



MUSICA™

The design goals for *NetStreams*® *Musica* system were simple. Create a system that makes it easy to listen to music anywhere in a building, with exceptional musical fidelity. The systems should be:

- Easily operated by anyone with minimal or no instruction
- Be aesthetically pleasing, both visually and aurally
- Highly reliable, easily installed and upgraded
- Very competitively priced

A standard *Musica* system is a fully self contained, 4 source, 6 room, audio distribution system. *NetStreams* combined an LCD based keypad controller with compact but powerful digital amplifiers designed to wall-mount in a standard two gang footprint. By locating the amplifiers in the room, close to the speakers, *NetStreams* greatly reduced the power losses and distortion experienced by traditional audio distribution methods. The LCD display on the *Musica* keypad gives you instant visual feedback every time you press a button. Even when controlling devices in another room, the display provides a clear indication of the action performed. For example, most of the sources to be controlled don't feedback information. If you can't see the front panel display, you don't know if the CD player received the "Play" command from the remote control. With *Musica*, if you press the play button on the keypad, you will see a "Play" feedback icon right on the LCD.

Musica gives you complete control of all aspects of the sound. You can listen to different sources at the same time in each individual room. Adjust bass, treble, balance and volume right from the keypad, and control all the rooms from any room in the house. Mounting the amplifiers in the room is not new, and it makes lots of sense electrically. But most systems attempt to power the amplifiers via CAT5 cabling. However *NetStreams* found the tiny strands of wire in CAT5 cabling are incapable of delivering enough current to produce clean rich sounding music. By utilizing heavy gauge "speaker wire" to supply the current (power) to the amplifier, *NetStreams* is able to provide much more power. *NetStreams* utilizes siamese CAT5e with 4-conductor speaker wire, the industry standard for distributed audio wiring. This cable offers significant labor savings and insures the integrity of the Cat5e cable when pulling long runs.

Combining the controls and the amplifier in the room also makes it easy to add local sources. Suppose you want to connect your computer to the room speakers, or pipe the sound from your bedroom TV into the speakers in your room. The *Audio Port* modules provide inputs for local sources as well as line level outputs for external amplifiers or a subwoofer.

- **The *Musica* keypad features:**
 - Instant visual feedback at the touch of every button – no other products in this class offer this important feature.
 - Choices of power, 25 or 50 watts built into the keypad
 - An FM tuner integrated into each keypad (optional).
 - Adjust bass, treble and balance in each room individually, get the sound right in every room.
 - Easily check the status of other rooms in the system.
 - Shut the entire system down from any location with the “All-Off” command.
 - A powerful digital amplifier integrated within the keypad for truer fidelity and better reliability.
 - Only buy the number of amplifiers you need.
 - If desired, intelligent muting can be activated when phones ring or a doorbell chimes so you don’t miss a call or a visitor.
 - You choose or change the backlight color (green or amber) for each keypad and adjust the brightness to suit your personal taste.
 - *Musica* Keypads and accessories are available in white, almond, ivory and black to suit any décor.

- The *Musica* **Audio Distribution Center** (ADC) is the heart and brains of the system. It powers all the keypads, stores and directs all the IR commands, is the input switcher for all the global audio sources and contains interfaces for other home systems.
 - Supplies 28 volts for the amplifier in each keypad, ensuring plenty of power for the in-room amplifiers.
 - By storing the IR commands locally, the ADC automatically “programs” all the attached keypads with its attached IR codes.
 - Delivers the full stack of RS-232 commands for two way interfacing with other control systems.
 - Has no internal amplifiers to generate heat in the equipment rack.
 - Easily connect multiple ADC’s together to expand the system for 12 or 18 rooms (or anything in between).

- The *Musica* system’s **Audio Port** modules make it easy to add a local, in-room source, like a TV or CD player for use with the *Musica* system in that room. The *Audio Port*’s versatility also allows to you play the main sources on separate system (like a home theater system), add a subwoofer to any room for added bass, or allow a keypad to control an external power amplifier for even more power.
 - Makes it easy to add a source in the any room like a CD player, MP-3 player or computer.
 - Lets you play the four main sources on a “favorite audio system” you may have in a room.
 - Easily add a powered subwoofer to any room.
 - Control a high powered amplifier driving multiple speakers for extremely large spaces.

- *Musica's* two-way **RS-232 Interface** allows easy integration of your *Musica* system with lighting control systems, home automation systems and sophisticated media storage and playback systems. *NetStreams* has partnered with some of the finest manufacturers in the industry to offer you complete and trouble free integration beyond any other product in its class.
 - Control advanced media storage and playback devices such as AudioReQuest®.
 - Integrate seamlessly with home automation systems such as Crestron® and AMX®.
 - Expand control capabilities with advanced remote controls such as the RTI® T2 remote system.
 - Provide two way lighting control interfaces with systems such as Vantage®.

- Siamese cable combines high-speed 500MHz Cat5e cable with high performance speaker wire, the two cable systems joined together side by side in a "siamese" construction with a thin plastic webbing. The result is a cable that dramatically simplifies installation and delivers superior signal quality. What's more, siamese cable is the wiring infrastructure of the future and will support next generation IP-based systems. Siamese cable is easy to install, creates better sounding systems and prepares you for the digital future.
 - CAT5e cable swept tested to 350 MHz.
 - 4 conductors of high strand count 14 AWG or 16 AWG oxygen-free speaker cable.
 - Siamese cabling is perfect for every keypad, volume control, and speaker.
 - Flexible jacket and "Siamese" construction protects the more delicate CAT5e strands during installation.

With its elegant simplicity in operation, beautiful industrial design, and industry-leading performance, *Musica* has achieved recognition as the new benchmark in distributed audio. Installers love its ease of install and reliability, as well as the modular approach with in-room amplifiers. Interior designers delight in the clean lines, changeable colors and trim out options. Homeowners are pleasantly surprised by both the quality and affordability. And music lovers, at last, have all their music, easily accessible from any room they chose, with sound quality better than most home systems.

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