragmatic Communications Systems, Inc. (PCSi), an innovator in both wireless and wired communications technology addresses the very same issues that plague today's heavy gauge cables and audio delivery system. The Complete Audiophile/Videophile Transmission System - CATSTM system for the distribution of audiophile quality line-level audio signals on inexpensive category 3 or category 5 wires is based on Pragmatic Communications Systems, Inc.'s proprietary and patent pending Bandwidth Domain Signal Processing (BDSPTM) technology. This proprietary and patent pending BDSPTM technology enables transmission of the highest audiophile quality line-level audio signals

up to 5000 ft. on a standard category 5 or unshielded twisted pair wires without any loss in the performance, dynamic range or quality.

The state-of-the-art BDSPTM technology completely eliminates any ground loops, noise pick-up or hum at the end of the transmission distance. It also provides for superb sound and video reproduction, a very high resolution to fine details in the music and video, a warm tonality and depth perception to the music. The wide dynamic range of the BDSPTM technology delivers excellent mid-range purity, a remarkable reproduction of natural sounds with amazing depth and richness to it. The outstanding transient response renders a bass full of warmth and superior transparency to the music. There are two models of the CATSTM system currently available. CATSTM-2 is a two channel (Left, Right) transmission system that will operate on a standard category 5, a category 3 or even a standard telephone grade unshielded twisted-pair wire. Despite using this inexpensive medium to transmit and receive signals, it delivers a performance that far surpasses the most expensive audiophile and videophile cables.

The CATSTM-6 system is the ultimate in audiophile signal distribution. This multi-channel unit supports simultaneous transmission of up to six channels to

facilitate a THX® Home Cinema, Dolby® AC-3®, Dolby® ProLogic®, and Dolby® Surround Sound® in a state-of-the-art home theater system. It utilizes a standard category 5 wire to distribute the six [Left, Center, Right, Surround Left, Surround Right, and LFE (Low Frequency Effects)] channels up to 5000 ft. More than 32 receivers can be daisy-chained to the category 5 wires for multi-room distribution.

The CATS™ system transmitter accepts line level audio and video signals from any high quality signals source such as an A/V receiver, a CD player, Digital Compact Cassette (DCC), Digital Audio Tape (DAT), Mini-Disc (MD), DVD player, high end tape-deck, or any Surround Sound® processor source. The CATS™ system receiver recovers signal from the category 5 wires and superbly reproduces the original line level audio and video signals utilizing the BDSP™ technology. These line level signals can be fed into a power amplifier at the receiving end. An optional power amplifier is also available for the receivers.

Salient features of the system are: Audio frequency response 10 Hz - 20 kHz < 0.5 dB error, a system signal to noise (S/N) ratio in excess of 110 dB, a full 110 dB audio dynamic range, stereo channel separation > 75 dB and a total harmonic distortion (THD) of < 0.05 % typically. The video bandwidth is from 10Hz – 6 MHz, S/N > 65 dB and differential gain error < 2 % and differential phase error of < 2 degrees. These are very impressive numbers, but the ultimate test is a true audio test by a golden ear and we welcome you to audition this system.

There are numerous advantages of the CATS™ system. First it allows the multi-point distribution and broadcasting of line level audio signals to any location within 5000 ft. on a category 5 wire. More than 32 receivers can be connected in parallel or daisy chained together on a single wire within the coverage area to truly experience the omnipresence of music. The range can be extended to many miles or many receivers beyond 32 units by configuring a simple repeater system.

The applications of CATS™ are endless. It can be used in home theater entertainment, Surround Sound® systems, remote extension speakers for patio, poolside, etc. The CATS™ system could bring new life to theaters, amphitheaters, concert halls and studios. It can also be easily and quickly deployed at trade shows, conferences, etc.

To complement the CATS™ wired systems, the TrueMusic™ high performance wireless audio transmission system from PCSi can also be used for remote extensions where installing category 5 wires is not an option. It will provide the same quality of sound and audio performance within a 300ft. radius wirelessly. PCSi also has TrueView™* a high performance wireless video transmission system to complete the A/V distribution in the installation. More information can be obtained on these and other fine products from Pragmatic Communications Systems, Inc. by calling (408) 542-0330, faxing a request at (408) 542-0339 or visiting our web site at <http://wireless-experts.com>

* TrueView, TrueMusic, BDSP and CATS are trademarks of Pragmatic Communications Systems, Inc. All other trademarks or service marks are of their respective companies.

Pragmatic Communications Systems, Inc.

CATS™ Product Ordering Information:

CATS-2

T= Transmitter R= Receiver

A= Audio V= Video AV=Audio/video

I= Infra Red remote input / IR LED Driver

P= Audio Power amplifier (receiver only)

S= Audio Source selector (transmitter only)

C= 19" rack mount chassis (also order w/ P/S/L/N)

Q= Quad Transmitters in one chassis

N= Network protection unit (only if using
with telephone pairs)

D= A/V Distribution amplifiers (receiver only)

Examples :

CATS-2TV = Video transmitter

CATS-2RAPC = Audio receiver with Audio power amplifier

CATS-2TAVSC = Audio/Video transmitter with source selector

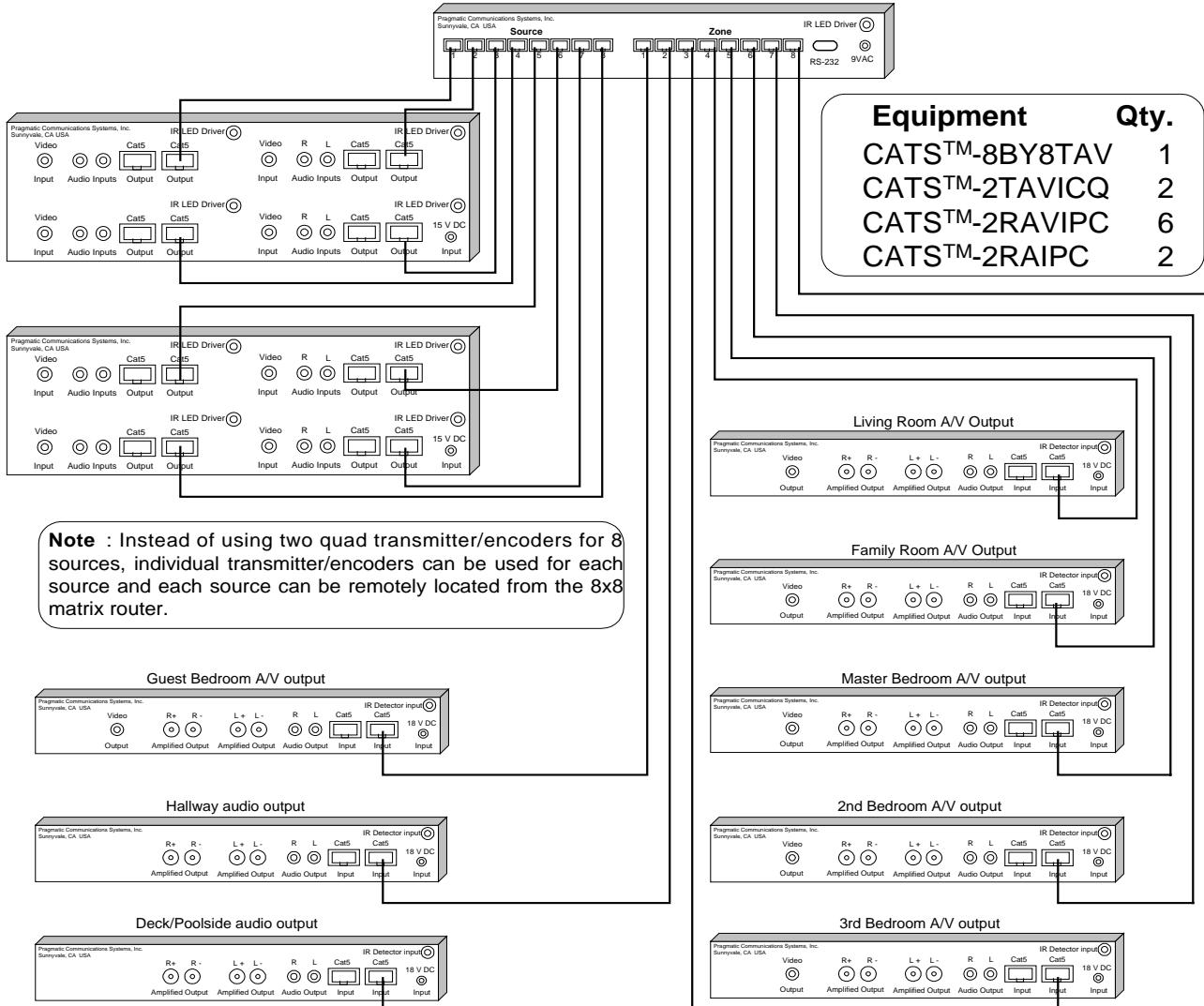
CATS-2RAVIPC = Audio/Video receiver, IR remote, power amplifier

NOTE :

IR remote control manufacturer/style must be specified when ordering the IR option.

Pragmatic Communications Systems, Inc.

CATS™ Complete Eight Zone Audio / Video signal distribution system



This diagram shows a complete 8-zone, 8-source audio/video signal distribution system. Each zone can play an independent source. Each zone has its own power amplifier with bass, treble, volume, and mute control through an IR remote. The IR source selection commands from individual zones are transmitted back to the CATS™-8BY8TAV router/switcher. The router/switcher has LED driver outputs for each source. This system can be expanded very easily to accommodate 16-zones by adding an extra CATS™-8BY8TAV and an appropriate receiver in each zone.

US and International patents pending

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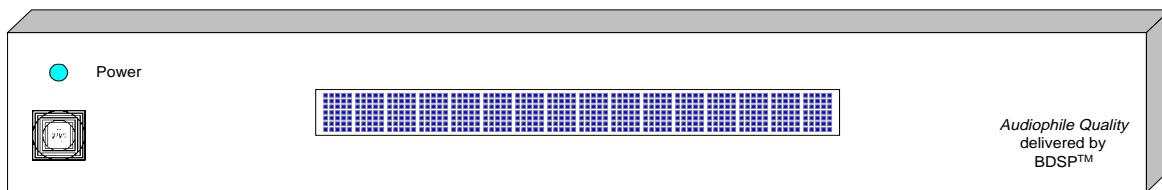
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Pragmatic Communications Systems, Inc.

CATS™-8BY8TAV Multi-Zone, Multi-source Audio/Video switcher

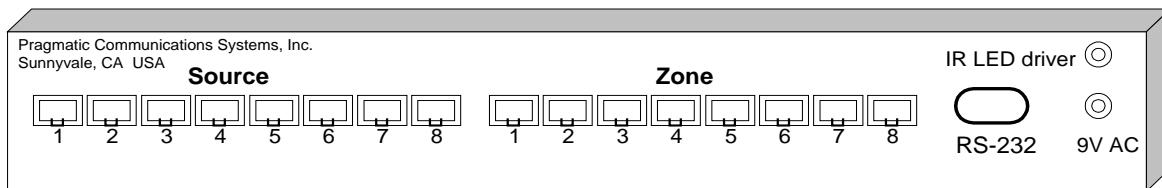
Description: CATS™-8BY8TAV is a switcher/router for multi-zone, multi-source distribution of CATS™ signals to 8 different zones. Any input can be routed to any and all zones. Programming and control is via serial input / output connection. Each zone output can be daisy chained to multiple CATS™ receivers and each zone driver is capable of driving 1000 ft. of category 5 wire. Zone selection is also possible through remote control from the zones. Independent IR LED drivers are available for source equipment control. The IR commands from the remote CATS™ receivers are interpreted by the switcher/router micro-controller and zone selection is achieved.

Front Panel View:



Front panel display optional. May be replaced with 2 lines by 16 characters Liquid Crystal Display on the front panel.

Rear Panel View:



Specifications: • Power supply 9VAC @ 450mA • Dimensions 17" X 3.75" X 10"

US and International patents pending

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Pragmatic Communications Systems, Inc.

CATS™-2TAVIC

Stereo Audio and Video Transmitter

Description: CATS™-2TAVIC is a stereo audio and video source transmitter for distribution of line level stereo audio signals and a video signal from a variety of high quality sources such as an A/V receiver, VCR, Laser Disc Player, DVD, or a DSS receiver. It encodes and processes the line level audio and video signals using the proprietary and patent pending BDSP™ technology and transmits it on a category 5, category 3, or a standard telephone grade wire. On the same pair of wires, it also receives IR universal remote control signals from the distant CATS™-2R receivers and rebroadcasts via the IR LED driver available.

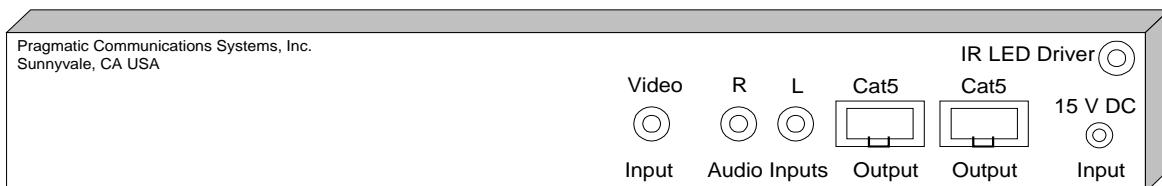
Features:

- Flat audio and video frequency response
- Operates on simple telephone grade wire
- Stereo audio and video signal distribution
- Stereo line level inputs
- Low power consumption
- Maximum number of receivers driven > 16
- IR universal remote control transponder
- Full 5 year warranty

Front Panel View:



Rear Panel View:



Specifications:

- Audio frequency response 10Hz - 24KHz $< \pm 0.5$ dB error
- Audio dynamic range > 110 dB
- Audio Signal-to-Noise ratio > 110 dB
- Audio THD < 0.05 %
- Stereo channel separation > 75 dB
- Audio Input impedance $100\text{K}\Omega$
- Video frequency response 10Hz - 6MHz with 2 degree differential phase error and 2 % differential gain error
- Video Signal-to-Noise > 60 dB
- Video input $1\text{V}_{\text{P-P}}$
- Video input impedance 75Ω
- IR carrier 9KHz-150KHz
- Power supply 15VDC@ 450mA
- Dimensions 17" x 1.75" x 10"

US and International patents pending

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Pragmatic Communications Systems, Inc.

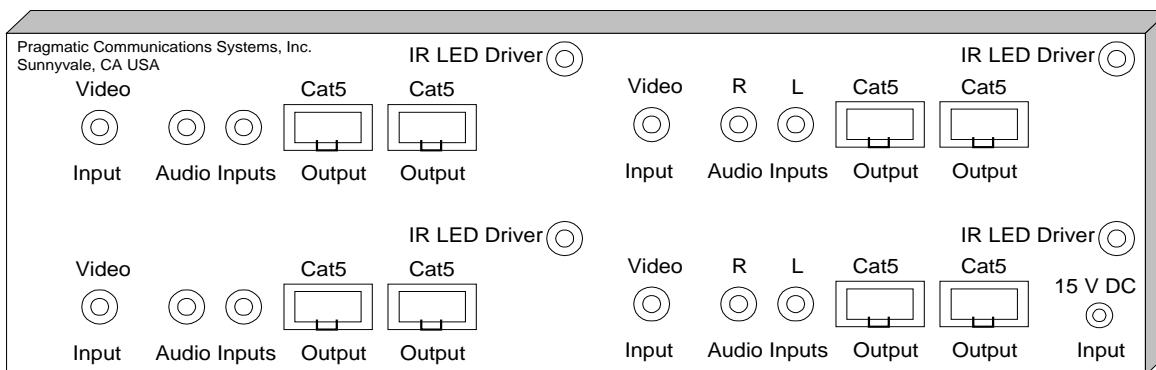
CATS™-2TAVICQ Quad Stereo Audio & Video Transmitter

Description: CATS™-2TAVICQ is a quad stereo audio and video source transmitter version of the CATS™-2TAVIC. It is specifically designed to integrate with the multi-room, multi-source, multi-zone router/switcher.

Front Panel View:



Rear Panel View:



Specifications:

- Audio frequency response 10Hz - 24KHz $< \pm 0.5$ dB error
- Audio dynamic range >110 dB
- Audio Signal-to-Noise ratio >110 dB
- Audio THD <0.05 %
- Stereo channel separation >75 dB
- Audio Input impedance $100\text{K}\Omega$
- Video frequency response 10Hz-6MHz with 2 degree differential phase error and 2% differential gain error
- Video Signal-to-Noise > 65 dB
- Video input $1\text{V}_{\text{P-P}}$
- Video input impedance 75Ω
- IR carrier 9KHz-150KHz
- Power supply 15VDC @ 1.2A
- Dimensions 19" X 3.75" X 10"

US and International patents pending

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Pragmatic Communications Systems, Inc.

CATS™-2TAVISC Stereo A/V Transmitter with Source Selector

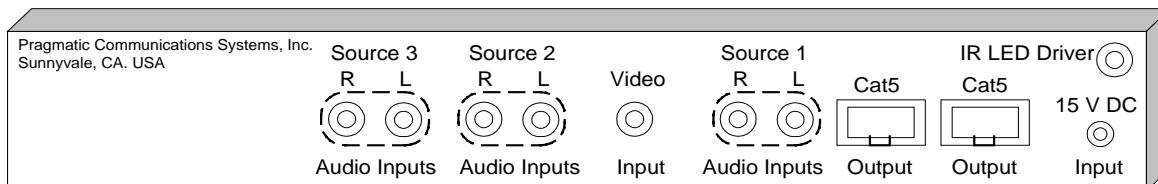
Description: CATS™-2TAVISC is a stereo audio and video source transmitter with 3 stereo channel input source selector, for distribution of line level stereo audio signals and a video signal from a variety of high quality sources such as an A/V receiver, VCR, Laser Disc Player, DVD, or a DSS receiver. It encodes and processes the line level audio and video signals using the proprietary and patent pending BDSP™ technology and transmits it on a category 5, category 3, or a standard telephone grade wire. On the same pair of wires, it also receives IR remote control signals from the distant CATS™-2RAVIPC receivers and rebroadcasts via the IR emitter driver.

- Features:**
- Flat audio and video frequency response
 - Operates on simple telephone grade wire
 - Stereo audio and video signal distribution
 - Stereo line level inputs
 - Full 5 year warranty
 - Maximum number of receivers driven > 16
 - IR remote control transponder
 - 3 stereo audio input source selection

Front Panel View:



Rear Panel View:



- Specifications:**
- Audio frequency response 10Hz - 24KHz $< \pm 0.5$ dB error
 - Audio dynamic range > 110 dB
 - Audio Signal-to-Noise ratio > 110 dB
 - Audio THD $< 0.05\%$
 - Stereo channel separation > 75 dB
 - Audio Input impedance $100\text{K}\Omega$
 - Video frequency response 10Hz-6MHz with 2 degree differential phase error and 2% differential gain error
 - Video Signal-to-Noise > 65 dB
 - Video input $1\text{V}_{\text{P-P}}$
 - Video input impedance 75Ω
 - IR carrier 9KHz-150KHz
 - Power supply 15VDC @ 450mA
 - Dimensions 19"x 1.75"x 10"

US and International patents pending

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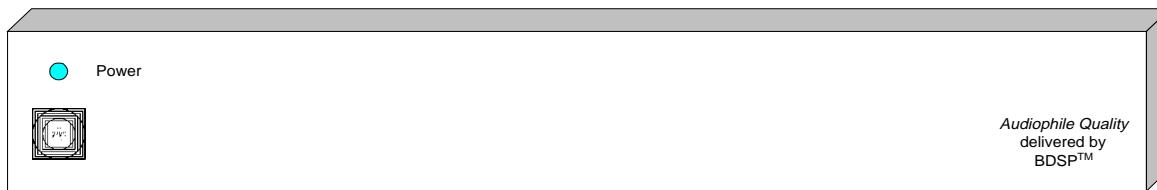
CATS™-2TAIC Stereo Audio Transmitter

Description: CATS™-2TAIC is a stereo audio source transmitter for distribution of line level stereo signals from a variety of high quality sources such as an A/V receiver, CD player, DCC, DAT, DVD, high-end tape deck, or a Surround sound processor. It encodes and processes the line level left and right channel signals using the proprietary and patent pending BDSP™ technology and transmits it on a category 5, category 3, or a standard telephone grade wire. On the same pair of wires, it also receives IR universal remote control signals from the distant CATS™-2R receivers and then rebroadcasts via the IR LED driver on the unit.

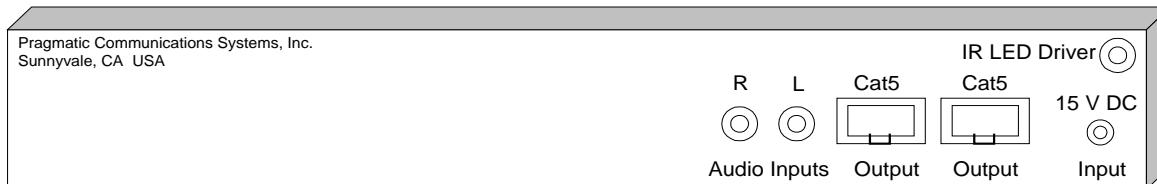
Features:

- Flat audio frequency response
- Operates also on simple telephone grade wire
- Very easy to install and interface
- Stereo line level inputs
- Full 5 year warranty
- Maximum number of receivers driven > 16
- Maximum wire length 5,000 feet

Front Panel View:



Rear Panel View:



Specifications:

- Frequency response from 10Hz-24KHz with $<\pm 0.5$ dB error
- Dynamic range >110 dB
- Signal-to-Noise ratio >110 dB
- THD <0.05 %
- Channel separation >75 dB
- Input impedance 100KΩ
- IR bandwidth 9KHz–120KHz
- Power supply 15VDC@ 50mA
- Dimensions 19" X 1.75" X 10"

US and International patents pending

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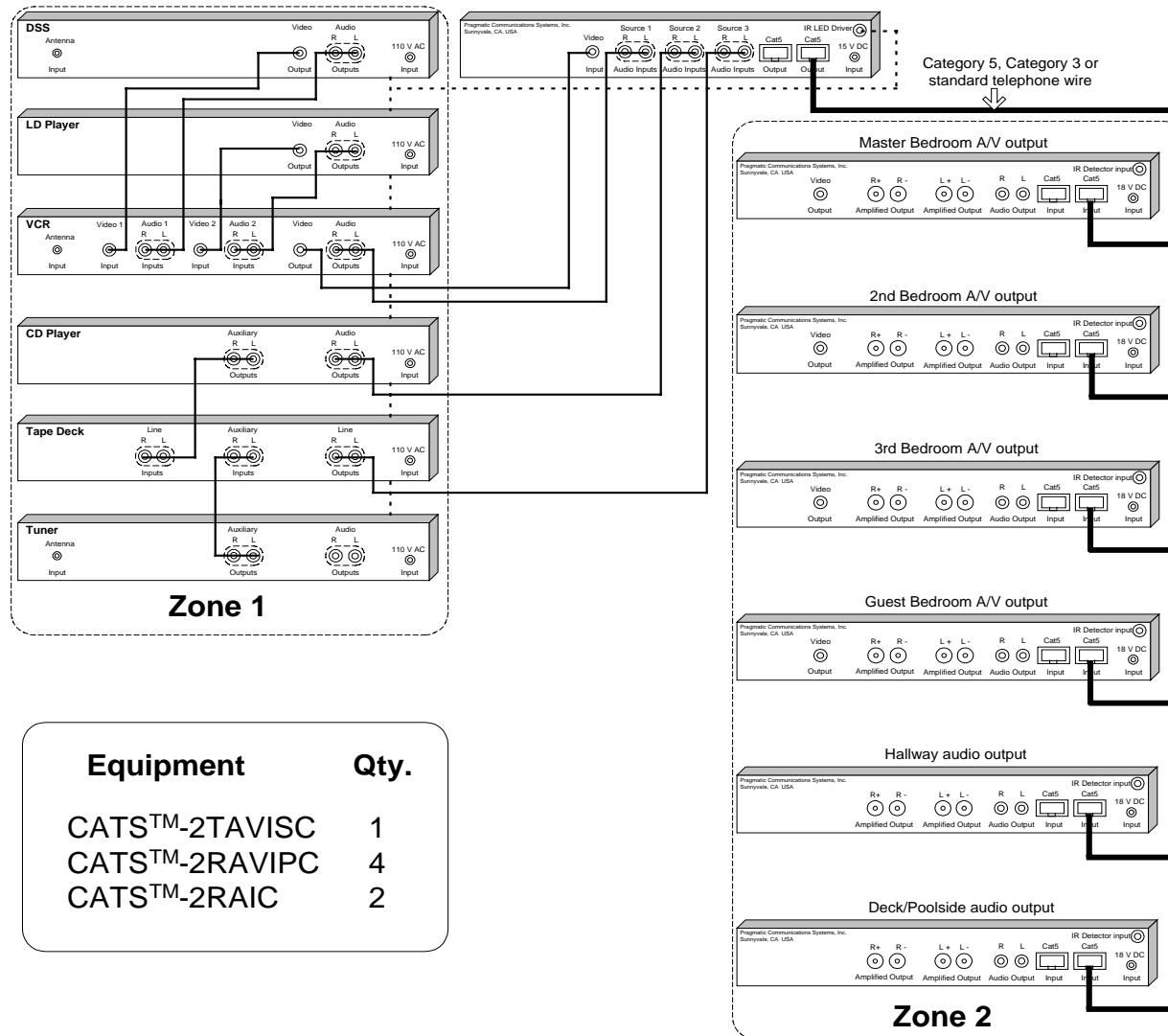
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Pragmatic Communications Systems, Inc.

CATS™-2 Complete Two Zone Audio / Video signal distribution system



This diagram shows a complete 2 zone audio/video signal distribution system. The main zone is the entertainment room / family room and second zone is the rest of the house. This diagram shows only 6 receivers but up to 16 receivers could be hooked up to the single transmitter. IR remote control signals from each room will be sent over the same category 5, category 3 or standard telephone wire back to the main transmitter for control of source equipment.

US and International patents pending

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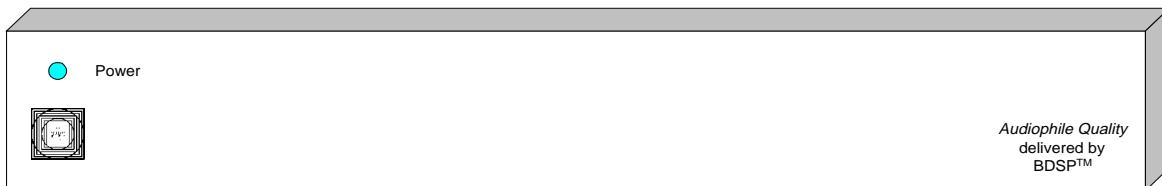
CATS™-2RAVIPC Stereo A/V Receiver with power amplifier

Description: CATS™-2RAVIPC is a stereo audio and video receiver for the CATS™ signal distribution system that decodes and processes the signals from the category 5, category 3, or the telephone grade wire using the proprietary and patent pending BDSP™ technology and converts to line level stereo audio and video signals. It also has an integrated two channel 25W audio power amplifier to drive the speakers directly. The unit provides interface for IR remote control of volume, bass, treble and mute. It also receives universal IR remote control signals and sends them on the wires to the distant CATS™-2T transmitter, which then rebroadcasts it via the IR LED driver on the unit.

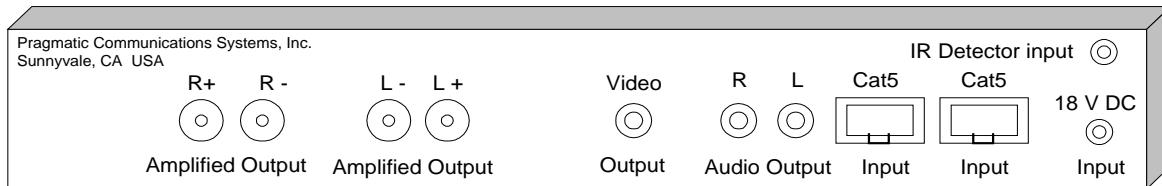
Features:

- Flat audio and video frequency response
- Stereo audio and video line level outputs and amplified audio outputs
- IR remote control transponder and control for volume, bass, treble and mute
- Automatic amplifier overload protection
- Full 5 year warranty

Front Panel View:



Rear Panel View:



Specifications:

- Audio frequency response from 10Hz - 24KHz with $< \pm 0.5$ dB error
- Audio dynamic range > 110 dB
- Audio S/N > 110 dB
- Audio THD < 0.05 %
- Channel separation > 75 dB
- Video frequency response 10Hz - 6MHz
- Video S/N > 65 dB
- Video output $1V_{p-p}$
- IR carrier 9 KHz-15KHz
- Power output 25 Watts per channel into 8 Ohms
- Power supply 18 VDC @ 3.6 A
- Dimensions 19" X 1.75" X 10"

US and International patents pending

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Pragmatic Communications Systems, Inc.

CATS™-2RAVIC Stereo Audio and Video Receiver

Description: CATS™-2RAVIC is a stereo audio and video receiver for the CATS™ signal distribution system that decodes and processes the signals from the category 5, category 3, or the telephone grade wire using the proprietary and patent pending BDSP™ technology and converts to line level stereo audio and video signals. It also receives universal IR remote control signals and sends them on the wires to the distant CATS™-2T transmitter, which then rebroadcasts it via the IR LED driver on the unit.

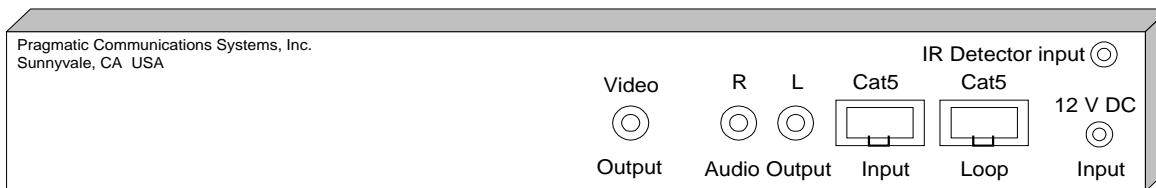
Features:

- Flat audio and video frequency response
- Stereo audio and video line level outputs
- Low power consumption
- Auxiliary IR detector input
- Interfaces to any power amplifier
- Signal loop-through connector for daisy chaining multiple receivers
- Universal IR remote control transponder
- Full 5 year warranty

Front Panel View:



Rear Panel View:



Specifications:

- Audio frequency response 10 Hz - 24 KHz with $<\pm 0.5$ dB error
- Audio dynamic range >110 dB
- Audio S/N >110 dB
- Audio THD <0.05 %
- Channel separation >75 dB
- Video frequency response 10Hz-6MHz
- Video S/N >60 dB
- Video output $1V_{p-p}$
- IR carrier 9KHz-150KHz
- Power supply 12 VDC @ 450mA
- Dimensions 19" X 1.75" X 10"

US and International patents pending

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Pragmatic Communications Systems, Inc.

CATS™-2RAIPC

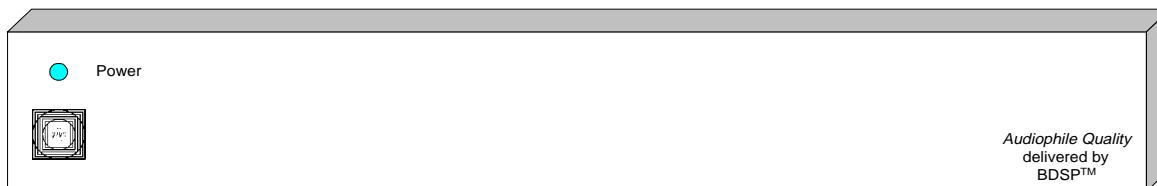
Stereo Audio Receiver with power amplifier

Description: CATS™-2RAIPC is a stereo audio receiver for the CATS™ signal distribution system that decodes and processes the signals from the category 5, category 3, or the telephone grade wire using the proprietary and patent pending BDSP™ technology and converts to line level stereo audio signals. It has an integrated two channel 25W audio power amplifier to drive the speakers directly. The unit provides interface for IR remote control of volume, bass, treble and mute. It also sends IR commands on the same wires to the distant CATS™-2T transmitter which then rebroadcasts it to the source equipment via the IR LED driver on the unit.

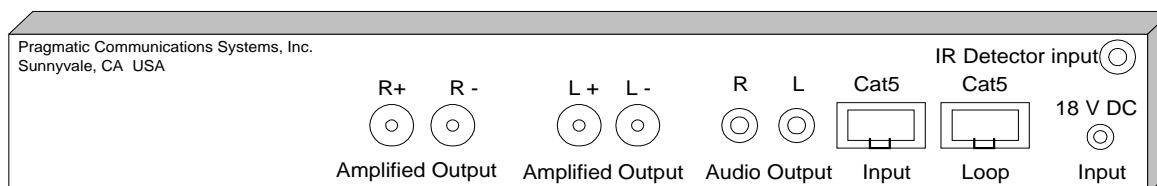
Features:

- Flat audio frequency response
- Operates on simple telephone grade wire
- Very easy to install and interface
- Stereo line level outputs and amplified outputs
- Maximum wire length 5,000 feet
- IR remote control transponder and auxiliary IR detector input
- IR remote control for volume, bass, treble and mute
- Automatic amplifier overload protection
- Signal loop-through connector for daisy chaining multiple receivers
- Full 5 year warranty

Front Panel View:



Rear Panel View:



Specifications:

- Frequency response 10Hz - 24KHz with $< \pm 0.5$ dB error
- Dynamic range > 110 dB
- Signal-to-Noise ratio > 110 dB
- THD < 0.05 %
- Channel separation > 75 dB
- IR carrier 9KHz - 150KHz
- Power output 25 Watts per channel into 8 Ohms
- Power supply 18 VDC @ 3.6A
- Dimensions 19" X 1.75" X 10"

US and International patents pending

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Pragmatic Communications Systems, Inc.

CATS™-2RAIC Stereo Audio Receiver

Description: CATS™-2RAIC is a stereo audio receiver for the CATS™ signal distribution system that decodes and processes the signals from the category 5, category 3, or the telephone grade wire using the proprietary and patent pending BDSP™ technology and converts to line level stereo audio signals. It also receives local IR remote control signals and sends them on the same wire to the distant CATS™-2T transmitter, which then rebroadcasts it via the IR LED driver on the unit.

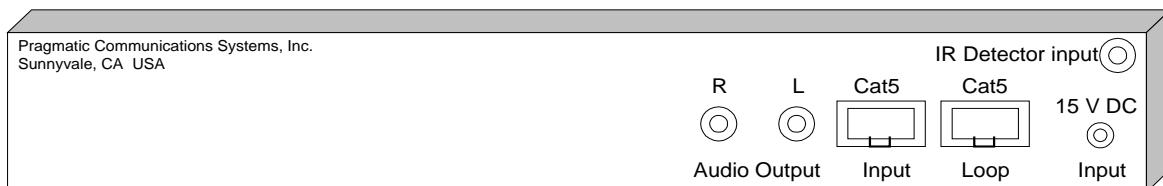
Features:

- Flat audio frequency response
- Operates on simple telephone grade wire
- Very easy to install and interface
- Stereo line level outputs
- Low power consumption
- Maximum wire length 5,000 feet
- IR universal remote control transponder
- Local audio mute
- Auxiliary IR detector input
- Signal loop-through connector for daisy chaining multiple receivers
- Interfaces to any power amplifier
- Full 5 year warranty.

Front Panel View:



Rear Panel View:



Specifications:

- Frequency response from 10Hz – 24Khz with $< \pm 0.5$ dB error
- Dynamic range >110 dB
- Signal-to-Noise ratio > 110 dB
- THD < 0.05 %
- Channel separation >75 dB
- IR carrier 9Khz - 150Khz
- Power supply 15VDC @ 150mA
- Dimensions 19" X 1.75" X 10"

US and International patents pending

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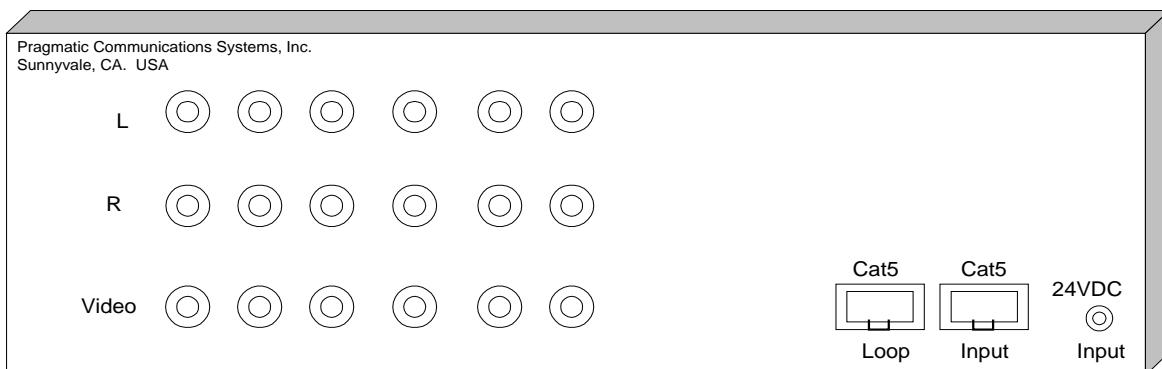
CATS™-2RAVCD Stereo Audio/Video Receiver for distribution

Description: CATS™-2RAVCD is an audio and video channel receiver for the CATS™ signal distribution system that decodes and processes the signals from the category 5 wire using the proprietary and patent pending BDSP™ technology and converts to line level audio and video signals. There are six audio and video buffered outputs for distribution of signals to six audio/video monitor units. It is designed and intended for applications in show rooms where multiple video monitors need to be driven from a single source with DVD quality audio and video signals. As many as 12 of these receiver units can be daisy chained together to drive 72 audio/video monitors in a store display application.

Front Panel View:



Rear Panel View:



Specifications:

- Audio frequency response 10 Hz - 24 KHz $< \pm 0.5$ dB error
- Audio dynamic range > 110 dB
- Audio S/N > 110 dB
- Audio THD < 0.05 %
- Video frequency response 10 Hz - 6 MHz
- Video signal-to-noise ratio > 65 dB
- Video differential gain error $< 2\%$
- Video differential phase error < 2 degrees
- Dimensions 17" x 3.75" x 13"

US and International patents pending

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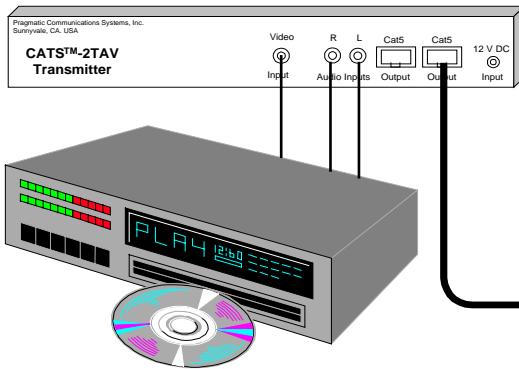
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Amazing CATS™ Technology from Pragmatic Communications Systems, Inc.

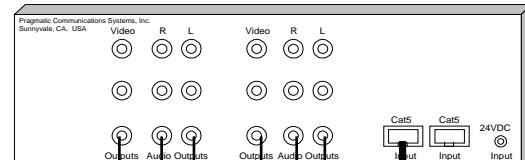
Send DVD quality video and stereo audio signals on unshielded twisted pair wire!



Category 5, Category 3 or standard telephone wire*

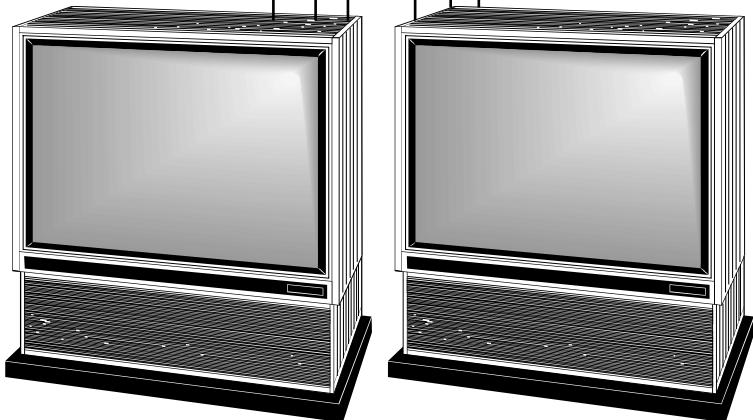
Category 5

1000 feet



Video Specifications :

Video Bandwidth	> 6 MHz
TV Line resolution	> 500
Signal to Noise ratio	> 65 dB
Differential gain error	< 2%
Differential phase error	< 2 deg.



Audio Specifications :

Frequency response	
10Hz to 24KHz	+/- 0.5dB
Dynamic Range	> 110 dB
Signal to Noise ratio	> 110 dB
Distortion (THD)	< 0.05 %
Stereo Channel Separation	> 75 dB

* Distance reduced for category 3 and telephone wire

Applications:

DVD quality audio and video signal distribution to six audio/video monitors in retail show rooms, conference halls, convention centers, commercial and industrial installations.

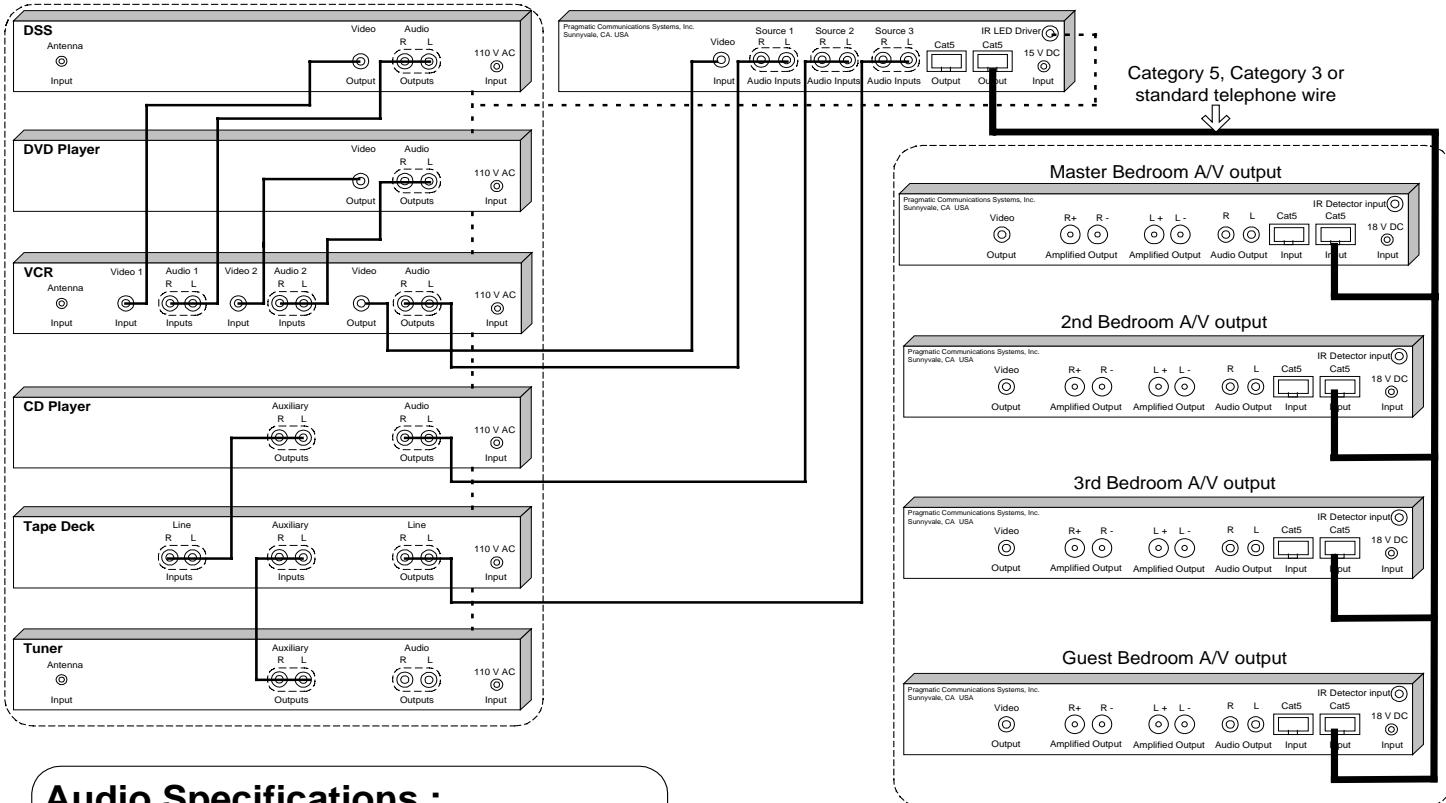
Advantages:

- Multi-point distribution of video and audio signals to any location within 2000 ft. on category 5 wire. Multiple receivers (up to 12) can be daisy-chained without loss of performance.
- Completely eliminate problems such as *ground loops, noise pick-up, hum, frequency roll-off, impedance mismatch*, and installation of *messy and expensive* heavy gauge cables.
- Quick and easy installation with flexible category 5 wire and industry standard RJ-45 connectors.

* CATS is a trademark of Pragmatic Communications Systems, Inc. US and International patents pending.

Amazing CATS™* Technology from Pragmatic Communications Systems, Inc.

Simplifies high performance Multi-room Video and Audio signals over Category 5 wire!



Audio Specifications :

Frequency response

10Hz to 24KHz

+/- 0.5dB

Dynamic Range

> 110 dB

Signal to noise ratio

> 110 dB

Distortion (THD)

< 0.05 %

Stereo Channel Separation > 75 dB

Video Specifications :

Video Bandwidth

> 6 MHz

TV Line resolution

> 500

Signal to noise ratio

> 60 dB

Differential gain error

< 2%

Differential phase error

< 2 deg.

Applications:

Multi-room audio and video signal distribution to any location within 2000 ft. on category 5 wire.

Advantages:

- Completely eliminate problems such as **ground loops, noise pick-up, hum, frequency roll-off, impedance mismatch**, and installation of **messy and expensive** heavy gauge cables.
- Quick and easy installation with flexible category 5 wire and industry standard RJ-45 connectors.
- Eliminate need for expensive **channel modulators, multi-channel power amplifiers**, L-pads for volume controls.
- Simplify your implementation, finish jobs quickly, cut down on labor, and keep more profits for yourself.

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