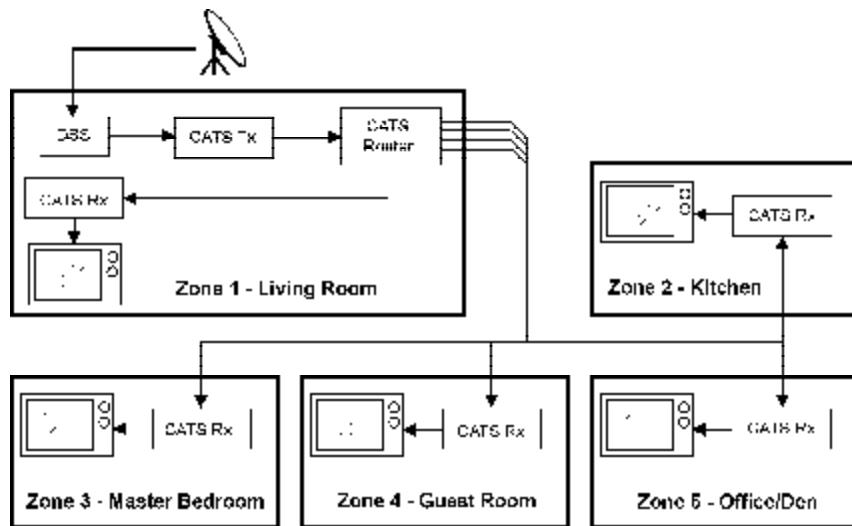




## Applying CATS™ to DSS Distribution

One of the major problems facing customers and installers is how to distribute the audio/video outputs from a DSS receiver to every room in the house. The CATS™ approach from Pragmatic clearly provides a superior solution over outmoded traditional methods.



Here is a typical **residential application** that can benefit from the CATS™ approach. The DSS receiver is located in the living room along with the main home entertainment system and other A/V sources. It is desired to send the A/V outputs from the DSS to at least 4 other rooms as shown, while maintaining the high signal quality from the DSS, and allowing for independent DSS channel control from each room.

The problem with older approaches, such as using channel modulators, is that they do not maintain the high signal quality that is available from DSS receivers and DVD players. Additionally, they do not include any method to control the source equipment, such as channel change commands or any other IR commands.

### The CATS™ Solution

The CATS™ system consists of a transmitter unit for each source, an 8 by 8 full-matrix router for complete multi-source and multi-zone distribution, and a receiver unit at each destination. The CATS™ system provides a superior solution for distributing the video from a DSS receiver throughout the house, and provides for many other features and advantages as well.

### Pragmatic Equipment

- One CATS™ Transmitter in the living room connected to the DSS receiver.
- One CATS™ Router servicing the 5 receiver zones.
- Five CATS™ Receivers; one in each room receiving A/V from the Router.

## Features and Advantages

- The CATS™ system delivers **superior audio and video quality**. This is achieved through the use of advanced and proprietary signal processing techniques, which results in a high-performance system with capabilities unmatched by traditional approaches.
- The CATS™ system uses **low-cost twisted-pair cables**, which lowers the installation time and costs.
- The CATS™ system provides a **complete system** for A/V distribution, switching, and control. The CATS™ system can also be controlled by PC or third-party control systems such as Crestron or AMX.
- The encoding mechanism has been specifically chosen so as to **avoid common problems** of noise, hum, ground loops, and frequency attenuation that often plague traditional systems.
- The combination of the switching and distribution system means that all of the remote zones have **full access to all of the source equipment** connected to the system. No more “single-point” outputs, such as a DSS receiver connected to only a single TV set. Now all rooms can have complete selection from all of the sources, including high-quality sources such as DVD players and DSS receivers.
- The **integrated IR control system** allows for all aspects of the system to be controlled: The receiver (for volume up, down, and mute), the router (for source selection) and the source equipment.
- The system is **easily expanded**: The CATS™ system allows for additional source equipment to be easily added to an existing entertainment system. Additional A/V signals are made available to all remote locations without adding more cables, since the switching and distribution system allows for each of the available A/V signals to be selected and routed to the remote location using the same twisted-pair cable.

## Conclusion

The CATS™ system represents a quantum leap over traditional approaches to Home Theater or whole-house Audio/Video distribution. The superior signal quality level, the versatility of the system, the fully integrated IR control system, and the complete avoidance of the problems plaguing traditional systems, clearly makes the CATS™ system the best overall approach to audio/video distribution.

The CATS™ system has been successfully installed in a variety of applications, and they have all benefited from the superior performance, ease of installation, and the unique advantages of the CATS™ system. Shouldn't you be using CATS™ today?

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