



# **Lync**

## **Owner's Manual**

Toll free: 866-HTD-AUDIO (483-2834)  
[www.htd.com](http://www.htd.com)  
[info@htd.com](mailto: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.

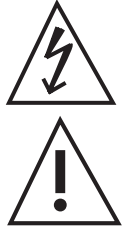
**Caution** - To reduce the risk of fire or shock, do not remove the cover or back. No user serviceable parts inside.

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](http://www.htd.com). Thanks again for choosing Home Theater Direct!

## Warranty

All HTD electronics include a free 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.

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# Introduction to Lync

Lync provides hi-end sound from professional-grade equipment designed for easy installation and robust control. Lync allows you to listen to whatever you connect to it in any combination of stereo audio zones you set up within your home.

With Lync, not only can audio sources be connected at the central location where you install the Lync 6 or Lync 12 controller, but with the addition of Source Input Panels (sold separately), you can also connect sources throughout your home and make those sources available to the entire system.

Lync is controlled with our HTD Lync app and/or with wall-mounted touch-screen controllers called LyncTouch. With LyncTouch, you can also take advantage of the full-featured intercom.

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 packed full of detail and worth perusing and diving in where applicable, but many of our customers get up and running quickly by first understanding how cable should be run and then following our Quick Setup instructions on the following page.

## Overview: Preparing Your Home With Cable

Just how easy is it to prepare your home for a Lync system? From a central location:

1. \*Label and run 2-conductor speaker cable to each speaker
2. Label and run Cat-5/6 cable to every location where you want to install a LyncTouch keypad
3. From each LyncTouch, optionally run Cat 5/6 cable to a convenient source input location (near a home theater receiver, behind a TV, behind a night stand, above a counter, next to a desk, etc.). Source input devices (models SIP, AIP, DIP, and BIP) are sold separately.
4. Alternate wiring for source inputs. It is possible to connect our active source input devices (models AIP, DIP, and BIP) directly to the central Lync controller. Although this is usually less convenient than "daisy-chaining" to a nearby LyncTouch, it is okay to run Cat 5/6 cable from the central location directly to each source input location. With the use of Cat 5/6 Y-adapters (sold separately), it is also possible to connect both a LyncTouch and one of these source input devices into the same zone at the central location.

\* If your home did not divide nicely into 6 or 12 zones, you may want to create areas that we refer to as sub-zones. Sub-zones are forced to listen to the same audio source as the main zone but require independent volume control. For those areas, you will want to run the speaker cable first to a location for a rotary or slide-type volume control and then on to the speakers.

See additional detail beginning on page \_\_\_\_.

# Quick Setup

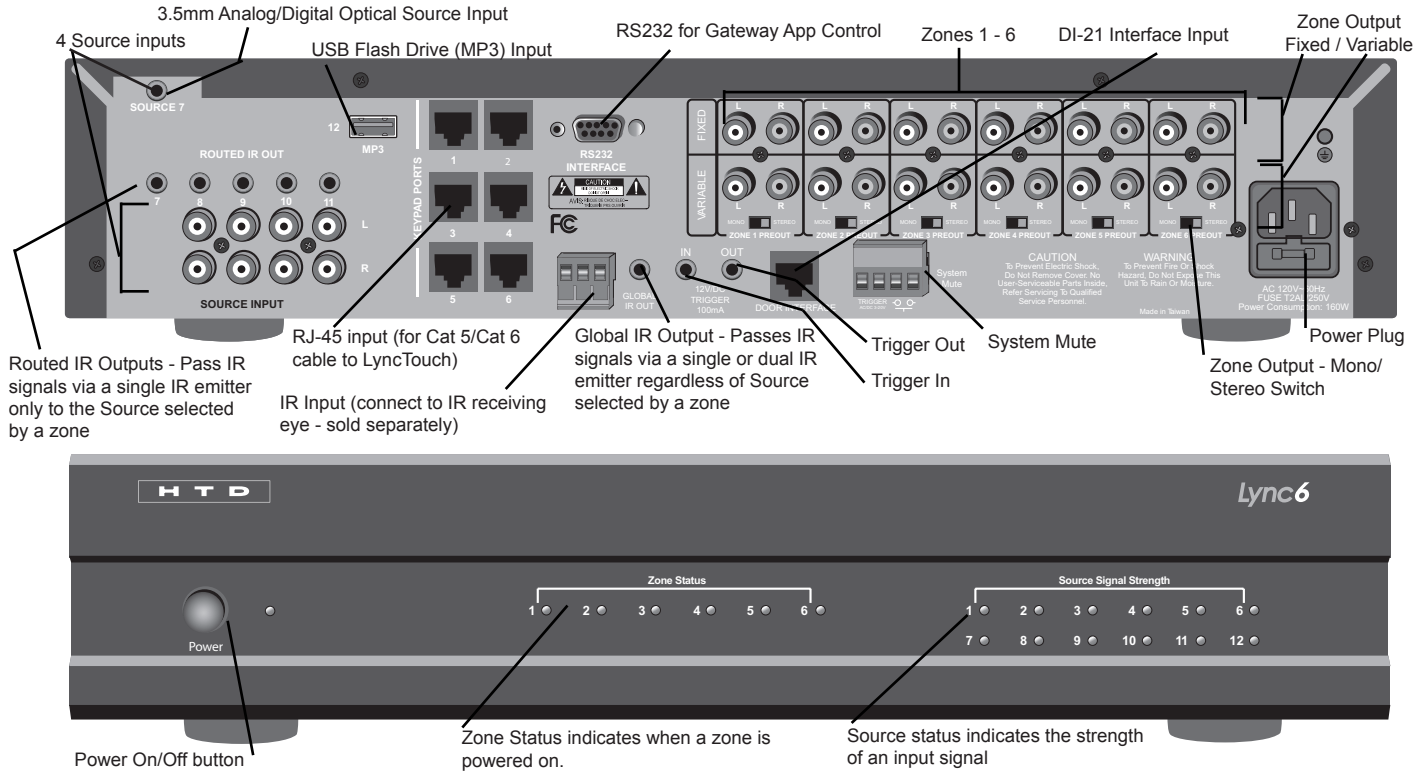
For most installations, the following steps will get you up and running quickly. Please read the balance of this owner's manual for further explanation as well as additional connection options that help you customize the system to your particular situation.

- 1.) Make sure the multi-channel amplifier and central Lync controller (model Lync 6 or Lync 12) are powered off.
- 2.) Install and connect LyncTouch keypads following the instructions on page \_\_\_\_.
- 3.) Connect all speakers to the multi-channel amplifier(s).
- 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. If an additional multi-channel amplifier is used, connect the special 2.5mm to 3.5mm mono trigger cable (included) from the first amp to the second.
- 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(s) 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. Turn the audio volume all the way up on the connected source device.
- 8.) Power on the Lync Controller.
- 9.) Power on the Multi-Channel Amplifier (it will be in "sleep" mode until a LyncTouch is powered on).
- 10.) Make sure all gain knobs on the Multi-Channel Amplifier(s) are set to at the 3 o'clock position or higher.
- 11.) Check the front of the Lync Controller to confirm that the green signal strength indicator light is on for Source 7 (or Source 13). Note that this light intensity will vary with the strength of the source input.
- 12.) Use the LyncTouch in zone 1 or the HTD Lync App to power on 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.
- 13.) Select Source 7 (Lync6) or Source 13 (Lync12) to begin enjoying audio in your home!

**NOTE: It is best not to connect and disconnect an active device (LyncTouch, Analog Input Panel, Digital Input Panel, Bluetooth Input Panel) while the central Lync controller is powered on. Devices are only recognized when the Lync controller is first powered on.**

# Product Features

## Lync 6 Controller

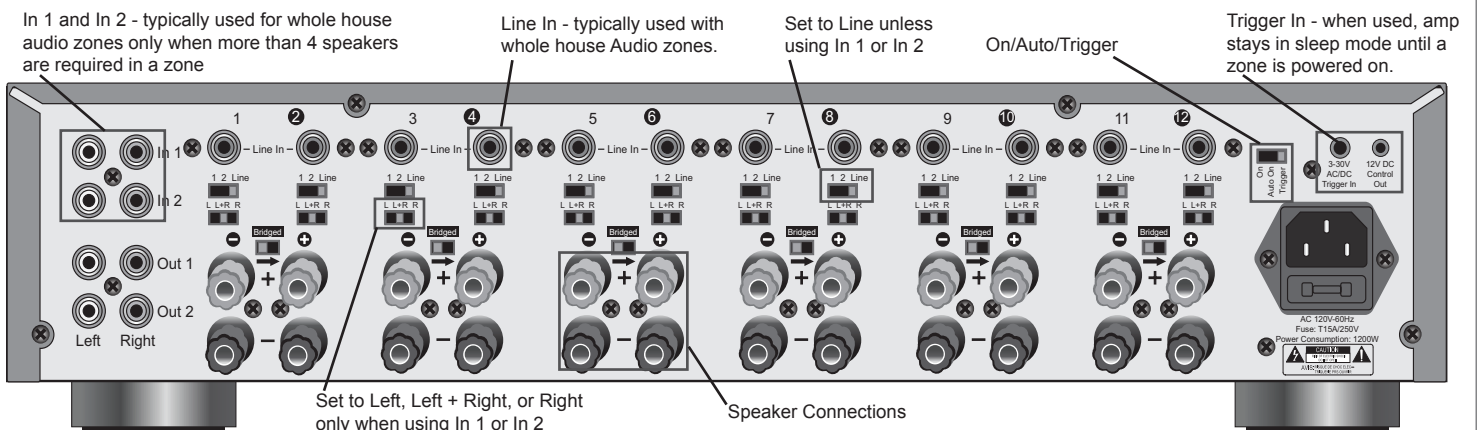


### Included with Lync 6

- (6) Shielded Stereo Patch Cable (3 feet long)
- (1) 3.5mm (mono) Trigger Cable

- (1) Toslink Adapter
- (1) Power Cable

## Model DMA-1240, DMA-1275, DMA-1240ADS



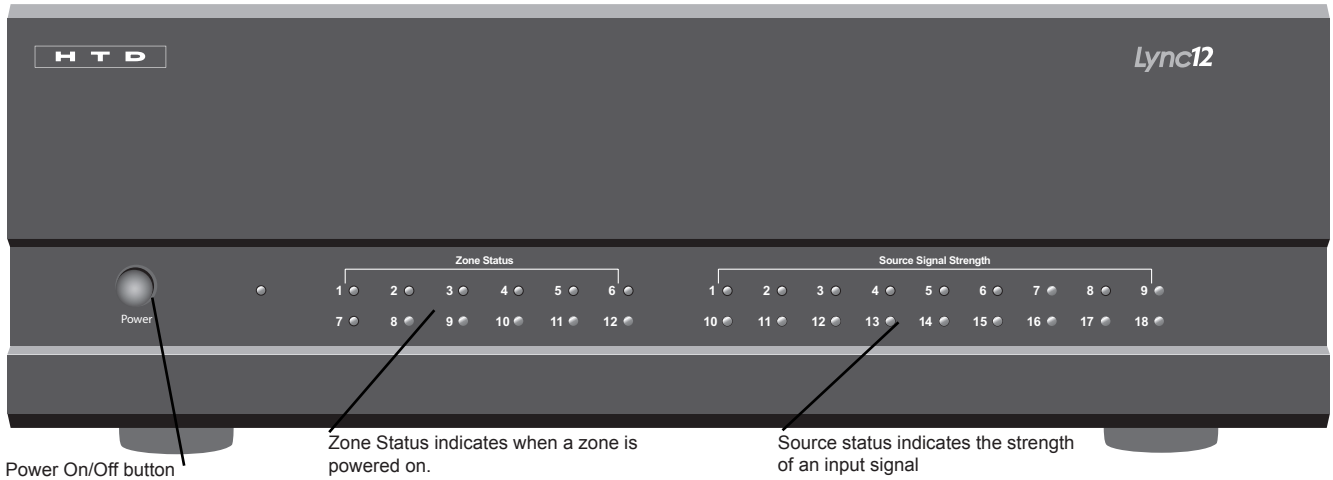
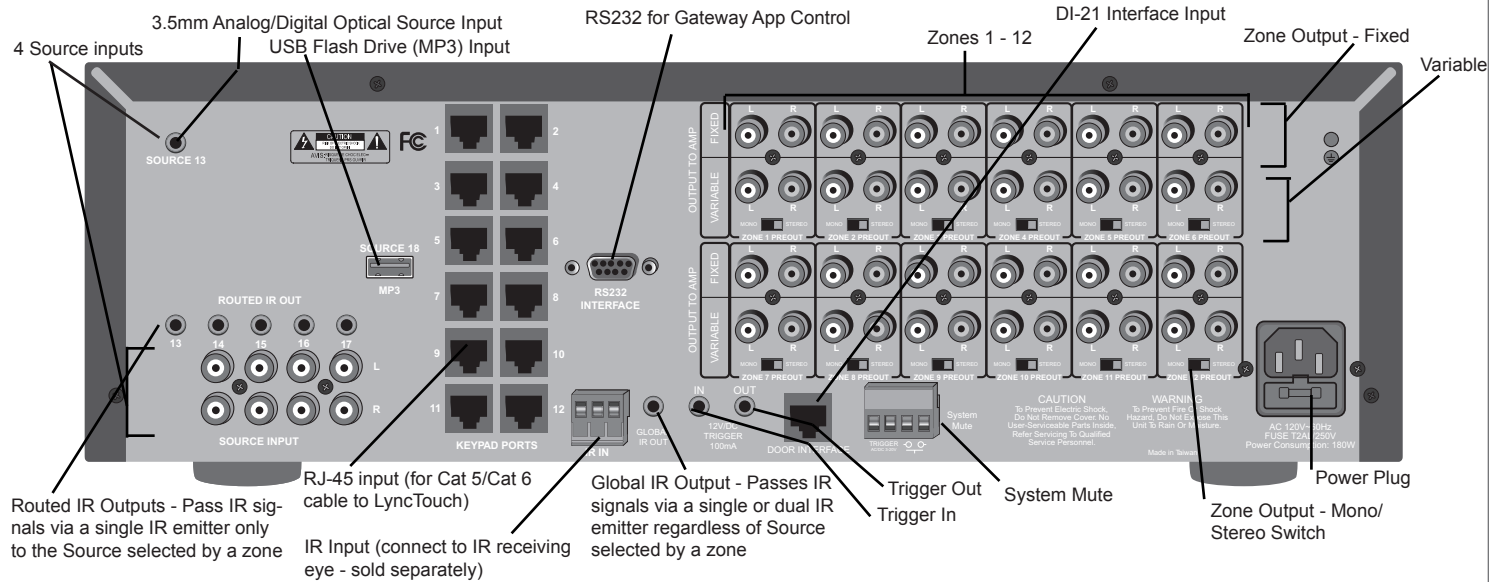
### Model DMA-1240ADS ONLY

This section, found **only** in model DMA-1240ADS, includes inputs for voice assistant devices like the Alexa Dot. These are used in addition to the typical amplifier connections shown on pages 11-12. See the amplifier owner's manual for details.



# Product Features

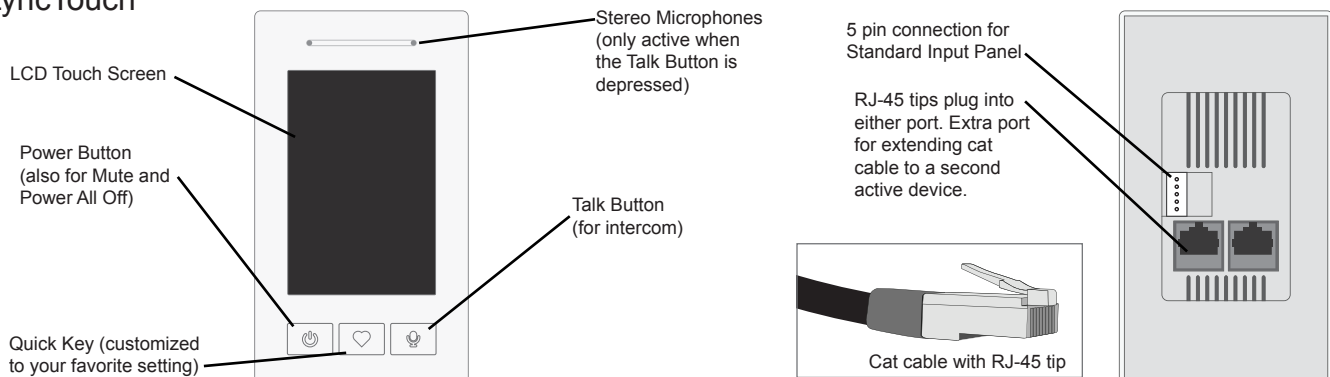
## Lync 12 Controller



## Included with Lync 12

- (12) Shielded Stereo Patch Cable (3 feet long)
- (1) 3.5mm (mono) Trigger Cable
- (1) 2.5mm to 3.5mm (mono) Trigger Cable
- (1) Toslink Adapter
- (1) Power Cable

## LyncTouch



LyncTouch is connected to the central Lync Controller using Cat cable (Cat5, Cat6) with RJ-45 tips at both ends. LyncTouch is an active device that uses power supplied over Cat cable.



# Wiring Your Home for Speakers

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

In most cases, you will run a 2-conductor speaker cable from the central location directly to each speaker. See Figure 1.

When connecting two LEFT channel or two RIGHT channel speakers into a single zone, it is possible to daisy-chain a two-conductor cable from the first to the second speaker. See Figure 2.

If a pair of speakers will NOT have its volume controlled by the zone's variable output (using the app and/or LyncTouch), but instead will be treated as a "sub-zone" (see \_\_\_\_), speaker cables should first be run to the in-wall volume control location before continuing to the speaker location. In this situation, a 4-conductor cable will often be run to the volume control location (in place of two separate 2-conductor cables): 2 of the 4 conductors are for the LEFT speaker and 2 conductors are for the RIGHT speaker. From that location, a separate 2-conductor cable is run to each speaker. See Figure 3

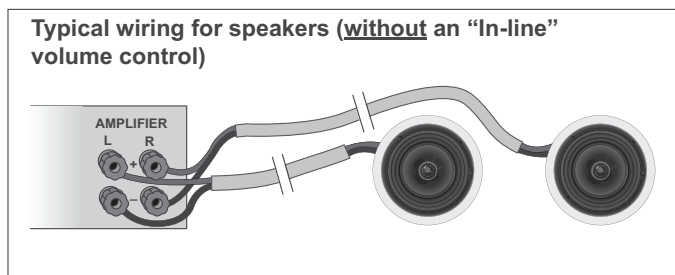


Figure 1

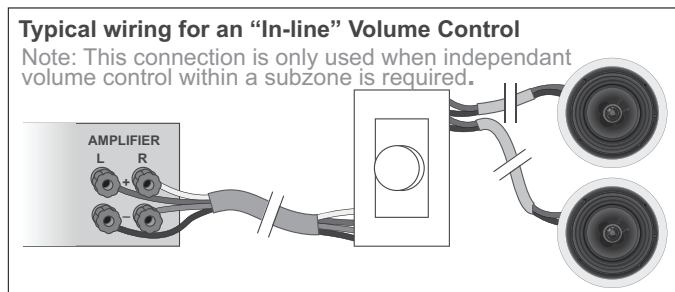


Figure 3

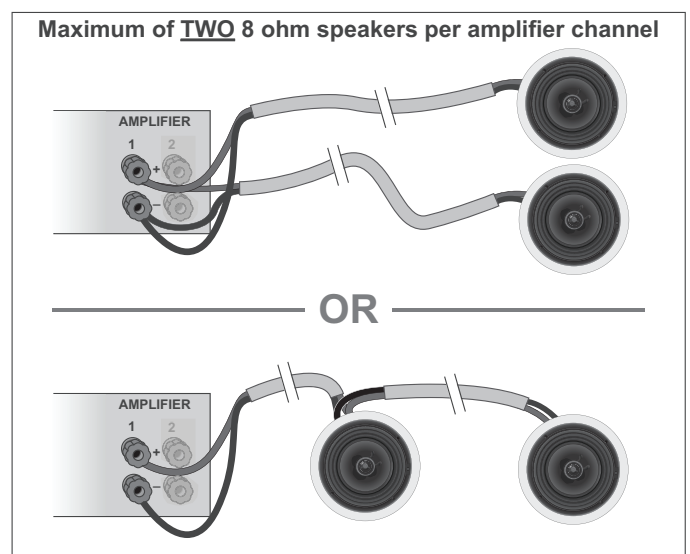


Figure 2

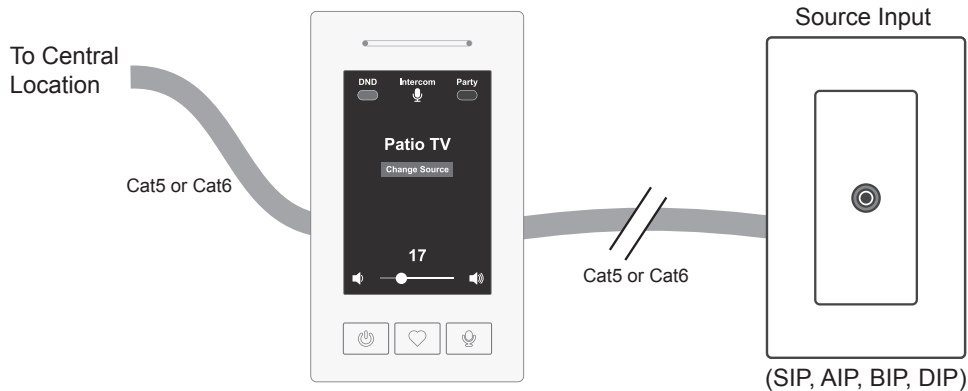
Note: A room with surround sound (e.g. 5.1, 7.1, Atmos, etc.) will require a home theater receiver which has its own built-in amplification and multiple source inputs. For this reason, it is not typically set up as a primary zone (with variable volume) on the whole-house audio system. However, it is possible to connect the fixed (volume) output of a zone on the Lync controller to a stereo input on the home theater receiver. In this arrangement, you use the amps in the home theater receiver to power the speakers 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, or run a CAT cable between the two locations. Baluns can be added to the Cat cable allowing sources to be shared between systems.

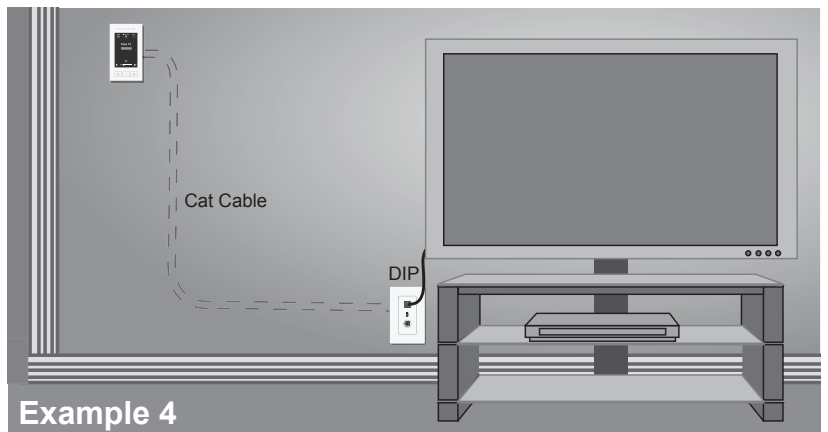
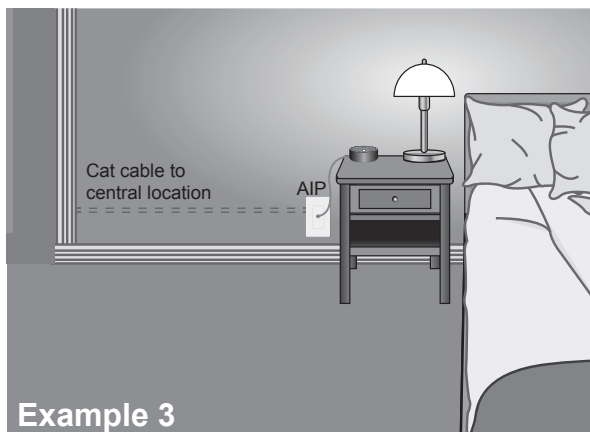
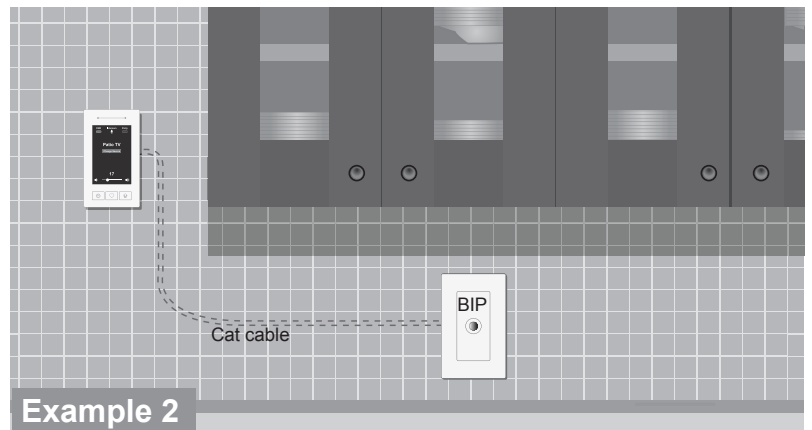
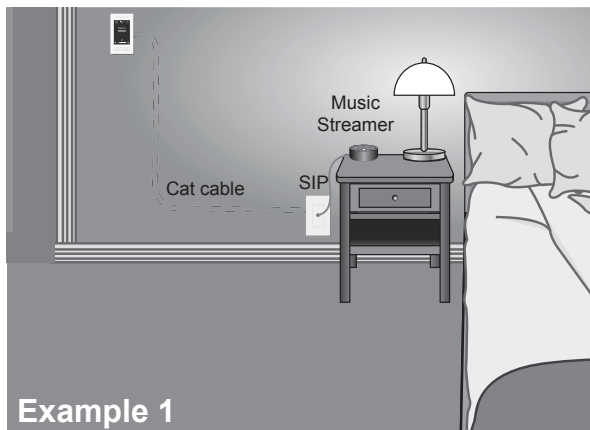


# Wiring a Zone for LyncTouch and Source Inputs

Most whole-house audio systems require all of your components to be located in one centralized area. Lync is different! You can choose to listen to audio sources located not only in the central area, but also sources located throughout your home. To make the most of this feature you will need to run Cat cable from the central location to every location where you plan to install a LyncTouch. You will also want to run Cat cable from that LyncTouch to a convenient location within each zone where you wish to add a source input (one per LyncTouch).



The passive Standard Input Panel (SIP) must be connected to a LyncTouch. The Analog Input Panel (AIP), Bluetooth Input Panel (BIP), or Digital Input Panel (DIP) can connect to a LyncTouch or alternatively directly to the central Lync controller.



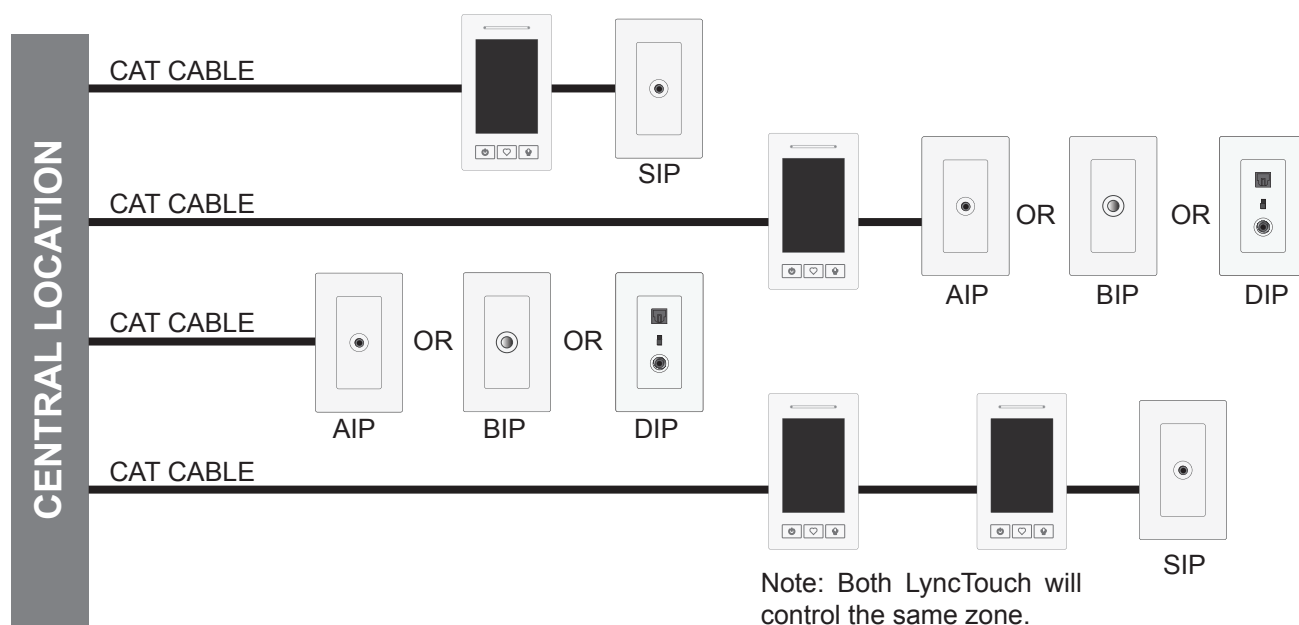
When wiring your system, run a Cat cable behind the wall from the LyncTouch to a convenient source input location.

# Wiring a Zone for LyncTouch and Source Inputs

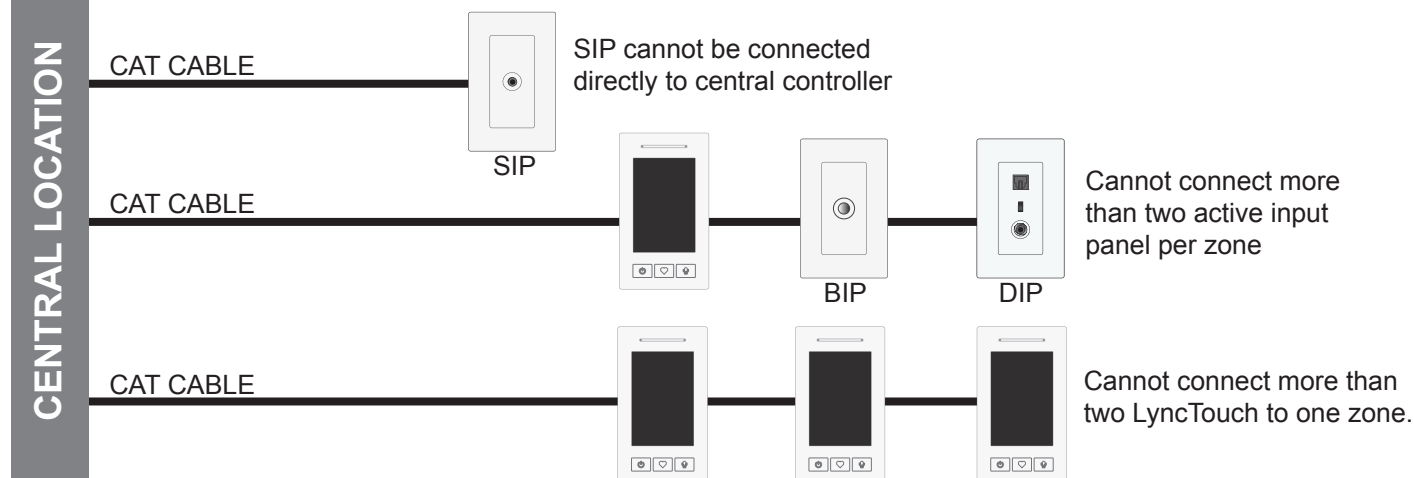
A unique benefit of Lync is the ease with which you can connect sources spread throughout the home into the system – i.e. not all of your sources have to be located at the central equipment location. This is achieved by adding a source input panel (sold separately) into any zone in which you want to connect an audio source.

Our Standard Input Panel (SIP) connects to a LyncTouch using 5 of the conductors in a Cat cable. The other input panels are active devices that connect using Cat cable with RJ-45 tips. These input panels are Analog Input Panel (AIP), Bluetooth Input Panel (BIP), and Digital Input Panel (DIP). Active devices connect either to an open port on a LyncTouch or an open port on the central Lync controller. Note: It is possible to connect both a LyncTouch and an active input panel to the same central RJ-45 port with a special Y-adaptor. Contact HTD for details.

## POSSIBLE WIRING SCHEMES

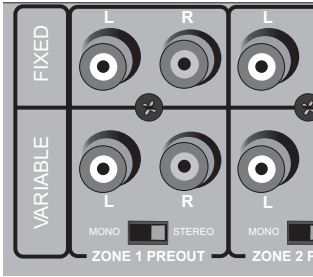


## INCORRECT WIRING SCHEMES



# How to Connect

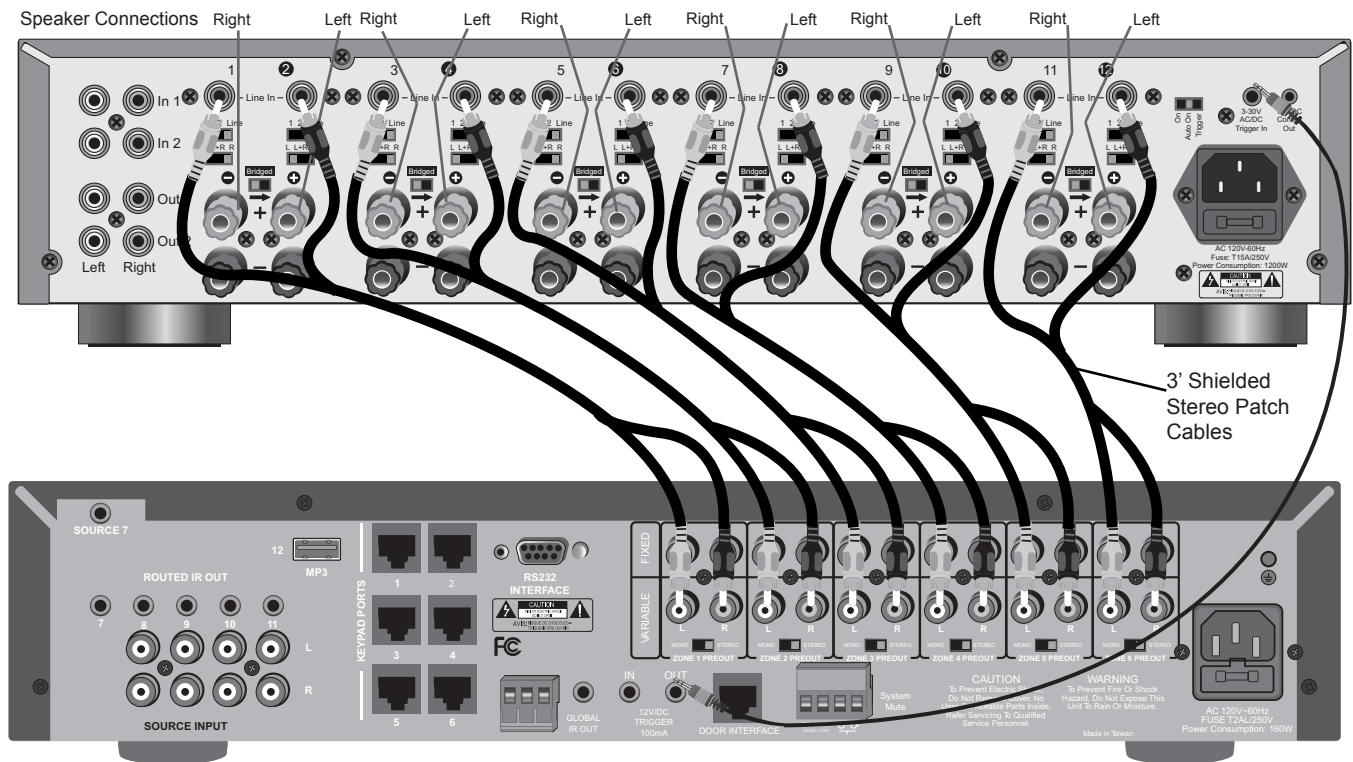
## Connecting the Lync 6 / Lync 12 to a Multi-Channel Amplifier(s)



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 LyncTouch or app.

Use the fixed outputs to create sub-zones. A sub-zone listens to the source selected for the zone but its volume is NOT controlled by the app or LyncTouch. Instead, its volume is typically controlled by a more traditional rotary or slide-type volume control connected “in-line” on the speaker cable between the amplifier and the speakers (see Figure 3, page 8). 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 LyncTouch, 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.

### Connecting the Lync 6 to a Multi-Channel Amplifier



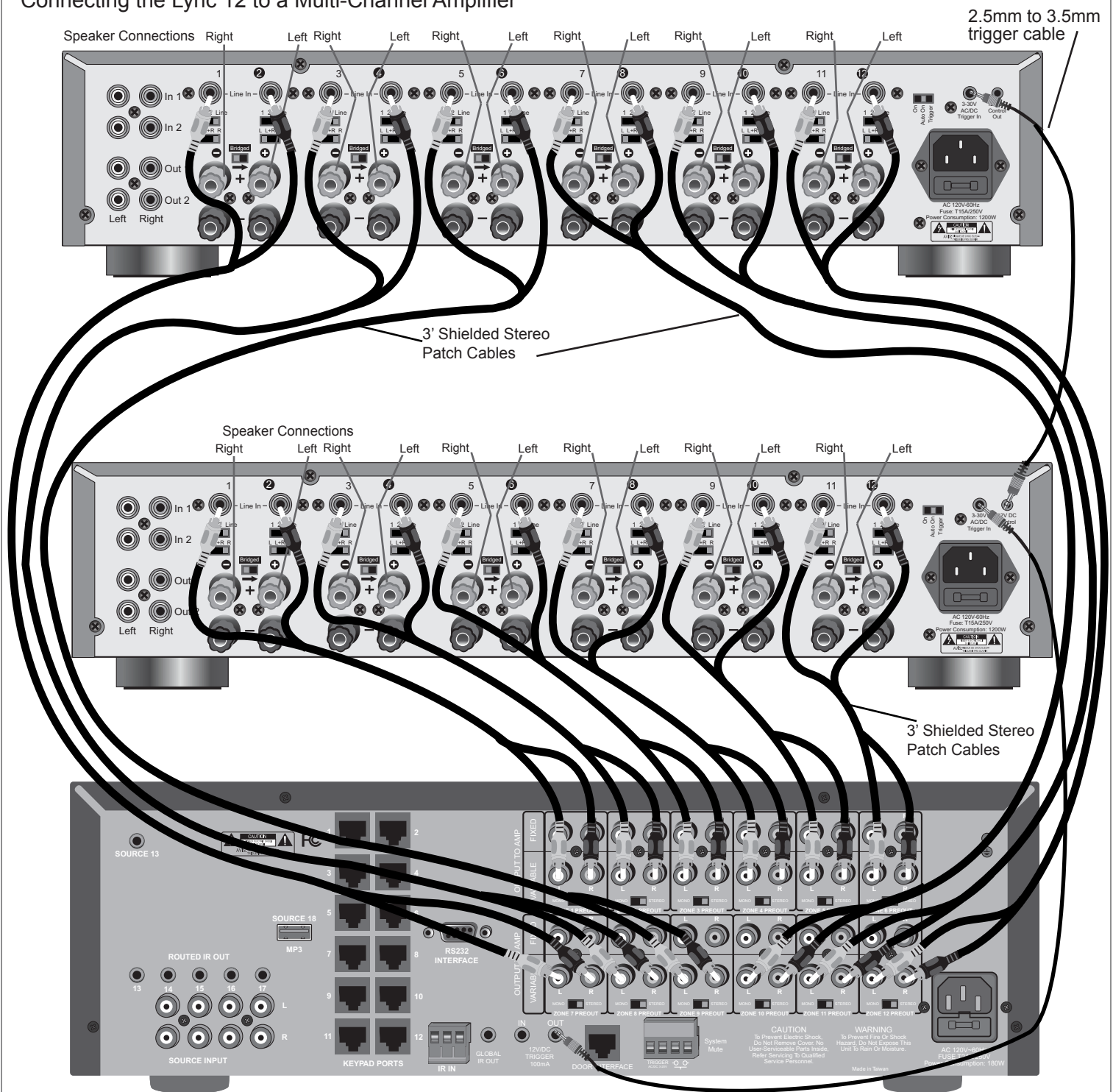
Use the Variable Line Outputs on the Lync to connect to the Line Inputs on the amplifiers for each zone. We include 3' shielded stereo patch cables with the Lync for this purpose.

A **mono** 3.5mm patch cable (included with your system) 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 zone is powered on which means the multi-channel amplifier is only active when a zone is on. When all zones are off, the multi-channel amplifier will automatically return to sleep mode.

**\*\*Always power off the Lync 6 controller and multi-channel amplifier before connecting or disconnecting any 12V Trigger cable.\*\***

# How to Connect

## Connecting the Lync 12 to a Multi-Channel Amplifier



Use the Variable Line Outputs on the Lync 12 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.

A **mono** 3.5mm patch cable (included) should be connected from the Trigger Out on the Lync 12 to the Trigger In on the first multi-channel amplifier. A **mono** 2.5mm to 3.5mm patch cable (included) should be connected from the 12V Control Out on the first amplifier to the Trigger In on the second amplifier. The "trigger" is only active when a zone is powered on which means the multi-channel amplifiers are only active when a zone is on. When all LyncTouch are off, the multi-channel amplifiers will automatically return to sleep mode.

**\*\*Always power off the Lync 12 controller and multi-channel amplifiers before connecting or disconnecting any 12V Trigger cable.\*\***

# How to Connect

## 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 3:00 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 zone 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".

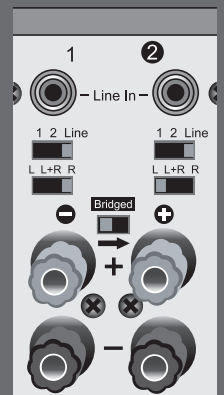
**L, L+R, R Switch:** When the "Line" input is used, this switch is inactive so the setting is irrelevant. However, you might want to set odd numbered channels to Right (R) and even channels to Left (L) just to make it easier to recall which Line Output from the Lync is being sent to each channel.

**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.

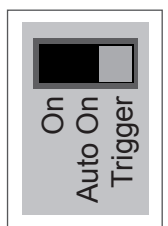
***WARNING: The six (6) recessed switches labeled "Bridged" on the back of the multi-channel amplifier are factory pre-set in the left, Non-Bridged position. They are recessed and pre-set for a very important reason – Because improper use can damage the amplifier.***

***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.***



**On - Auto On - Trigger Switch:** Setting this switch to "Trigger" is best when using Lync with a multi-channel amplifier. For Lync 6, see page 11 for additional details; for Lync 12, see page 12.



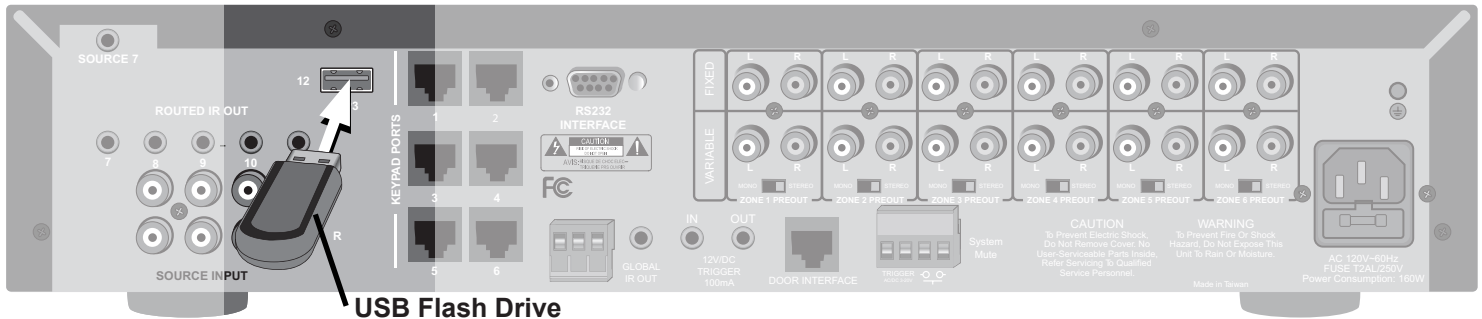
# How to Connect

## Source Connections at the Central Location

Any audio component with a stereo analog RCA-type output can be connected directly to one of the 4 Source Inputs located on the back of the Lync using RCA-type shielded stereo patch cables or a 3.5mm to RCA cable (not included). Source 7 (Lync 6) and source 13 (Lync 12) can accept an analog or a digital optical signal.

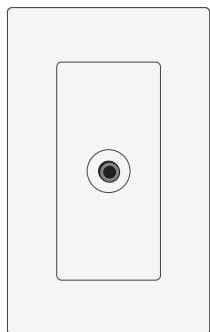
To make use of Lync's built-in mp3 player, connect a USB flash drive (max size 8GB) full of your favorite songs. Songs should be saved in MP3 format. USB hard drives are not supported.

### Lync6 (back)



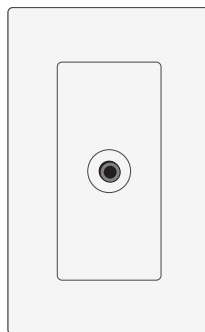
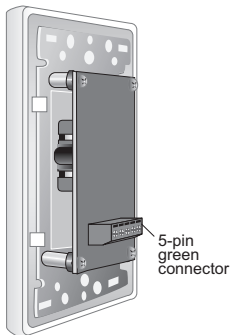
## Source Input Panel Connections Spread Throughout the Home (review page 10)

### Source Input Panels

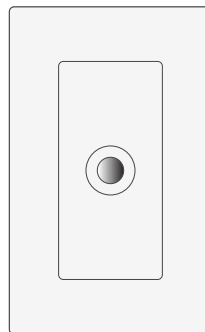


Standard Input Panel (SIP)  
(Passive Device)

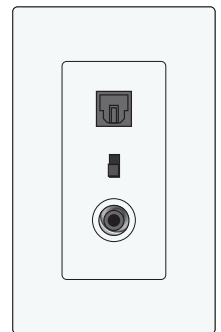
Connects to 5-pin connector on back of LyncTouch



Analog Input (AIP)



Bluetooth Input (BIP)



Digital Input (DIP)

(Active Devices - use power supplied over Cat cable)

Connect one within each zone to the open RJ-45 port on Lync-Touch or directly to central Lync Controller



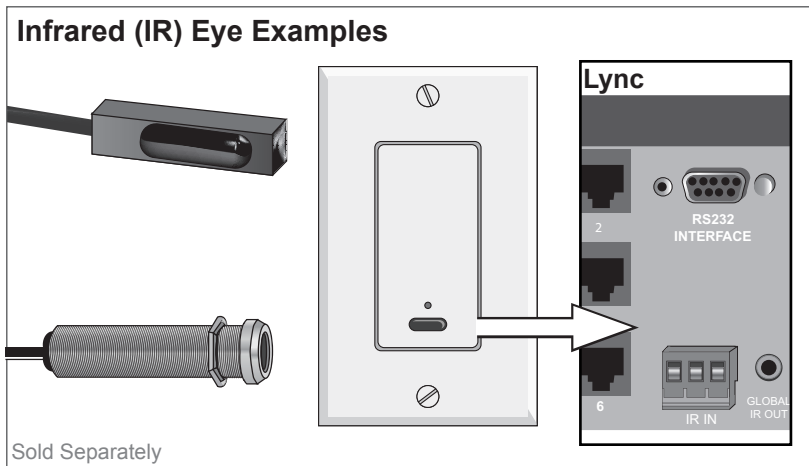
*Should you discover that one or more of your source components has a lower fixed output level than the rest of your components (as is common with some computers and other devices in which the only audio output is a headphone jack), HTD offers two "gain boosters" (models LGB-1 and LGB-4) that are extremely 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](http://www.htd.com).*



# How to Connect

## Making use of Infrared (IR) Capability

A global IR input (labeled “IR IN”) is included on the back of the Lync controller. This allows you to connect an IR receiving eye (sold separately) and pass IR signals to centrally located equipment. An IR eye is often installed in a nearby room such as a dedicated theater room or family room with surround sound installed. 3 conductors of a Cat cable are typically used to connect the IR eye to the central Lync controller. IR commands received at this eye are ONLY output through the Global IR output on the back of the Lync controller. Connect a dual IR emitter to the Global IR Out so that you can control two devices.

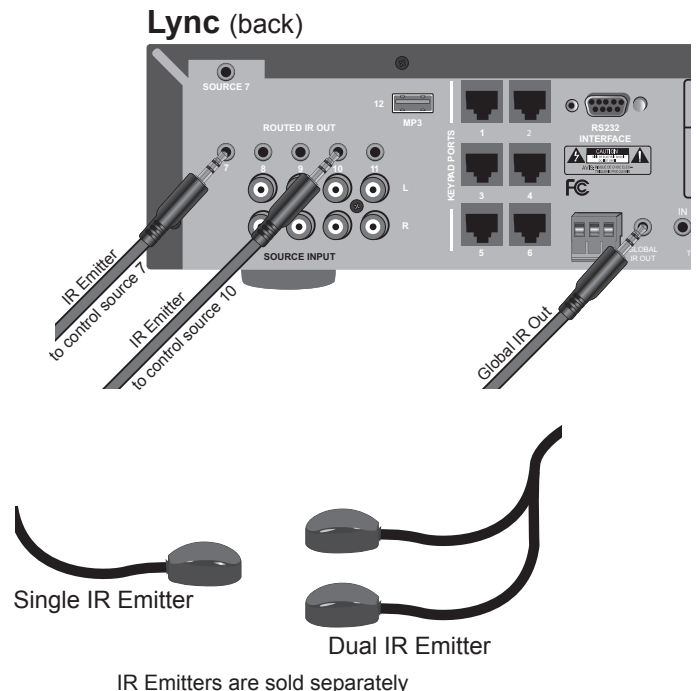
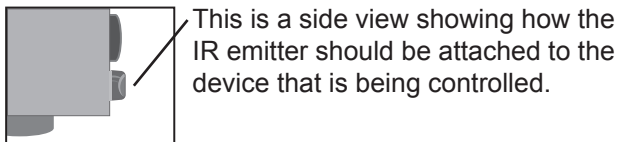
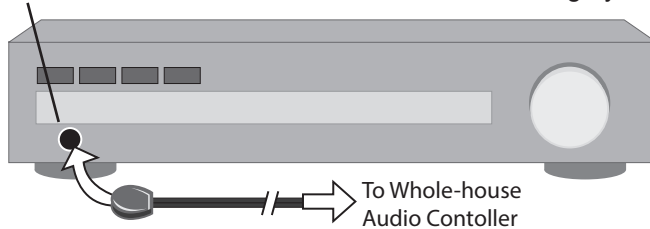


An IR eye Panel (IRP) can be connected to the open RJ-45 port on a LyncTouch and installed in a convenient location within a zone. The eye receives its power over the Cat cable and passes the IR signal back to the central Lync controller for the purpose of controlling centrally located devices (that can be controlled via IR).

The Lync controller includes 5 Routed IR emitter outputs and 1 Global IR emitter output. IR emitters (sometimes called “flashers”) connect to these ports and

“flash” IR signals received by an IR eye. Routed IR means that IR signals are routed only to the source currently selected on a LyncTouch. 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 when it is not selected for that zone.

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





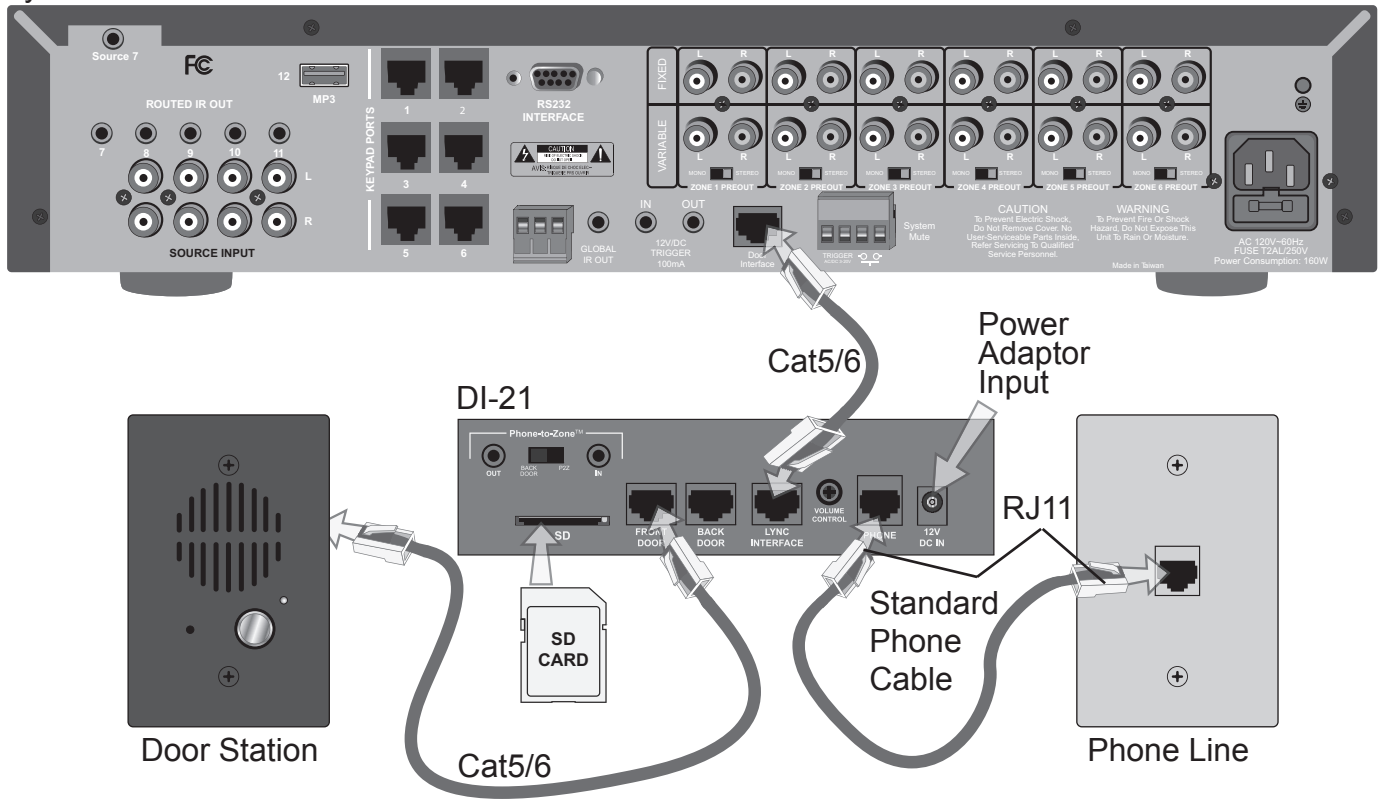
## Connecting a Gateway



Adding a gateway to your Lync controller makes the system capable of being controlled by our free HTD Lync app over your existing WiFi network. The gateway connects to the RS232 Interface using a cable included with the gateway. RS232 is a standard commonly used in the home automation industry. Detailed instructions are included with your gateway and are also available online.

## Door Interface

### Lync Controller



The Door Interface (model DI-21, sold separately) provides a connection point for up to two Door Stations (model DOOR1) and one telephone line. When a doorbell button is depressed or an inbound phone call is sensed, all active zones are muted, and a unique music file is played (use one of our provided MP3 files or replace with your own). Door Stations allow for convenient communication between any inside zone and a front and/or back door. The zone that “answers the door” is put in a one-to-one communication with the Door Station.

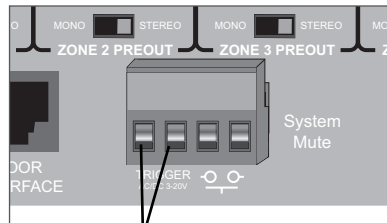
The DI-21 is also required to enable Phone-to-Zone (see page 18-19) in place of using a second/back door. Additional detail is provided on our website and in the manual provided with the DI-21.

# 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.

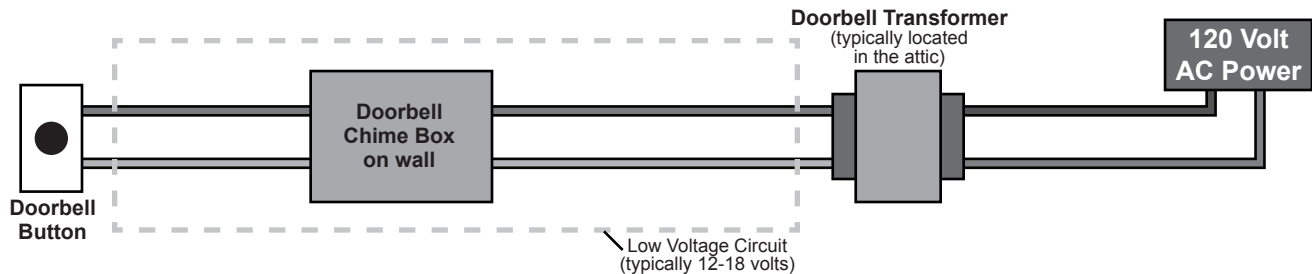


Back view of Lync Controller  
Showing green connector

Use These two connections for the  
system mute feature

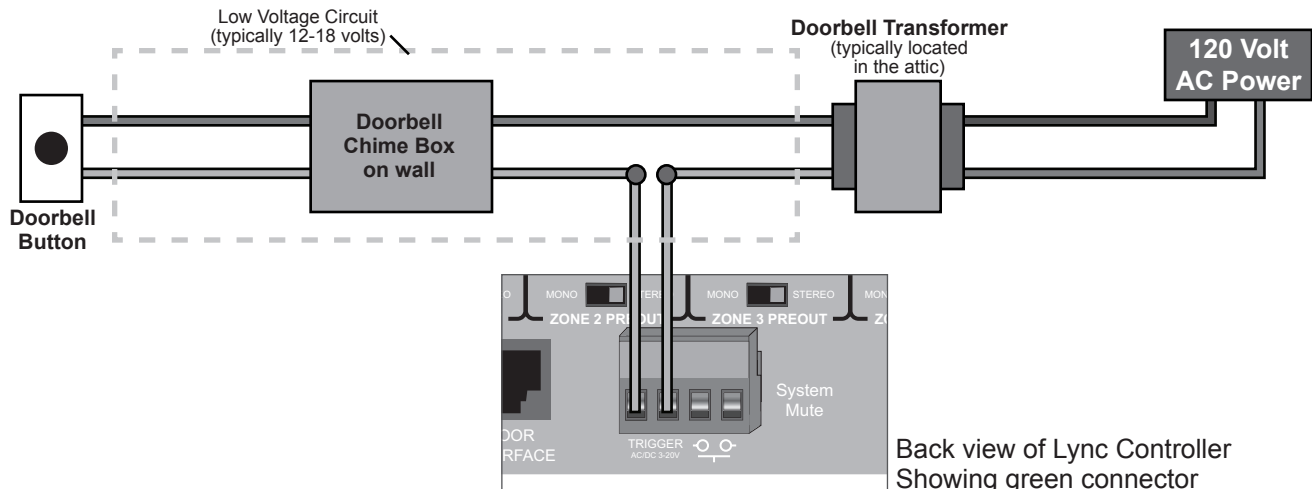
Although there are four connection points on the green connector, your existing doorbell will only require connection into the two points above the "TRIGGER AC/DC 3-20V" label on the back of the Lync Controller (shown above.) The other two connection points are for use with other types of triggering 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

# Phone-to-Zone™

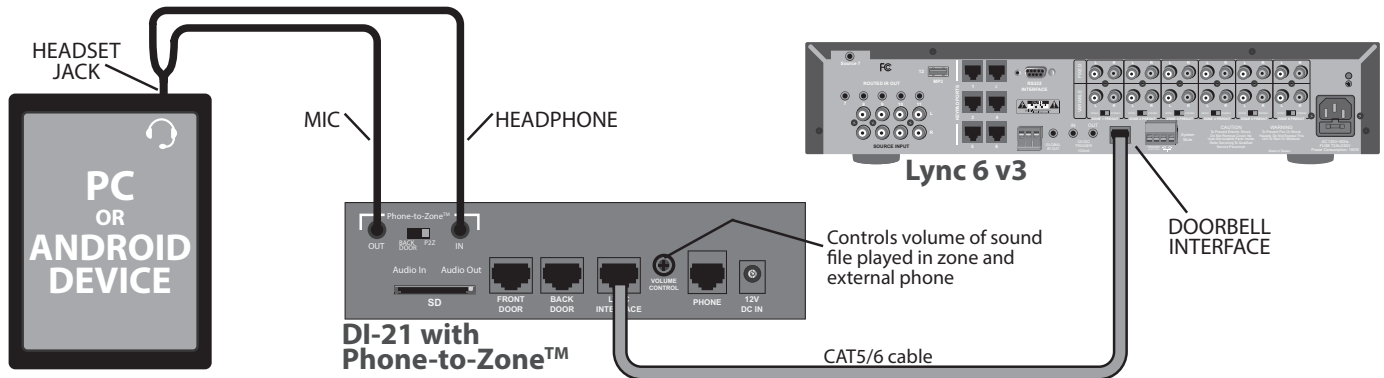
**Phone-to-Zone™** is a unique feature developed specifically for the Lync 6 v3 and Lync 12 v3 controllers. Phone-to-Zone™ allows you to use your smart phone (or other smart device) to “intercom” with any zone in your home! Calls are initiated from the phone and achieve two-way communication with any 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 device 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 a smart device with the Android operating system 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 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!).

## Using Phone-to-Zone

1. Launch the Phone-to-Zone app on your smart phone.
2. Press "CONNECT". This will connect your smart phone with the centrally located Android device. 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 zones that are currently powered on.
  - 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.

Note: If a zone you are calling is currently powered off, it will be automatically powered on and set to the source called "Intercom".

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 both 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 LyncPad) 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 P-to-Z app as one of your four shortcuts.

# Installing the LyncTouch

LyncTouch is a combination touch-screen and keypad controller that can be installed before or after you have the rest of your system set up and controllable via the HTD Lync app.

## Installing a LyncTouch when you are already controlling the system via the HTD Lync app:

1. Power off all zones. This is most easily accomplished from a single button on the app.
2. Power off the amplifier(s). If your system was installed using the recommended Trigger feature, step 1. should also put your multi-channel amplifier(s) into stand-by mode. If instead, your amplifier(s) is set to always be powered on, then you will need to power off each amplifier using the button on the front. It is not necessary to press the power button on the front of the amplifier if it is already in stand-by mode.
3. Power off your central Lync controller (model Lync 6 or Lync 12) using the power button on the front.
4. Install each LyncTouch following the directions on the following page.
5. After all LyncTouch have been installed, power on the Lync controller by pressing the button on the front. It is at this point that the Lync controller searches for connected devices. Devices are only recognized by the system when the Lync controller is first powered on. If your amplifier(s) was left powered on and in stand-by mode that is all you need to do. If the power button on the front of your amplifier was previously turned off (out position), then press it back in.

## Installing a LyncTouch with a Lync system that is being set up for the first time:

1. Make sure any amplifiers are in sleep mode or powered. Make sure the central Lync Controller is powered off using the button on the front.
2. Install each LyncTouch following the directions below on page 2.
3. After all LyncTouch have been installed, power on the Lync controller by pressing the button on the front. It is at this point that the Lync controller searches for connected devices. Devices are only recognized by the system when the Lync controller is first powered on. Similarly press the button on the front of each amplifier to turn on.

## Overview of how to install a LyncTouch:

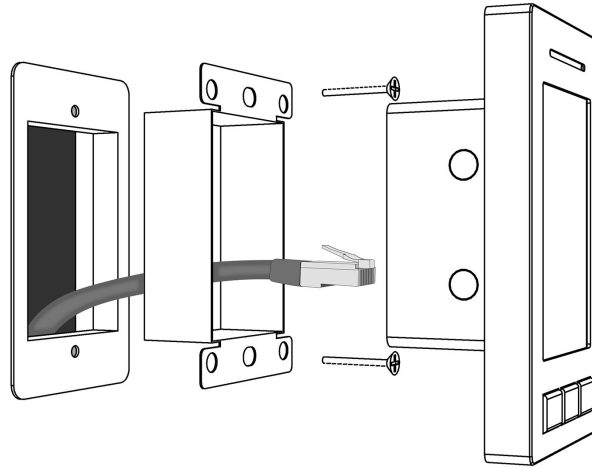
We have made installing LyncTouch easy with our patent-pending design. The enclosure on the backside of the LyncTouch has been matched in size to a custom-made metal ring that you install into a flat surface, typically a wall. Once installed, you simply plug the Cat 5 or Cat 6 cable (already terminated with an RJ-45 connector) into either of the RJ-45 ports on the back of the LyncTouch and push the LyncTouch in until it is flush with the wall. Strong, neodymium magnets mounted to either side of the LyncTouch enclosure adhere to the metal ring and keep it in place.

Watch “How to Install Your LyncTouch Keypad” on our website or youtube for a video demonstration.

# Installing the LyncTouch

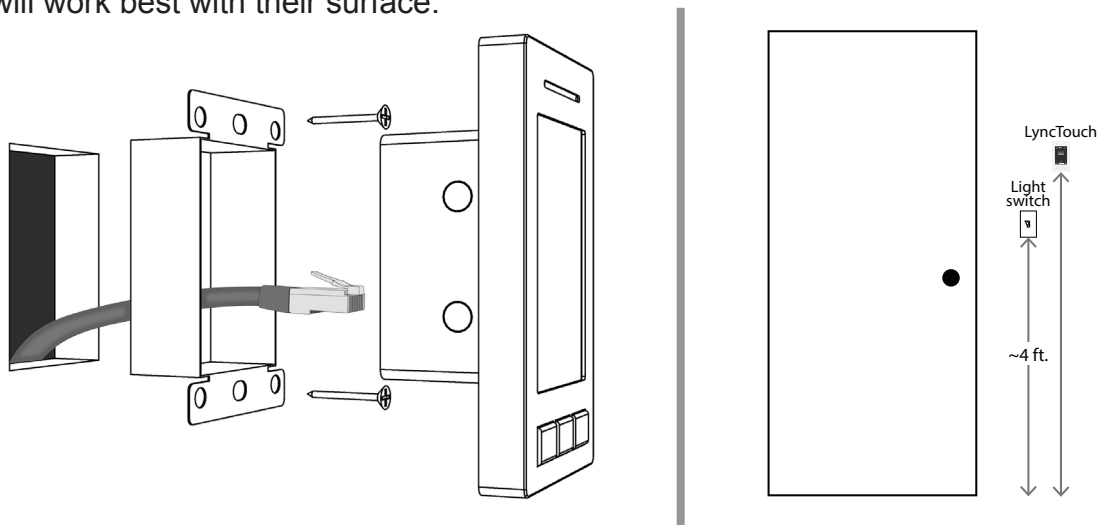
## Mounting into a wall using a low-voltage mounting bracket or junction box

When installing into a wall, we recommend using an OPEN BACK Junction Box or Low-Voltage Mounting Ring. It is important that the LyncTouch be able to slide easily into the available space. This means keeping the space clear of debris and unnecessary cables and connectors. The cable(s) that connects to the back of the LyncTouch needs to be able to move freely in and out of the space. If your junction box or mounting bracket includes a back that is inhibiting the free movement of your cable(s), we recommend using a rotary (or similar) tool to cut out or widen the opening through which the cable moves. Keep in mind that most building codes only require a closed back junction box for low voltage items such as LyncTouch when they are installed into a wall where the adjoining space is not conditioned, such as an attic or exterior wall.



## Mounting into a Surface without a Junction Box or Low-Voltage Mounting Ring

LyncTouch can also be mounted directly into a flat surface without the need for a junction box or low-voltage mounting ring. This method is not recommended for dry-wall, but works well with hard surfaces like wood. For this type of installation, HTD relies on the customer to determine what type of fastener (e.g. wood screw) will work best with their surface.



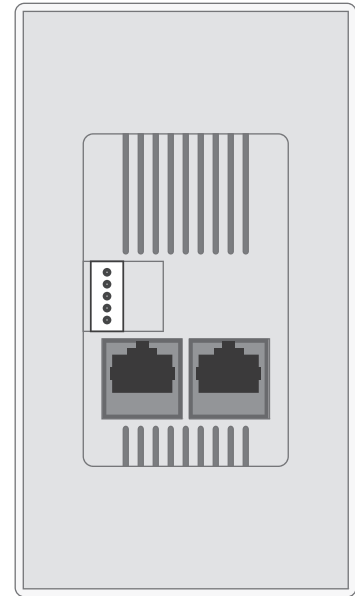
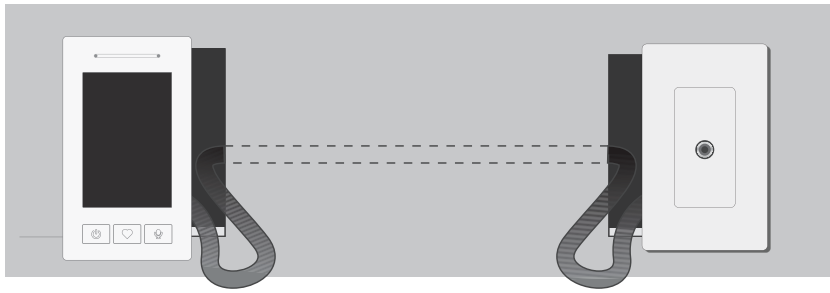
## Recommended Mounting Height

Unlike a light switch which is often positioned about four feet from the floor, LyncTouch is best mounted slightly below eye level. This places LyncTouch in the most ergonomic position for the touch-screen display. Whenever possible, avoid placing LyncTouch within the same stud space as electrical cables operating at high voltage in order to mitigate the potential of adding electrical noise into your system.

# Installing the LyncTouch

## Connecting a Standard Input Panel

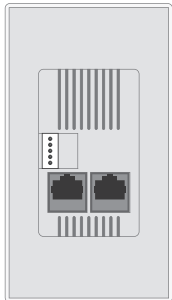
A Standard Input Panel (SIP) offers an easy and economical connection point for attaching an audio source component within the same room as the LyncTouch. That source can then be made available to every zone. The SIP connects to the back of a LyncTouch using 5 of the 8 conductors found in a Cat cable and a special 5-pin adapter included with the SIP. That adapter plugs into the white connector shown in the image at right. A SIP can be installed directly next to the LyncTouch or up to 80 feet away.



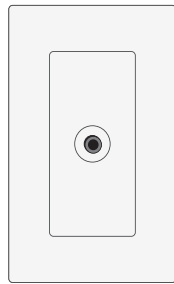
LyncTouch (Back)

## Connecting an Analog Input Panel (AIP), Digital Input Panel (DIP) or Bluetooth Input Panel (BIP)

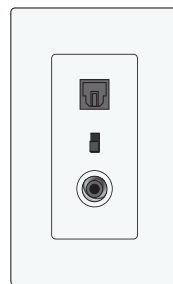
These three active devices can be connected directly to the central Lync controller or to the back of a LyncTouch using the available RJ-45 port. When this is done, be sure to insert an RJ-45 termination plug included with every LyncTouch, AIP, DIP, and BIP into any open port to ensure proper operation.



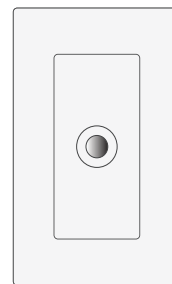
LyncTouch (Back)



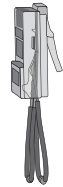
Analog Input Panel (AIP)



Digital Input Panel (DIP)



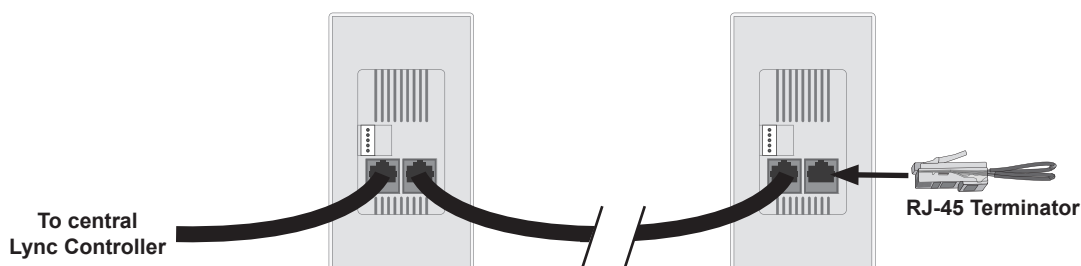
Bluetooth Input Panel (BIP)



RJ-45 Terminator

## Connecting a second LyncTouch within the same zone

In larger rooms, it is often convenient to install more than one LyncTouch. Similar to adding an AIP, DIP, or BIP (see above), a second LyncTouch can be connected to the open port on the first LyncTouch or back at the central Lync controller with a special “Y” adapter (call for more info). When this is done, be sure to insert an RJ-45 termination plug included with every LyncTouch, AIP, DIP, and BIP into any open port to ensure proper operation. Also to ensure proper operation, the “address” of the first and second LyncTouch need to be unique. See “Address” on page 5 for more information.






# Using the LyncTouch

LyncTouch is primarily used to control the zone to which it is connected. A handful of simple commands can also be applied across all zones at once, including power all off and party mode.

The user interface consists of:

- a 3.5" diagonal color touchscreen display
- 3 tactile buttons:
  - Power Button
  - Quick Key (Favorite) Button
  - Talk Button
- 2 microphones (only active while the Talk Button is pressed)

## Power Button

 As its name implies, the Power Button is primarily used to turn a zone on and off, but it can also be used to quickly mute the volume within the zone and power off all zones.


**Power On** – when a zone is OFF, a quick press of the Power Button will turn it ON

**Mute** – when a zone is ON, a quick press of the Power Button will mute the volume in the zone. Press the Power Button again to un-mute.


**Power Off** – when a zone is ON, it can be powered OFF by pressing the Power Button for approximately 1 second. Once turned off, LyncTouch will display “OFF”. Release the Power Button.

**Power Off All Zones** – when a zone is ON, press and hold the Power Button for approximately 3 seconds. The display will first display “OFF” followed by “ALL ZONES OFF”. Release the Power Button.

## Quick Key

 The Quick Key is a button you can customize to allow a single button press to turn on the zone and then activate up to two separate ACTIONS. The most common use of the Quick Key is to turn on a zone and set it to your favorite source [ACTION 1] at your favorite volume [ACTION 2]. Alternative actions include Power Off, All Zones Off, DND (Do Not Disturb) On, and DND Off.

## Talk Button

 Press and hold the talk button to talk into any single zone OR all zones that are currently powered on. Read more under the heading: **Using the Intercom**.

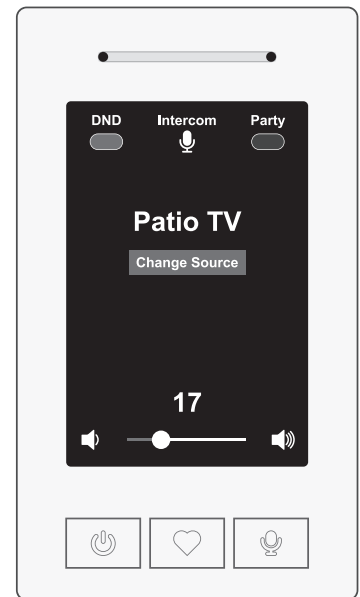
**DND** – Do Not Disturb. When selected, global commands such as ALL OFF, Intercom ALL, and Party Mode will be ignored.

**Intercom** – Touch this area to select a zone in which to intercom. Read more under the heading, “Using the Intercom”

**Party** – Party Mode. When selected, all zones not currently in DND will be powered on and set to the source currently selected for this zone. Prior to executing this command, a message will first appear requiring confirmation of this action.

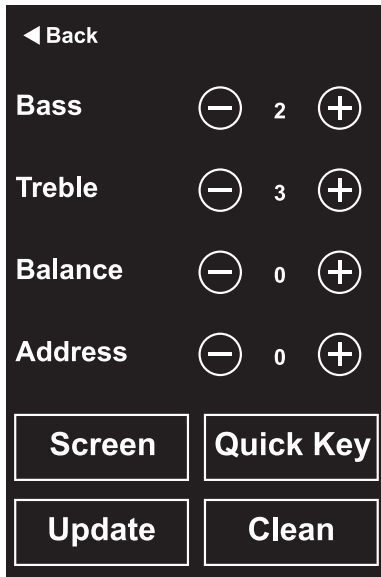
**Source Name/Change Source** – Touch this area to select a source from a list of all available sources.

**Volume Bar** – Control volume dynamically by sliding your finger along the slider bar or by pressing and holding the volume up or volume down icons. Incrementally adjust volume by tapping on the volume up or volume down icons.



## Using the LyncTouch

\*\*\*To enter setup mode, press and hold the Quick Key Button for approximately 3 seconds.\*\*\*



Main Settings Screen

**Bass** – press the “minus” and “plus” buttons to decrease/increase the amount of bass in the zone. This adjustment can also be made within the HTD Lync app. The default and most common setting is “0”.

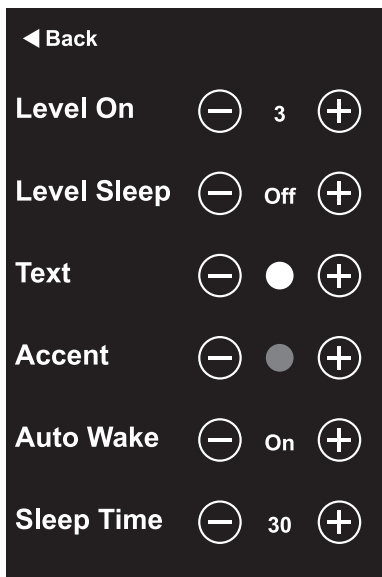
**Treble** – press the “minus” and “plus” buttons to decrease/increase the amount of treble in the zone. This adjustment can also be made within the HTD Lync app. The default and most common setting is “0”.

**Balance** – press the “minus” and “plus” buttons to transfer the relative volume level between Left (minus) and Right (plus). This adjustment can also be made within the HTD Lync app. The default and most common setting is “0”. Balance is only adjusted in rare circumstances where a room has an odd shape and/or speakers are not evenly located.

**Address** – To ensure proper operation, every active device (LyncTouch, AIP, DIP, BIP) installed within the same zone needs to be assigned a unique Address (sometimes called ID). LyncTouch should remain at the default of “0” unless a second LyncTouch is installed. The second LyncTouch should be assigned to an address of 1, 2, 3, or 4 just as long as it does not match the address used by an AIP, DIP, or BIP (which similarly are assigned an address of 1, 2, 3, or 4) that is installed within the same zone.

### Screen

Customize how the display behaves when active and in stand-by



Screen Settings

**Level on** – The brightness level on a scale of 1 to 5 (brightest) of the touchscreen display when the LyncTouch is being used. The default and most common setting is “3”.

**Level sleep** – The brightness level on a scale of 1 to 5 (brightest) or completely “Off” when the zone is turned on but the LyncTouch is not actively being used. The default and most common setting is “Off”.

**Text** – The color of text that can be changed. Note that some text is always white or gray and will not change based on this setting. The default text color is white.

**Accent** – The accent color displayed throughout screen pages. The default accent color is blue.

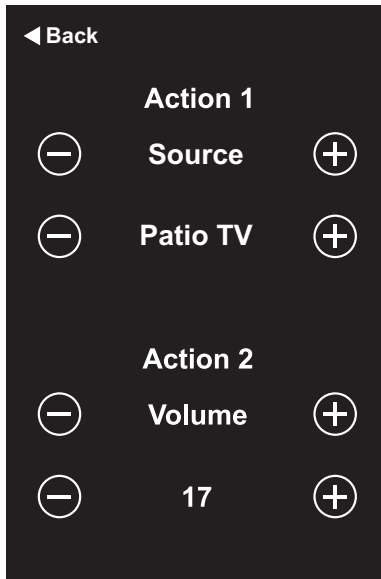
**Auto Wake** – When set to “Off” (default), the LyncTouch display will not light up (wake up) when changes to the zone are made by the HTD Lync app or another LyncTouch installed within the same zone. When set to “On”, the display will wake up with any adjustments made to the zone.

**Sleep Time** – Determines the number of seconds the screen will stay at the “Level On” brightness level after no interaction with the LyncTouch before returning to the “Level Sleep” setting. Available in 5 second increments between 5 and 60. 15 is the default.

## Using the LyncTouch

### Quick Key

Customize the favorite (heart) button. Actions assigned here will be executed with a single press of the Quick Key button.

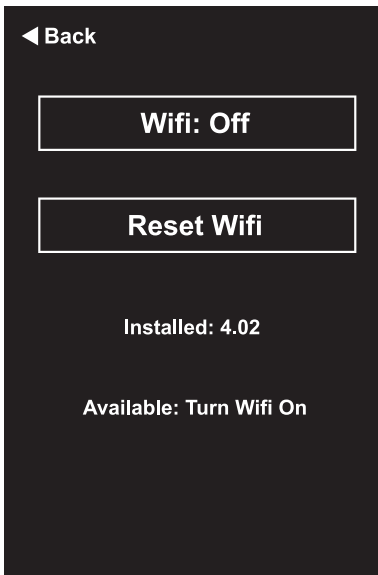


**Action 1** – press the first pair of “minus” and “plus” buttons to toggle between your options for the first action. When “Source” is selected, use the second pair of “minus” and “plus” buttons to select from your available sources; when “Volume” is selected, use the second pair of “minus” and “plus” buttons to set a volume level between 1 and 60 (max).

**Action 2** – As long as an action other than “None” has been assigned to Action 1, Action 2 will also be executed when pressing the Quick Key. The same options found in Action 1 are available for Action 2.

### Update

Occasionally, HTD may elect to provide an update to the firmware on the LyncTouch. Use this screen to temporarily connect to your own private WiFi network with internet access in order to check for the availability of new firmware and to update the firmware when available. The LyncTouch will only maintain connection to your WiFi network when you turn WiFi on and continue to stay on this screen. Once you exit this screen, the LyncTouch will automatically disconnect from your network.



### Updating the Firmware

**Step 1.** Press “Wifi: Off” to turn on the WiFi chip embedded in LyncTouch. The screen will display “WiFi: Started . . .”. If you have previously connected the LyncTouch to you has never been connected to your WiFi network or it does not detect the network to which it was previously attached, it will display “WiFi: AP Mode”. When you see this, proceed to Step 2.

**Step 2.** AP Mode. In this mode, LyncTouch is broadcasting its own WiFi network and is ready to be connected to your existing private network. Open a mobile device near the LyncTouch and look for a WiFi network called “LyncTouch-X” where “X” represents the zone number in which the LyncTouch is attached. Connect to that network. A page should automatically appear on your mobile device titled, “LyncTouch WiFi Setup Wizard”. [note: if this page does not automatically appear, type 192.168.4.1 into the address bar of your browser]

**Step 3.** Press SCAN and select your private network. Enter and save the password for this network. At this point, LyncTouch will display “WiFi: Starting . . .” and your mobile device will be disconnected from the LyncTouch-X network. If successful, the display will change to “WiFi: Connected” and you can proceed

to Step 4. If the LyncTouch returns to “WiFi: AP Mode”, then the LyncTouch did not successfully attach to your network. Return to Step 2 and try again, paying close attention to the password entered.

## Using the LyncTouch

**Step 4.** Once the LyncTouch is connected to your private WiFi network, it will search the HTD secure cloud to check for the most current firmware. If your LyncTouch firmware matches the current firmware, the screen will display “Keypad at Latest Version” and you can press the back button to return to the setup screen. At this point, the LyncTouch WiFi chip will turn off and you are done. If instead you see the message “Update Firmware” in red, proceed to Step 5.

**Step 5.** If a newer version is available than is currently installed on the LyncTouch, press “Update Firmware” to start the process of updating the firmware from our secure cloud. This process typically takes a minute or two but can take up to 10 minutes depending on the strength of your WiFi signal and your internet connection speed. Once updated, the LyncTouch will automatically turn off its WiFi chip and restart to complete the firmware update process. A message will display telling you to power cycle the central Lync controller. At this point, it is recommended that you move to the next LyncTouch so that you only need to power cycle the central Lync controller one time after all have been updated.

### Clean

Press to temporarily disable touch on the display, allowing 30 seconds to clean the screen using a micro-fiber cloth (we include one for free with every order).

## Using the Intercom

**Step 1.** To initiate an intercom call, touch the intercom icon at the top of the screen. A list of available zones will appear.

**Step 2.** Select the zone in which you want to intercom. If that zone is currently powered off or in DND mode, you will be asked if you would like to turn the zone on or override DND.

**Step 3.** Press and hold the Talk button while you speak into the zone. Any source currently playing in your zone as well as the receiving zone will be muted while the Talk button is depressed. Your voice will be heard over the speakers located in that zone, but not in your own.

**Step 4.** The screen on the LyncTouch located in the receiving zone will display the zone from which the intercom call was initiated. Press and hold the Talk button in that zone to talk back to the initiating zone.

It is possible to start an intercom call into “All Zones”. When this option is selected, only zones currently powered on and not in DND mode will hear the call. The first zone to answer the call will at that point be placed in a one-to-one intercom call with the initiating zone.

Note that the only way to listen to another zone is while the Talk button is depressed from within that zone. In this way, it is not possible to eaves drop on a zone.

### **Intercom volume:**

The Lync system intercom feature has been designed such that the volume output is a fixed volume. Whether the LyncTouch 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 LyncTouch’s volume level. A LyncTouch set to Mute will **NOT** hear an incoming call although the display will change to indicate that a call is inbound.

# Using the LyncTouch

## Using the Intercom (continued)

**Intercom with Front/Back Door** - Applies only if you have the Door Interface module (DI-21) and a Door Station at the Front and/or Back Door.

When a visitor presses the doorbell button, all zones will hear the door sound file for that door station. Note that Lync V3 controllers can be customized using the HTD Lync app to only ring into specific zones, leaving other zones undisturbed. The first zone to answer the ring by pressing the Talk button will be placed in one-to-one communication with the door station. Releasing the Talk button allows you to hear what is occurring at the door, i.e. the visitor cannot press anything to talk into the house. Press “End Call” to end communication with the door. Front Door and Back Door are also displayed as an option in the list of available zones. You can initiate a call to either the front door or back door by simply selecting it from the list. Similarly, you can monitor what is occurring at the door by selecting it and then pressing the Talk button for approximately one second and releasing.

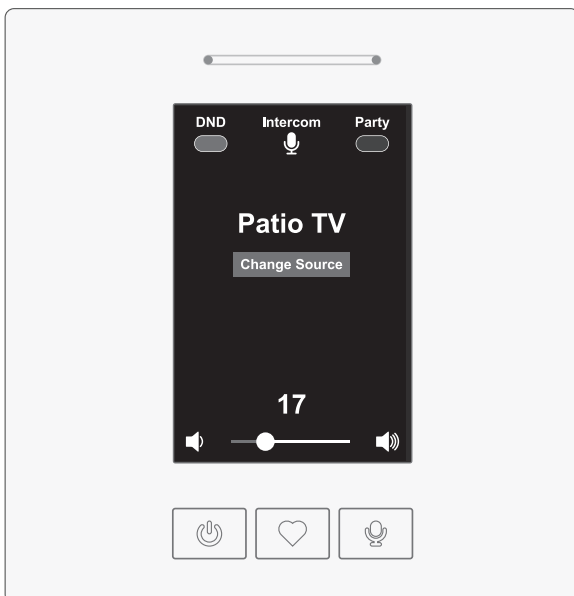
## Customize zone and source names with the HTD Lync app

Zone names will default to Zone 1, Zone 2, etc. and Source names will default to Source 1, Source 2, etc., but can easily be changed to match your zones and sources using the free HTD Lync app which is available for iOS and Android. Edit the fields for KEYPAD ZONE NAME and KEYPAD SOURCE NAME to customize what appears (max 10 characters) on LyncTouch.

## LyncTouch - Double Gang Size

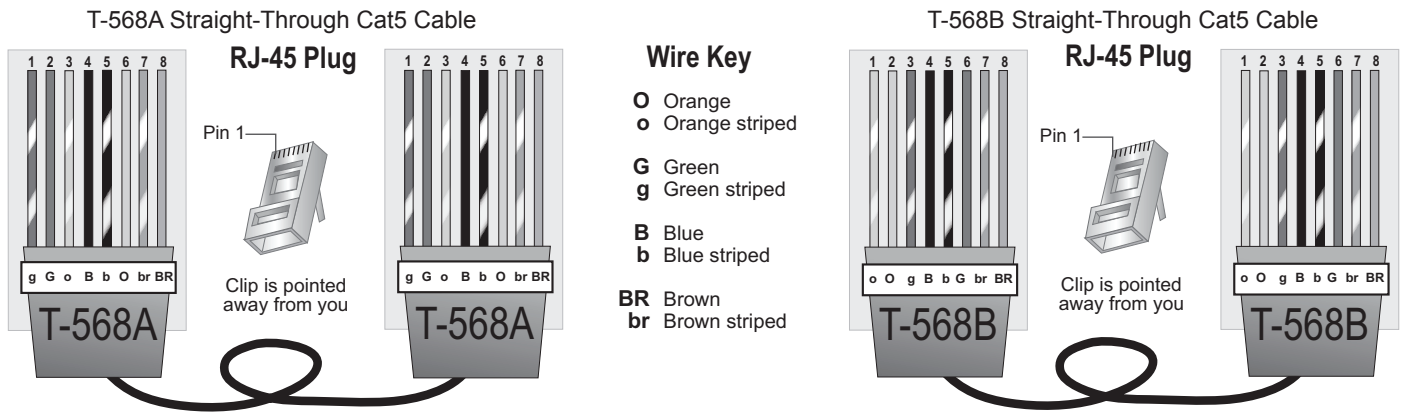
If you are replacing our previous LyncPad model or if a double-gang junction box has already been installed, you will likely prefer to install a LyncTouch-D (double gang). LyncTouch-D provides the same functionality and installs in the same manner as the standard (single gang size) LyncTouch, but it is made with a wider faceplate that completely covers a double gang cutout.

LyncTouch-D can be purchased with a “clean” faceplate or with a faceplate that includes a built-in 3.5mm stereo audio input - used instead of adding a Standard Input Panel (SIP) elsewhere in the room - and/or a built-in IR receiving eye - used in place of a separate IR Panel (IRP). Additional detail is provided on our website.



## Addendum: Cat Cable and RJ-45 Plugs

After running Cat cable (Cat 5, Cat5e, Cat6, etc.) as needed for your installation, use a crimping tool to attach RJ-45 plugs at both ends. Always follow a standard T-568A (recommended) or T568B connection. **Make sure the same standard is used at both ends of the cable.** Never use a “crossover” cable where the two ends of the cable are wired differently.



### Tips for Running Cat Cable and Connecting RJ-45 Plugs:

- Do not deform, do not bend, do not stretch, do not staple, do not run parallel with power cables, and do not run Cat cables near noise inducing components.
- Leave at least 3 feet of extra cable at a LyncTouch or source input panel location; 6 feet at the central location. Do not use a patch panel as they only create an opportunity for mis-wiring.
- If you are pulling cables through holes, it is easier to attach RJ-45 plugs after the cable is pulled.
- At the point where the cable attaches to the RJ-45 plug, no more than 1/2" of the Ethernet cable should remain untwisted otherwise it will be susceptible to crosstalk.
- Looking at the RJ-45 plug with the clip facing away from you, pin 1 is on the left and brown is always on the right.
- Odd numbered pins are always striped; even numbered pins are always solid colored.

Note: A short, pre-terminated Cat cable was included with your system. If you are experiencing an issue with a LyncTouch or input panel, try taking that device to the central location and connecting it to the same zone using this cable. Restart the Lync 6 or Lync 12 controller. If the device functions correctly here but not within the zone, the most common issue is with one end of the long Cat cable being terminated incorrectly. If the problem persists after re-terminating both RJ-45 plugs, it is possible the Cat cable has somehow been damaged. Contact HTD for assistance.



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.

