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 www.onqlegrand.com

1. INTRODUCTION

The On-Q/Legrand lyriQ™ Triple-Source Input Unit (P/N F7428) converts and sends line-level audio from up to three audio components (i.e. Stereo Receiver, CD Player, Tape Deck, etc.) to an audio distribution module via Cat 5e cable (see **Figure 1**).

It is an integral part of the lyriQ™ Audio System, which utilizes Category 5 technology to distribute high quality audio to remote locations via Cat 5e cable, creating a versatile whole-house audio system that will fill your rooms with high quality sound for years to come. This technology provides many advantages over conventional methods of audio distribution, such as simple Category 5 wiring schemes, infrared control of system components, and improved sound quality due to an amplifier being located in every room.

This unit also receives IR control codes from the Volume Control IR Targets and passes them to the emitter output ports for control of the source equipment.



Figure 1

2. DESCRIPTION

The lyriQ™ Triple-Source Input Unit typically resides at the entertainment center (see **Figure 2**). It accepts stereo line level audio via three sets of Left/Right RCA jacks, and transmits the audio via two Cat 5e cable runs to a centrally-located, enclosure-mounted lyriQ™ 4x8 Multi-Source Distribution Module (P/N AU1002). The distribution module then distributes the audio, also via Cat 5e cable, to lyriQ™ Amplified Keypads with IR (P/N F7394) in multiple rooms throughout the house.

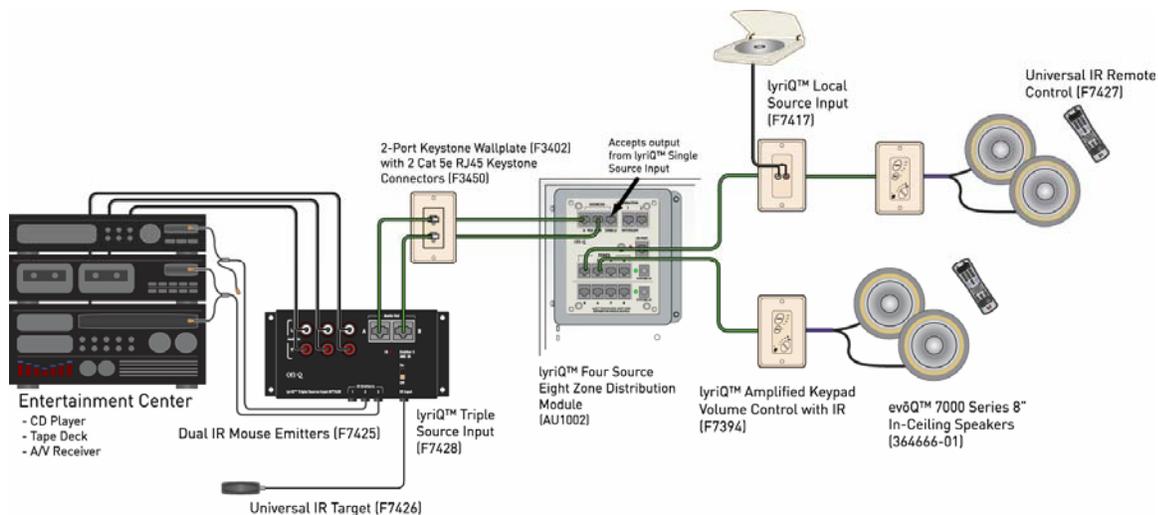


Figure 2

- If an audio component is being shared with an A/V receiver and the multi-source system, and doesn't have secondary fixed stereo line level outputs, use two Y-cables to split that component's output signal so it can be sent directly into one set of RCA jacks on the Triple-Source Input and also to the A/V receiver (see **Figure 3**).

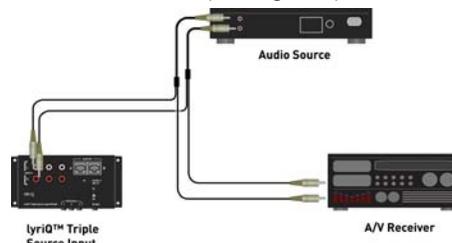


Figure 3

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- Each set of RCA jacks has an associated Gain Control on the bottom of the module (see **Figure 4**), which can be used to adjust the amplitude of each line-level audio signal entering the Triple-Source Input. This is useful because the strength (amplitude) of line-level output signals often varies among audio components. By simply adjusting the gain of each signal you can achieve a balanced level among audio sources, ensuring consistent minimum and maximum volume in every room regardless of which audio source is selected.

Some sources may be deemed to be "hot" and cause audio distortion in the system. In this case, reducing the line level with the gain adjustment will solve the issue. If devices have a very low output they can be adjusted to be on par with the rest of the sources.



Figure 4

NOTE: When combining the Triple Source with the Single Source Input Units to make a 4-source system, place the audio source that has the most neutral output level on the Single Source unit since it doesn't have a gain control. Place the other devices on the Triple Source unit and adjust the gain as necessary.

- Three 2.5mm IR jacks on the lyriQ™ Triple Source Input Unit allow for remote control of source audio components from any room in the house with a lyriQ™ Amplified Keypad with IR Volume Control. The IR targets on these volume controls provide a direct path back to the IR jacks on the Triple-Source Input, which in turn sends the IR signals to the source audio components via a Dual IR Mouse Emitter (P/N F7425).
- There is also one IR Input Jack. By using an infrared target such as the Universal IR Target (P/N F7426), all system components can be controlled behind closed doors at the entertainment center. This is very useful - in most multi-room audio systems, two sets of emitters must be placed on the source equipment for control. One emitter is for the multi-room system and the other for control within that room for an application like watching a movie. The lyriQ™ system acts as both an IR distribution system for multi-source control and as an IR distribution for the home theater!
- The output from FOUR audio devices can be distributed throughout the house by using a lyriQ™ Single Source Input Unit (P/N F7398) along with the Triple-Source Input. Plan ahead for this by running a third Cat 5e cable from the Enclosure to the room containing the source audio equipment (see **Figure 5**).
- Optionally, the lyriQ™ Local Source Input (P/N F7417) can be wired in any room, allowing users to plug in devices like portable audio players, master bedroom TVs, or computer audio outputs for in-room listening on local speakers. It automatically overrides the remote source music in the room when the local source is on and returns to the source when local source is off.

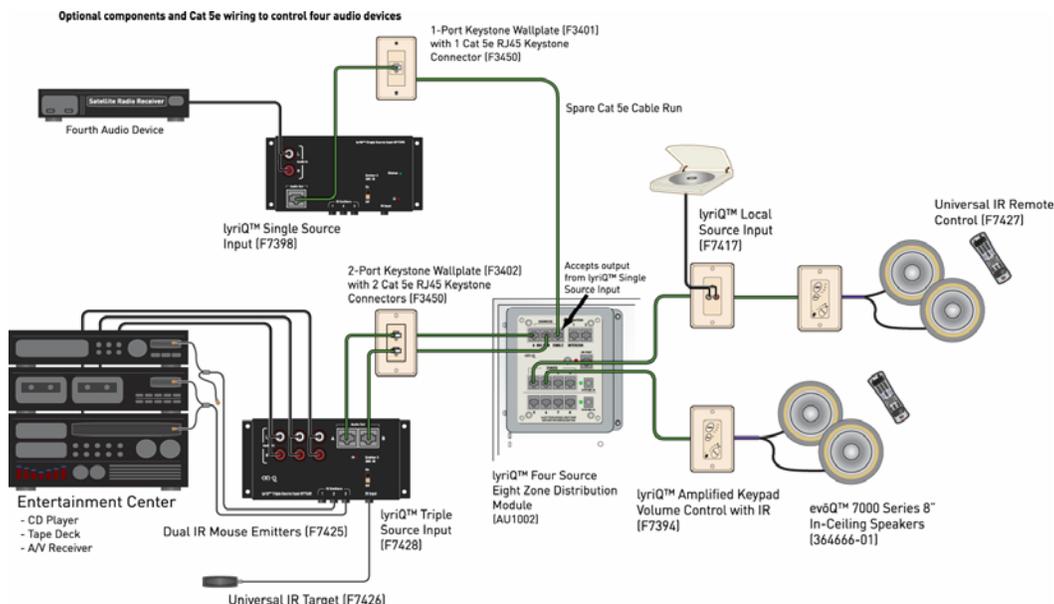


Figure 5

3. INSTALLATION

NOTE: Refer to Figure 5 on the prior page while performing the following installation:

- A. Run two Cat 5e cables from the lyriQ™ 4x8 Multi-Source Distribution Module in the Enclosure to the wall plate in the entertainment room or HECC.
- B. **OPTIONAL (RECOMMENDED)** - To provide ultimate flexibility for future products:
 - 1. Run a 16/2 or 16/4 speaker cable along with the Cat 5e cable from each output jack on the lyriQ™ 4x8 Multi-Source Distribution Module that will be connected to a lyriQ™ Volume Control.
 - 2. Run a third Cat 5e cable from the Enclosure to the wall plate in the entertainment room so that four sources can be accommodated by using one lyriQ™ Triple-Source Input Unit and one lyriQ™ Single-Source Input Unit.
- C. Locate the lyriQ™ Triple-Source Input Unit near the primary audio source - typically the entertainment center.
- D. Install an On-Q/Legrand Keystone Wall Plate Single Gang, 2-Port (P/N F3402) with 2 Category 5e RJ45 T568-A/B Keystone Connector (P/N F3450) on the wall near the entertainment center.

Note: The lyriQ™ Triple-Source Input's "A" and "B" Audio Out Cat 5 output jacks will connect to the lyriQ™ 4x8 Multi-Source Distribution Module's "A" and "B" Sources Cat 5 input jacks via two RJ45 jacks at the wall plate. Make sure to label the jacks and Cat 5 cables (used in the next step) accordingly.
- E. Punch down the Cat 5e cables to the RJ45 jacks at the wall plate.
- F. Terminate the Cat 5e cables at the Enclosure with RJ45 connectors.

Note: The lyriQ™ Triple-Source Input receives its power via the Cat 5 connections from the lyriQ™ 4x8 Multi-Source Distribution Module. Make sure the power supply is not connected to the lyriQ™ 4x8 Multi-source Distribution Module in the Enclosure.
- G. Plug the A and B Cat 5e cables into the lyriQ™ 4x8 Multi-Source Distribution Module's "A" and "B" Sources input jacks.

OPTIONAL - The lyriQ™ 4x8 Multi-Source Distribution Module has a third input jack labeled "Single" directly next to the "A" and "B" Sources, to which a lyriQ™ Single-Source Input Unit (P/N F7398) can be connected. Therefore the output from 4 different audio devices can be distributed throughout the house.

- H. Connect a pair of RCA interconnect cables from the line-level outputs of up to three audio devices to the Audio In jacks of the lyriQ™ Triple-Source Input.

Note: Connection to the source itself is recommended. If the source doesn't have two outputs, two "Y" cables can be used to share the source with the lyriQ™ system and an A/V receiver.

If the output of a receiver / preamplifier is to be used as well, ensure that a fixed output is used - such as a tape output - not a variable one such as a pre-amplifier output. If this is to be shared, two "Y" cables can again be utilized.

- I. If IR control is being used, plug the Dual IR Mouse Emitter into the one of the IR Emitter jacks on the lyriQ™ Triple-Source Input Unit and place them onto the IR receiver windows of the source equipment via the peel-away adhesive strip.

Note: With the Emitter 3 switch in the "ON" position, only 56 KHz is allowed to pass to the emitter. This is to accommodate some devices that operate on 56KHz frequencies from getting "confused" when they see frequencies other than 56 KHz, such as 38 KHz (most devices).

- J. If the Universal IR Target (P/N F7426) is being used, plug it into the IR Input jack on the lyriQ™ Triple-Source Input.
- K. Connect the lyriQ™ Triple-Source Input Unit's "A" and "B" Audio Out jacks to the "A" and "B" RJ45 jacks at the wall plate via a Cat 5e jumper cable such as the 36" (P/N 363201-30).
- L. Check all other system components and then power on the lyriQ™ 4x8 Multi-Source Distribution Module.
- M. Adjust the gain for each audio component to ensure a balanced level throughout the house.



INSTRUCTION / INSTALLATION SHEET

lyriQ™ Triple Source Input

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4. IMPORTANT SAFETY PRECAUTIONS

Read all instructions carefully before installing the lyriQ™ Triple-Source Input Unit.

Read the instructions that are included with all associated lyriQ™ Audio products before installing any single component. If you are unsure of any of the following installation procedures contact On-Q/Legrand Technical Support @ 1-800-321-2343 option 1 or contact an On-Q/Legrand installer.

- Do not attempt to service, move or change any component of the lyriQ™ Audio system unless you are qualified to do so.
- This system should be installed by a qualified installer and must conform to all local building and electrical codes.
- Do not apply power to the lyriQ™ Audio System until all components have been installed and all wiring has been properly terminated.
- Do not attempt to terminate, change or un-install any wiring without first turning off power at the lyriQ™ Audio System which is located in the Enclosure. Unplug the power transformer that is powering the lyriQ™ Audio System from the power outlet before proceeding with wiring terminations or changes.
- Install each component of this system away from heat sources such as HVAC ducts/registers, stoves or any other heat source.
- Do not expose any component that was designed for indoor use to moisture. Doing so can create electrical hazards or render the component unusable. Exposure to moisture will also void the warranty on the system.
- Only use a damp cloth to clean the cover plates of the system components. Do not use vacuum cleaners, liquid or aerosol cleaners.