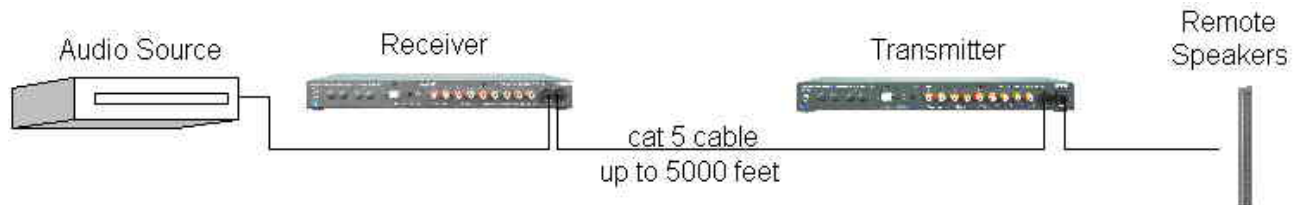


CATS™ Audio Distribution System



Total Harmonic Distortion (THD): of 0.05% typically

Stereo Channel Separation: 70 dB

Compatible: 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

Audio Dynamic Range: 110 dB

Frequency Response: 10Hz to 24 kHz

Signal-to-Noise (S/N) ratio: excess of 100dB

Optional Features: rack-mount unit for professional installation, stand-alone unit for shelf-mount or “set-top” installation, Marantz receiver with integrated CATS™ audio / video distribution system, power amplifier with integrated CATS™ audio / video receiver

Image: simple application of CATS™ Audio System

The CATS™ Audio system overcomes the problems inherent with today’s heavy gauge cables. Wiring has always been the most challenging job in any audio/video home theater system. Heavy gauge cable hookups and installation is the most time consuming, laborious, and expensive part of the system. Degradation of the audio performance due to noise pick-up, ground loops, signal loss, group delay distortion, and other maladies has been an issue with long distance cables from the multi-channel power amplifiers to the speakers. Others have attempted to alleviate these problems by using inefficient, expensive cables costing \$30 - \$60 / ft. or more. Even then, the noise, hum, and signal attenuation issues have not been fully addressed.

The Complete Audiophile Transmission System, or CATS™, is a high performance system for the distribution of audiophile quality line-level audio signals on cost effective category 3 or category 5 wires. The system is based on Pragmatic's proprietary Bandwidth Domain Signal Processing [BDSP™] technology. The BDSP™ technology enables transmission of the highest audiophile quality line-level audio signals up to 5000 ft. on a standard category 5 or un-shielded twisted pair wires without any loss in the performance, dynamic range, or quality.

The state-of-the-art BDSP™ technology completely eliminates any ground loops, noise pick-up, or hum at the end of the transmission distance. It also provides for superb sound reproduction, a very high resolution to fine details in the music, and a warm tonality to the music. The wide dynamic range of the BDSP™ technology delivers excellent mid-range purity, and 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.

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The CATS™ system transmitter accepts line level audio signals from any high quality signal 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 the signal from the category 5 wires and superbly reproduces the original line level audio signals utilizing the BDSP™ technology. The line level signals can be fed into a power amplifier at the receiving end.

Some of the salient features of the system include an audio frequency response from 10 Hz to 24 KHz with less than 0.5 dB error across the band, a system signal to noise (S/N) ratio in excess of 100 dB, a full 110 dB audio dynamic range, stereo channel separation better than 70 dB, and a total harmonic distortion (THD) of less than 0.05% typically.

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. Up to 16 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 16 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, pool side, and many others. 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, and exhibit halls.

Applications:

Features & Benefits:

Home Theater/Home Entertainment System extension	Audio frequency response from 10Hz to 24 kHz with less than 0.5 dB error across the band	Elimination of problems associated with long audio cables, such as noise pick-up, ground loops, hum, group delay distortion, etc. through BDSP™ technology
Remote speakers for: Bedroom Den And other rooms	A signal-to-noise (S/N) ratio in excess of 100dB	
Send DVD, laser disc, VCR, DSS, or CD player output to remote rooms	A full 110 dB audio dynamic range	Easily configurable
Broadcast studio audio distribution	Stereo channel separation 70 dB	Low installation costs
	A total harmonic distortion (THD) of 0.05% typically	Options include:
	Optional video signal distribution available	Rack-mount unit for professional installation
	Multi-point distribution/ broadcasting of line level audio signals to any location within 5000' on category 5 wires	Stand-alone unit for shelf-mount or "set-top" installation
		Marantz receiver with integrated CATS™ audio/video distribution system
		Power amplifier with integrated CATS™ audio/video receiver

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Architect Specifications:

The unit shall be a high performance system for the distribution of audiophile quality line-level audio signals on economical category 3 or category 5 wires within 5000 ft. It shall have an audio frequency response from 10Hz to 24 kHz with less than 0.5 dB error across the band and a signal-to-noise (S/N) ratio in excess of 100dB. It shall have a full 110 dB audio dynamic range and a stereo channel separation 70 dB. It shall have a total harmonic distortion (THD) of 0.05% typically. It shall have multiple options including available video signal distribution, rack-mount unit for professional installation, stand-alone unit for shelf-mount or "set-top" installation, Marantz receiver with integrated CATS™ audio/video distribution system, and power amplifier with integrated CATS™ audio/video receiver. It shall easily configurable and have low installation costs.

The unit shall be a Pragmatic CATS™ Audio Distribution System.

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