



Home Theater Direct

Lync

Owner's Manual

Home Theater Direct

Toll free: 866-HTD-AUDIO (483-2834)
www.htd.com
info@htd.com

Safety instructions for the Lync

Warning - To reduce the risk of fire or shock, do not expose this appliance to rain or moisture.

Caution - To reduce the risk of fire or shock, do not remove the cover or back. No user serviceable parts inside.
Refer servicing to qualified service personnel.

Caution - To prevent electric shock, match wide blade of plug to wide slot, fully insert.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.



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 this appliance.



Read Instructions

All the safety and operating instructions should be read before the appliance is operated.

Retain Instructions

The safety and operating instructions should be kept for future reference.

Heed Warnings

All of the warnings on the appliance and in the operating instructions should be adhered to.

Follow Instructions

All operating and use instructions should be followed.

Water and Moisture

The appliance should not be used near water. For example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

Ventilation

The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings. Never place the appliance in a confined space such as a bookcase, or built-in cabinet, unless proper ventilation is provided.

Heat

The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances that produce heat. Position the appliance at least 4" away from any heat-producing amplifier, including HTD amplifiers.

Power Sources

The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

Grounding or Polarization

Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

Lightning

Unplug this device during lightning storms.

Power Cord Protection

Route the power cord so that it is not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the plugs, receptacles, and the point where the cord exits from the appliance.

Cleaning

Unplug the appliance from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a cloth lightly dampened with water for cleaning the exterior of the appliance only.

Non-Use Periods

The power cord of the appliance should be unplugged from the outlet when left unused for long periods of time.

Object and Liquid Entry

Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

Damage Requiring Service

The appliance should be serviced by qualified personnel when:

- a) the power supply cord or the plug has been damaged
- b) objects have fallen, or liquid spilled into the appliance
- c) the appliance has been exposed to rain
- d) the appliance does not appear to operate normally or exhibits a marked change in performance or
- e) the appliance has been dropped, or the enclosure damaged

Servicing

The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Product Servicing

If your system fails to operate properly, please contact HTD directly for further assistance at 1-866-483-2834.

Additional information, including detailed specifications for each model, can be found on our website, www.htd.com. Thanks again for choosing Home Theater Direct!

Warranty

All HTD electronics carry a two-year parts and labor warranty. Warranty registration occurred automatically at the time your order was placed. There is no need to complete or mail in additional paperwork.

Owner's Manual

Introduction to Lync

At HTD, our goal with whole-house audio is to design and manufacture systems that are performance rich, yet easy to install and easy to use. With the new Lync™, we make listening to all of the audio components spread throughout your home convenient and simple. Satellite radio in the dining room, a sporting event in the game room, an iPod in your bedroom, and your music library everywhere else- regardless of the source, Lync™ makes distributing audio throughout your home an affordable reality.

In addition to 6 centrally located sources, with Lync™ one source (your phone, music player, TV, etc.) can also be plugged in within every zone for a total of 12 sources available to all zones. Sources are accessed via a LyncPad (keypad) installed in every zone via Cat5 or Cat6 cable.

Also with Lync™, music is available 24/7. Lync™ includes a built-in MP3 player that is always available with your favorite songs stored on a USB thumb drive. The MP3 player can be accessed and controlled from every LyncPad.

And if this wasn't enough, the new Lync™ system includes a full-featured intercom that allows for global and zone-to-zone calling.

Other systems of this caliber can only be purchased through an installer or dealer. HTD is different. Lync is only sold direct to consumers by us, the manufacturer. Buying direct not only saves you a lot of money, but it also gives you access to the people most knowledgeable about this system.

This owner's manual is designed to get you quickly up and running with your new system. Lync is designed to be simple enough that once the Cat5 (or Cat6) and speaker cable is in place, installation is a breeze. Should you have any questions, we are available by phone, toll free 866-HTD-AUDIO (866-483-2834) M-F 8am-6pm, and by email at info@htd.com.

Quick Setup

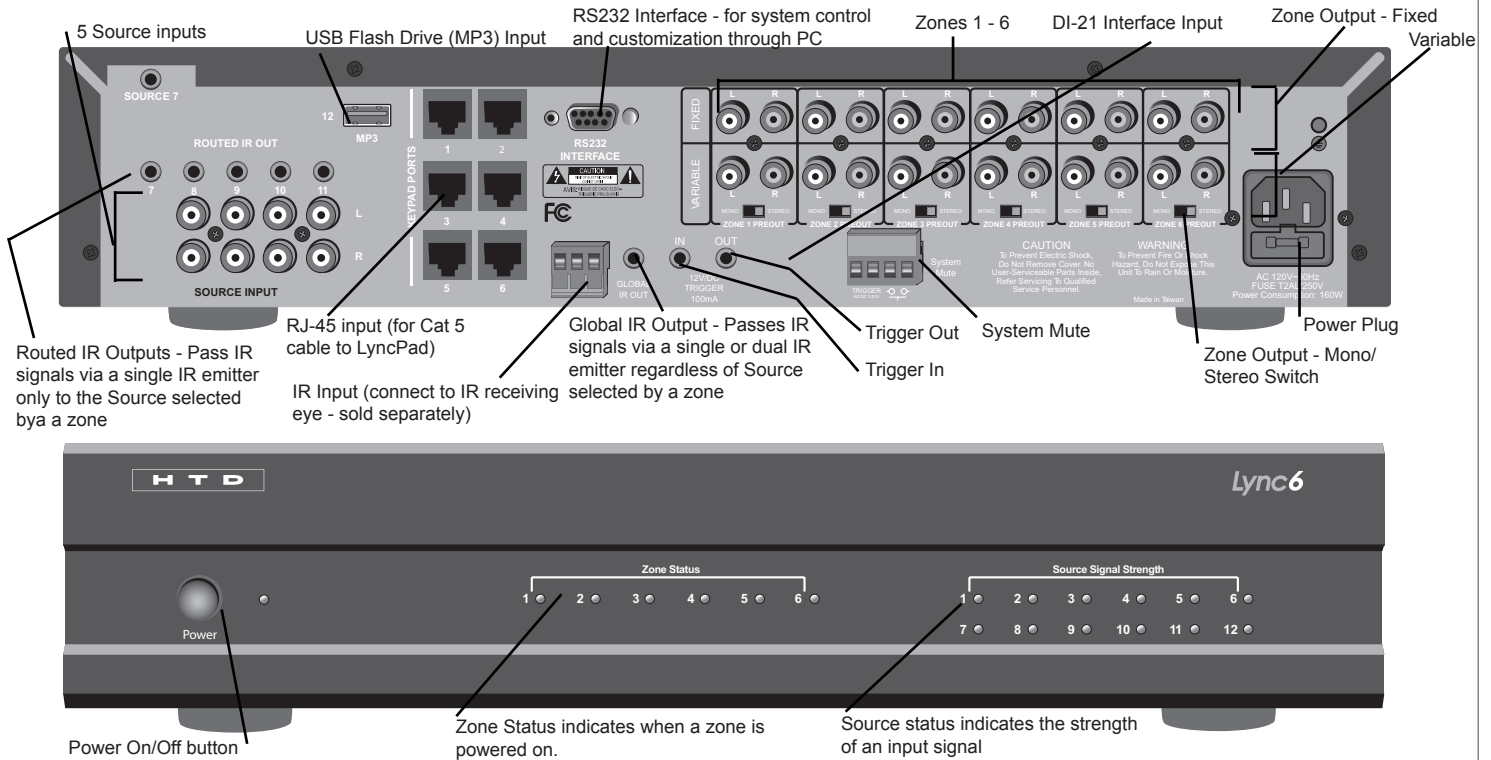
For most installations, the following steps will get you up and running quickly. Please read the balance of this owner's manual for further explanation as well as additional connection options that help you customize the system to your particular situation.

- 1.) Make sure the multi-channel amplifier and Lync controller are powered off
- 2.) Connect all LyncPads to the Lync controller via Cat5 or Cat6 cable that is properly terminated with RJ-45 connectors
- 3.) Connect all speakers to the multi-channel amplifier
- 4.) Set the multi-channel amplifier to Trigger On and connect the trigger cable (short mono 3.5mm patch cable) from the Trigger Out on the Lync controller to the Trigger In on the multi-channel amplifier
- 5.) Connect stereo RCA patch cables from the Variable Outputs on the Lync controller for each zone to the RCA Line Inputs on each channel of the multi-channel amplifier, i.e. Zone 1 Variable Out to Ch 1 and 2 on the multi-channel amp; Zone 2 Variable Out to Ch 3 and 4; Zone 3 Variable Out to Ch 5 and 6 . . . Zone 6 Variable Out to Ch 11 and 12.
- 6.) Confirm that all of the "1 2 Line" switches on the multi-channel amplifier are set to "Line"
- 7.) Connect one audio source into the Source 7 Input (Lync6) or Source 13 Input (Lync12) on the back of the Lync controller and power on this source.
- 8.) Power on the Lync Controller
- 9.) Power on the Multi-Channel Amplifier (it will be in "sleep" mode until a LyncPad is powered on)
- 10.) Check the front of the Lync Controller to confirm that the green signal strength indicator light is on for Source 7. Note that this light intensity will vary with the strength of the source input.
- 11.) Power on the LyncPad in Zone 1. This will cause the multi-channel amplifier to trigger out of sleep mode. Confirm that the blue light for Zone 1 on the front of the Lync controller is lit. The blue light will be lit whenever a LyncPad in that zone is powered on.
- 12.) Go back to the LyncPad and select Source 7 (Lync6) or Source 12 (Lync12) to begin enjoying audio in your home!

NOTE: It is best not to connect and disconnect a LyncPad while the Lync controller is powered on. The Lync controller will only recognize a LyncPad that is installed when the Lync controller is first powered on.

Product Features

Lync 6 Controller



Included with Lync 6

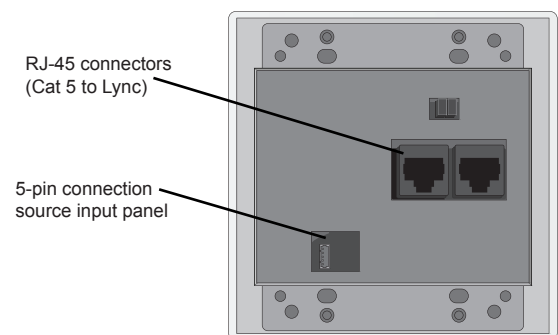
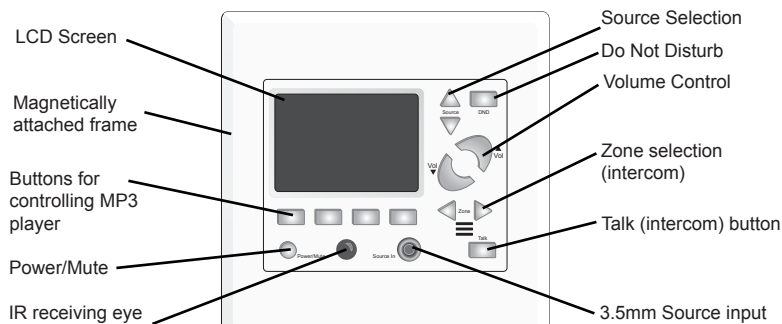
(6) Shielded Stereo Patch Cable (3 feet long)
(for connecting each zone to the multi-channel amplifier)

(1) 3.5mm (mono) trigger cable



(1) Power cord

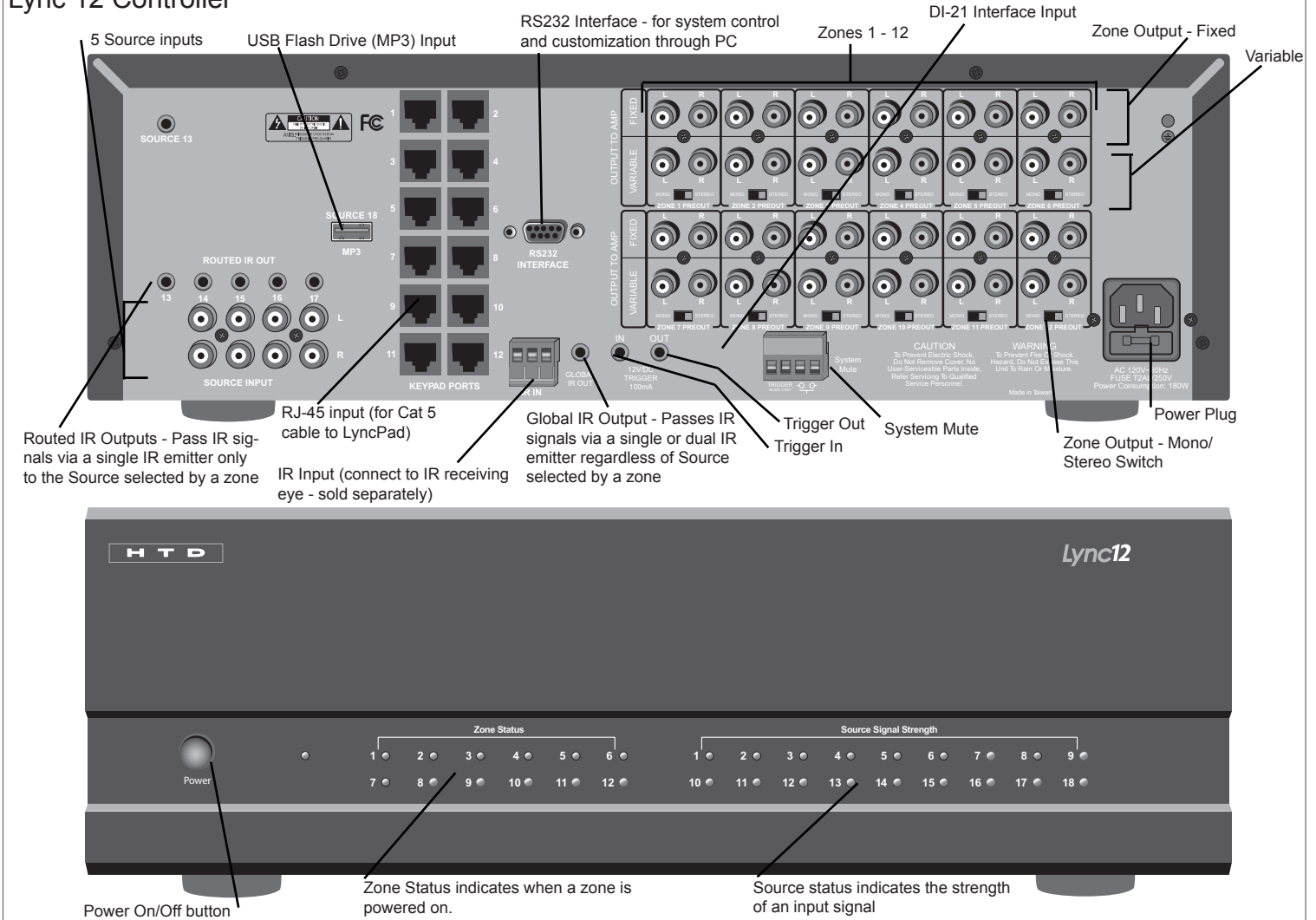
LyncPad



NOTE: The LyncPads are connected to the Lync using Cat5e cable (Cat5, or Cat6 will also work and can be used in place of Cat5e throughout this manual) with RJ-45 connections at both ends.

Product Features (cont.)

Lync 12 Controller



Included with Lync 12

(12) Shielded Stereo Patch Cable (3 feet long)
(for connecting each zone to the multi-channel amplifier)

(1) 3.5mm (mono) trigger cable

(1) 2.5mm to 3.5mm (mono) trigger cable

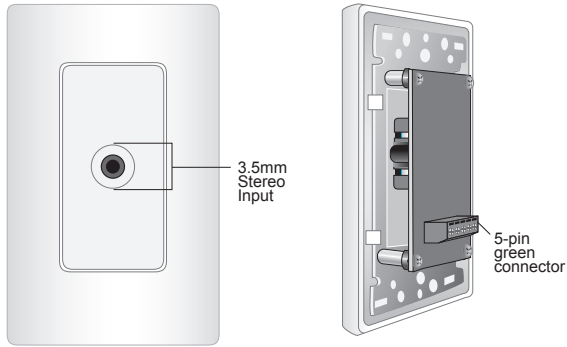


(1) Power cord

Product Features *(cont.)*

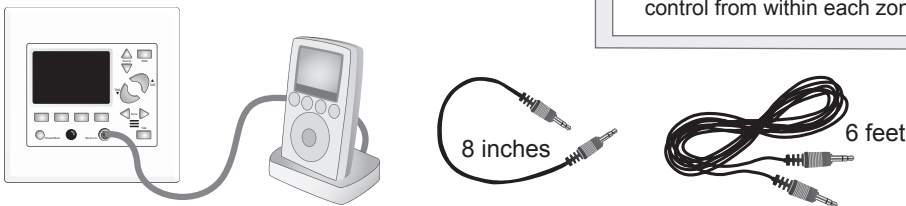
Sold Separately

Source Input Panel *

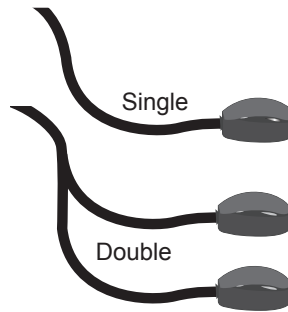


3.5mm to 3.5mm Cables

For connecting an MP3 player, iPod®, etc. to 3.5mm input.



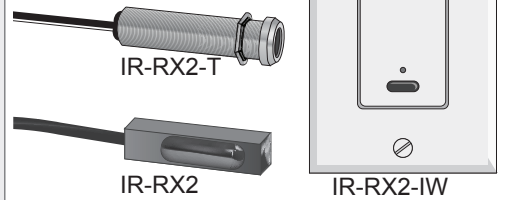
IR Emitters IR-TX2-M



Connect emitter(s) to the Lync and place in front of other components that you want to control from within each zone.

IR Receiving Eyes

Allows you to control audio components located near the Lync system, even when hidden inside of a cabinet or closet.



Point at any LyncPad to select the source and to control the volume level in that zone.

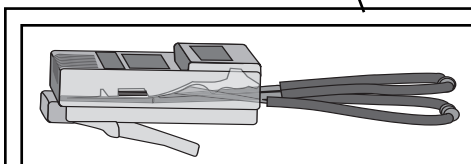
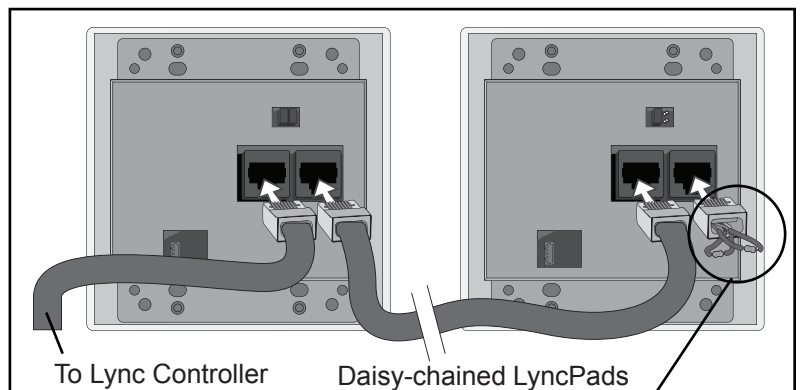
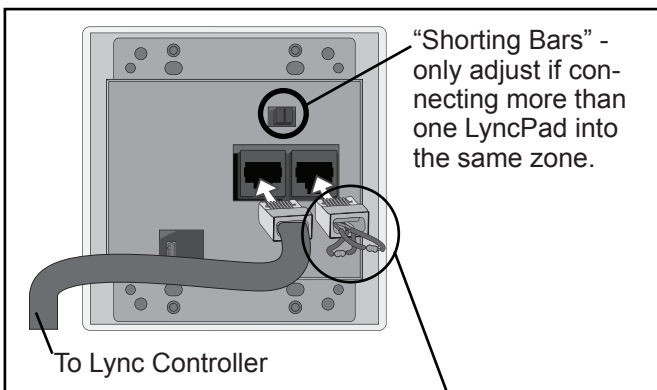


*30 foot, 3-conductor cable included for connecting the Source Input Panel to the back of LyncPad. Adapters sold separately for using Cat5 in place of this cable.

Connecting the LyncPad

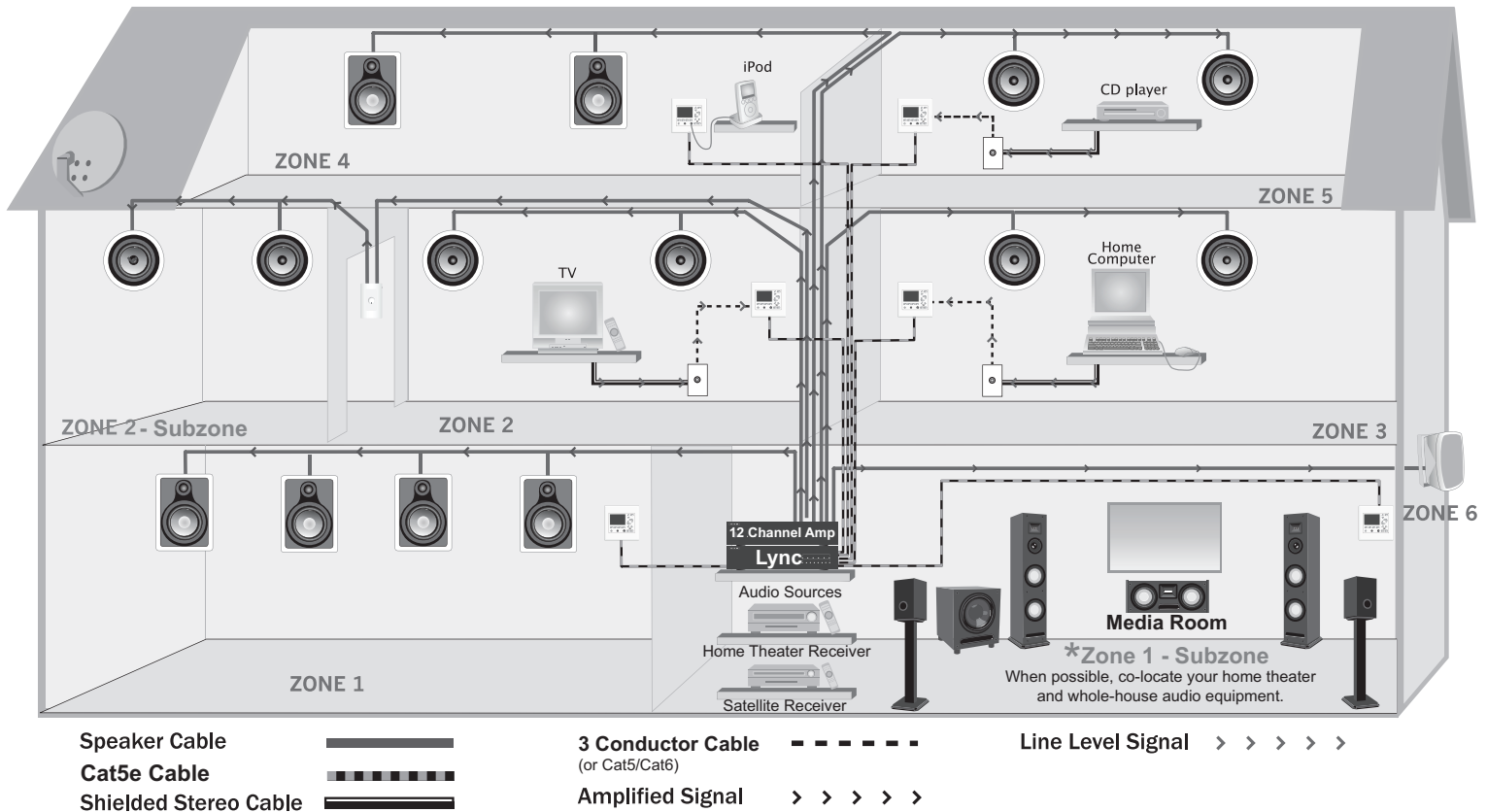
Connect a properly terminated Cat5 or Cat6 cable to either of the two RJ-45 ports on the back of the LyncPad. The “multi-LyncPad terminator” (included with the LyncPad) can be plugged into the other RJ-45 port or left out. The “terminator” is only **REQUIRED** when more than one LyncPad are connected to the same zone. For large zones, it is possible to daisy-chain up to four LyncPads into the same zone. When doing this, you **MUST** insert the terminator in the last LyncPad in order for the 3.5 mm inputs to work properly. Please note that a maximum of 12 LyncPads can be connected to a single Lync 6 controller; a maximum of 24 LyncPads to the Lync 12.

When connecting more than one LyncPad into the **SAME** zone, each LyncPad must also have a unique combination of shorting bars installed. Each LyncPad includes 2 shorting bars already installed- this represents one of the four possible combinations. Removing only the left shorting bar is a second combination; removing only the right is a third; and removing both shorting bars is a fourth combination. When more than one LyncPad is installed into the same zone, an adjustment to any one LyncPad will automatically be “mirrored” by the other LyncPads.

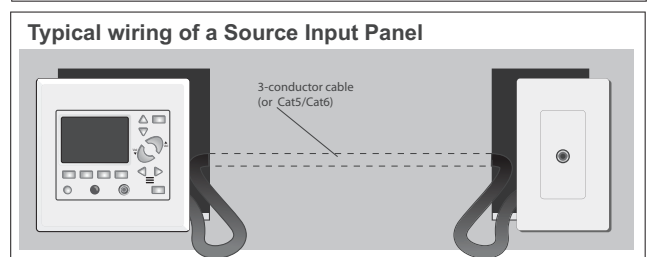
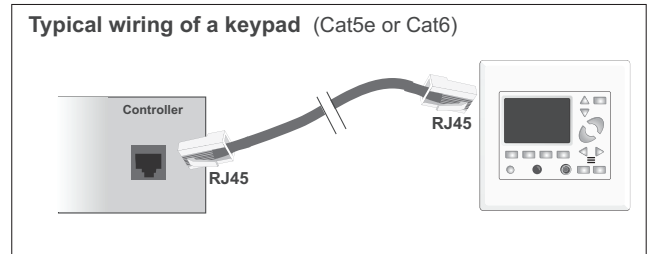
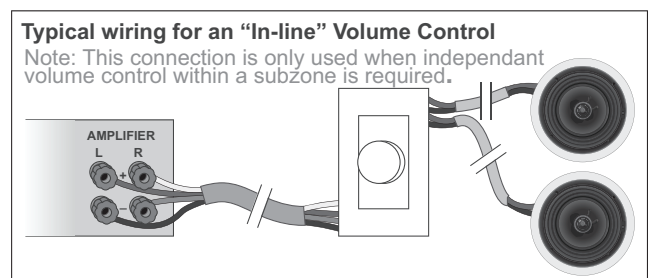
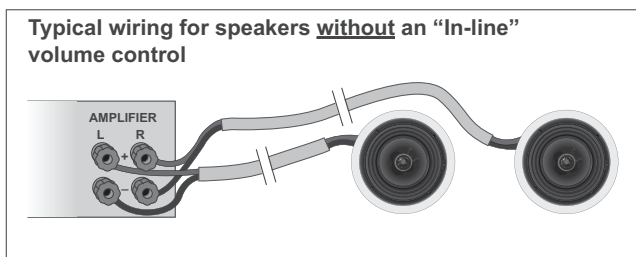
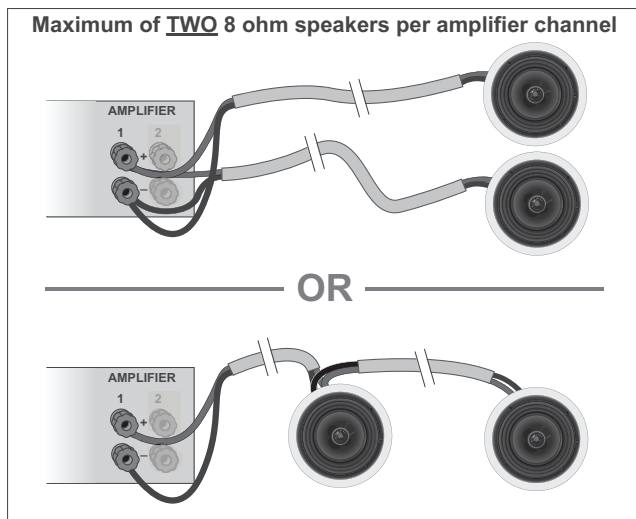


RJ45 multi-LyncPad “terminator” - only **REQUIRED** when connecting more than one LyncPad into the same zone. However, it is **OKAY** to install it in whichever RJ45 terminal is not being used by the Cat5 or Cat6 cable connecting the LyncPad to the Lync controller.

Wiring Your Home for the Lync System

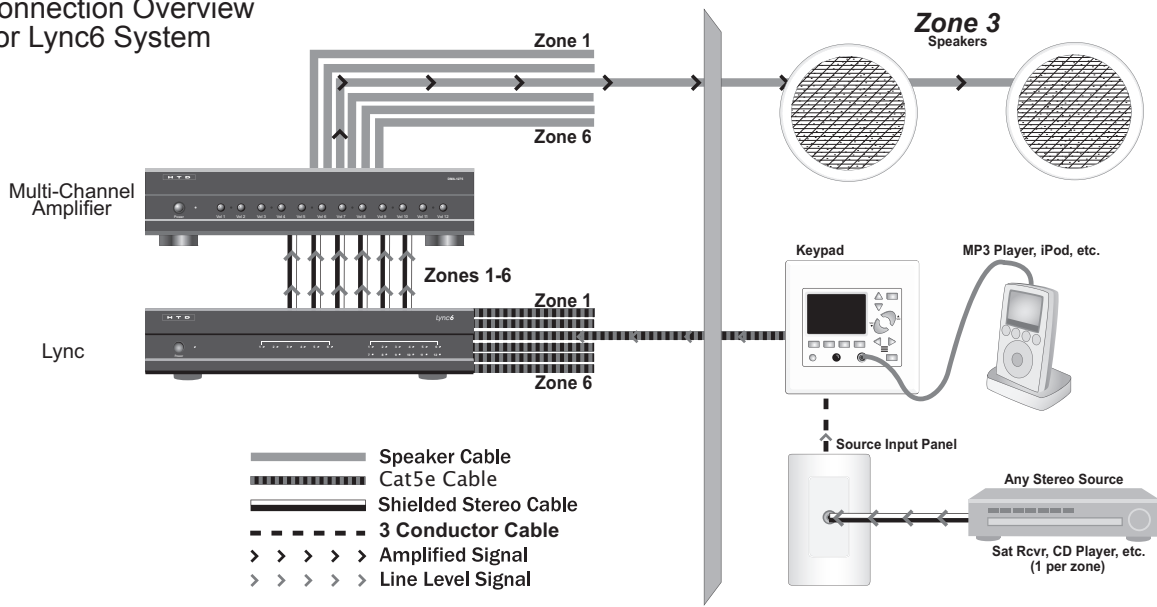


*A room with surround sound (i.e. 5.1 or 7.1) will require a home theater receiver which has its own built-in amplification and multiple source inputs. For this reason, it is not typically set up as a zone on the whole-house audio system. However, it is possible to connect a zone on the Lync to output to a stereo input on the home theater receiver. In this arrangement, you use the amps in the home theater receiver to power the zone (or subzone) instead of using two channels on the multi-channel amplifier. It is also possible for sources connected to the home theater receiver to be shared with the whole-house system. For these two reasons, it is often a good idea to establish your central location in close proximity to the home theater receiver.

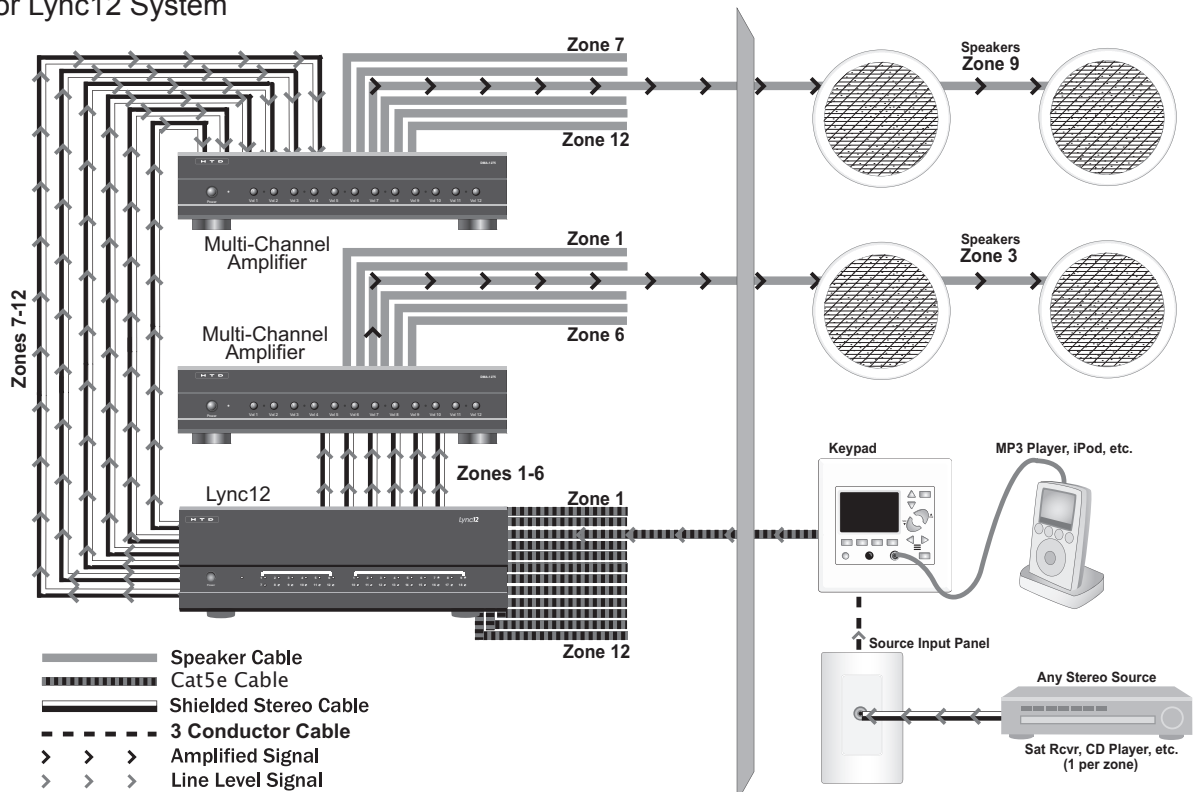


How to Connect

Connection Overview For Lync6 System



Connection Overview For Lync12 System



Think of the Lync as the brain of the system. Based on information received from the LyncPads (or PC interface), it determines what source to play into each zone and the volume level to be sent to the amplifier.

LyncPad Connections (see page 8)

The LyncPads are connected to the Lync using Cat5e cable (Cat5, or Cat6 will also work and can be used in place of Cat5e throughout this manual) with RJ-45 connections at both ends. Up to four LyncPads can be “daisy-chained” together with Cat5e cable within the same zone, with a maximum of 12 LyncPads for the entire system.

Source Input Panel Connections (see page 8)

Although each LyncPad includes a 3.5mm (1/8”) source input jack on the front for convenience, you may find it more practical

How to Connect *(CONT.)*

to connect a source input panel to a LyncPad within each zone. The source input panel provides standard stereo RCA-type connections for connecting most audio components such as DVD players, CD players, iPods, TVs, VCRs and even computers. The source input panel can be located almost anywhere in the zone.

Amplifier Connections (see pages 9-10)

Both variable and fixed stereo line-level outputs are provided on the Lync controller for every zone. In most cases, you will use the variable outputs to connect the Lync controller to a multi-channel amplifier in order to control the volume level within a zone from the LyncPad. Use the fixed outputs when you want the volume to be controlled from a separate, more traditional rotary or slide-type volume control. This is often the case when establishing "sub-zones". A sub-zone is an area that has independent volume control but that is forced to listen to the source selected by the LyncPad in the primary zone. As an example, you might have a kitchen and dining area that are located side-by-side. In this case, you will often choose to have the kitchen be the primary zone with volume controlled by the LyncPad, and the dining area's volume controlled by a more traditional rotary or slide-type volume control. Depending on your situation, you may or may not need to add more amplifier channels than that already provided by the multi-channel amplifier. Please contact HTD for assistance with more complicated setups.

Speaker Connections

Speakers are connected directly to the amplifier using speaker cable. For all behind-the-wall installations, CL3-rated cable is recommended to comply with most building codes.

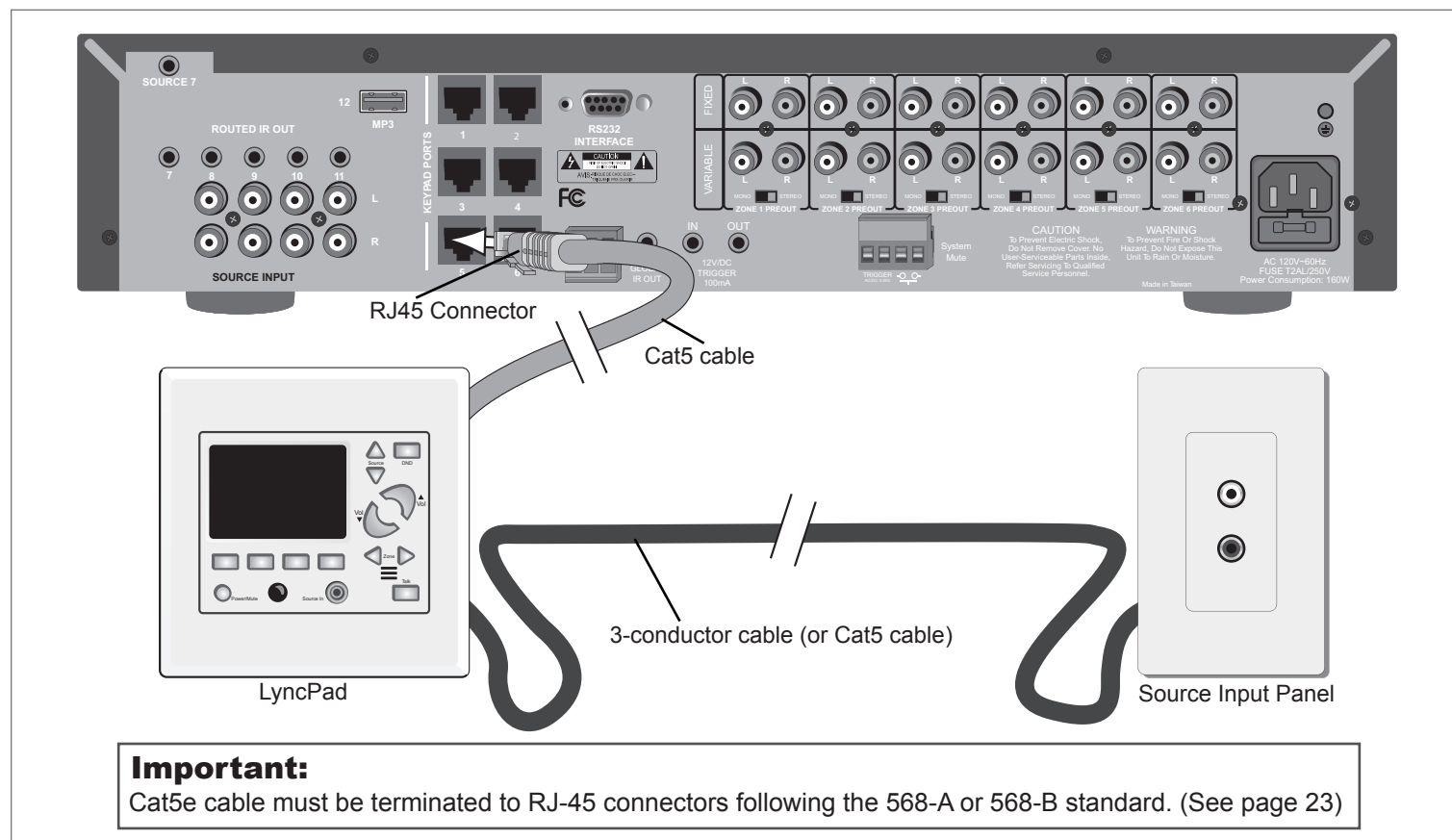
Audio Component Connections (see page 13)

Any audio component with a stereo analog RCA-type output can be connected directly to one of the 5 Source Inputs located on the back of the Lync using RCA-type shielded stereo patch cables (not included).

Trigger Out

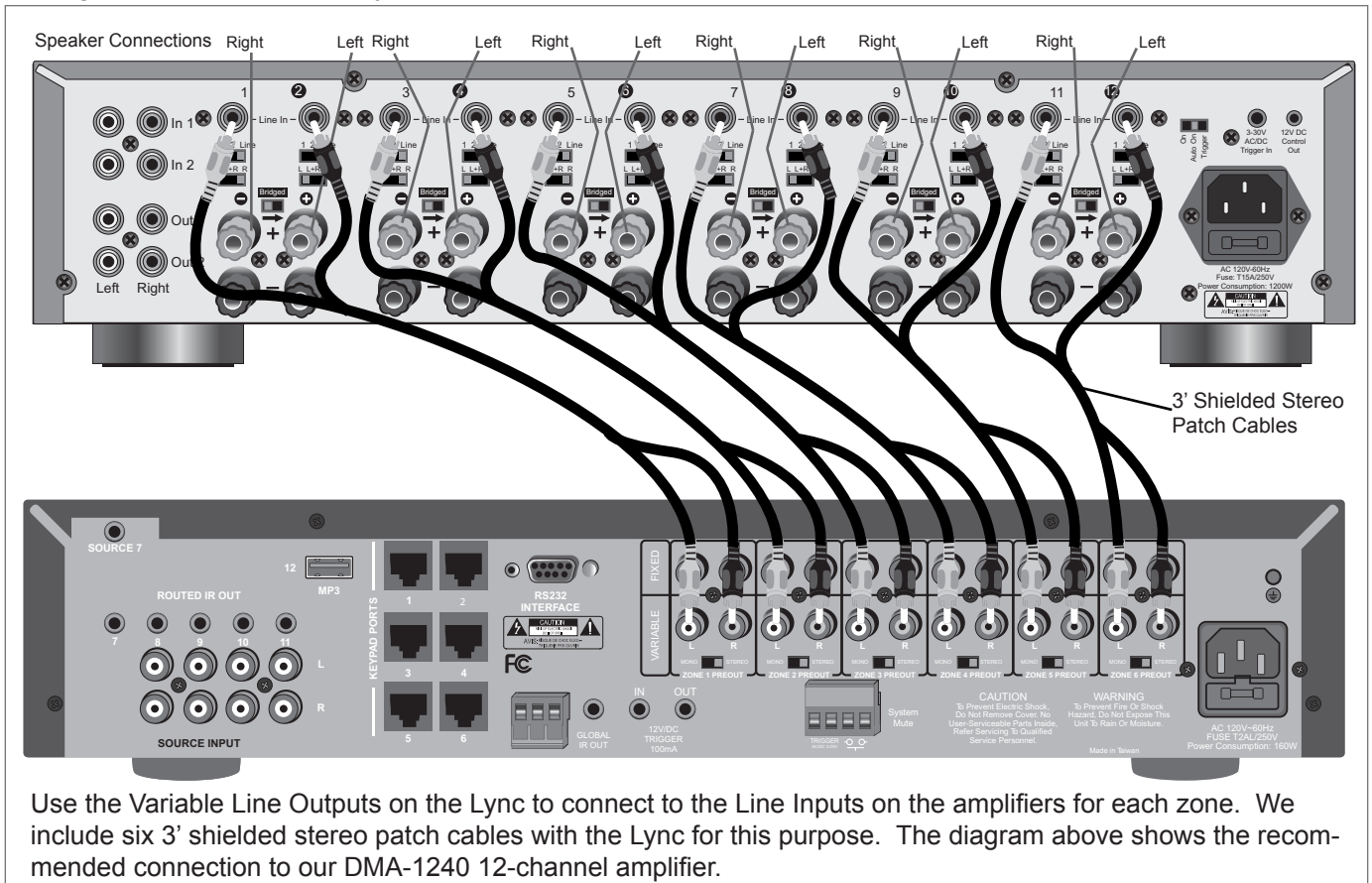
Use the trigger output to automatically power up an external device with a low voltage trigger input whenever a LyncPad is powered on. It is often a good idea to connect the Trigger Out to the Trigger In on the external multi-channel amplifier using a mono patch cable with 3.5 mm connectors. For your convenience, one is included with the Lync controller. That way, the multi-channel amplifier will only be powered up when a LyncPad is active. Once all LyncPads have been powered off, the multi-channel amplifier will return to sleep mode.

Connecting a LyncPad & Optional Source Input Panel



How to Connect (CONT.)

Connecting The Amplifier to the Lync6



Amplifier Settings

Two side-by-side amplifier channels are used for each zone. One side is set to amplify the Right channel of a stereo signal and the other side is set to amplify the Left side of a stereo signal. In our diagram, channel 1 is set to amplify the Right channel and channel 2 is set to amplify the Left channel for the speakers in Zone 1.

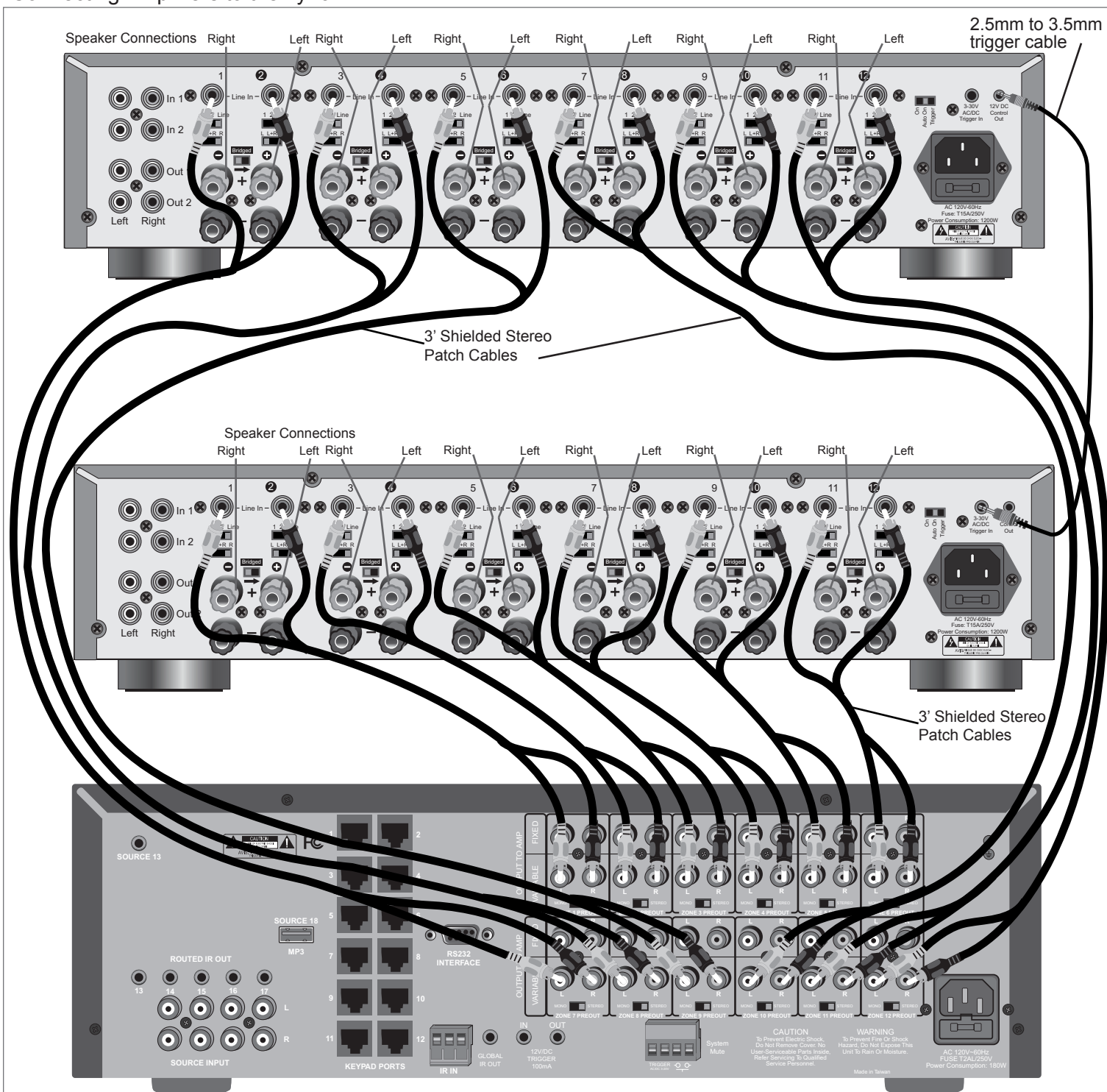
Level: Our multi-channel amplifiers include separate level knobs for each channel. Turn the rotary Level knob clockwise to increase the power output of each channel. In most cases, setting this knob around the 2:00 position will achieve the amplifier's maximum rated power output level. You can artificially add gain to a weak line level input signal by turning this level beyond this point, but in most cases it is not necessary and not recommended. **Best Practice:** with the Level knob all the way down (counter-clockwise), set the LyncPad volume level to 60 (max). Next, using a strong input signal (such as from a DVD player or TV set-top box), have a friend slowly adjust the Level knob(s) up (clockwise) until the volume level in the zone is as loud as you would ever want it. Leave the Level knob at this setting. This is the most efficient way to operate your amplifier and also prevents a zone from accidentally operating at too loud of volume.

Input Selection Switch: Set to "Line".

L, L+R, R Switch: When the "Line" input is used, this switch is inactive so the setting is irrelevant. However, you might want to set odd numbered channels to Right (R) and even channels to Left (L) just to make it easier to recall which Line Output from the Lync is being sent to each channel.

How to Connect (CONT.)

Connecting Amplifiers to the Lync12



Use the Variable Line Outputs on the Lync to connect to the Line Inputs on the amplifiers for each zone. We include twelve 3' shielded stereo patch cables with the Lync12 for this purpose. The diagram above shows the recommended connection to two of our DMA-1240 12-channel amplifiers.

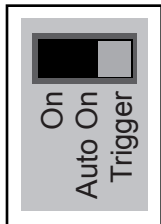
See Trigger info (page 11)

How to Connect *(CONT.)*

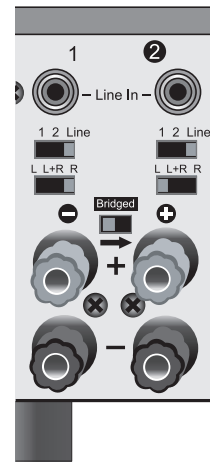
Amplifier Settings (cont.)

Bridge Switch: Since you are not bridging the two channels, make sure the Bridge Switch is off (far left position). See the owner's manual for the amplifier for instructions on bridging adjacent channels to achieve even higher power when necessary.

Caution: Incorrect use of “Bridging” can cause damage to the amplifier. Contact HTD Support for help with Bridging. (See Box Below)



On - Auto On - Trigger Switch: Setting this switch to “Trigger” is best when using the Lync with an HTD multi-channel amplifier. A **mono** 3.5mm patch cable should be connected from the Trigger Out on the Lync to the Trigger In on the multi-channel amplifier. The “trigger” is only active when a LyncPad is powered on which means the multi-channel amplifier is only active when a LyncPad is on. When all LyncPads are off, the multi-channel amplifier will automatically return to sleep mode.



WARNING: The six (6) recessed switches labeled “Bridged” on the back of the multi-channel amplifier are factory pre-set in the left, Non-Bridged position. They are recessed and pre-set for a very important reason – Because improper use can damage the amplifier.

Bridging is NOT used to create a mono signal from a stereo signal. Typical use of the multi-channel amplifier does NOT require Bridging of channels. If Bridging is improperly used, it could result in permanent damage to the amplifier, your volume controls and your speakers. DO NOT change the Bridge switches without FIRST contacting HTD at 1-866-483-2834 or support@HTD.com

Damage resulting from improper use of Bridging may not be covered by the HTD Warranty.

Lync6 Trigger Connection:

NOTE: MAKE SURE BOTH THE AMPLIFIER AND CONTROLLER ARE “OFF”. DO NOT CONNECT OR DISCONNECT THIS CABLE WITH THE AMPLIFIER OR CONTROLLER “ON”.

Connect the included 3.5mm mono cable from the Trigger Output on the Lync Controller to the Trigger Input on the DMA-1240 or DMA-1275 and then set the three position switch next to the trigger input on the amplifier to the “Trigger” position.

Lync12 Trigger Connection:

NOTE: MAKE SURE BOTH THE AMPLIFIER AND CONTROLLER ARE “OFF”. DO NOT CONNECT OR DISCONNECT THIS CABLE WITH THE AMPLIFIER OR CONTROLLER “ON”.

Connect the included 3.5mm mono cable from the Trigger Output on the Lync Controller to the Trigger Input on the first DMA-1240 or DMA-1275. Connect the included 2.5mm to 3.5mm mono cable from the trigger output on the same DMA-1240 or DMA-1275 amplifier to the trigger input on the second DMA-1240 or DMA-1275 amplifier. Set the three position switch next to the trigger input on both amplifiers to the “Trigger” position.

How to Connect (CONT'D)

Connecting Sources to the Lync System

Source input locations are conveniently located throughout your home!

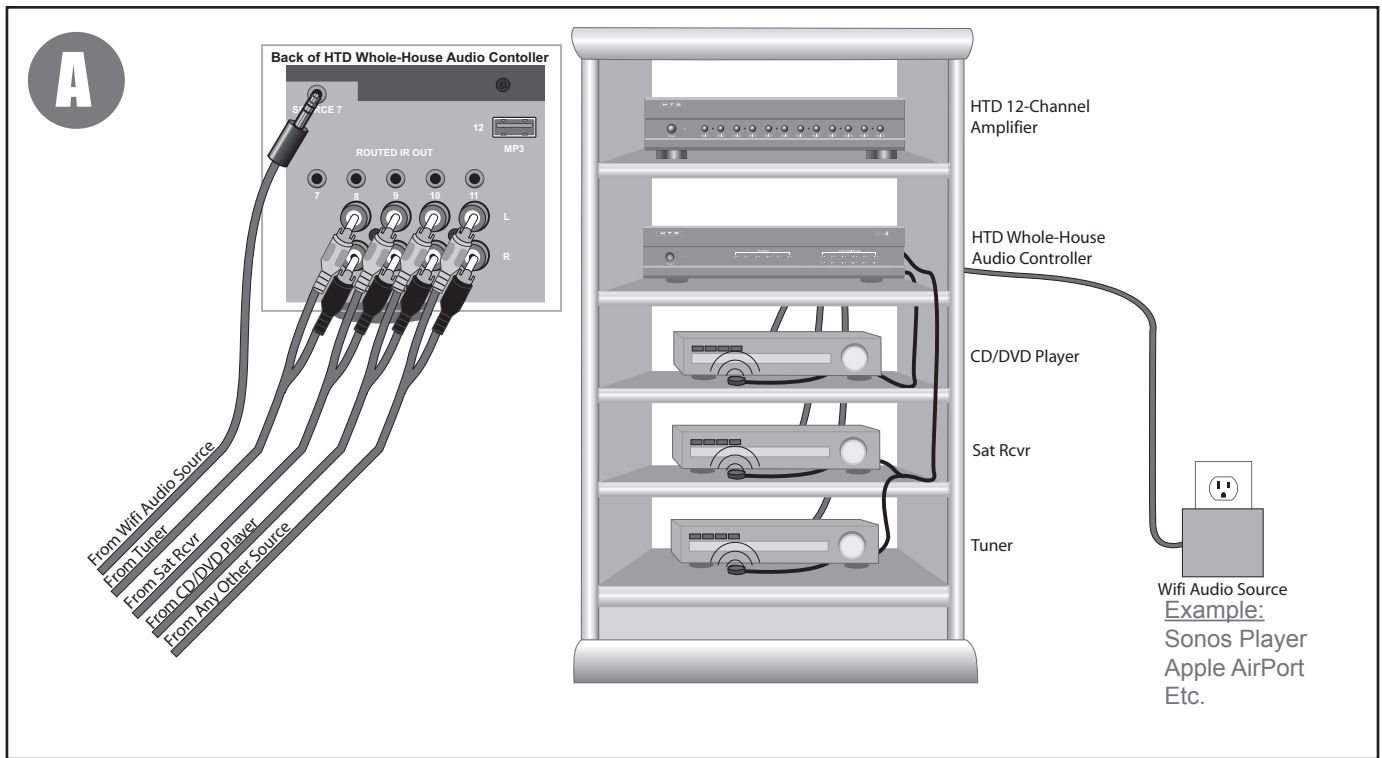
Most whole-house audio systems require all of your components to be located in one centralized area. Lync is different! From any LyncPad, you can choose to listen to audio sources located not only in the central area, but also sources located throughout your home. This page displays three ways to get audio into the Lync system: A) connect directly to the Lync controller, B) connect directly to a LyncPad, and C) connect to a LyncPad via an optional Source Input Panel.



A) Control up to six centrally located devices.

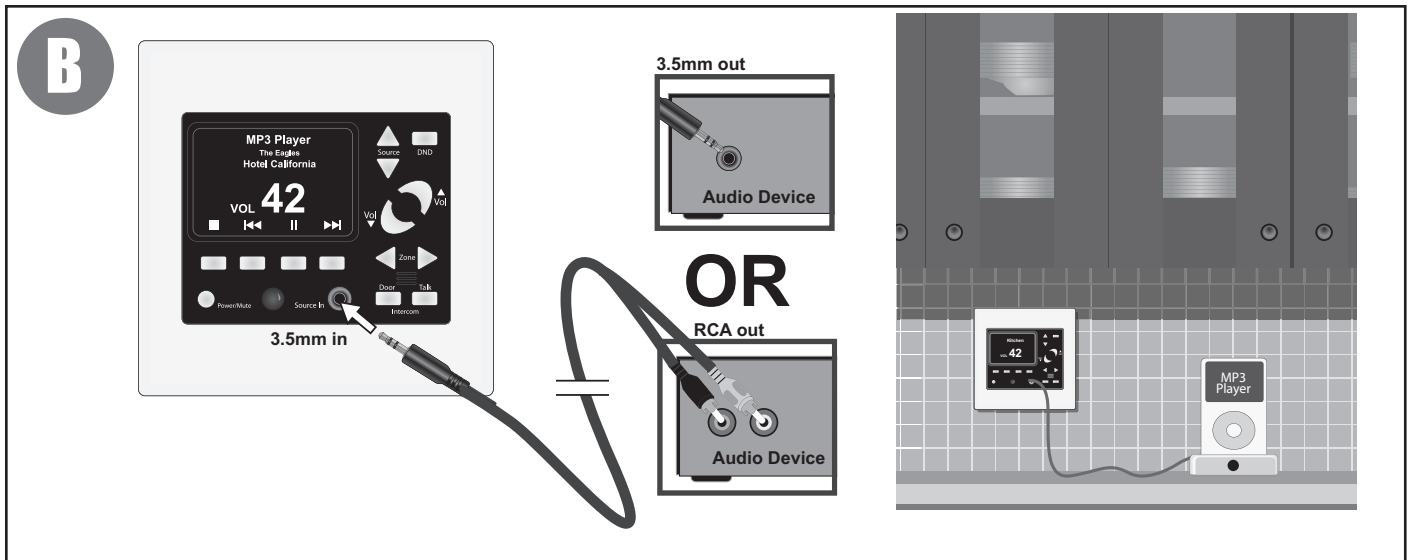
In addition to Lync's built-in MP3 player, you can connect an additional 5 sources directly into the Lync controller. These 5 sources can be controlled via IR pass-through by aiming the source's remote control (or a common universal remote) at any LyncPad. This is because an IR eye is built into every LyncPad. IR information is routed only to the source selected by the LyncPad. This allows you to connect more than one of the same type of source with common IR commands (such as multiple cable or satellite TV boxes), but only control the one you want. A separate global IR output is included on the back of the Lync controller allowing you to control up to two centrally located IR components that are not even part of your whole-house audio system.

How to Connect (CONT'D)



B) For extreme convenience connect any device with an analog audio output directly into the LyncPad.

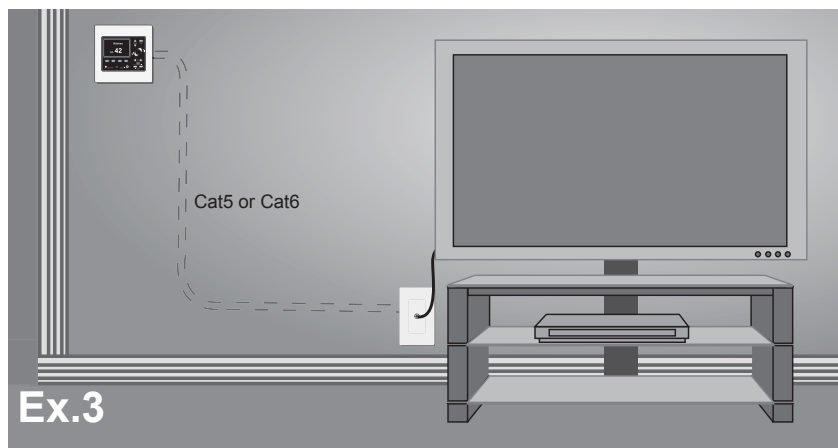
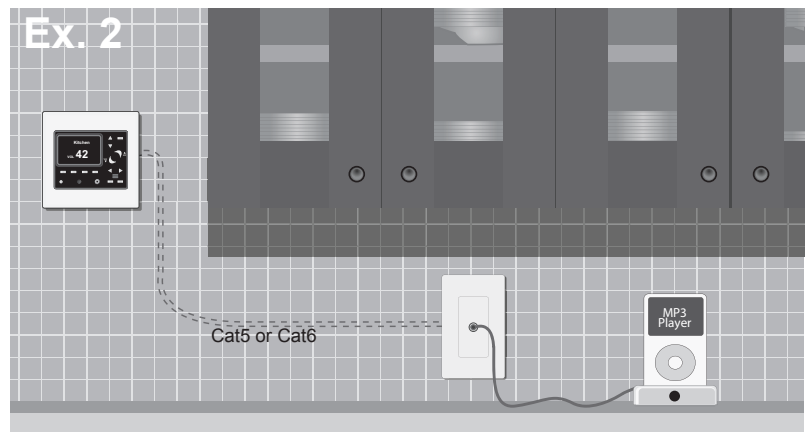
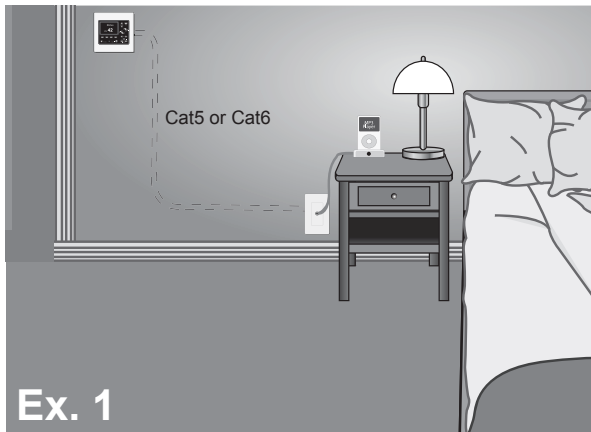
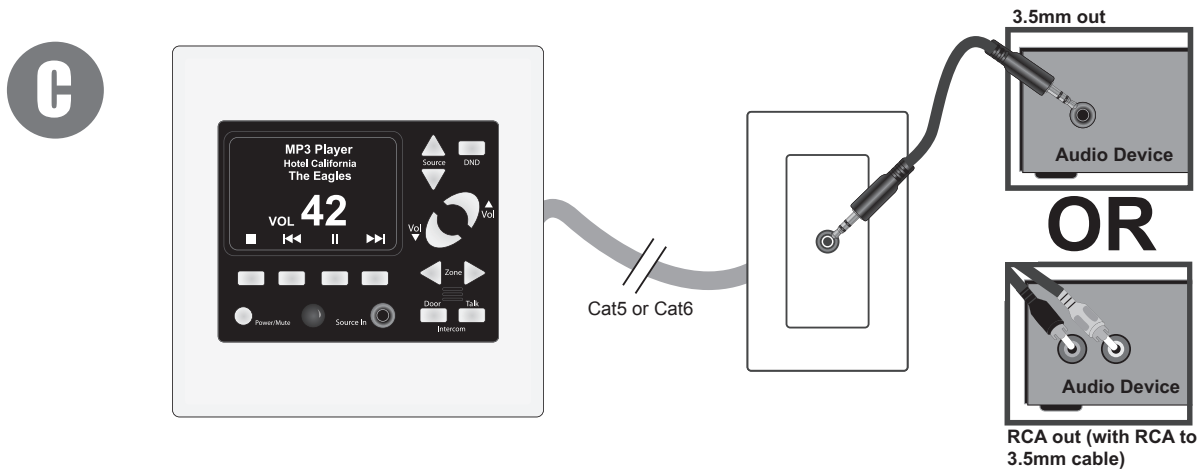
This includes standard headphone outputs. So when your friend says you need to hear a new song she just downloaded to her phone, just connect her phone with a short patch cable and the phone's audio is instantly connected to the Lync system and available to all zones. Stereo audio is digitally transferred to the Lync controller at CD-level quality.



How to Connect (CONT'D)

C) Add a source input location anywhere within each zone using the optional source input panels.

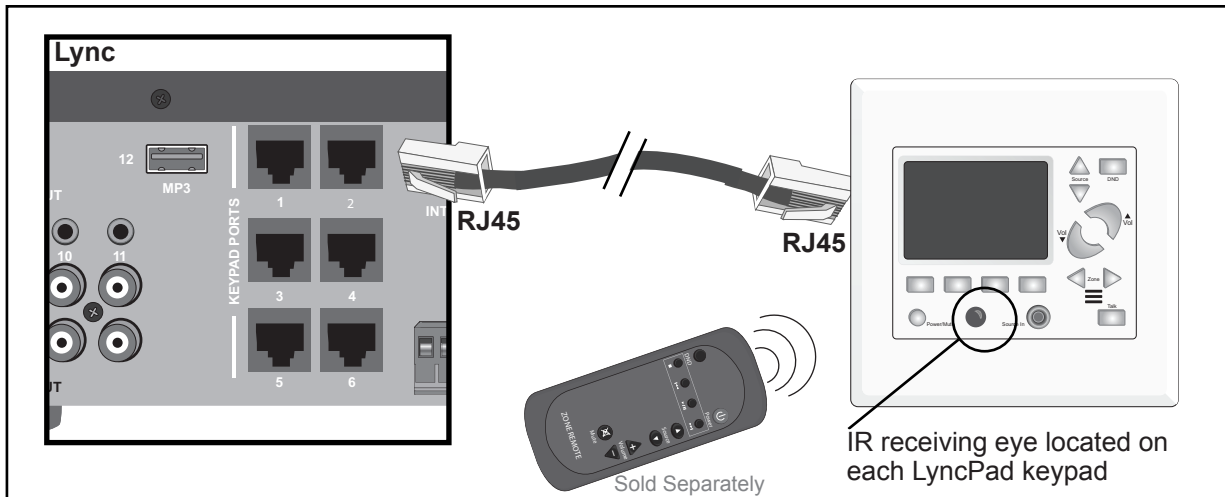
When wiring your system, run a 3-conductor cable (or Cat5/6) behind the wall from the LyncPad to a more convenient source input location. This is usually the best solution for connecting a source more permanently within a zone. While a zone source can only be controlled from within its own zone, it is available for listening in all zones.



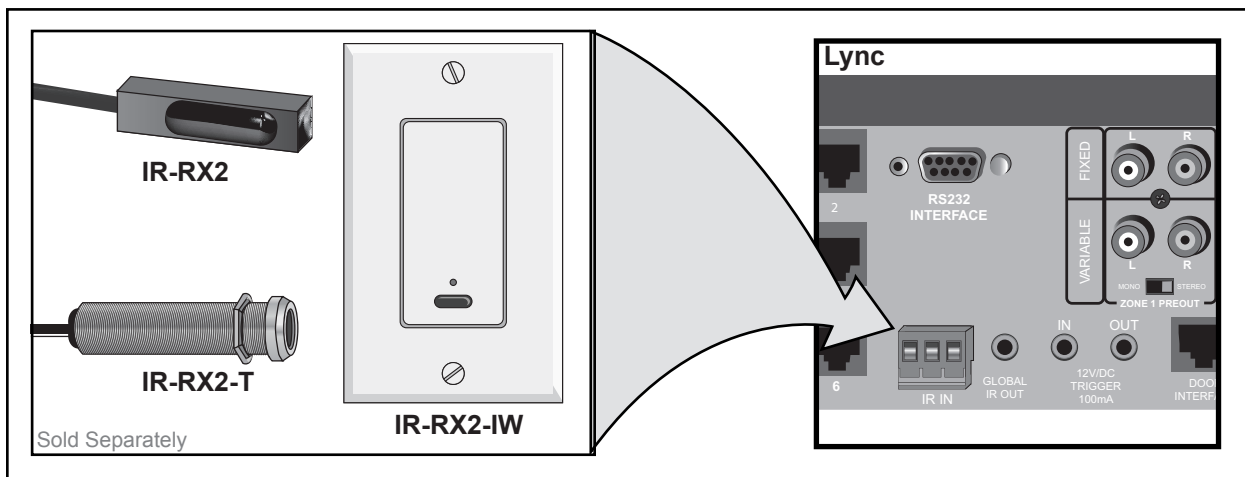
How to Connect (CONT'D)

Making use of Infrared (IR) Capability

Every LyncPad has a built-in IR receiving eye. This IR eye is used to control the LyncPad from its remote control AND to pass IR signals through the Lync controller to other centrally located equipment. The LyncPad's basic functions- source selection, volume up/down, power, mute, DND, and the MP3 functions- can all be controlled from the LyncPad's own remote control. But the IR eye on the LyncPad serves another very important function as well- it passes IR commands from the standard 38K frequency band to the Lync and then on to your other centrally located equipment with the use of the included IR emitters. In other words, you can control a centrally located device simply by pointing the IR remote control for that device at any LyncPad.

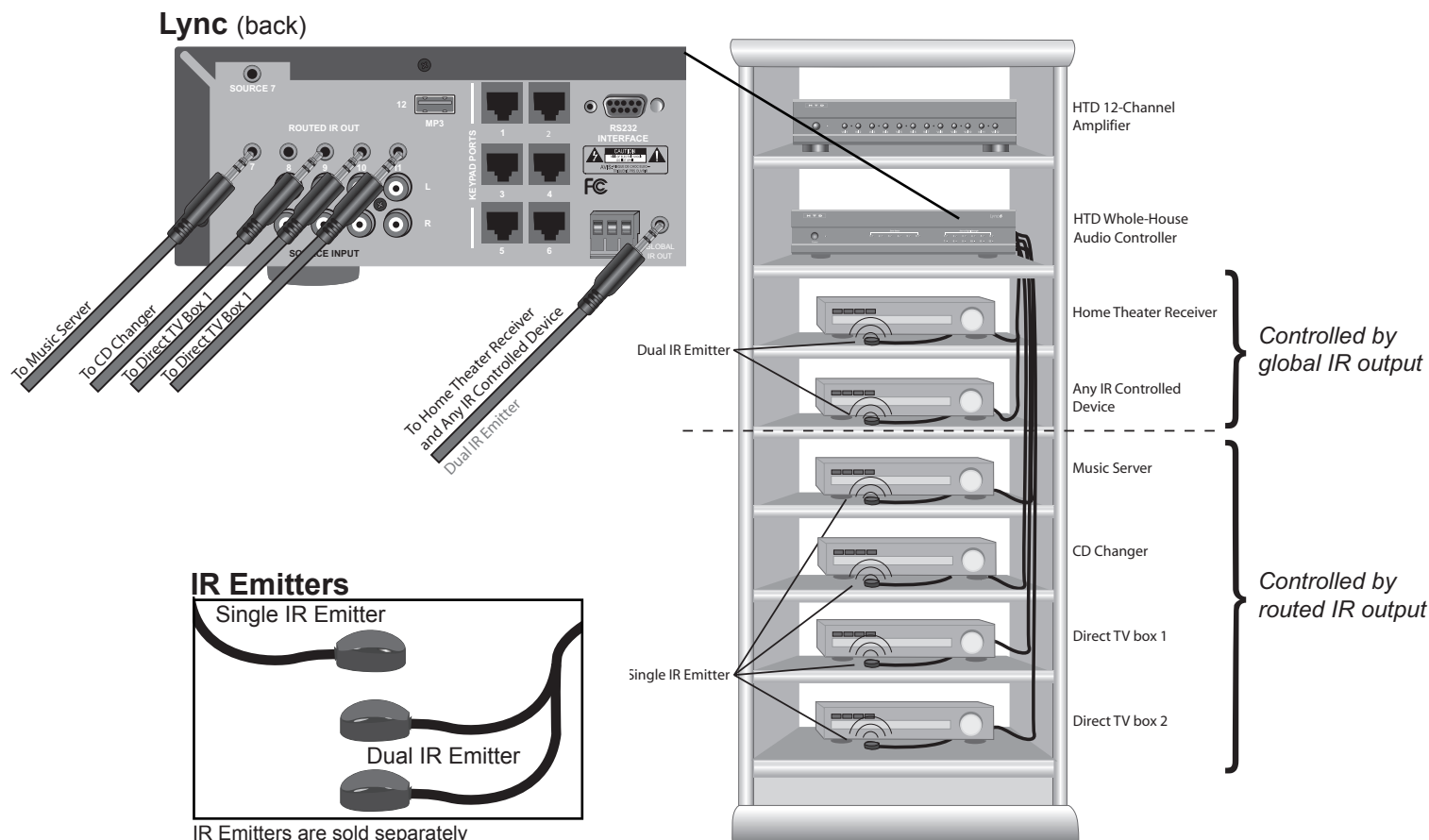


There is also an IR Input on the back of the Lync controller. This allows you to connect a receiving eye (sold separately) for a room that does not have a LyncPad in it. This is often a nearby room such as a dedicated theater room or family room with surround sound installed. IR commands received at this eye are ONLY output through the Global IR Output on the back of the Lync. We provide a dual IR emitter for the Global IR Out so that you can control up to two devices with the separate IR eye. Choose from three styles.



How to Connect (CONT'D)

The Lync controller includes 5 Routed IR emitter outputs and 1 Global IR emitter output. Routed IR means that IR signals are routed only to the Source currently selected on a LyncPad. This allows you to have two of the same source (such as two DirecTV or Cable boxes) but only control the one you want. Global IR will output all of the IR signals allowing you to control a device even if it is not selected on the Lync. The eye on each LyncPad will pass IR signals to the source selected AND out through the Global IR output. The IR eye connected to the IR IN on the back of the Lync will only pass IR signals out through the Global IR output.



Connecting IR Emitters to devices

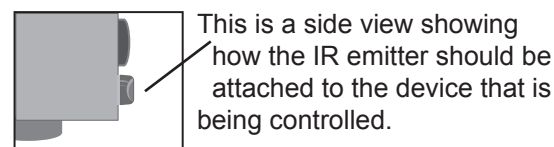
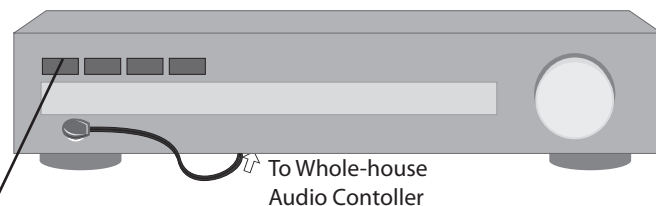
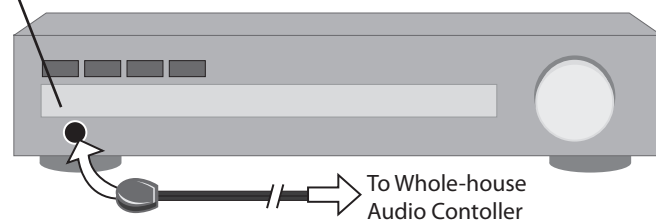
Although the previous diagrams show the IR emitters placed near the devices that you wish to control, these diagrams are meant to basically show how the emitters/receiving eyes fit into your whole-house audio setup.

The emitters are packaged along with double sided tape which allow the emitters to attach directly to the devices you wish to control. These emitters should be placed directly onto the IR receiving eye of the devices. The diagrams below show specifically where these IR emitters should be placed.

The IR emitters shown have a flash-back feature built into the device to visually signal when a command has been "passed through" the system. This flash-back indicator is located on the top side of the emitter. The actual emitting eye within the emitter is located on the bottom portion of the emitter. This is why the emitters should be attached on top of the device's receiving eye that you wish to control.

This emitter is attached in the appropriate location. The emitter cable is running under this device to the whole-house audio controller.

Use the double-sided tape included with the IR emitter to attach the emitter to the devices's IR receiving eye.



How TO USE

Now that your system is installed you are ready to begin enjoying the convenience and flexibility of the Lync whole-house audio control system.

Using the LyncPad keypad

The LyncPad is designed to be user-friendly so that it is not intimidating and anyone can use it the first time.

NOTE: The LyncPad will enter “sleep mode” after approx 20 seconds of inactivity. To “wake up” the LyncPad, simply press any button. Once awake, the following functions are ready to be used:

Volume: (two buttons) The top button increases volume and the bottom button decreases volume. The volume level is displayed on the LCD screen with a range of 0 to 60. This wide range is designed to accommodate audio components of varying fixed output levels. You can press these buttons once for a gradual increase or gain, or press and hold the buttons down for continuous increase or gain.



Should you discover that one or more of your source components has a lower fixed output level than the rest of your components (as is common with some MP3 players and computers), HTD offers two “gain boosters” (models LGB-1 and LGB-4) that are extremely helpful in improving the quality of the sound and in balancing all source levels to a common baseline. Call or email us for more information or check out the whole-house audio accessories section on our website, www.htd.com.

Source: (two buttons) Use the top and bottom source buttons to scroll through the sources. The Source Name will be displayed on the LCD screen. HTD can provide free PC software to allow you to rename the Sources to be shown on the LCD screen.

Mute/Power: Press this button to turn the LyncPad on. Once powered on, press the button to mute the speakers in that zone. When muted, the LCD will flash the word “MUTE”. When a zone is muted, the speakers in that zone are not available for intercom communication. Press and hold this button for approximately 1 full second to turn off power to the LyncPad (note: if you continue holding for another 2-3 seconds, all keypads will be powered off- see “ALL OFF” below). When a Lyncpad is powered off, the speakers in that zone are not available for intercom communication.

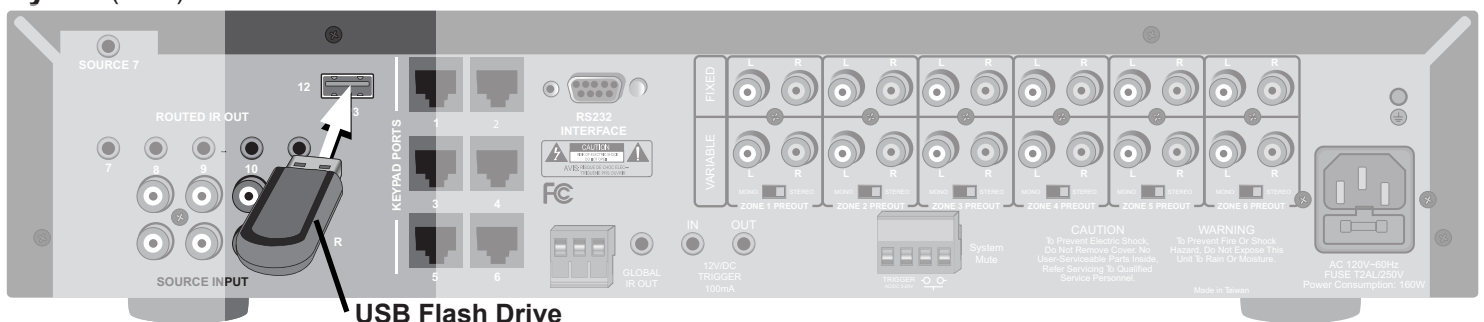
All ON/Party Mode: It is possible to turn all of the zones to the same source from any LyncPad. This is called “Party Mode”. Select a source on the LyncPad. Then press and hold either source button for approximately 3 seconds until the word “Party” is displayed in the upper left section of the screen. All LyncPads not in DND mode will be powered On (if not already on) and switched to this source. The volume level in each zone will remain at its previous setting. The volume on the originating LyncPad does not affect other LyncPads. Simply select a different source on any LyncPad to take that LyncPad out of Party Mode.

All OFF: Starting with a LyncPad that is powered on, press and hold the power button for approximately 1 second to turn the LyncPad off. Continue holding for another 2 seconds and all LyncPads will power off. Release the power button. Please note that a LyncPad in DND mode is not affected by the actions of other LyncPads and will not power off when using the All Off function from another LyncPad.

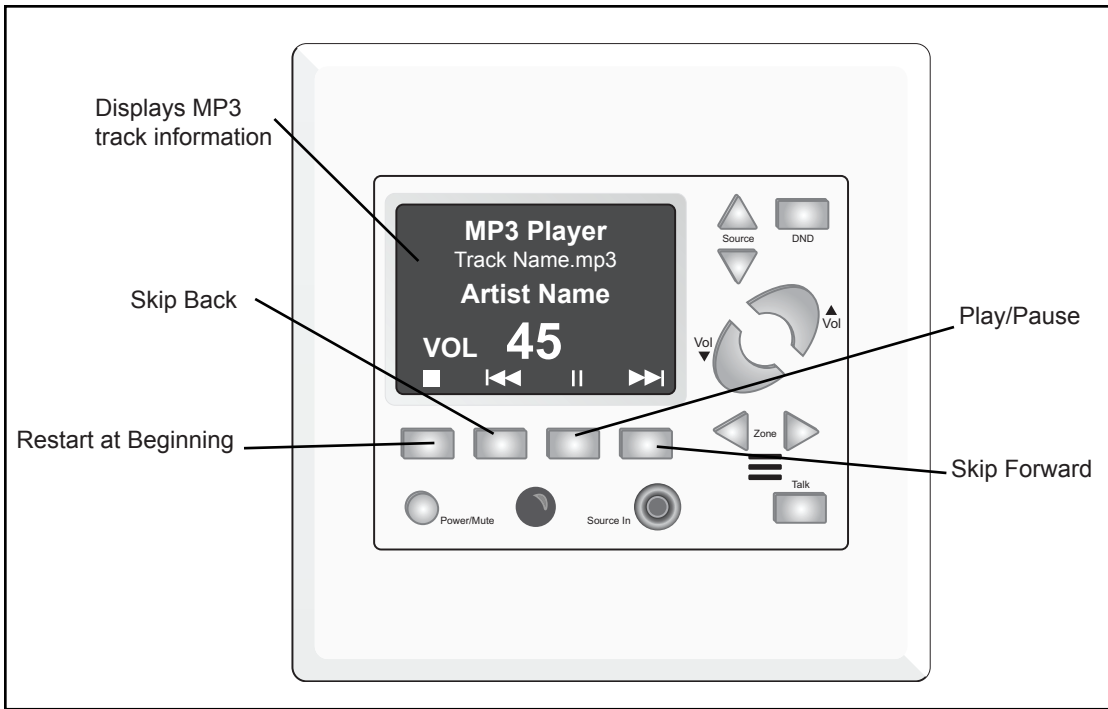
Do Not Disturb (DND): Press the DND button to put a zone into Do Not Disturb mode. The letters “DND” will appear in the upper right corner of the LCD display. As the name implies, in this mode a zone is not affected by: intercom, party mode, all off, and system mute. Press the DND button again to remove a zone from DND mode.

Using the built-in MP3 player: Connecting a USB flash drive (max size 8GB) full of your favorite songs gives you another source for everyone to enjoy. Songs should be saved in MP3 format. USB hard drives are not supported. See figures below and on next page.

Lync6 (back)



How to Use (cont.)



Talk/Intercom: (See Page 20)

Using the Remote Control

We provide a simple infrared remote control that has the same functionality (without the intercom feature) as the LyncPad. The one exception is separate Power and Mute buttons.

Using Your Own Remote Control

You may want to use your own universal or learning remote control to control the LyncPad functions as well as the functions of the centralized components. To do this, you will need to purchase at least one of our Remote Controls and then follow the instructions provided with your learning remote control to teach it to control volume, source selection, power, and mute.

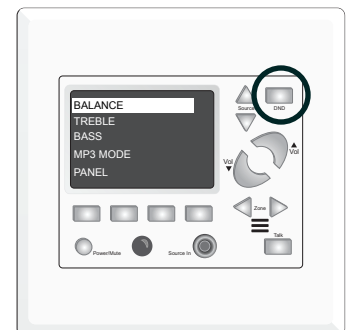
Using Hand-Held Audio Components with Variable Output

Mobile or hand-held audio components, such as an MP3 player or iPod®, can easily be connected to a Source Input Panel or directly to the 3.5mm (1/8") input jack on the LyncPad using a patch cable with a 3.5mm (1/8") stereo plug. The "output" on these devices is often the stereo headphone output jack. This output level is variable, meaning the output level is controlled by the component's volume control. It is usually best to set the volume on these devices somewhere between half-way up and maximum when using them with the Lync system. However, in some cases you will need to reduce this output level in order to prevent distortion (especially if operating on battery power). Docking stations for these devices usually provide a fixed output level with slightly better sound quality.

Accessing and Using the LyncPad Settings Menu

The LyncPad has the ability for the user to adjust bass, treble, balance, font color, background color, brightness during operation, and brightness during sleep mode.

All of the above custom settings can be accessed by entering the LyncPad's "Settings Menu". This is easily accomplished by pressing and holding for 7 seconds the DND button located on the front of the LyncPad. Once the "Settings Menu" has been accessed, you will be able to alter settings on the LyncPad. From within the settings menu, the Source Buttons on the front of the LyncPad to navigate up and down through each feature. Select a feature by pressing the DND button. The Volume buttons on the face of the LyncPad adjust the settings for each feature. To save your settings and return the LyncPad to its normal operating state, press the Talk button.



Press & hold DND for 7 seconds to access Settings Menu

How to Use *(cont.)*

Note: during setup, if no buttons are pressed for 15 seconds, the LyncPad will automatically save your settings and return to the LyncPad to its normal operating state.

Adjusting Treble:

Once a feature is selected, use the Volume buttons to increase or decrease treble. Use the DND button to accept changes and return to the previous settings menu.

Adjusting Bass:

Once a feature is selected, use the Volume buttons to increase or decrease bass. Use the DND button to accept changes and return to the previous settings menu.

Adjusting Balance:

Once a feature is selected, use the Volume buttons to adjust balance left or right. Use the DND button to accept changes and return to the previous settings menu.

NOTE: Balance, Treble, and Bass will only affect the variable output within its zone.

Adjusting MP3 Mode:

You have the ability to determine whether the Lync MP3 player will continuously loop once it has played all available MP3s or whether the player will stop. This feature is located within the LyncPad Settings Menu. Within the Settings Menu, use the source buttons on the LyncPad to navigate to MP3 Mode and use DND to select it. Once you are within the MP3 Mode settings use the volume buttons to select "ON" or "OFF". Use the DND button to accept changes and return to the previous menu.

Adjusting Font Color and Background Color:

The background and font color on each LyncPad can be individually adjusted. From within the Settings Menu, navigate to and select the Panel feature. Within the Panel setting menu (see image at right), use the source buttons to navigate up and down to the appropriate feature, use the volume buttons to adjust the settings for each feature, and use the DND button to save and return to the previous menu.

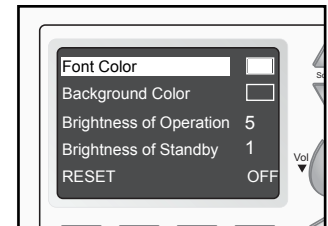
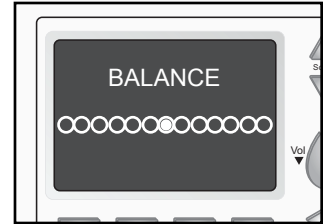
NOTE: it is impossible for the Font and Background Colors to be set to the same color.

Adjusting Operation and Standby Brightness:

Once the "Settings Menu" has been reached, use the source and DND buttons to navigate and select the Panel Menu. Use the source buttons to navigate to the desired setting. Each setting can be adjusted using the volume button and set using the DND button or simply by navigating to another feature. The "Brightness of Operation" feature is used to set the brightness of the LyncPad screen during normal operation mode. The "Brightness of Standby" feature is used to set the brightness of the LyncPad screen once the Lyncpad has gone into "Standby" mode.

Resetting the LyncPad:

The LyncPad can be reset to its factory default settings by navigating to the Panel feature within the settings menu, and then selecting "ON" next to the RESET option.



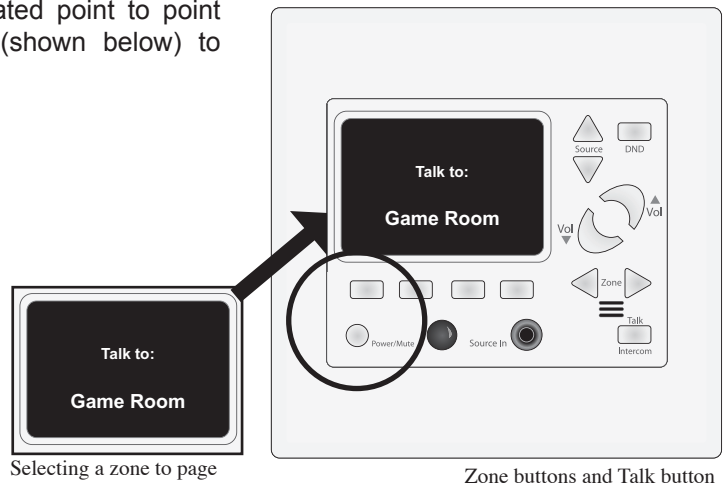
Using the Lync Intercom

The Lync whole-house audio system includes an integrated point to point intercom. Use the Zone buttons and the Talk button (shown below) to communicate with one or all zones.

Select a zone:

Use the Zone buttons (left or right) to select the zone you would like to contact. The display screen will display the phrase "Talk To:" followed by the name of the zone. By default, zones are named "Zone1, Zone 2, Zone 3...". You can use the PC software to customize these names to match your home.

Note: *HTD can pre-program zone and source names for a nominal fee.*



Talk to ALL Zones:

Along with the ability to communicate with each of the individual zones, the Lync system allows the user to talk to ALL zones at once. The process is the same as communicating with a single zone except that "ALL" is selected instead of an individual zone.



Talk Button:

Once the desired zone or "ALL" is selected, press and hold the Talk button and begin speaking. The phrase "Talk To:" will be replaced by "Calling:". Speak at normal voice volume and at a comfortable distance from the LyncPad. The speakers within your zone are muted while the Talk button is depressed.

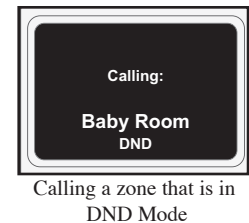


When pressing the talk button in one zone, the receiving zone(s) will behave as follows:

- A.** Any audio being played within the "receiving" zone will be muted.
- B.** The "receiving" zone's LyncPad will change from its normal state to the intercom state. That is, the LyncPad will now display the phrase "Calling:" along with the name of the zone that initiated the call.
- C.** The receiving zone's LyncPad is now automatically set to communicate with the zone that initiated the call. Simply press and hold the Talk button to respond.

DND and the LyncPad power Status:

If a zone is in DND (Do Not Disturb) mode, it will not be interrupted by the intercom feature. The zone initiating the call will see "DND" displayed below the zone name and will be unable to contact that zone. Similarly, if the LyncPad within a zone is currently powered off, the word "OFF" will be displayed below the zone name and you will not be able to contact that zone.



Intercom volume:

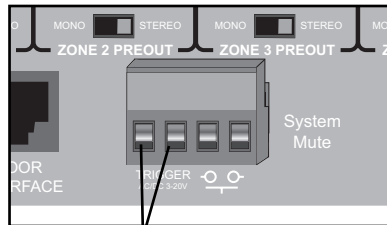
The Lync system intercom feature has been designed such that the volume output is a fixed volume. Whether the LyncPad within a receiving zone is set to 1 or 60, the volume at which you receive a page is always the same. A fixed volume is used for intercom to ensure audible communications regardless of a LyncPad's volume level. A LyncPad set to Mute will **NOT** hear an incoming call although the display will change to indicate that a call is inbound.

Connecting a Doorbell for System Mute

The Lync Controller can be connected to your home's doorbell circuit. When your doorbell button is pressed, the Lync system will **MUTE** the output in all zones for 7-seconds (unless a zone is in DND mode). During this time, you will be able to hear the sound of your home's doorbell chime .

On the back of the Lync Controller (shown below) you will find a green plastic connector for attaching wires from your home's doorbell circuit. For ease of connection, the green connector can be pulled out.

There are four small square openings in the green connector for insertion of wires from your doorbell circuit. On the top of the green connector, there are four small screws that can be tightened down on the wires after they have been inserted.

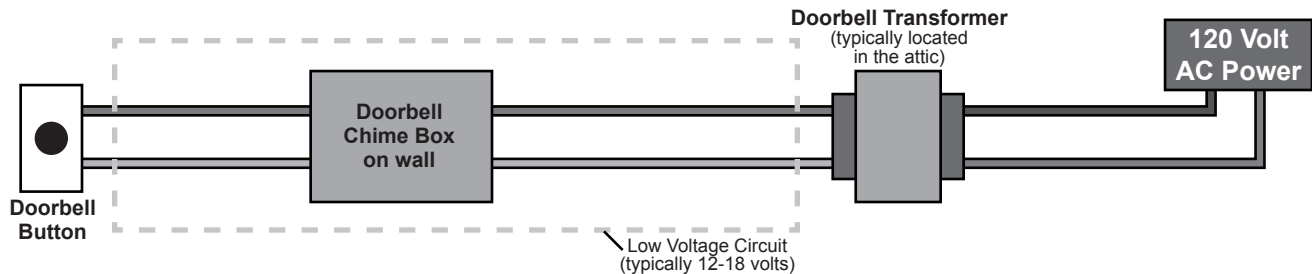


Back view of Lync Controller
Showing green connector

Use These two connections for the
system mute feature

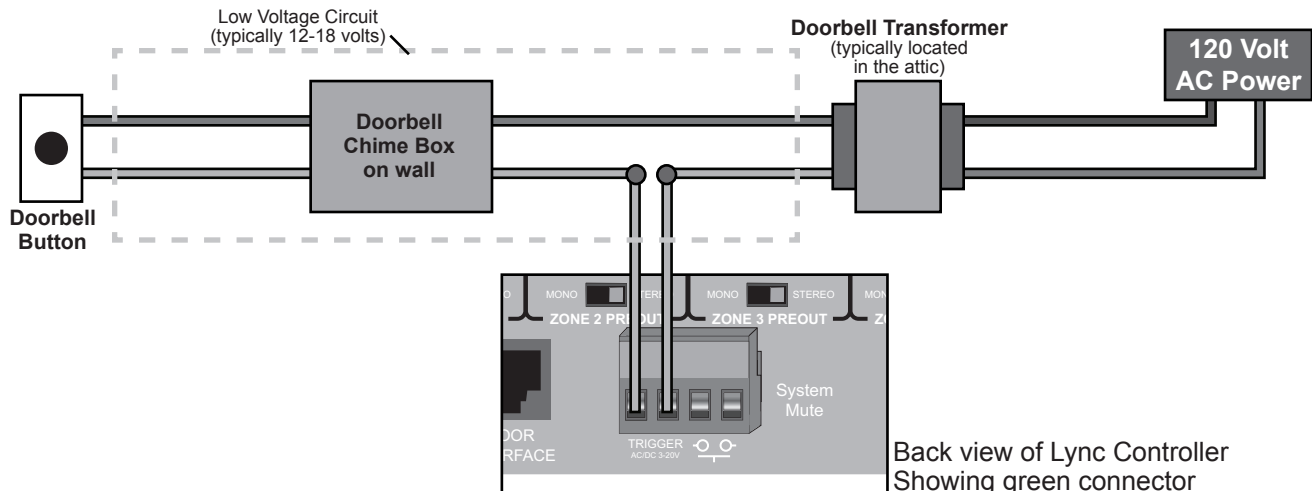
Although there are four connection points on the green connector, your existing doorbell will only require connection into the two points above the "TRIGGER AC/DC 3-20V" label on the back of the Lync Controller (shown above.) The other two connection points are for use with other types of triggering devices that close a circuit without low voltage.

Your home's doorbell circuit will look similar to the diagram shown below:



Here's how to wire your Lync Controller into your doorbell circuit:

Splice 2 conductors of doorbell wire (or 2 of the wires in a Cat5e cable) from any point in the LOW VOLTAGE circuit to the green connector on the Lync Controller, as shown below. **Do NOT splice into or connect to the 120 volt AC power wires.**



Back view of Lync Controller
Showing green connector

Whole-House Audio Control Addendum

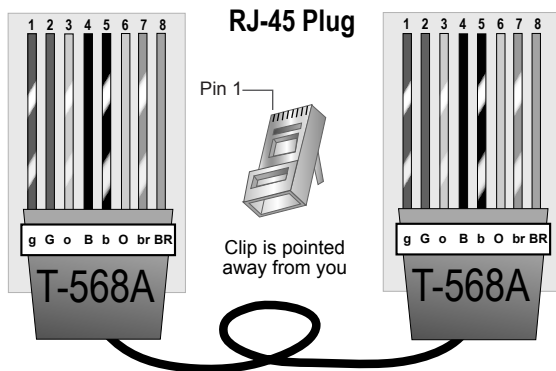
Connecting RJ-45 Plugs to Cat5e Cable

Please use a standard (T-568A or T-568B) “Straight-Through” RJ-45 connection with Cat5e cable (Cat5, or Cat6 are acceptable) to connect the LyncPad to the Lync or a LyncPad to another LyncPad. A “Straight-Through” connection means that the Cat5e wires are attached in exactly the same order inside the RJ-45 plug at both ends of the cable. **Never use a cable with a “Cross-over” connection in which the two ends of the cable are wired differently.**

When running your Cat5e cable, you have two options: 1) use cable of predetermined lengths that have the RJ-45 plugs attached by the manufacturer, or 2) use a crimping tool to attach the RJ-45 plugs yourself after you have run the Cat5e cable. With option 1) you don't have to worry about the connections being solid and correct, but you'll likely have to cut larger holes through the framework of your house to get the cables into position. This option will cost a little more because you are likely to have excess cable since you can only buy in predetermined lengths. Option 2) allows you to buy your Cat5e cable in bulk and run exactly the length you need for each connection. But you'll have to terminate each end with an RJ-45 plug yourself.

If you decide to add the RJ-45 connections yourself, make sure you wire the plugs using a “Straight-Through” standard. The T-568A standard is supposed to be used in new network installations. However, most off-the-shelf Ethernet cables (Cat5e cables with RJ-45 plugs) are still of the T-568B standard; either standard is suitable for use with the Lync whole-house system.

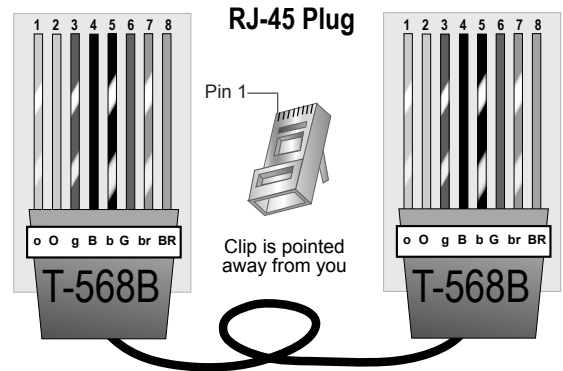
T-568A Straight-Through Cat5e Cable



Wire Key

- O Orange
- o Orange striped
- G Green
- g Green striped
- B Blue
- b Blue striped
- BR Brown
- br Brown striped

T-568B Straight-Through Cat5e Cable



Instructions for most standard RJ-45 Crimpers:

Start on one end and strip the cable jacket off (about 1”) using a stripper or a knife. Be extra careful not to nick the wires, otherwise you will need to start over.

Spread, untwist the pairs, and arrange the wires in the order of the desired cable end. Flatten the end between your thumb and forefinger. Trim the ends of the wires so they are even with one another, leaving only 1/2” in wire length. If it is longer than 1/2” it will be out-of-spec and susceptible to crosstalk. Flatten and insure there are no spaces between wires.

Hold the RJ-45 plug with the clip facing down or away from you. Push the wires firmly into the plug. Inspect that each wire is flat and even at the front of the plug. Check the order of the wires. Double check again. Check that the jacket is fitted right against the stop of the plug. Carefully hold the wire and firmly crimp the RJ-45 with a special RJ-45 crimping tool.

Check the color orientation, check that the crimped connection is not about to come apart, and check to see if the wires are flat against the front of the plug. If even one of these are incorrect, you will have to start over.

Tips for Running Cat5e and Connecting to RJ-45:

- If you are pulling cables through holes, it is easier to attach the RJ-45 plugs after the cable is pulled.
- Odd numbered pins are always striped, even numbered pins are always solid colored.
- Looking at the RJ-45 with the clip facing away from you, Brown is always on the right, and pin 1 is on the left.
- No more than 1/2” of the Ethernet cable should be untwisted otherwise it will be susceptible to crosstalk.
- Do not deform, do not bend, do not stretch, do not staple, do not run parallel with power cables, and do not run Cat5e cables near noise inducing components.

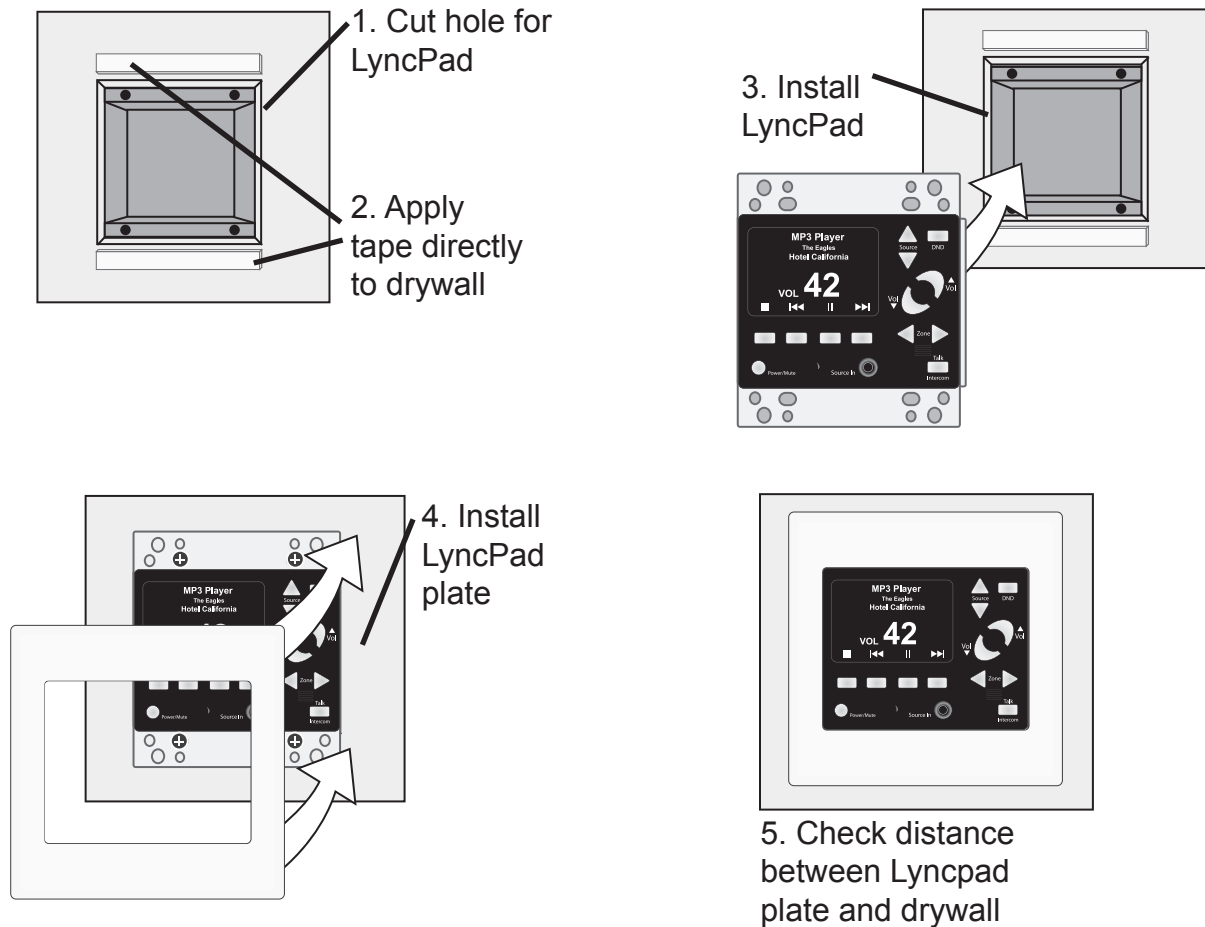
Whole-House Audio Control Addendum

Troubleshooting:

If you are receiving no sound within one or multiple zones - make sure each channel on the 12-channel amplifier is set to "Line" (see page 9).

Using the double-sided tape that is included with the Lyncpad keypad:

We have included two pieces of double sided tape to use as a "spacer" if needed between the drywall and the metal frame of the LyncPad. This will enable you to bring the keypad "off" the wall if needed so that once the magnet frame of the LyncPad is placed onto the LyncPad the frame will sit flush to the LyncPad and the wall. This is often only used for pre-install (or new work) electrical boxes that are recessed behind the drywall. If you have an old work box then you will likely not need the double sided tape as the LyncPad's frame will be slightly off the surface of the drywall due to the old work box having a "lip" that sits on the front of the drywall already.



This device complies with Part 15 of the FCC Rules. Operation is subjected to the following two conditions:

- 1) this device may not cause harmful interference and,
- 2) this device must accept any interference received, including interference that may cause undesired operation.

HTD

Home Theater Direct

Toll free: 866-HTD-AUDIO (483-2834)

www.htd.com

info@htd.com

Phone-to-Zone™

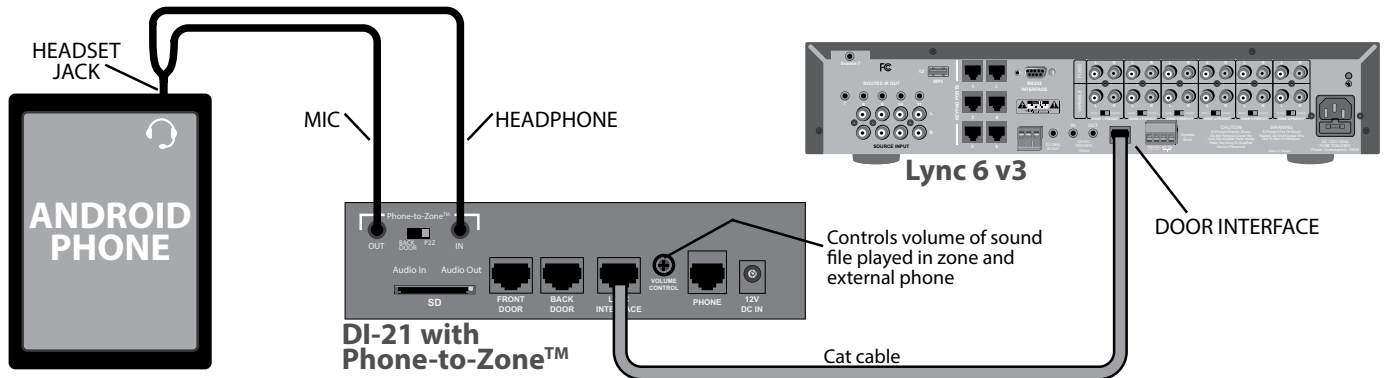
Phone-to-Zone™ is a unique feature developed specifically for the Lync 6 v3 and Lync 12 v3 controllers. Phone-to-Zone™ allows you to use your smart phone (or other smart device) to “intercom” with any zone in your home! Calls are initiated from the phone and achieve two-way communication with any LyncTouch (or older LyncPad). If a zone does not have a LyncTouch installed, you can still initiate a one-way call (page) into the zone. Calls can be made from within your home’s Wi-Fi network or from virtually anywhere in the world with an internet connection.

Requirements:

- Lync v3 Whole-House Audio Controller (Lync 6 v3 or Lync 12 v3)
- DI-21 (Door Interface) with Phone-to-Zone™ feature
- Dedicated Android phone (does not work with tablets) running our free “Phone-to-Zone Receive” app
- Your own smart device (iOS or Android) running our free “Phone-to-Zone” app

Connecting the Hardware

Make sure the two-position switch on the back of the DI-21 is set to P2Z and follow this diagram to connect:



Getting Started

Phone-to-Zone requires an Android phone (most Android tablets do not work) to be permanently located at the central location with your other equipment. We recommend using an old Android phone that is not connected to a cellular service plan. Connect this device to your WiFi network with internet access and keep it constantly powered on with an attached charger. Visit the Google Play store and download the “HTD Phone-to-Zone Receive” app. When you launch the app, you will be provided an 8-digit code that is unique to you. Keep this code secure.

Download the “HTD Phone-to-Zone” app (NOT the “Receive” app) on every iOS and Android smart device on which you’d like to be able to initiate a Phone-to-Zone connection. When you first open that app you will be prompted to enter your unique 8-digit code. You will only need to enter the code this one time. Next, select whether your central controller is a Lync 6 or Lync 12.

By default, zones are identified as ZONE 1, ZONE 2, etc. You can manually change these names by selecting “ZONE NAMES” from the upper right menu. Sorry, these names cannot be automatically pulled from the HTD Lync app used to control your system (believe me we tried!).

Phone-to-Zone™

Using Phone-to-Zone

1. Launch the Phone-to-Zone app on your iOS or Android smart device.
2. Press “CONNECT”. This will connect your smart phone with the centrally located Android phone. Note that the button will change to “CONNECTING” during this process and will change to “DISCONNECT” once the connection has been made.
3. Once connected, select TALK or RING for a particular zone, or RING ALL to ring into all of the zones you’ve configured in the HTD Lync app, under System Settings > Doorbell Settings.
 - TALK – Wait a couple seconds for Phone-to-Zone to connect to that zone and then begin talking. Anyone within that zone will hear your voice and can respond by pressing the TALK button on their LyncTouch. If no LyncTouch is connected to that zone, you will simply be making an announcement into the zone.
 - RING – After a couple seconds, the BACKDOOR.mp3 file stored on the DI-21’s SD card will play in both the zone and phone; the volume for both can be adjusted on the back of the DI-21. You can replace this sound file with any other .mp3 file as long as you name the file BACKDOOR.mp3. The call is answered when someone in the zone presses the TALK button on the LyncTouch.
4. Enjoy your conversation! Talk into the phone as you normally would and your voice is heard through the speakers in the zone. The person within the zone must press the TALK button in order to talk back during which time they will not hear you (similar to intercom).
5. You can end the conversation with one zone and start a new connection with another zone by selecting TALK or RING for the new zone. The first zone will hear a short tone indicating the call has been disconnected.
6. Press DISCONNECT when you are finished using Phone-to-Zone.

Notes

- It is not possible to TALK into more than one zone at a time using Phone-to-Zone as you can when initiating intercom from a LyncTouch. However, you can select RING ALL and the first zone to “answer” the call will then be placed into a one-to-one conversation.
- If a zone you are calling is currently powered off, it will be automatically powered on and set to “Intercom”.
- When using the Phone-to-Zone feature, the Back Door feature will be unavailable, and vice versa. That said, if you have a Back Door station, you can plug it into the same RJ-45 port as the Front Door station using a Cat5-Y adapter. The only downside is that you will not be able to distinguish (by the sound file or display on a LyncTouch) if the ring was initiated by someone at the front door or back door.
- TIP: In the HTD Lync app (used to control your system), choose the Phone-to-Zone app as one of your four shortcuts.