



*NetStreams*TM **Quartet**TM

User's Guide

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Contents

Chapter 1: Overview	1-1
Introduction	1-1
Package Contents	1-1
Required Tools	1-2
NetStreams Documentation	1-2
Contacting NetStreams	1-2
Safety Requirements	1-2
Hardware Labels	1-3
Safety Instructions	1-3
Qualified Service Personnel	1-4
Chapter 2: Key Features, Components, and Specifications	2-1
Key Features of the Quartet System	2-1
4-Sources + FM Tuner/4 Rooms	2-1
Intercom and Room Monitoring	2-1
Sleep Timer and Rest and Rise®	2-1
Super Zone	2-1
Adding Sources with an Audio Port	2-2
5-Band Graphic Equalizer	2-2
3D Sound Stage Mode	2-2
Simplified Programming - No Laptops Required	2-2
Multi-Room Processor (MRP) Components and Specifications	2-2
MRP Components	2-2
MRP Specifications	2-4
Remote Control	2-4
Specifications for the Remote Control	2-5
In-Wall Keypad Layout and Specifications	2-6
In-Wall Keypad Front Layout	2-6
In-Wall Keypad Rear Layout	2-7
Quartet Keypad Specifications	2-7
Optional Add-On Audio Port (AP500)	2-8
Chapter 3: Getting Started	3-1
Pre-Wiring for Quartet	3-1
Pre-Wiring for Audio Ports	3-1
Terminating a CAT5 Cable	3-2
Installation	3-2

Connecting an Audio Port (sold separately)	3-3
Powering the System ON	3-3
Chapter 4: Using the Setup Menus	4-1
Using the Remote to Navigate the Menu	4-1
Using the ROOM Menu	4-2
Naming a Room	4-4
Adjusting Sound Settings in the Room	4-5
Using the 5-Band Equalizer	4-5
Adjusting the Left/Right Balance	4-6
3D Sound Mode	4-7
Turning Loudness ON or OFF	4-8
Adjusting the Default Volume	4-9
VOLUME	4-9
Speaker Impedance Adjustments	4-10
Audio Port Sensitivity Adjustments (AUX GAIN)	4-11
Setting Up a Super Zone	4-12
Intercom Room/Monitoring Settings	4-13
Do Not Disturb Setting (DND)	4-13
Privacy Settings	4-14
Monitoring a Room	4-15
Setting the Sleep Timer	4-16
Setting the Rest and Rise Mode (RNR)	4-16
Quartet Keypad Settings	4-18
Adjusting the Keypad Pilot Light Setting	4-18
Adjusting the Keypad Back Light Setting	4-18
Locking a Quartet Keypad	4-19
Adjusting the Paging Chime Bell Setting	4-20
Changing the AUX MODE	4-21
Using the SOURCE Menus	4-22
Naming a Source	4-23
Source Input Adjustments (IN GAIN)	4-24
FM Tuner Settings	4-24
Adjusting the FM Tuner Sensitivity	4-24
Adjusting the FM Tuner Spacing	4-25
Adjusting the FM Tuner Pre-Emphasis	4-26
Setting FM Tuner Presets	4-27
Auto Pre-Set Tuning	4-27
Setting System Settings	4-28
Adjusting the LCD Backlight Setting	4-29
Setting a Password for Quartet	4-30
Locking and Unlocking the MRP Menu	4-31
Saving the Quartet's Current Settings	4-31
Chapter 5: Learning IR	5-1
Adjusting the IR Type	5-1

Learning IR for Control of Sources	5-2
Creating Macros	5-3
2'S Repeat	5-4
Macro Time	5-4
Key Macro	5-5
Chapter 6: Using the Quartet Keypads to Listen to Audio	6-1
In-Wall Keypad	6-1
Turn Keypad ON/OFF	6-1
Turn Volume Up/Down	6-1
Mute Audio	6-2
Select a Global Source	6-2
Select a Source for All Rooms	6-2
Control a Source	6-2
Select a Local Source (Audio Port)	6-2
Select a Source Local Source in Another Room	6-2
Select the FM Tuner	6-2
Change Stations	6-2
Select Tuner Presets	6-2
Special Functions	6-3
Sleep	6-3
RNR	6-3
Using the Remote to Navigate the Menu	6-3
Chapter 7: Whole House and Room-to-Room Paging	7-1
In-Wall Keypad	7-1
Paging all Rooms (Whole House Paging)	7-1
Answering a Page	7-1
Hanging Up on a Page	7-2
Paging One Room	7-2
Monitoring a Room	7-2
Chapter 8: Troubleshooting	8-1
Appendix A: Quartet Keypad Quick Reference	A-1

Overview

Introduction

If the last time you experienced really great audio quality was at a live venue, we have good news. Now, with *NetStreams* Quartet Q4000, you can have that same memorable experience and enjoyment - everyday - in every room of your home. Imagine being able to listen to your favorite music in any room without having to deal with the complexity and clutter of equipment in each room. *NetStreams* Quartet Q4000 makes it all possible by delivering incredible sound quality and so much more in one affordable package.

This easy to use Multi-Room Audio system is packed with high-end features, including a built-in intercom system. Every member of your family can enjoy their favorite music - wherever and whenever they want, at the touch of a button.

The Q4000 enables homeowners to enjoy exceptional audio quality from as many as nine (9) different global audio sources, such as an FM tuner, DVD player, satellite radio, etc., in up to four (4) different zones or areas of your home at the same time.

Package Contents

The Quartet Q4000 is shipped with the following equipment and cables. Verify that that the contents of your shipment include:

- Multi-Room Processor (MRP) - labeled Quartet
- Four keypads (not sold separately)
- One power cord
- Five IR emitters
- One remote control
- One FM antenna.

Required Tools

Tools required for installation of a Quartet Q4000 include:

- small flathead screwdriver
- CAT5 tester
- volt meter
- RJ45 crimping tool
- RJ45 connectors
- wire cutters
- wire strippers.

NetStreams Documentation

To view or print *NetStreams* documentation:

1. From a web browser, go to www.netstreams.com.
2. Click the Dealer Login button.
3. Log in with your dealer user name and password.
4. Select **Dealer Documents**.

Contacting NetStreams

If you have questions about the Quartet that are not covered in this manual:

- visit the dealer section of the *NetStreams* website (www.netstreams.com) for application notes
- email support@netstreams.com
- call 1-866-353-3496 or 1-512-977-9393.

Safety Requirements

Safe installation and use of *NetStreams* products requires a thorough knowledge of the products and proper installation practices. Therefore, please read this manual before beginning and heed all warnings. Follow all instructions provided and retain them. Adhere to all warnings on the product and in the instructions.

Hardware Labels

CAUTION!

To reduce the risk of fire or electrical shock, do not expose this appliance to rain or moisture. To reduce the risk of electric shock, do not remove cover. No user-serviceable parts inside. Refer servicing to qualified personnel.

The lightning flash with arrowhead symbol, within an equilateral



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Safety Instructions

CAUTION!

To reduce the risk of possible fire or electrical shock, make all connections and finish all terminations before turning on power to the unit.

- Do not block any ventilation openings. For example; do not place on a rug, bed, sofa, or similar surface which impedes airflow across the chassis. Airflow through the ventilation openings should be unobstructed. Provide ventilation on all sides of the appliance, especially if placed in a rack. If ventilation is blocked, the appliance may overheat and malfunction.
- Do not install near heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat. Do not expose the appliance to direct sun light as the appliance's internal components temperature may rise and shorten the life of the components. Avoid damp and dusty places.

WARNING

Before turning the power on for the first time, read this section carefully. All models are designed for use only with the power supply voltage of the region where they are sold.

- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Only connect the appliance to a power supply described in the operating instructions or as marked on the appliance.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is

NOTE

NetStreams provides a VSPW 12v DC power supply. Review whether this is the appropriate voltage and power supply for your country and call *NetStreams* Technical Services at (866) 353-3496 if you have any questions.

provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

- A label located at the rear panel power connection indicates the DC power input for the unit. The label will read 100-240V DC 12V/1.5A Adapter.
- Route power cord and other cables so that they are not likely to be walked on, tripped over, pinched, or stressed. Pay particular attention to condition of cords and cables at plugs, and the point where they exit from the apparatus. To prevent risk of fire or injury, damaged cords and cables should be replaced immediately.
- Only use attachments/accessories specified by the manufacturer.
- The apparatus should be serviced by qualified service personnel when:
 - the power supply cord or the plug has been damaged
 - objects have fallen or liquid has spilled into the unit
 - the apparatus has been exposed to rain or other moisture
 - the apparatus does not appear to operate normally
 - the apparatus has been dropped, or the enclosure damaged.
- Do not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
- Clean only with a dry cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since this may damage the finish or remove the panel lettering. Never pour any liquid on or in the device.
- Do not use near water, for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, etc.
- Do not expose the appliance to dripping or splashing and do not place objects filled with liquids, such as vases, on the appliance.
- Do not touch the appliance with wet hands. Do not handle the appliance or the power cord when your hands are wet or damp. If water or any other liquid enters the appliance chassis, take the appliance to qualified service personnel for inspection.
- Only use the appliance with a cart or stand recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the appliance and cart combination to overturn.
- Only mount the appliance to a wall or ceiling as recommended by the manufacturer.

Qualified Service Personnel

Only *NetStreams* employees are qualified to inspect or repair internal damage to *NetStreams* equipment. If your *NetStreams* device is damaged, contact *NetStreams* Technical Support for a Return Merchandise Authorization.

Key Features, Components, and Specifications

Key Features of the Quartet System

The following subsections discuss the key features of the Quartet system.

4-Sources + FM Tuner/4 Rooms

Quartet is a 4-room system capable of distributing 4 global sources, a centralized FM tuner, and up to 4 remotely located sources (see *Adding Sources using an Audio Port*). A keypad is capable of selecting any of these sources allowing each room to listen to a separate source or they can all be listening to the same source. In addition to distributing sources, they can be named and the input level can be balanced.

Intercom and Room Monitoring

The Quartet keypads include a built-in microphone for Intercom “Push to Talk” communications, room-to-room paging, as well as room monitoring, a feature not commonly found with entry-level Multi-Room Audio systems. Now you can have great audio quality and the convenience of a built-in intercom without the hassle or expense of installing a separate intercom system.

Sleep Timer and Rest and Rise[®]

The Rest and Rise feature allows you to set a count down timer once it is reached to start playing that source for a specified length of time. For example, a user wants to wake up to music so they would set an eight hour countdown, then the source would play for the designated hour. With *NetStreams* Rest and Rise feature, select between 1 to 12 hours in 30-minute intervals.

Super Zone

Quartet features a super zone which allow you to link two or more rooms together to function as a single room.

Adding Sources with an Audio Port

Using the optional Audio Port, a local source can be connected to the keypad and played in that room. This is convenient for sources that are typically installed in the room like gaming systems, computers, cable boxes, and iPods. The Audio Port provides line level audio output making it ideal for driving powered subwoofers in the game room or external amplifiers for the poolside speakers. With certain caveats (see *Chapter 5*), a locally connected source can be distributed globally.

5-Band Graphic Equalizer

All Quartet keypad/amplifiers feature a 5-band graphic equalizer which allows for further customization of the sound quality to suit your tastes. Adjust the sound output in each room at 100Hz, 300Hz, 1KHz, 3KHz, and 10KHz.

3D Sound Stage Mode

The Quartet features a proprietary 3D sound stage to expand the spacious quality of the sound. Particularly beneficial for installations where speakers have been placed very close together, or for small rooms, the 3D sound mode improves the sound stage for the listening area.

Simplified Programming - No Laptops Required

Quartet is designed to work “out of the box” and does not require a laptop. All features can be set at the MRP using its LCD display and the included remote control, including a source’s IR. You only need to learn the IR commands for a source once and those commands are effective for all keypads. This makes it easy to configure an MRP at the office and deliver it to the home “ready to go.”

Multi-Room Processor (MRP) Components and Specifications

This section describes the MRP components and lists specifications.

MRP Components

Figure 2-1 shows the front panel of the MRP. Figure 2-2 shows the rear panel of the MRP. The MRP is a 1/2 rack wide component that features a built-in 400 watt amplifier, FM tuner, four source global inputs, and an IR emitter for source control.



Figure 2-1 Quartet Front Panel

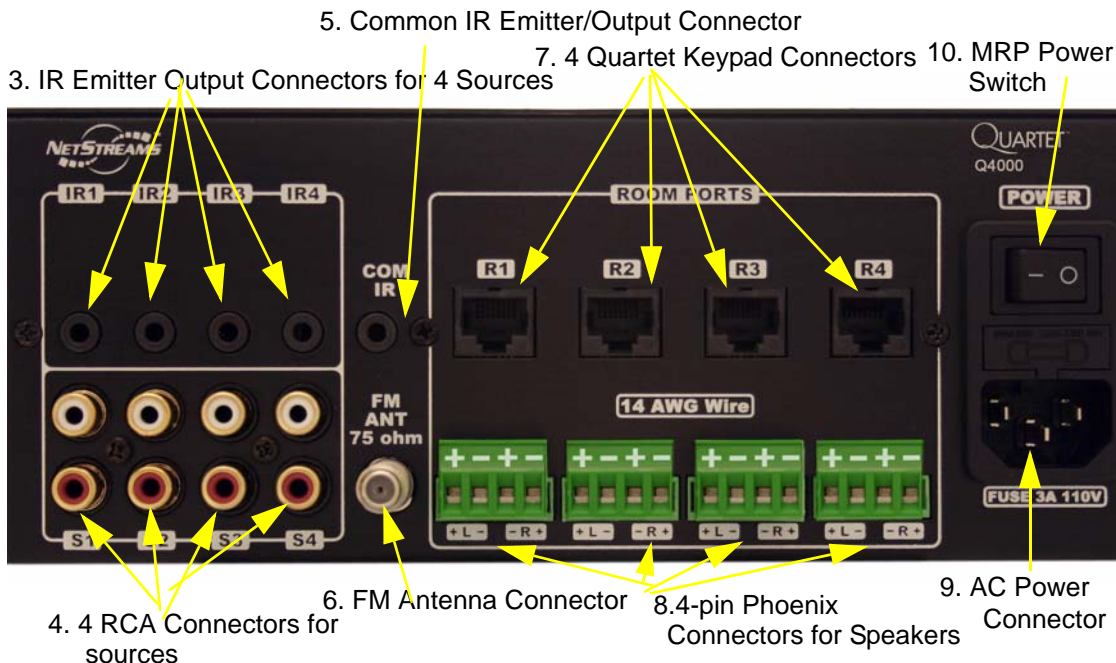


Figure 2-2 Quartet Rear Panel

1. IR receiver - receives IR signals from the Quartet remote or a universal remote (sold separately) (front panel)
2. Display - shows the four sources and what is playing on them, displays the FM channel selected and antenna strength, and provides access to the Quartet main menu (front panel)
3. IR Emitter/Output connectors for four sources (rear panel)

2-3

4. Four Source Connectors - provides the inputs from the 4 home-wide sources (rear panel)
5. Common IR Emitter/Output Connector- for IR source input. Used to mirror IR output from all source ports, and provides partial IR control of a second MRP. (rear panel)
6. FM Antenna Connector (rear panel)
7. Quartet Keypad Connectors - for the four keypads (rear panel)
8. Four-pin Phoenix Connectors for Speakers - phoenix type connectors for four pairs of speakers (left and right). (rear panel)
9. AC Power Connector (rear panel)
10. MRP Power switch - powers the MRP ON (-)/OFF(0). (rear panel)

MRP Specifications

Power	50 WPC x 8 channels @ 6 Ohms
Amp	Signal to noise ratio > 96dB Distortion 0.04% (6 Ohms, 1KHz, 1W)
# Sources	Up to nine (9) Global
Source inputs	4 stereo pairs, (up to 4 local inputs) + 1 FM tuner
Connector	Stereo RCA jack
# Zones	Four (4) simultaneous
Dimensions:	13"x 3.5" x 8.7" (W x H x D) (330.2mm x 88.90mm x 220.98mm)
Weight	7 lbs. 5 oz. (3.32 Kg)
Certifications	RoHS, UL

Remote Control

One Quartet Remote (MU4601RC) is included with each MRP Audio Distribution Center. The ergonomically designed, simple to use Quartet remote control duplicates functions of the wall-mounted keypad. The remote control also features a mute button, and discrete power ON/OFF buttons. Additional remotes may also be purchased. Figure 2-3 shows the Quartet remote control.



Figure 2-3 Quartet Remote MU4601RC

Specifications for the Remote Control

Figure 2-4 shows how the Quartet remote control duplicates the functions of the keypad. Figure 1-5 shows the functions of the Quartet remote control.

Dimensions 5.52" x 1.72" x 1.22" (L x W x D)

Buttons: Room System Buttons and SRC Buttons

Power: 3VDC (Off 2 x 1.5V AAA Batteries)

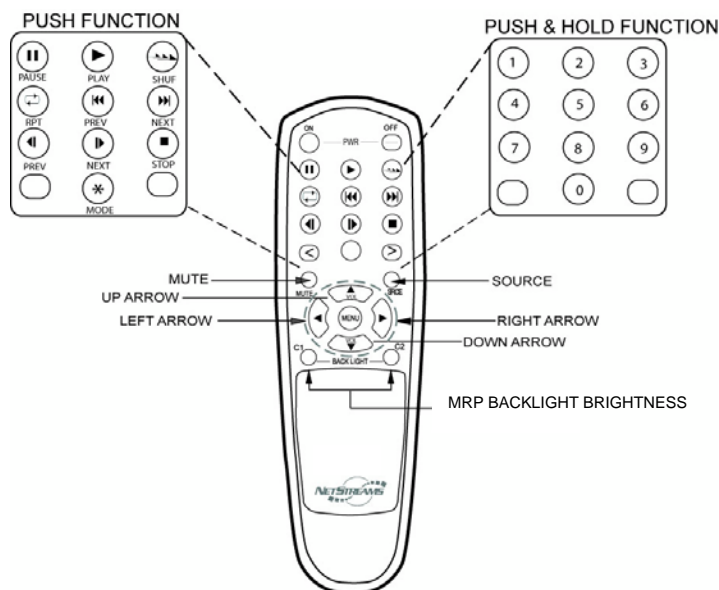


Figure 2-4 MU4601RC Remote duplicates functions of the keypad

In-Wall Keypad Layout and Specifications

In-Wall Keypad Front Layout

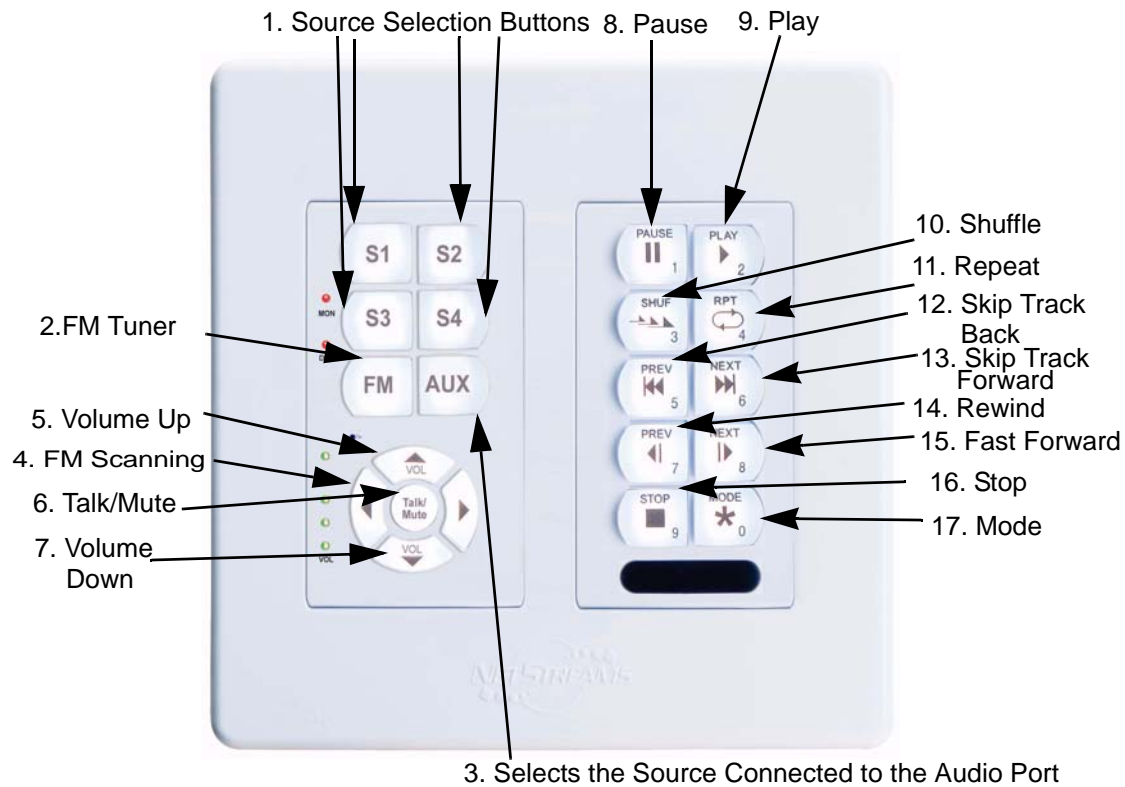


Figure 2-5 Quartet Keypad

1. Source Selection Buttons - used to select a specific global source connected to the MRP. Turns off the source when pressed a second time.
2. FM Tuner - to select the FM tuner. Press and hold to scan. Pressing a second time after initial selection will turn off the room.
3. AUX - selects source connected to local or global Audio Ports (in the room or in another room).
4. Right and left arrow - for FM tuning.
5. Up arrow - volume up.
6. Talk/Mute - press once to mute. Press and hold for 1 second (button will blink), then release to intercom with a specific room. S1 through S4 will light to allow selection of rooms 1 - 4. Press and hold Talk/Mute for 4 seconds for an all rooms page.
7. Down arrow - volume down.
8. Pause - pauses the music.
9. Play - plays the currently selected source.
10. Shuffle - Turns the source's Shuffle setting ON or OFF.

11. Repeat - repeats the currently selected song.
12. Skip Track Back - goes to next track
13. Skip Track Forward - goes to previous track
14. Rewind - rewinds the current song.
15. Fast forward - fast forwards the current song.
16. Stop - stops the currently selected song.
17. Mode - Toggles the mode setting for the currently selected source.

In-Wall Keypad Rear Layout

See Figure 2-6 for a diagram of the in-wall keypad rear layout.

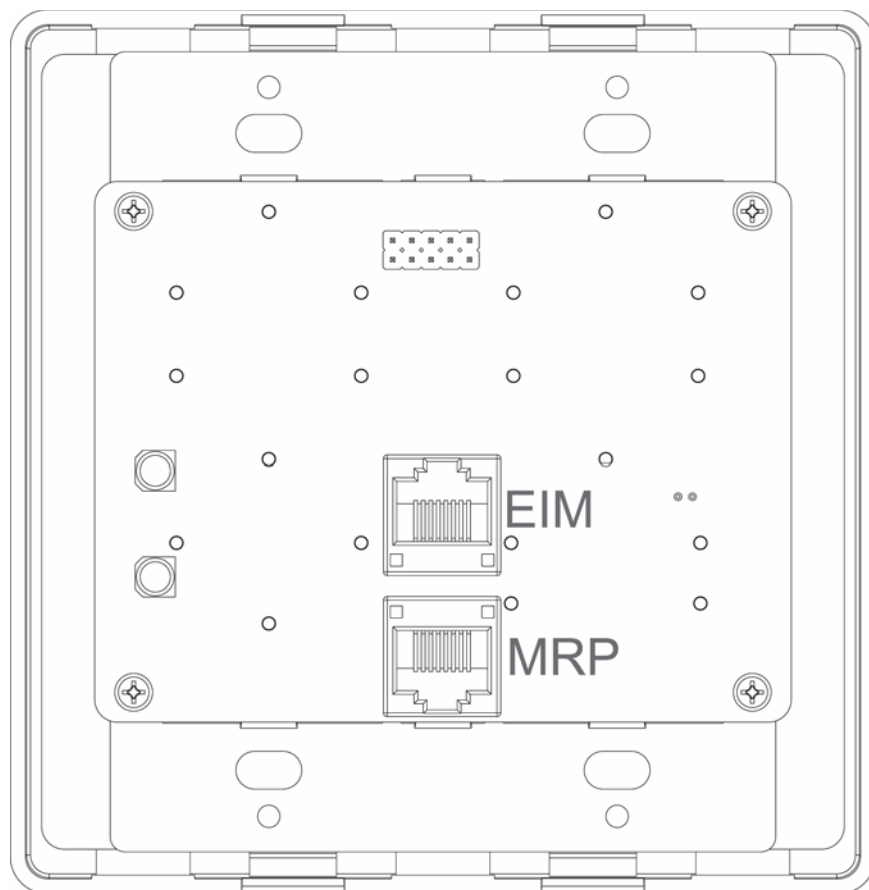


Figure 2-6 *In-Wall Keypad Rear Layout*

Quartet Keypad Specifications

FM Tuner	
Channel Separation	50KHz, 100KHz, 200KHz
Keypad	2-Gang, Decora-compatible
Keypad connector-data	8-pin RJ45 data jack

2-7

Keypad connector-power	(EIA / TIA 568a termination required) Caged Euro Style Phoenix connector
IR Source control output	Infrared LED flashed; 38 and 56KHz supported
Input level	2 Vrms
Input Impedance	10k Ohms
Output Level	2.0 Vrms
Power	100-240 V AC, 50-60 Hz
Power Consumption	150W
In-wall dimensions (backbox) (W x H x D)	4 1/5" x 3 7/10" x 1 24/25" (106mm x 94mm x 50mm)
Fits standard 2 gang box	
Outside dimensions (faceplate) (W x H x D)	4 3/10" x 5 1/10" x 2/5" (110mm x 130mm x 10mm)
Weight (back box with electronics)	0.74 lbs (0.33 kg)

Optional Add-On Audio Port (AP500)

A dealer can purchase an optional add-on Audio Port (AP500) for each keypad to add an additional audio source. The AP500 is sold separately. See Figure 2-7 for the front panel of the Audio Port. See Figure 2-8 for the rear panel of the Audio Port.



Figure 2-7 Audio Port (front panel)



Figure 2-8 *Audio Port (rear panel)*

Pre-Wiring for Quartet

NetStreams recommends dealers wire the CEA 2030 standard for Multi-Room Audio (1 CAT5 + 1 14AWG/4-conductor speaker wire). The speaker wire should run from the MRP directly to the speakers. The CAT5 cable should run from the MRP to the Quartet in-wall keypads. See Figure 3-1 for a pre-wiring diagram for Quartet.

NOTE

NetStreams recommends pre-wiring according to Figure 3-1 to allow for a future upgrade path to *Musica* and *DigiLinX*.

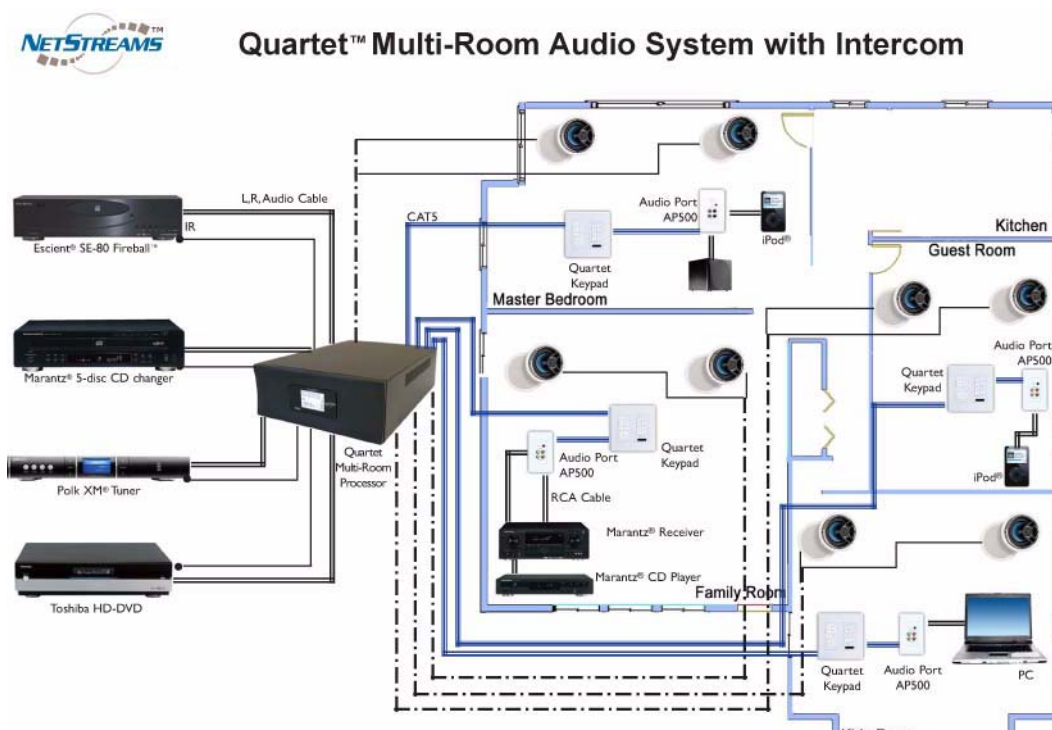


Figure 3-1 Pre-Wiring Diagram

Pre-Wiring for Audio Ports

Additionally, run 1 CAT5 cable from each Quartet keypad up to 65 feet to the Audio Port location. All CAT5/CAT5e cables should be terminated to the EIA/TIA 568a standard.

Terminating a CAT5 Cable

See Figure 3-2 for a diagram on how to terminate a CAT5 cable

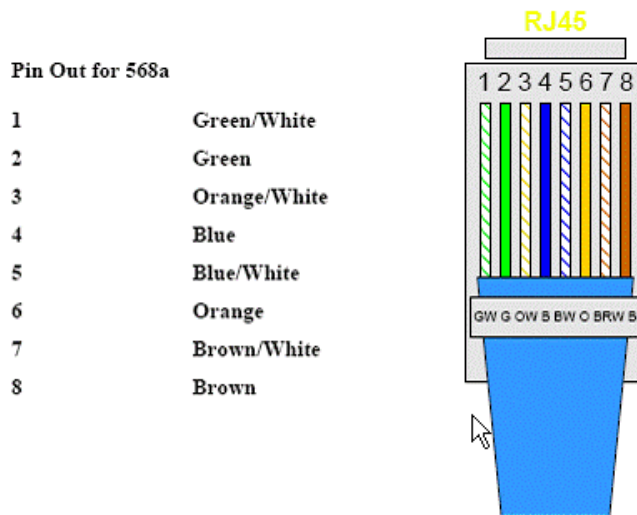


Figure 3-2 Terminating a CAT5 cable

Installation

To get started with your new system, you must first connect the cables as follows:

1. Connect the CAT5 cables from the back of the keypad (use connector labeled MRP connector) then connect the other end to the back of the unit labeled R1, R2, R3, and R4.
2. Connect the RCA cables from the audio sources to the RCA connectors on the back of the unit labeled S1, S2, S3, and S4.
3. Plug the IR emitters into the connectors on the back of the unit IR1, IR2, IR3, and IR4 and position the emitter over the IR receiver on the appropriate source.
4. Use 14 AWG to wire 4 pairs of speakers to the 4 included phoenix connectors and plug the connectors into the MRP under R1, R2, R3, and R4.
5. Connect the power cable to the back of the unit.

Connecting an Audio Port (sold separately)

To connect an Audio Port AP500, run a CAT5 (terminated 568a) from the Audio Port to the connector on the back of the keypad labeled EIM.

NOTE
EIM runs should be less than 60 feet.

Powering the System ON

1. Press the Power switch on the rear of the MRP to the ON position (-).
2. To start the system and get to the home screen, press the ON button on the Quartet remote and the following screen appears.



Figure 3-3 Home screen

The home screen shows you the FM channel selected and lists the rooms across the top. Just below the room names are the sources that are playing within each room

Using the Setup Menus

The Quartet MRP features an LCD screen on the front panel to guide you through a variety of system setup options. Using the remote, press the MENU key to access the menus. There are four menu items on the Main menu:

- ROOM - adjusts settings for the individual rooms.
- SOURCE - adjusts settings for each source.
- SYSTEM - adjusts settings for the system.
- EXIT - exits the menu system.

Using the Remote to Navigate the Menu

You can control the menu by pointing the remote at the IR window on the front panel of the MRP or on any of the keypads and pressing MENU. If the MRP is visible, you will see the following screen appear:

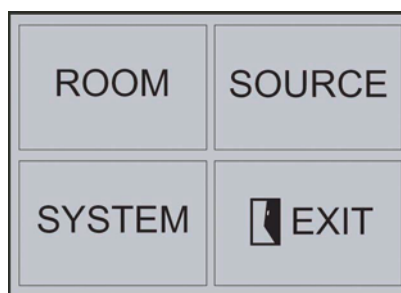


Figure 4-1 Menu screen

The keys on the bottom of the remote are key to navigating through the menus. Their functions are as follows:

- | | |
|------------|--|
| MUTE | Moves back to the previous screen. |
| MENU | Displays the Quartet menu and is used to select an item. |
| Up Arrow | Moves up a selection in a list. |
| Down Arrow | Moves down a selection in a list. |

- Right Arrow Moves to the next or previous column in the menu list; also used to increase a value.
- Left Arrow Moves to the next or previous column in the menu list; also used to decrease a value.

Using the ROOM Menu

The ROOM menu allows you to adjust settings for each individual room. Select ROOM from the main menu, then select a room, and the following screen appears.



The settings on the ROOM menu include:

- NAME** Name a room to be displayed on the front MRP screen.
- EQUALIZER** A 5-band equalizer to allow for further customization of the sound quality in each room to your tastes.
- BALANCE** Modifies the balance from left to right for the selected room.
- 3D SOUND** Features a proprietary 3D sound stage to expand the spacious quality of sound. 3D sound is particularly useful for those rooms where the speakers are placed close together.
- LOUD** Increases the amount of bass in the room.
- DEF VOL** Sets the default volume between 0 and 15 when the room is first turned ON.
- VOLUME** Sets the volume of the selected room.
- SPEAKER** Adjusts the Quartet's amplifier to match the impedance of the room. You can select from 4 ohm, 6 ohm or 8 ohm, and it lets you choose Quartet's internal amplifier or an external amplifier (if you have an optional audio port connected).
- AUX GAIN** Adjusts the input sensitivity from 6db to -6db of the Audio Port when you have an external source selected.
- SP ZONE** Used to group rooms into a super zone.

DND	Tells the system that the room is not to be disturbed, by a page an intercom.
PRIVACY	When set to ON, the room cannot be monitored. When set to OFF, the room can be monitored.
MONITOR	Allows you to monitor another room from the current room's keypad.
SLEEP	Used to set the system to ramp the volume down for a specified period of time and then turn it OFF.
RNR	Sets a specified period of time for the system to idle or wait before it begins to play music.

To use the ROOM menu, follow these steps:

1. Press the **MENU** key to access the Main menu as shown in Figure 4-2.

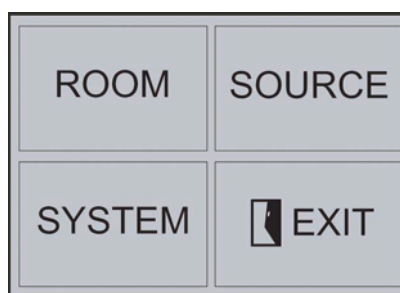


Figure 4-2 Main menu

2. Press the **MENU** key again to select the ROOM menu.
3. Use the arrow keys to select a specific room as shown in Figure 4-3.



Figure 4-3 Selecting a specific room

4. When you have selected a room, press the **MENU** key again and the following menu is displayed:

4-3

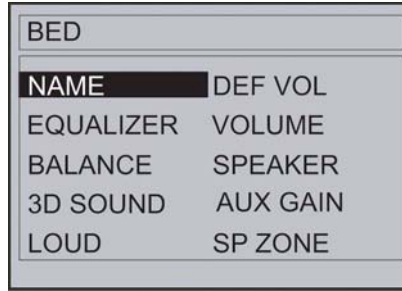


Figure 4-4 Specific ROOM menu

The menu items available are discussed in the following subsections.

Naming a Room

The NAME menu allows the room name that appears on the front MRP screen to be customized. To customize a room name, follow these steps.

1. Press the **MENU** key to select NAME.
2. Use the down arrow key to highlight MODIFY and press the **MENU** key. The following screen appears:

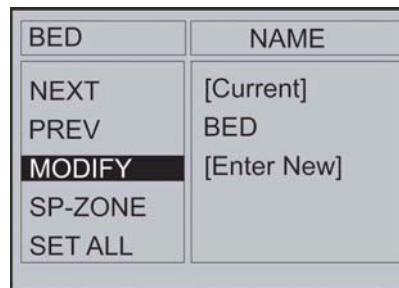


Figure 4-5 Modifying a room name

3. Use the up and down arrows to scroll through the alphabet. The > button shifts the alphabet to lower case and numerical characters.
4. After you have displayed the first letter of the new name, use the right arrow key to move to the next letter.
5. Use the up and down arrow keys and the right arrow key to select additional letters.
6. When you are done entering letters, press the **MENU** key again. The new name will appear under the text [Current] as shown in Figure 4-6.

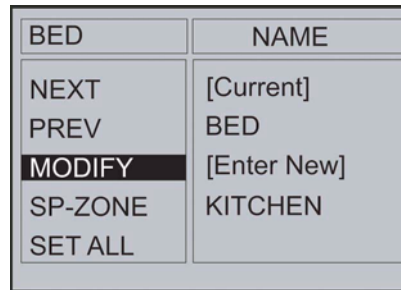


Figure 4-6 *New name appears under [Current]*

From the NAME menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- SP ZONE - to change rooms included in super zone (not recommended for this setting).
- SET ALL - sets all the rooms to this name.

Adjusting Sound Settings in the Room

Using the 5-Band Equalizer

The Quartet features a 5-band equalizer to allow for further customization of the sound quality in each room to your tastes. Adjust the sound in each room by 100Hz, 300Hz, 1KHz, 3KHz, and 10KHz.

1. Use the down arrow key to highlight EQUALIZER.
2. Press the **MENU** key to select EQUALIZER.
3. Use the down arrow key to highlight **MODIFY** and press the **MENU** key. The following screen appears:

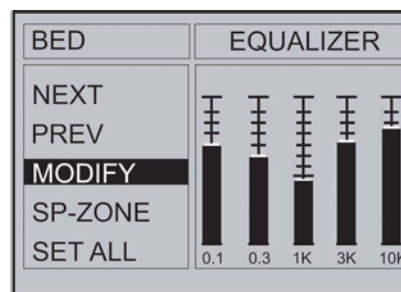


Figure 4-7 *Modifying the Equalizer*

4. Use the right and left arrow keys to select a tonal band from low to high frequencies.

5. Use the up or down arrow keys to adjust the tonal band from low to high.
6. When you are done adjusting the tonal bands, press the **MENU** button.

From the EQUALIZER menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- SP ZONE - inactive.
- SET ALL - sets all the rooms to this equalizer setting.

Adjusting the Left/Right Balance

The BALANCE setting modifies the balance from left to right for the selected room.

To modify the balance, follow these steps:

1. Use the down arrow key to highlight BALANCE.
2. Press the **MENU** key to select BALANCE.
3. Use the down arrow key to highlight MODIFY and press the **MENU** key. The following screen appears:

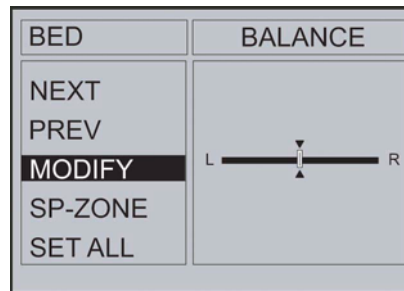


Figure 4-8 *Modifying the Balance*

4. Use the right and left arrow keys to adjust the volume to the right or left.
5. When you are done selecting the balance, press the **MENU** key.

From the BALANCE menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- SP ZONE - to change the balance of a super zone you have set up.

NOTE

Because super zone ties multiple rooms together, the balanced setting acts on all rooms. For example, if R1, R2, and R3 are in a super zone, the balanced setting will address each room's speaker pair. Super zone does not have any way to know if 3 rooms are being used to power 1 very large room and no way to know right from left across multiple speaker pairs. The balance setting works only on individual speaker pairs.

- SET ALL - sets all the rooms to this balance.

3D Sound Mode

The Quartet features a proprietary 3D sound stage to expand the spacious quality of sound. 3D sound is particularly useful for those rooms where the speakers are placed close together. 3D sound expands the sound stage in the listening area. The 3D SOUND feature turns ON or OFF three dimensional sound.

To turn ON or OFF 3D sound, follow these steps:

1. Use the down arrow key to highlight 3D SOUND.
2. Press the **MENU** key to select 3D SOUND.
3. Use the down arrow key to highlight MODIFY and press the **MENU** key. The following screen appears:

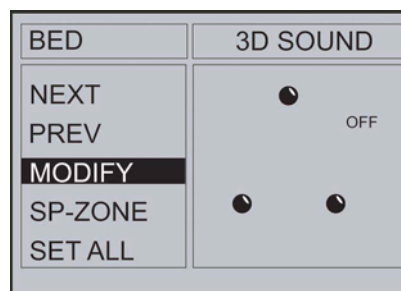


Figure 4-9 Turning 3D Sound ON or OFF

4. Use the up or down arrow key to turn 3D Sound ON or OFF.
5. When you are done selecting the 3D sound feature, press the **MENU** key.

From the 3D SOUND menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- SP ZONE - to turn 3D sound ON or OFF in a super zone you have set up.
- SET ALL - sets all the rooms to this setting.

Turning Loudness ON or OFF

The LOUD setting increases the amount of bass in the room.

To turn loudness ON, follow these steps:

1. Use the down arrow key to highlight LOUD.
2. Press the **MENU** key to select LOUD.
3. Use the down arrow key to highlight MODIFY and press the **MENU** key. The following screen appears:

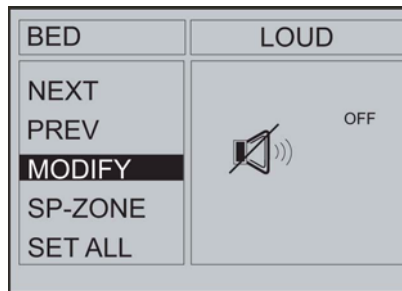


Figure 4-10 Turning LOUD ON or OFF

4. Use the up or down arrow key to turn LOUD ON or OFF.
5. When you are done turning LOUD ON or OFF, press the **MENU** key.

From the LOUD menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- SP ZONE - to increase the amount of bass in a super zone you have set up.
- SET ALL - sets all the rooms to this setting.

Adjusting the Default Volume

The DEF VOL setting sets the default volume between 0 and 15 when the room is first turned ON.

NOTE

The keypad's volume will use the default volume or the keypad's volume if the keypad volume is lower than the default or after the MRP has been powered OFF/ON.

To change the default volume, follow these steps:

1. Use the down arrow key to highlight DEF VOL.
2. Press the **MENU** key to select DEF VOL.
3. Use the down arrow key to highlight MODIFY and press the **MENU** key. The following screen appears:

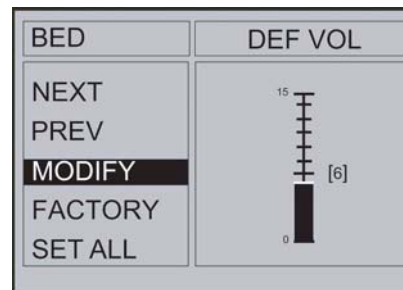


Figure 4-11 *Setting the default volume*

4. Use the up or down arrow key to set the default volume.
5. When you are done setting the default volume, press the **MENU** key.

CAUTION!

Setting the default volume too high could be startling to a user who was not expecting a loud system.

From the DEF VOL menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- FACTORY - returns this setting back to the default setting.
- SET ALL - sets all the rooms to this setting.

VOLUME

The VOLUME setting adjusts the volume of the sound in the selected room. You can select from 0 to 15db.

1. Use the down arrow key to highlight VOLUME.
2. Press the **MENU** key to select VOLUME and the following screen appears.

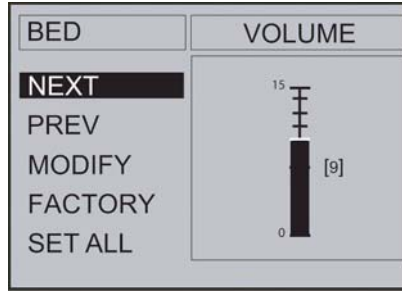


Figure 4-12 *Setting the volume*

3. Use the down arrow key to highlight **MODIFY** and press the **MENU** key.
4. Use the up or down arrow to select the volume.
5. Press the **MENU** key when you are done selecting the volume for the room.

From the **VOLUME** menu, you can also select:

- **NEXT** - to move to the previous menu item.
- **PREV** - to move to the next menu item.
- **FACTORY** - to return this setting back to the factory settings.
- **SET ALL** - sets all the rooms to this volume.

Speaker Impedance Adjustments

The **SPEAKER** setting adjusts the Quartet's amplifier to match the impedance of the speakers in each room. You can select from 4 ohm, 6 ohm or 8 ohm. In addition, it lets you choose Quartet's internal amplifier or an external amplifier (if you have an optional audio port connected).

To change the speaker settings, follow these steps:

1. Use the down arrow key to highlight **SPEAKER**.
2. Press the **MENU** key to select **SPEAKER**.
3. Use the down arrow key to highlight **MODIFY** and press the **MENU** key. The following screen appears:



Figure 4-13 *Adjusting the speaker settings*

4. Use the right or left arrow key to set the to set the speaker to 4 ohm, 6 ohm, or 8ohm.
5. If you have an Audio Port connected and want to use an external amplifier connected to the RCA outputs of that Audio Port, press the down arrow key to select INT and use the right or left arrow key to change it to AUX. The INT + AUX setting allows an external amplifier to be used and at the same time drives the speakers using Quartet's internal amplifier.
6. When you are done setting the speaker, press the **MENU** key.

NOTE

If the **SPEAKER** setting is set to **AUX** or **INT + AUX**, the audio port's input cannot be global. Other rooms cannot listen to this room's audio port input when Quartet is sending a signal to the Audio Port's output.

From the **SPEAKER** menu, you can also select:

- **NEXT** - to move to the next menu item.
- **PREV** - to move to the previous menu item.
- **SP-ZONE** - to set the speaker on a super zone you have set up.
- **SET ALL** - sets all the rooms to this setting.

Audio Port Sensitivity Adjustments (AUX GAIN)

The **AUX GAIN** setting adjusts the input sensitivity from 6db to -6db of the Audio Port when you have an external source selected.

To adjust the input sensitivity of the Audio Port, follow these steps:

1. Use the down arrow key to highlight **AUX GAIN**.
2. Press the **MENU** key to select **AUX GAIN**.
3. Use the down arrow key to highlight **MODIFY** and press the **MENU** key. The following screen appears:

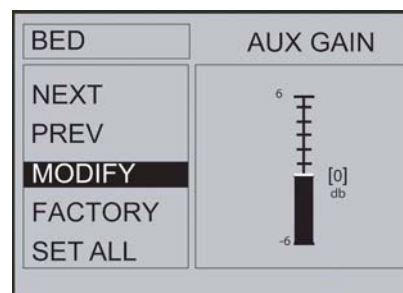


Figure 4-14 *Adjusting the sensitivity of the Audio Port*

4. Use the up or down arrow key to adjust the sensitivity of the Audio Port.
5. When you are done adjusting the sensitivity, press the **MENU** key.

From the E-N ADJ menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- FACTORY - returns this setting back to the factory setting.
- SET ALL - sets all the rooms to this setting.

Setting Up a Super Zone

The SP ZONE setting is used to group rooms into a super zone. Rooms in a super zone act as one.

There can be only one super zone per system. To group rooms in a super zone, follow these steps:

1. Select the ROOM menu.
2. Select a room.
3. Use the down arrow key to highlight SP ZONE.
4. Press the **MENU** key to select SP ZONE.
5. Use the down arrow key to highlight MODIFY and press the **MENU** key.

NOTE

The currently selected room is assumed to be in the super zone. To tell other rooms to join the super zone, change their setting to INCLUDE. If all rooms are set to EXCLUDE, no super zone is active.

The following screen appears:

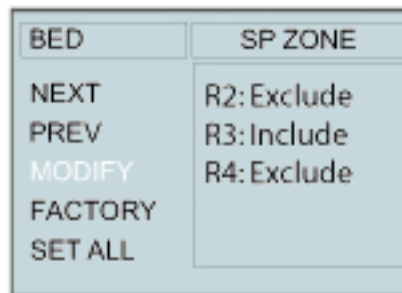


Figure 4-15 Grouping rooms into a super zone

6. Use the left and right arrow keys to either include a zone or exclude the zone.
7. When you are done grouping rooms, press the **MENU** key.

From the SP ZONE menu, you can also select:

- NEXT - to move to the previous menu item.
- PREV - to move to the next menu item.
- FACTORY - to return this setting back to the factory settings.
- SET ALL - not active.

Intercom Room/Monitoring Settings

Do Not Disturb Setting (DND)

The DND setting can be enabled or disabled. If the DND feature is enabled, that room's keypad can be set to DND, however if the setting is disabled that room's keypad will not have DND available. If a room's DND feature is enabled, the installer can set the keypad's default to ON or OFF. This is useful during a power outage when the Quartet powers back ON, the room will come up with DND ON. Rooms with DND turned ON will ignore party mode and all OFF commands, and will not receive pages or room-to-room intercom requests. The DND menu contains two settings. The first allows the ability to turn DND ON or OFF from the keypad.

To allow a user to change the DND setting at the keypad, follow these steps:

1. Use the down arrow key to highlight DND.
2. Press the **MENU** key to select DND.
3. Use the down arrow key to highlight MODIFY and press the **MENU** key. The following screen appears:



Figure 4-16 Giving the room the ability to toggle ON and OFF Do Not Disturb mode

4. Use the left and right arrow keys change the setting to ENABLE or DISABLE to give a user the ability to toggle ON or OFF Do Not Disturb mode from the room's keypad.
5. Next, you can press the down arrow key to toggle the current DND setting for the room to room ON or OFF.
6. When you are done changing the DND mode settings, press the **MENU** key.

NOTE

If DND is disabled, it cannot be set to ON.

From the DND menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- FACTORY - to return this setting to the default setting.
- SET ALL - sets all the rooms to this setting.

NOTE
 If allowed by the ENABLE setting, DND can be turned ON at the keypad using the shift key (■ + *) followed by the PLAY button.

Privacy Settings

PRIVACY allows a key pad to block being monitored. Privacy can be enabled or disabled for the user to select their privacy setting from the keypad in the room. If it is enabled, the room can select PRIVACY ON/OFF from the keypad. Disabled prevents the ROOM from having the feature. The second option tells the system if the room should have privacy turned ON or OFF when the system is turned ON. This is useful during a power outage when the Quartet powers back ON, the room will come up in Privacy mode.

To allow a user to change the privacy setting at the keypad, follow these steps:

1. Use the down arrow key to highlight PRIVACY.
2. Press the **MENU** key to select PRIVACY.
3. Use the down arrow key to highlight MODIFY and press the **MENU** key. The following screen appears:

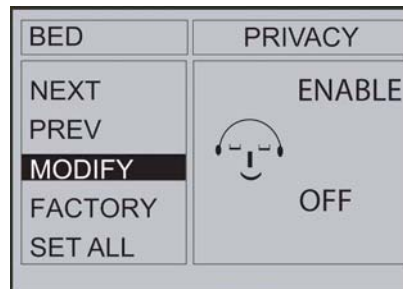


Figure 4-17 Enabling the room to be monitored by another room

4. Use the left and right arrow keys to either ENABLE or DISABLE the ability of a user to change the privacy setting from the room's keypad.
5. Next, you can press the down arrow key to change the PRIVACY setting to ON or OFF. ON means other rooms cannot monitor this room. OFF means other rooms can monitor this room.
6. When you are done giving the room the ability to be monitored, press the **MENU** key again.

NOTE
 When a room is being monitored, the MON light on the keypad illuminates.

NOTE

If allowed by the **ENABLE** setting, privacy can be turned on at the keypad using the shift key, followed by the **SHUF** key. Regardless of the **PRIVACY** setting, the room cannot monitor, be monitored, page, or intercom if that room's audio port is set to global and is being listened by another room.

From the **PRIVACY** menu, you can also select:

- **NEXT** - to move to the next menu item.
- **PREV** - to move to previous menu item.
- **FACTORY** - to return this setting back to the factory default. The factory default setting is **ENABLED/ON**.
- **SET ALL** - sets all the rooms to this setting.

Monitoring a Room

The **MONITOR** setting allows the installer to activate a room's ability to monitor another room. If the room is enabled, then that room can monitor any other room (as long as the room does not have Privacy enabled).

1. Use the down arrow key to highlight **MONITOR**.
2. Press the **MENU** key to select **MONITOR**.
3. Use the down arrow key to highlight **MODIFY** and press the **MENU** key. The following screen appears:

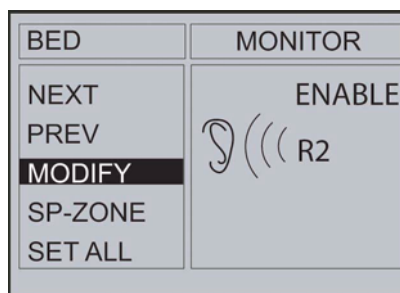


Figure 4-18 *Monitoring a room*

4. Press the up or down arrow key to either disable or enable monitoring from this room's keypad
5. When you are done setting up monitoring, press **MENU** again.

From the **MONITOR** menu, you can also select:

- **NEXT** - to move to the next menu item.
- **PREV** - to move to the previous menu item.

- SP-ZONE - to set up MONITOR for a super zone.
- SET ALL - sets all the rooms to this setting.

Setting the Sleep Timer

The SLEEP setting is used to set the system to ramp the volume down for a specified period of time and then turn it OFF. The SLEEP timer can be selected to run from 5 to 60 minutes, in 5 minute intervals.

1. Use the down arrow key to highlight SLEEP.
2. Press the **MENU** key to select SLEEP.
3. Use the down arrow key to highlight MODIFY and press the **MENU** key. The following screen appears:

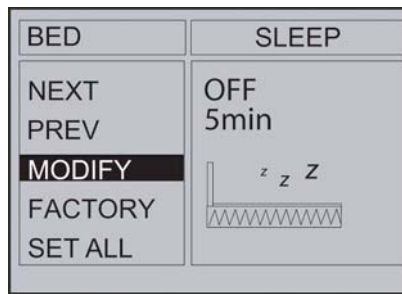


Figure 4-19 Setting up SLEEP

4. Use the right or left arrow key to turn SLEEP ON or OFF.
5. Use the up or down arrow key to select the time.
6. Enter a time by using the right or left arrow key.
7. When you are done setting the time, press the **MENU** key again.

From the SLEEP menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- FACTORY - to return this setting back to the factory default.
- SET ALL - sets all the rooms to this setting.

Sleep can also be turned off at the keypad using the shift key (■ + *) followed by the RPT key. To start a SLEEP mode at the keypad, press the shift key (■ + *) followed by the 7 key.

Setting the Rest and Rise Mode (RNR)

The Rest and Rise setting sets a specified period of time for the system to idle or wait before it begins to play music. From the MRP, you can turn RNR ON or OFF (this can also be done from the keypad), specify how long you want the music to continue

playing before it turns OFF, and a length of time before the designated source comes back ON.

For example, before going to bed a user could enable RNR, 10 minutes later the currently playing source will turn itself OFF, the keypad will wait 7 hours then switch to the DVD player, and initiate a macro.

1. Use the down arrow key to highlight RNR.
2. Press the **MENU** key to select RNR.
3. Use the down arrow key to highlight **MODIFY** and press the **MENU** key. The following screen appears:

BED	RNR
NEXT	ON - OFF :OFF
PREV	OFF - TIME:10M
MODIFY	ON - TIME :1H00M
SP-ZONE	SOURCE :S1
SET ALL	

Figure 4-20 Setting up RNR

4. Use the right or left arrow key to turn RNR ON or OFF.
5. Next, press the down arrow key to adjust the OFF-TIME setting. This specifies the length of time the keypad plays audio before turning itself OFF. You can select from 1 to 12 hours in 30 minute increments.
6. Press the down arrow key to adjust the ON-TIME setting. This specifies the length of time the keypad waits before turning itself back ON.
7. Press the down arrow key again to adjust the SOURCE setting and select a source that comes back ON.
8. When you are done setting up RNR, press the **MENU** key.

From the RNR menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- SP-ZONE - to set up RNR for a super zone.
- SET ALL - sets all the rooms to this setting.

RNR can also be turned ON or OFF at the keypad using the shift key (**■ + ***) followed by the NEXT key. The keypad will visually indicate that RNR mode is active by lighting the up, right, down, and left arrows in sequence.

Quartet Keypad Settings

Adjusting the Keypad Pilot Light Setting

The PL LIGHT setting adjusts the pilot light on the keypad. The pilot light illuminates the top six keys above the arrow keys when the keypad is OFF.

To adjust the pilot light setting, follow these steps:

1. Use the down arrow key to highlight PL LIGHT.
2. Press the MENU key to select PL LIGHT.
3. Use the down arrow key to highlight MODIFY and press the MENU key. The following screen appears:

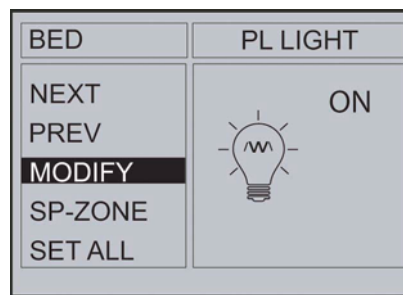


Figure 4-21 *Adjusting the pilot light setting*

4. Use the up or down arrow key to turn lights ON or OFF.
5. When you are done changing the lights on the keypad, press the MENU key again.

From the PL LIGHT menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- SP-ZONE - to set the pilot light for a super zone.
- SET ALL - sets all the rooms to this setting.

Adjusting the Keypad Back Light Setting

The BK LIGHT setting adjusts the level of the backlight on the keypad keys and specifies how long after last being touched before the backlight times out. The backlight is the overall light illuminating the keypad.

To adjust the backlight, follow these steps:

1. Use the down arrow key to highlight BK LIGHT.
2. Press the MENU key to select BK LIGHT.
3. Use the down arrow key to highlight MODIFY and press the MENU key. The following screen appears:

BED	BK LIGHT
NEXT	[LEVEL]
PREV	0
MODIFY	[ON TIME]
SP-ZONE	10sec
SET ALL	

Figure 4-22 *Adjusting the backlight*

4. Use the right or left arrow key to set the backlight from 0 to 9.
5. Press the down arrow key to select how long before the backlight times out. You can select from Always ON up to 15 minutes.
6. When you are done changing the backlight, press the **MENU** key again.

From the BK LIGHT menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- SP-ZONE - to set the backlight for a super zone.
- SET ALL - sets all the rooms to this setting.

Locking a Quartet Keypad

The KEY LOCK setting is used to lock and unlock the keypad. When the keypad is locked, the only allowed functions are to turn the room off (push currently selected source key), responding to intercoms or pages.

To lock or unlock the keypad, follow these steps:

To adjust the KEY LOCK setting, follow these steps:

1. Use the down arrow key to highlight KEY LOCK.
2. Press the **MENU** key to select KEY LOCK.
3. Use the down arrow key to highlight MODIFY and press the **MENU** key. The following screen appears:

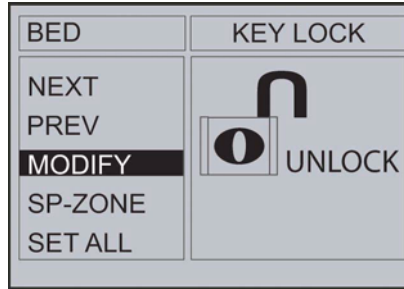


Figure 4-23 Locking or unlocking the keypad

4. Press the up or down arrow key to lock and unlock the keypad.
5. When you are done locking or unlocking the keypad, press the **MENU** key again.

From the **KEY LOCK** menu, you can also select:

- **NEXT** - to move to the next menu item.
- **PREV** - to move to the previous menu item.
- **SP-ZONE** - to lock or unlock the keypad for a super zone.
- **SET ALL** - sets all the rooms to this setting.

To unlock a locked keypad, enter the unlock code defined in the **SYSTEM** menu (factory default: 0000). To relock an unlocked keypad at the keypad, press the shift key (**■ + ***) followed by the **■** key.

Adjusting the Paging Chime Bell Setting

The **CHIME BELL** setting changes the sound used to indicate that the room is being paged or that an intercom session has started when a user starts to page to all rooms.

To adjust the sound, follow these steps:

1. Use the down arrow key to highlight **CHIME BELL**.
2. Press the **MENU** key to select **CHIME BELL**.
3. Use the down arrow key to highlight **MODIFY** and press the **MENU** key. The following screen appears:

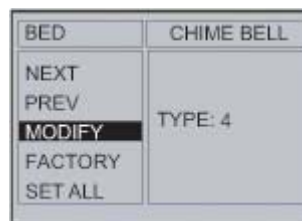


Figure 4-24 Setting the sound when you page all rooms

4. Use the up or down arrow to select between 1 and 4.

5. When you are done adjusting the sound, press **MENU** again.

From the CHIME BELL menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- FACTORY - returns this setting back to the factory setting.
- SET ALL - sets all the rooms to this setting.

Changing the AUX MODE

The AUX MODE setting determines if the Audio Port output in the room is restricted to that room or if other rooms can listen to the Audio Port as well. If the Audio Port is being accessed from another room, the room with the Audio Port will not be able to be paged or intercomed.

1. Use the down arrow key to highlight AUX MODE.
2. Press the **MENU** key to select AUX MODE.
3. Use the down arrow key to highlight MODIFY and press the **MENU** key. The following screen appears:

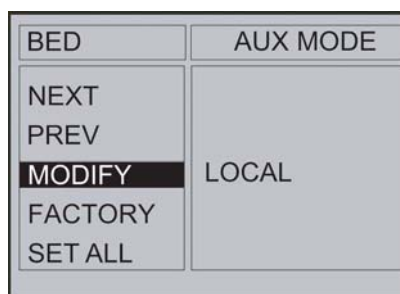


Figure 4-25 Changing the AUX MODE setting

4. Use the up or down arrow to change the LOCAL setting to ALL ROOMS if you want this Audio Port to be accessible from other rooms.
5. When you have finished selecting AUX MODE, press the **MENU** key.

From the AUX MODE menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- FACTORY - returns this setting back to the factory setting.
- SET ALL - sets all the rooms to this setting.

Using the SOURCE Menus

The SOURCE menu lets you adjust settings for each individual source. Select **SOURCE** from the Main menu. Select a source to change settings for an individual source as shown in the following figure.



Figure 4-26 SOURCE menu

After you select a source, the following screen appears:

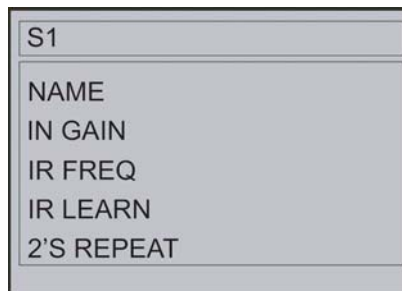


Figure 4-27

The menu items available from the SOURCE menu include:

NAME	Allows you to name a specific room.
IN GAIN	Changes the amount of adjustment for source input sensitivity.
IR FREQ	Sets the IR frequency to 38 or 56 KHz. Discussed in Chapter 5.
IR LEARN	Learns source's remote control IR commands to the Quartet remote. Discussed in Chapter 5.
2'S REPEAT	Is the delay time between the first IR command sent and all consecutive IR commands sent from the 2nd function on each button (Button Hold). Discussed in Chapter 5.
MACRO TIME	Adjusts the delay time between each IR command sent in a macro and in an RnR macro. Discussed in Chapter 5.
KEY MACRO	Selects up to two macros based on a combination of up to four remote keys. Discussed in Chapter 5.

Naming a Source

The NAME setting changes the name of the source. To change a source name, follow these steps:

1. Use the MENU key to select NAME.
2. Use the down arrow key to highlight MODIFY.
3. Press the MENU key to select MODIFY and the following screen appears:

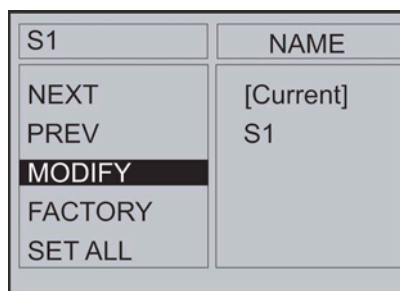


Figure 4-28 *Modifying a Source Name*

4. Use the up and down arrow to scroll through the alphabet. The > button to shift the alphabet to lowercase and numerical characters.
5. After you have displayed the first letter of the new name, use the right arrow key to move to the next letter.
6. Use the up and down arrow keys and the right arrow key to select additional letters as shown in Figure 4-29.

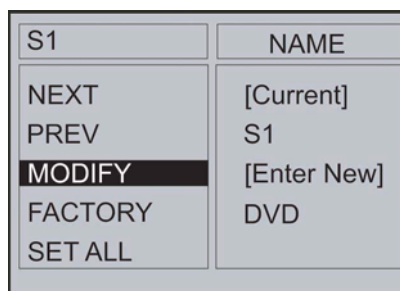


Figure 4-29 *Entering new name*

7. When you are done entering letters, press the MENU key again. The new name will appear under the text [Current].

From the NAME menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- FACTORY - returns the name to the factory default.
- SET ALL - sets all the sources to this name.

4-23

Source Input Adjustments (IN GAIN)

The IN GAIN setting changes the amount of adjustment for source input sensitivity (+/- 6db). To change the input sensitivity, follow these steps:

1. Use the down arrow key to highlight IN GAIN.
2. Press the **MENU** key to select IN GAIN.
3. Use the down arrow key to highlight MODIFY and press the **MENU** key. The following screen appears:

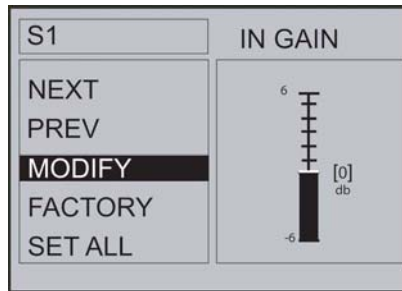


Figure 4-30 *Setting the input adjustment*

4. Press the up or down arrow key to move the sensitivity higher or lower.
5. When you are done setting the input sensitivity, press the **MENU** key.

From the IN GAIN menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- FACTORY - returns the name to the factory default.
- SET ALL - sets all the sources to this name.

NOTE
For IR learning, see
Chapter 5.

FM Tuner Settings

Select **FM TUNER** from the SOURCE menu->FM TUNER selected menu.

Adjusting the FM Tuner Sensitivity

The SENSITIVITY setting defines how much signal the tuner recognizes when it does a seek. It can be set to low, mid, or high.

To define how much signal you want the tuner to recognize when it scans or seeks, follow these steps:

1. Use the down arrow key to highlight SENSITIVITY.

2. Press the **MENU** key to select SENSITIVITY.
3. Use the down arrow key to highlight MODIFY and press the **MENU** key. The following screen appears:

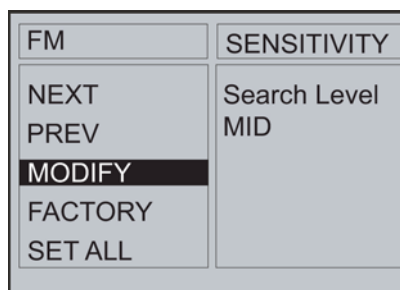


Figure 4-31 Defining the tuner's sensitivity

4. Use the up or down arrow key to set the sensitivity to low, mid, or high.
5. When you are done setting the sensitivity, press the **MENU** key.

From the SENSITIVITY menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- FACTORY - to return to the factory default.
- SET ALL - to set all rooms to this setting.

Adjusting the FM Tuner Spacing

The SPACING setting defines how much spacing is between tuning intervals on a seek or a manual tune up or down. You can set it from 50 to 200KHz.

To define the amount of spacing between tuning intervals, follow these steps.

1. Use the down arrow key to highlight SPACING.
2. Press the **MENU** key to select SPACING.
3. Use the down arrow key to highlight MODIFY and press the **MENU** key. The following screen appears:

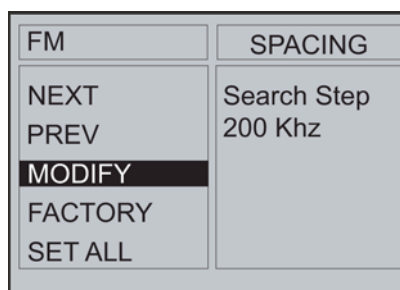


Figure 4-32 Defining tuning interval

4. Use the up or down arrow key to set the tuning level from 50 to 200KHz.
5. When you are done defining the tuning level, press the **MENU** key again.

From the SPACING menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- FACTORY - to set return to the factory default.
- SET ALL - to set all rooms to this setting.

Adjusting the FM Tuner Pre-Emphasis

The EMPHASIS setting adjusts the process that is used to decrease the magnitude of the tuner's frequency response from 1KHz to 16KHz. This allows a reduction in high frequency noise and other random noise. In the U.S. the setting should be 75 μ s (factory default). Outside the U.S. this should be set to 50 μ s.

To set the emphasis, follow these steps:

1. Press the down arrow key to highlight EMPHASIS.
2. Press the **MENU** key to select EMPHASIS.
3. Press the down arrow key to highlight MODIFY and press the MENU key. The following screen appears:

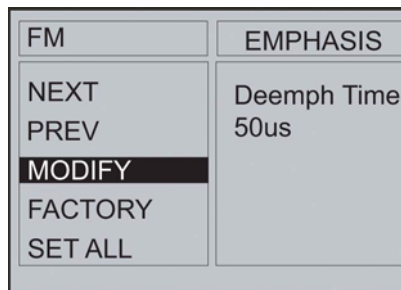


Figure 4-33 Setting EMPHASIS

4. Change the response time to either 50 μ s or 75 μ s.
5. When you are done selecting the response time, select the **MENU** key again.

From the EMPHASIS menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- FACTORY - to return to the factory default.
- SET ALL - to set all rooms to this setting.

Setting FM Tuner Presets

The PRESET setting defines up to 20 tuner presets. The PRESET menu has three options: MODIFY, AUTO, and SHOW. MODIFY enables presets to be set and changed manually. To modify a preset, follow these steps:

1. Press the down arrow key to highlight PRESET.
2. Press the **MENU** key to select PRESET.
3. Press the down arrow key to highlight MODIFY and press the **MENU** key. The following screen appears:

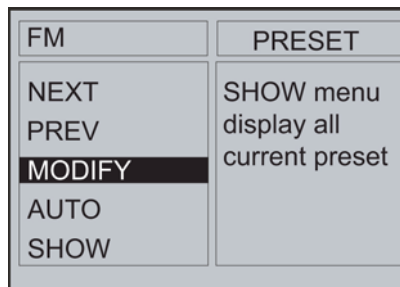


Figure 4-34 Modifying presets

NOTE

Presets 0-9 are the numeric keys on the keypad. Presets 10-19 are the press and hold function. Preset 0 is the 0 key, not the top key.

4. Use the left and right arrow keys to change from 0 to 19.
5. Press **MENU** to edit the preset.
6. Use the number (#) keys on the remote for the station. For example, 98.7 FM would be key sequence 9-8-7.
7. Press **MENU** to confirm and set the preset.

Auto Pre-Set Tuning

Quartet can also set presets automatically based. To set presets automatically, follow these steps:

1. Press the down arrow key to highlight PRESET.
2. Press the **MENU** key to select PRESET.
3. Press the down arrow key to highlight AUTO.
4. Press the **MENU** key to select AUTO and the following screen appears:

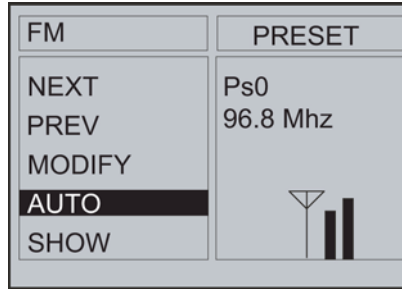


Figure 4-35 *Setting presets automatically*

Quartet will immediately begin to scan available stations and set presets when it has good reception, until the presets are full or there is no more frequency to scan. Quartet will return to the PRESET menu after the AUTO scan is complete.

The final menu item in the PRESET menu is SHOW. SHOW is used to show all FM presets at once for easy review. To view the presets, follow these steps:

1. Press the down arrow key to highlight PRESET.
2. Press the **MENU** key to select PRESET.
3. Press the down arrow key to select SHOW. Press the **MENU** key and presets 0-9 will show on the following screen:

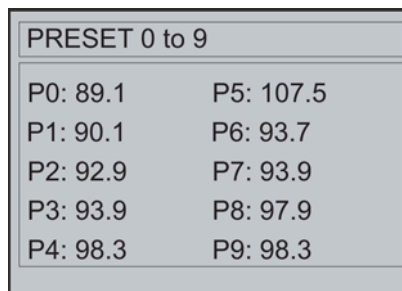


Figure 4-36 *Showing presets*

4. Use the right arrow to view presets 10 - 19.
5. Press the **MUTE** key to return to the PRESET menu.

Setting System Settings

You set MRP Settings from the SYSTEM menu as shown in the following screen.

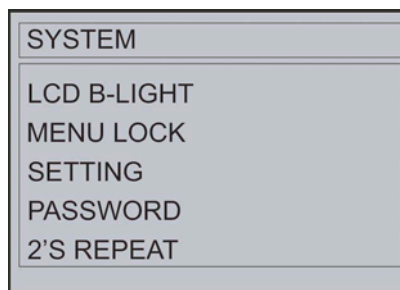


Figure 4-37 System Main Menu

The settings available from this menu are as follows:

- LCD BACKLIGHT - adjusts the level of the backlight on the Quartet display and how long it stays ON.
- MENU LOCK - locks the menu on the Quartet display.
- SETTING - this menu is used to save Quartet's current settings to internal memory.
- PASSWORD - lock/unlock users out of accessing the MRP SETTINGS menu, with a password protected screen.

Adjusting the LCD Backlight Setting

The LCD B-LIGHT setting adjusts the level of the backlight on the Quartet display and how long it stays ON.

To adjust the level of the backlight and how long it stays on, follow these steps:

1. Press the down arrow key to highlight LCD B-LIGHT.
2. Press the **MENU** key to select LCD B-LIGHT.
3. Press the down arrow key to highlight MODIFY and press the **MENU** key. The following screen appears:

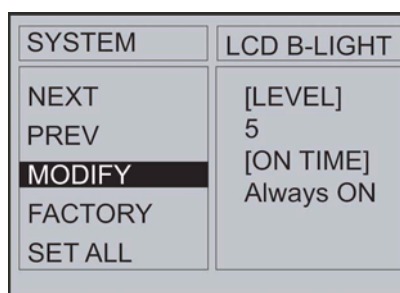


Figure 4-38 Setting the LCD backlight

4. Adjust the level of the backlight by pressing the right or left arrow keys. You can select levels 1 through 5.

5. Press the down arrow key to select how long the backlight stays on. You can select from ALWAYS ON, from 10 to 50 seconds, and from 1 minute to 15 minutes.
6. When you are done selecting how long the backlight stays on, press the **MENU** key again.

From the LCD B-LIGHT menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- FACTORY - to return to the factory default.
- SET ALL - inactive.

Setting a Password for Quartet

The Quartet system also features the ability to lock/unlock users out of accessing the MRP SETTINGS menu, with a password protected screen. PASSWORD allows you to set up a new password for the system. To change the password, you are asked for the current password, the new password, and to confirm the new password.

To set up a new password, follow these steps:

1. Press the down arrow to highlight PASSWORD.
2. Press the **MENU** key to select PASSWORD.
3. Press the down arrow key to highlight MODIFY and press the **MENU** key. The following screen appears:

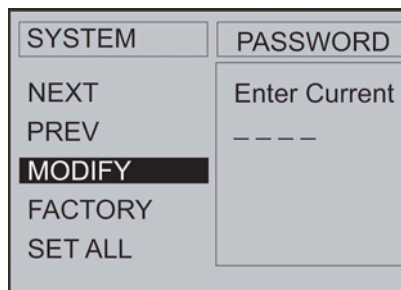


Figure 4-39 *Modifying the password (factory default: 0000)*

4. In response to the prompt Enter Current, enter the current 4-digit password.
5. In response to the prompt Enter New, enter a new 4-digit password.
6. In response to the prompt Confirm New, enter the new 4-digit password again.

From the PASSWORD menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- FACTORY - to return to the factory default.
- SET ALL - inactive.

Locking and Unlocking the MRP Menu

The MENU LOCK setting locks the menus on the Quartet MRP display. You use a password (set under SYSTEM->PASSWORD) to unlock the display.

To lock the display, follow these steps:

1. Press the down arrow key to highlight MENU LOCK.
2. Press the **MENU** key to select MENU LOCK.
3. Press the down arrow key to highlight MODIFY and press the **MENU** key. The following screen appears:

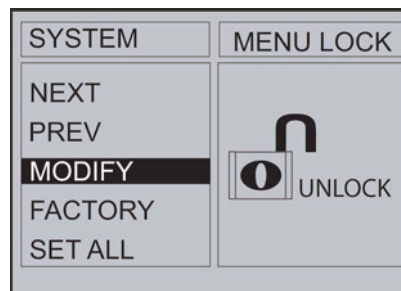


Figure 4-40 Locking or unlocking the menu

4. Use the up or down arrow key to lock the menu.
5. When you are done locking or unlocking the menu, press the **MENU** key again.

From the MENU LOCK menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- FACTORY - to return to the factory default.
- SET ALL - inactive.

Saving the Quartet's Current Settings

The SETTING menu is used to save Quartet's current settings to internal memory. This is useful if during installation settings are changed in different configurations. The saved settings can be recalled from memory to quickly restore the system.

To save or load system settings to or from memory, follow these steps:

1. Press the down arrow key to highlight SETTING.
2. Press the **MENU** key to select SETTING.
3. Press the down arrow key to highlight LOAD or SAVE and press the **MENU** key. The following screen appears:

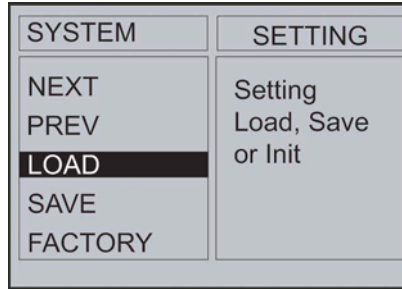


Figure 4-41 *Adjusting Setting*

From this menu, you can also select from the following options:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- FACTORY - to return to the factory default.

Learning IR

This chapter discusses the following:

- Adjusting the IR Frequency
- Learning IR for Control of Sources
- Creating Macros

You learn IR from the SOURCES menu ->S1, S2, S3, or S4 selected.

Adjusting the IR Type

The IR TYPE setting sets the IR frequency to 38 or 56 KHz and if the source uses alternating codes.

To set the IR frequency, follow these steps:

1. Use the down arrow key to highlight IR TYPE.
2. Press the **MENU** key to select IR TYPE.
3. Use the down arrow key to highlight MODIFY and press the **MENU** key. The following screen appears:

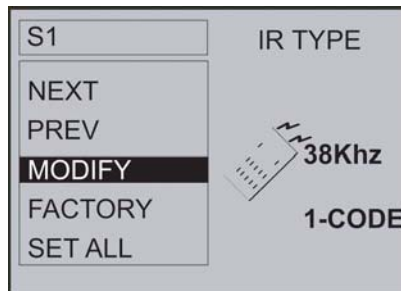


Figure 5-1 Setting the IR frequency

4. Press the right or left arrow key to switch between 38 and 56 KHz.
5. Select the down arrow to select 1-CODE.
6. Use the right or left arrow key to select 1-CODE or 2-CODE for alternating IR code.

7. When you are done setting the IR frequency and code, press the **MENU** key again.

From the IR TYPE menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- FACTORY - to return this setting to the factory default.
- SET ALL - sets all the rooms to this setting.

Learning IR for Control of Sources

The IR LEARN menu learns source's remote control IR commands to the Quartet remote.

To learn a source's remote commands to the Quartet remote, follow these steps:

1. Make sure you have selected the source that you want to learn the IR code for.
2. Use the down arrow key to highlight IR LEARN.
3. Press the **MENU** key to select IR LEARN.
4. Use the down arrow key to highlight LEARN and press the **MENU** key. The following screen appears:

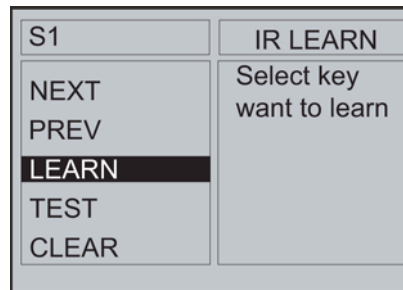


Figure 5-2 Setting the source's remote commands to the Quartet remote

5. Select the key on the Quartet remote you want to learn it to. In our example screen that follows, we've selected the Pause key.

NOTE
 You can select either the press function (one press) or the press and hold function (one press and hold it down).

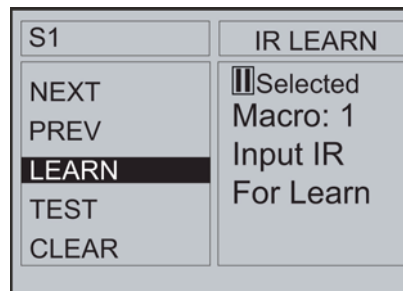


Figure 5-3 Selecting the key on the Quartet to learn a command

- Select the key on the source's remote you want to learn. Quartet displays the following:

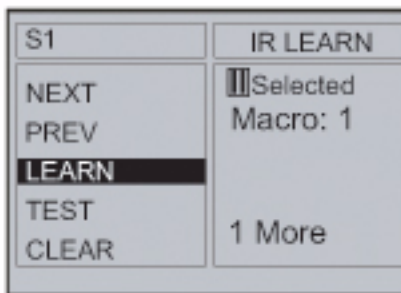


Figure 5-4 Selecting the key on the source's remote

- Repeat the key again to confirm. The Quartet displays the following if the key has been learned.

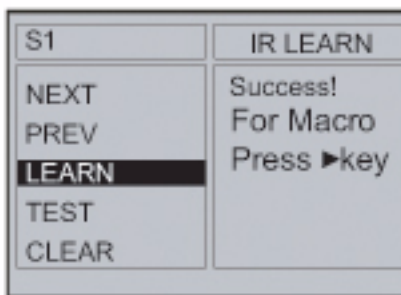


Figure 5-5 Successful IR learn

- If you want to create a Macro, press the right arrow key.
- Enter the Quartet's remote key you want to learn it to and then the source's remote key you want to learn. You can create up to a 4-step macro.
- When you are done setting source remote commands or macros, press the **MENU** key again.

From the IR LEARN menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- TEST - to test the Quartet remote key you have learned.
- CLEAR - to clear all IR commands learned.

Creating Macros

You can create macros using the 2's REPEAT, MACRO TIME, and KEY MACRO menus. Macros can have a maximum of 4 steps.

2'S Repeat

2's Repeat is the delay time between the first IR command sent and all consecutive IR commands sent from the 2nd function on each button (Button Hold). If the Disable option is selected, then there are no repetitive IR commands sent.

NOTE

This setting can be useful if a source needs "processing time" between IR commands. If IR commands are sent too quickly, they can queue and create unexpected results.

To set the 2's Repeat time, follow these steps:

1. Use the down arrow key to highlight 2'S REPEAT.
2. Press the **MENU** key to select 2'S REPEAT.
3. Use the down arrow key to highlight MODIFY and the following screen appears:

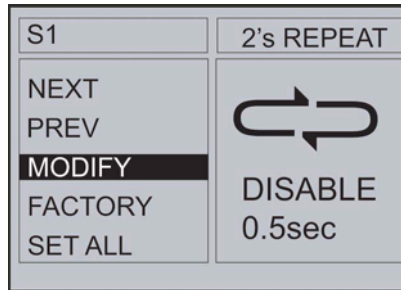


Figure 5-6 Setting the 2's REPEAT delay time.

4. Use the right or left arrow key to toggle between DISABLE and ENABLE.
5. To set the 2's Repeat time, use the down arrow key to select the delay time. You can choose from .5 seconds to 1 second.
6. When you are done setting the 2's Repeat time, select the **MENU** key again.

From the 2'S REPEAT menu, you can also select:

- NEXT - to move to the next menu item.
- PREV - to move to the previous menu item.
- FACTORY - to return to the factory default.
- SET ALL - sets all the rooms to this setting.

Macro Time

The MACRO TIME setting adjusts the delay time between each IR command sent in a macro and in an RnR macro.

To set the macro time, follow these steps:

1. Use the down arrow key to highlight MACRO TIME.
2. Press the **MENU** key to select MACRO TIME.
3. Use the down arrow key to highlight MODIFY and press the **MENU** key. The following screen appears.

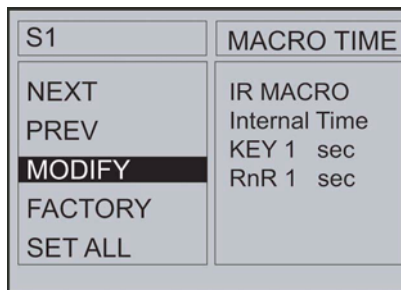


Figure 5-7 Setting the macro time

4. In response to the **KEY** prompt, select the delay time between each IR command sent in a macro by pressing the right or left arrow keys. You can select from 0 to 5 seconds.
5. Press the down arrow key to select the delay time between each IR command sent in an RnR macro. You can select from 0 to 5 seconds. Use the right or left arrow key to select the time.
6. When you are done setting the RnR macro time, press the **MENU** key.

From the **MACRO TIME** menu, you can also select:

- **NEXT** - to move to the next menu item.
- **PREV** - to move to the previous menu item.
- **FACTORY** - to return to the factory default.
- **SET ALL** - sets all the rooms to this setting.

Key Macro

The **KEY MACRO** setting allows you to create a 4-step macro from the control buttons. For example, if you learned the IR for power on to the Mode button (button 1) and you learned the play IR code to the play button, a key macro could be created that simulates pushing the Mode button to play.

To set up to two macros, follow these steps:

1. Use the down arrow key to highlight **KEY MACRO**.
2. Press the **MENU** key to select **KEY MACRO**.
3. Use the down arrow key to highlight **MODIFY** and press the **MENU** key. The following screen appears:

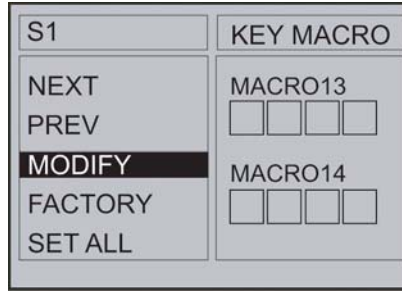


Figure 5-8 *Entering macros*

4. Select up to four buttons on the remote that you want to include in the first macro.
5. Press the up or down arrow key to select the second macro.
6. Select up to four buttons on the remote that you want to include in the second macro. An example screen follows.

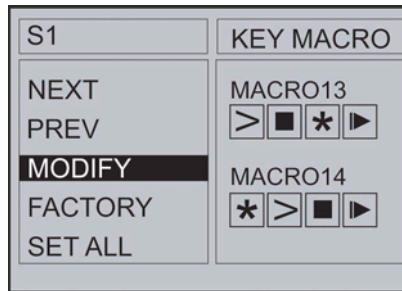


Figure 5-9 *Setting up to two macros*

7. When you are done setting up the two macros, press the **MENU** key again.

To trigger key macro 13, press the left arrow key on the keypad. To trigger key macro 14, press the right arrow on the keypad.

From the **KEY MACRO** menu, you can also select:

- **NEXT** - to move to the next menu item.
- **PREV** - to move to the previous menu item.
- **FACTORY** - to return to the factory default.
- **SET ALL** - sets all the rooms to this setting.

Using the Quartet Keypads to Listen to Audio

In-Wall Keypad



Figure 6-1 Quartet Keypad

Turn Keypad ON/OFF

To turn the keypad ON for a room, press the source key once. To turn the keypad OFF for a room, press the source button again.

Turn Volume Up/Down

Use the up or down arrow keys on the keypad to control the volume.

Mute Audio

To mute the audio for a room, press the TALK/MUTE button once. To unmute the audio for a room, press the TALK/MUTE button again.

Select a Global Source

Select S1, S2, S3, or S4 to select a global source.

Select a Source for All Rooms

Press and hold S1, S2, S3, or S4 to select a source for all rooms.

Control a Source

Press the 0 to 9 keys to control a source. Press and hold the 0 to 9 keys to select presets 10 through 19.

Select a Local Source (Audio Port)

Press the AUX button to select a local source connected to an Audio Port.

Select a Source Local Source in Another Room

Press the AUX button and then select one of the blinking S1, S2, S3, or S4 keys to indicate which room to use.

Select the FM Tuner

To select the FM tuner, press the FM button on the keypad.

Change Stations

Use the left and right arrow buttons to tune up or down a selection. Hold down the left or right arrow keys to seek.

Select Tuner Presets

Select keys 0 to 9 on the keypad to select tuner presets 0 to 9. Press and hold the 0 to 9 keys to select tuner presets 10 to 19.

Trigger Key Macros

Press the left arrow key to trigger key macro 13. Press the right arrow key to trigger key macro 14.

Special Functions

Sleep

Press STOP and MODE, then key 7 to turn sleep ON. Press STOP and MODE, then key 7 again to turn sleep OFF.

RNR

Press STOP and MODE, then key 8 to turn RNR ON. Press STOP and MODE, then key 8 again to turn RNR OFF.

Using the Remote to Navigate the Menu

You can control the menu by pointing the remote at the IR window on the front panel of the MRP or on any of the keypads and pressing MENU. If the MRP is visible, you will see the following screen appear:

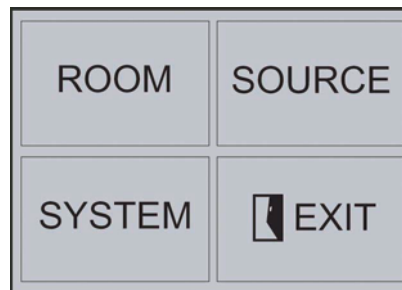


Figure 6-2 *Menu screen*

The keys on the bottom of the remote are key to navigating through the menus. Their functions are as follows:

- MUTE Moves back to the previous screen.
- MENU Displays the Quartet menu and is used to select an item.
- Up Arrow Moves up a selection in a list.
- Down Arrow Moves down a selection in a list.
- Right Arrow Moves to the next or previous column in the menu list; also used to increase a value.

Left Arrow Moves to the next or previous column in the menu list; also used to decrease a value.

Whole House and Room-to-Room Paging

In-Wall Keypad



Figure 7-1 Quartet Keypad

Paging all Rooms (Whole House Paging)

Press and hold the **Talk/Mute** button down for 4 seconds to page all the rooms.

Answering a Page

Press the **TALK/MUTE** button once. Speak into the the speaker. The person who wishes to talk must press and release the TALK/MUTE button to take control of the intercom session.

Hanging Up on a Page

Press any source button once.

NOTE _____
Rooms in DND (Do Not Disturb) mode will not hear the page.

Paging One Room

Press and hold the **TALK/MUTE** button for one second (until it blinks), then select S1, S2, S3, or S4 to select a specific room.

NOTE _____
Paging and room monitoring functions must be performed at the keypad location.

NOTE _____
Rooms in DND (Do Not Disturb) mode will not hear the page.

Monitoring a Room

Press the **STOP** and **MODE** keys at the same time, then select key 6. The source selection buttons will light letting you select the room you want to monitor.

NOTE _____
Rooms with **PRIVACY** enabled cannot be monitored.

Troubleshooting

The following sections discuss symptoms, explanations, and actions required for troubleshooting Quartet.

Symptom

System does not power ON.

Explanation

Power cable is not fully connected or fuse is blown.

Action

1. Turn OFF the power on the MRP.
2. Ensure proper power cable connection.
3. Check fuse and replace with a 3A, 110V fuse.
4. Turn system back ON.

Symptom

There are problems when trying to learn the IR keys on the Quartet keypad.

Explanation

There could be several things to check for.

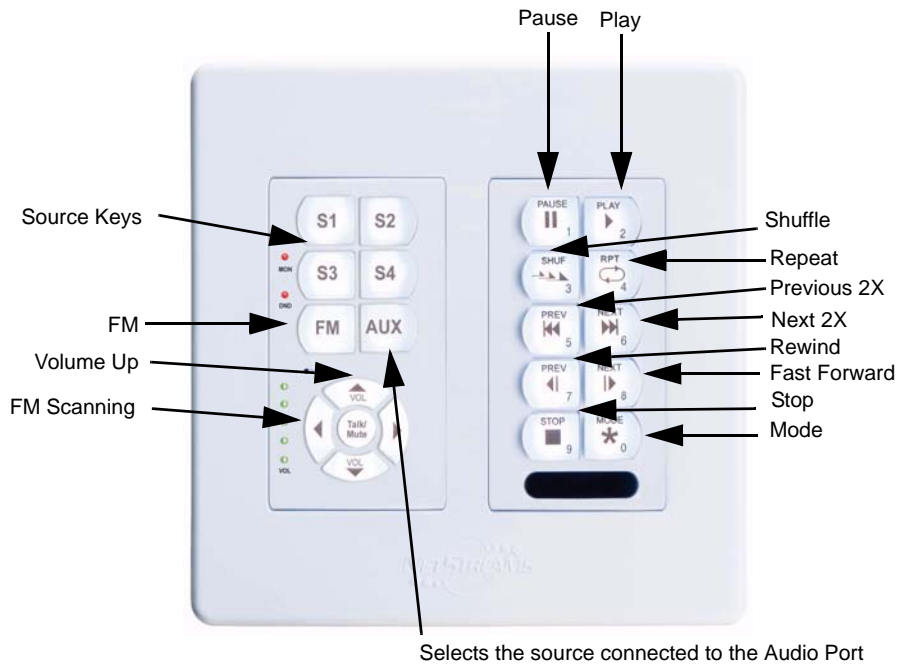
Action

1. Check to make sure that the IR emitter output connection is using the port with the same number as the source connected to the MRP. For example, a source connected by RCA analog to Audio Input 1 on the MRP should have the IR emitter running from IR Out 1 on the MRP.
2. If number 1 is OK, then consult the owner's manual for the source equipment to double check that the IR codes are transmitting at the same frequency. The default IR setting for the Quartet system is 38KHz; however, if the source connected to the input takes IR codes that are transmitting at 56KHz, you will need to change the IR

FREQ setting for that source input from the menu on the Quartet keypad (using the IR section of the menu).

3. Some source manufacturer's remote controls transmit IR codes in reverse polarity. Try learning the IR codes to the keypad by pointing the remote control at the keypad once to learn the code, then point it away, and press the same button again, and finally point it back at the keypad to verify the IR code learned.

Quartet Keypad Quick Reference



How the Keypad Works

- Press Means to press the key once.
- Press and Hold Means to press the key and hold it down.
- Shift Means to press STOP and MODE at the same time, followed by another key indicating the function.

Table 1: Source and Room Names

Key	Source Name	Room Name
S1		
S2		
S3		
S4		

Dealer Information:



Quartet Keypad Quick Reference

Table 2. Function Quick Reference

Function	Description	Press Button
Select a source.	Selects a source for that room.	Press S1, S2, S3, S4 or FM, depending on desired source.
Select a source for all rooms.	Selects a source for all rooms (Party mode).	Press and hold S1, S2, S3, S4 or FM.
Select a local source in the room.	Selects a local source located in the room.	Press AUX.
Select a local source in another room.	Selects a local source located in another room.	Press AUX (the options will be blinking).
Select FM tuner.	Selects the FM tuner.	Press the FM button.
Manually tune radio.	Manually tunes the FM radio.	Press the left or right arrow buttons.
Seek up or down.	Automatically goes to the next or previous radio station.	Press and hold the left or right arrow buttons.
Turn DND ON or OFF.	Turns room DND mode ON or OFF.	Press STOP and MODE key, then press 4
Turn room privacy ON or OFF.	Turns room privacy mode ON or OFF.	Press STOP and MODE key, then press 5.
Turn room monitoring ON.	Triggers room monitoring mode.	Press STOP key and MODE key, then press 6.
Turn room monitoring OFF.	Turns room monitoring OFF.	Select the source you are monitoring.
Turn sleep ON or OFF	Turns sleep mode ON or OFF.	Press STOP key and MODE key, then press 7.
Select preset 0-9.	Selects FM tuner preset 0-9.	Press 0 - 9 key.
Select preset 10-19.	Selects FM tuner preset 10-19.	Press and hold 0-9 key.
Mute or unmute room.	Mutes or unmutes room.	Press TALK/MUTE once to mute; press again to unmute.
Turn all rooms OFF.	Turns all rooms OFF.	Press and hold MODE key for two seconds with the STOP key to enter key shift mode. After entering key shift mode, press the MODE key again to turn all rooms OFF.
Set room to INT amplifier.	Sets room to INT amplifier.	Press STOP key and MODE key, then press 1.
Set room to AUX output for local amplifier.	Sets room to AUX output for local amplifier.	Press STOP and MODE, then press 2.
Set room to INT+AUX output.	Sets room to INT+AUX output.	Press STOP and MODE, then press 3.