INSTRUCTION / INSTALLATION SHEET
lyriQ™ Triple Source Input

301 Fulling Mill Road, Suite G
Middletown, PA 17057
Phone (800) 321-2343 / Fax (717) 702-2546
www.onqlegrand.com

IS-0418 Rev. O

1. INTRODUCTION

The On-Q/Legrand lyriQ™ Triple-Source Input (P/N AU7428) 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 Category 5 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 Category 5 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.

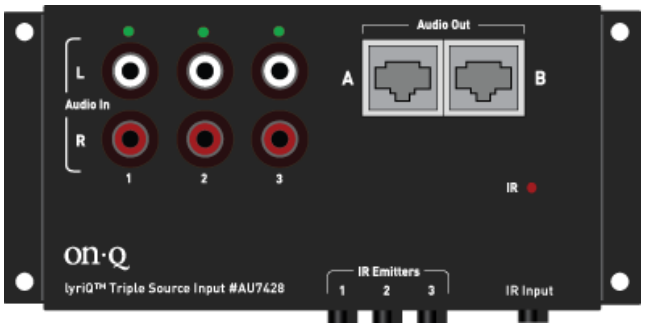
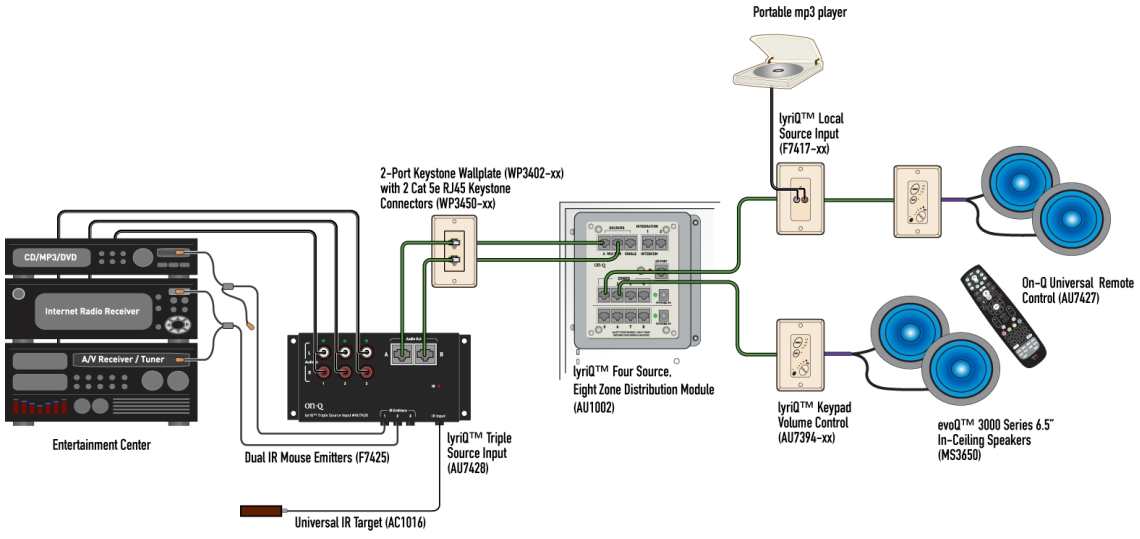


Figure 1

2. DESCRIPTION

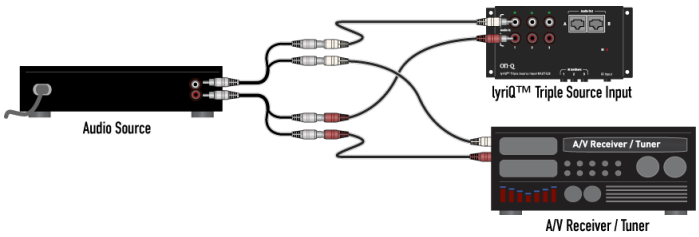
The lyriQ™ Triple-Source Input typically resides at the entertainment center (see ***Figure 2***). It accepts stereo line level audio via three sets of Left/Right RCA jacks, and transmits the audio via two Category 5 cable runs to a centrally-located, enclosure-mounted lyriQ™ Four Source, Eight-Zone Distribution Module (P/N AU1002). The distribution module then distributes the audio, also via Category 5 cable, to lyriQ™ Amplified Keypads (P/N AU7394-xx or AU5009-xx for Studio version) or lyriQ™ High Performance Keypads (P/N AU1000-xx or AU5010-xx for Studio version) 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.

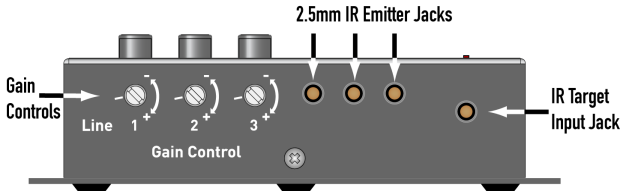

Figure 4

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.

- Three 2.5mm IR jacks on the lyriQ™ Triple Source Input allow for remote control of source audio components from any room in the house with a lyriQ™ Amplified Keypad or High Performance Keypad. 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 AC1016), all system components can be controlled behind closed doors at the entertainment center. In most other 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 also using a lyriQ™ Single Source Input (P/N AU7398) along with the Triple-Source Input. Plan ahead for this by running a third Category 5 cable from the Enclosure to the room containing the fourth source audio equipment (see ***Figure 5***).
- Optionally, the lyriQ™ Local Source Input (P/N F7417 or AU5008-xx for Studio Local Source Input) 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.

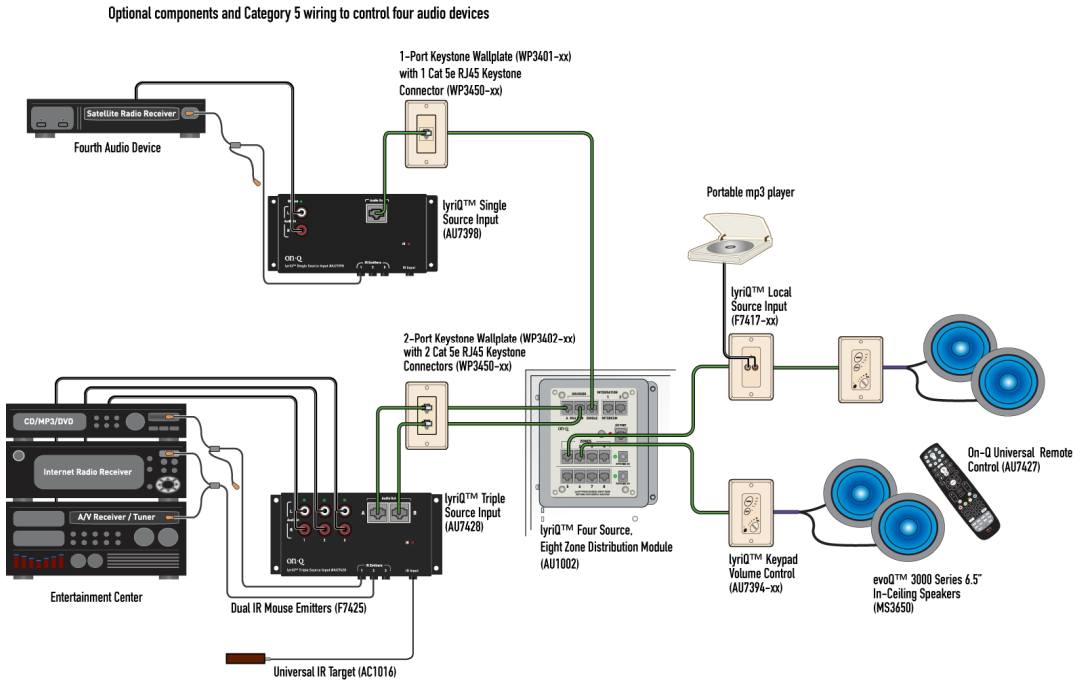

Figure 5

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3. INSTALLATION

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

A. Run two Category 5 cables from the lyriQ™ Four Source, Eight-Zone Distribution Module in the Enclosure to the wall plate in the entertainment room or HECC.

NOTE: Maintain a minimum 12" separation between Category 5 cable and any 120VAC cabling. NOTE: Always follow TIA-570-B wiring standards for installing and terminating Category 5 cable. Failure to follow the correct wiring standard could result in damaged equipment and/or electrical interference issues.

B. **OPTIONAL (RECOMMENDED)** - To provide ultimate flexibility for future products:

1. Run a 16/4 speaker cable along with the Category 5 cable from each output jack on the lyriQ™ Four Source, Eight-Zone Distribution Module that will be connected to a lyriQ™ Volume Control.
2. Run a third Category 5 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 and one lyriQ™ Single-Source Input.

C. Locate the lyriQ™ Triple-Source Input near the primary audio source - typically the entertainment center.

D. Install an On-Q/Legrand Keystone Wall Plate Single Gang, 2-Port (P/N WP3402-xx) with 2 Category 5 RJ45 T568-A/B Keystone Connectors (P/N WP3450-xx) on the wall near the entertainment center.

NOTE: The lyriQ™ Triple-Source Input's "A" and "B" Audio Out Category 5 output jacks will connect to the lyriQ™ Four Source, Eight-Zone Distribution Module's "A" and "B" Sources Category 5 input jacks via two RJ45 jacks at the wall plate. Make sure to label the jacks and Category 5 cables (used in the next step) accordingly.

E. Punch down the Category 5 cables to the RJ45 jacks at the wall plate.

F. Terminate the Category 5 cables at the Enclosure with RJ45 plugs.

NOTE: The lyriQ™ Triple-Source Input receives it's power via the Category 5 connections from the lyriQ™ Four Source Eight-Zone Distribution Module. Make sure the power supply is not connected to the lyriQ™ Four Source, Eight-Zone Module in the Enclosure during these termination steps.

G. Plug the A and B Category 5 cables into the lyriQ™ Four Source, Eight-Zone Distribution Module's "A" and "B" Sources input jacks.

OPTIONAL - The lyriQ™ Four Source, Eight-Zone Distribution Module has a third input jack labeled "Single" directly next to the "A" and "B" Source jacks, to which a lyriQ™ Single-Source Input (P/N AU7398) can be connected. This option provides support for a total of 4 different audio devices that can then 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 (see *Figure 3*). 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 and place them onto the IR receiver windows of the source equipment via the peel-away adhesive strip.

J. If the Universal IR Target (P/N AC1016) 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™ Four Source, Eight-Zone Distribution Module.

M. Adjust the gain for each audio component to ensure a balanced level throughout the house.

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4. IMPORTANT SAFETY PRECAUTIONS

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 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 are installed and wiring has been properly terminated.
- Do not attempt to terminate, change or un-install any wiring without first turning off power to the lyriQ™ Audio System located in the Enclosure. Unplug the power to 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.
- Do not use vacuum cleaners, liquid or aerosol cleaners to clean system cover plates. A damp cloth may be used.

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