

LEA 
**Connect
Touch
Professional
Amplifier**



LEA Connect Touch Professional Amplifier User Guide

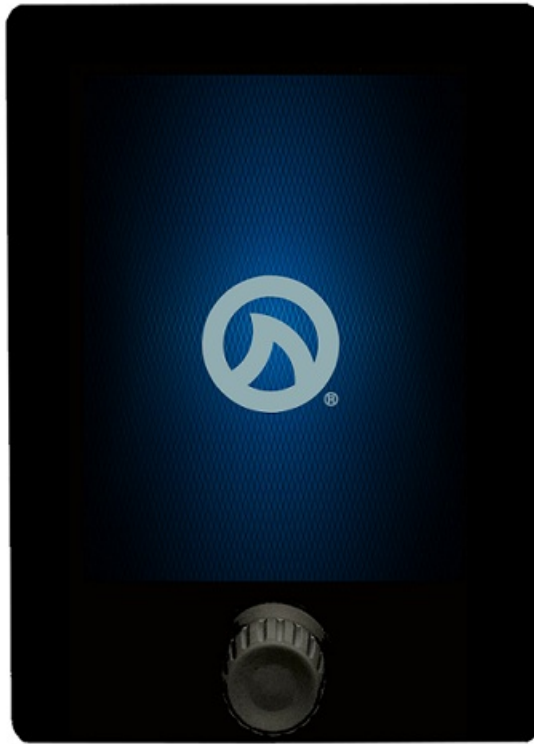
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LEA Connect Touch Professional Amplifier



FAQs

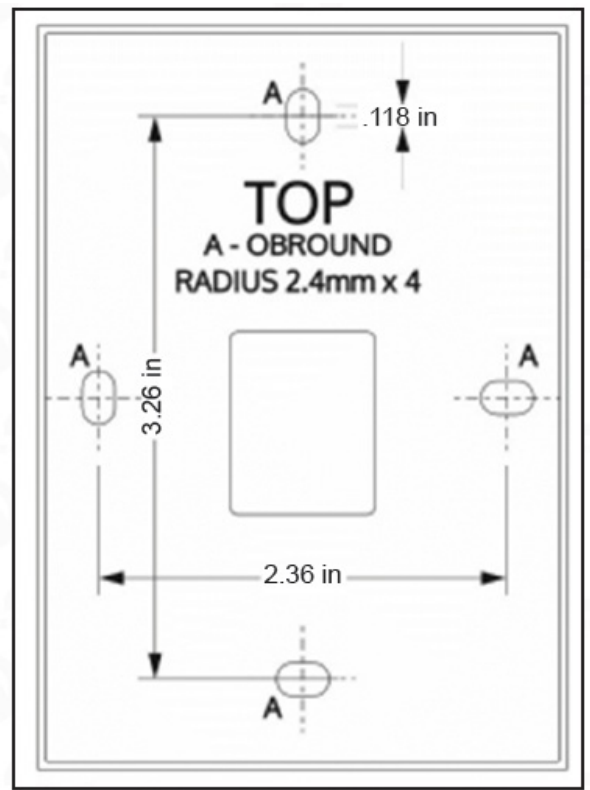
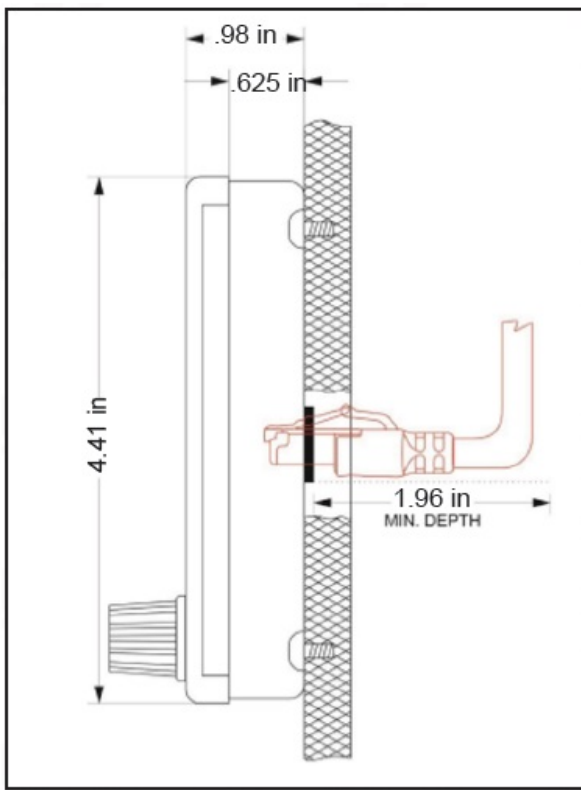
- **Can I use the Connect Series Touch without a Connect Series Amplifier?**
 - No, the Connect Series Touch must be used with a Connect Series Amplifier for proper functionality.

Installation

The Connect Series Touch is designed to fit into the provided bracket, and is secured with two counter-sunk screws into the top and two underneath at the bottom (supplied). The bracket is surface mounted onto the wall with four screws. Note that the top and bottom holes (assuming portrait mounting) are spaced to align with US single gang light switch/socket back boxes (83mm/3.281" spacing). The other two holes (60mm spacing) are spaced to align with UK or EU single gang light switch/socket back box. The Connect Series Touch will also require a hole in the wall with sufficient size to accommodate the network socket and sufficient depth to accommodate the network cable. Be aware that network cables are variable in their depth requirements – our recommendation is at least 50mm/2 inches behind the wall surface to ensure that the cable is not bent beyond its specification.

MOUNTING INSTRUCTIONS:

1. Remove the 4 phillips head screws on the top and bottom of the Connect Series Touch
2. Pull the touchscreen out of the mounting chassis
3. Using the 4 mounting holes, secure the chassis using the desired mounting holes
4. Install the ethernet cable to the Connect Series Touch
5. Press the Connect Series Touch into the mounting chassis and secure the 4 Phillips head screws on the top and bottom



PRODUCT INFORMATION

Important Notes

- The Connect Series Touch only controls volume and source selection for LEA Connect Series Amplifiers. 3rd Party control is not currently supported.
- The Connect Series Touch only supports DHCP IP addressing. A DHCP server must be on the network to use the CS Touch. Static IP Addressing will be supported soon.
- The Connect Series Touch is a Master/Slave device. Therefore, you must have at least one Connect Series Amplifier and one Connect Series Touch on the network to configure your Connect Series Touch.
- The Connect Series Touch is powered by PoE. You must have the Connect Series Touch connected to a network switch port with PoE enabled. You cannot connect the Connect Series Touch directly to the Connect Series Amplifier network port.
- Please make sure your Connect Series Amplifier is on the latest firmware version. The Connect Series Touch will not show up in the WebUI if you have outdated firmware. The latest firmware can be found here:

<https://leaprofessional.com/downloads/>

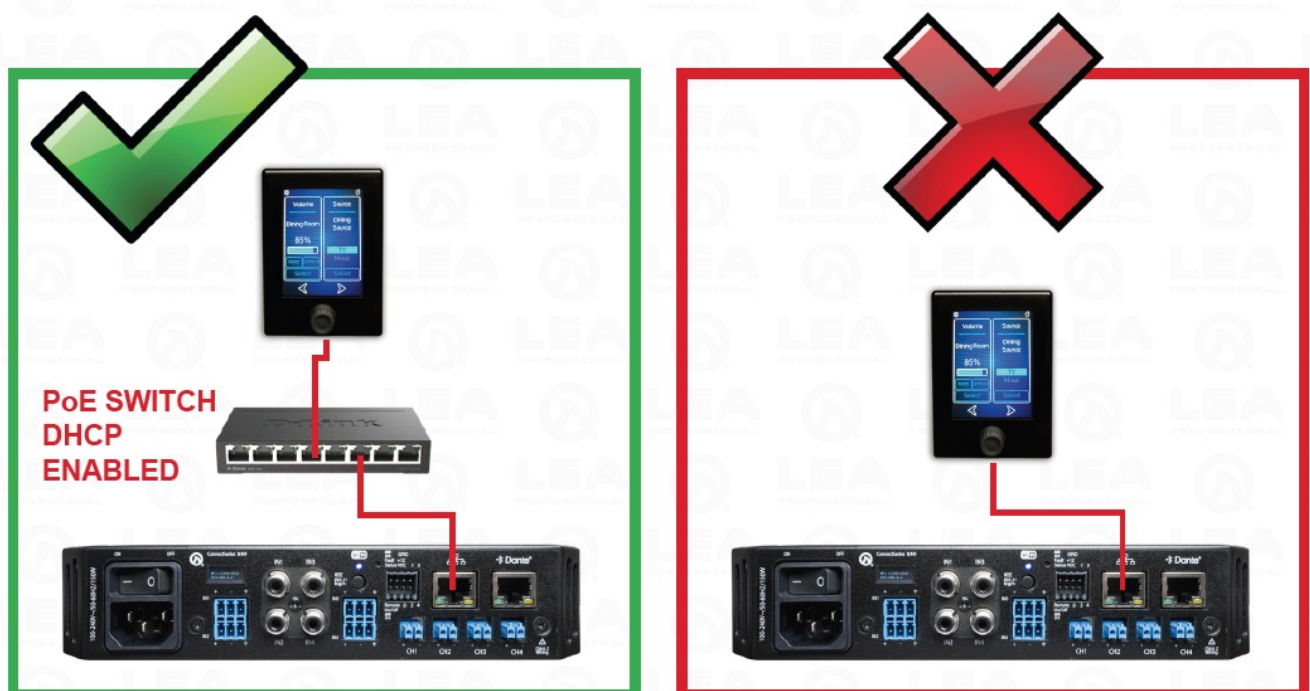


System Configuration

- **Note 1.** The Connect Series Touch must be used in conjunction with a Connect Series Amplifier. The Connect Series Touch will not display in the WebUI without a Connect Series Amplifier on the same network as the Connect Series Touch.
- **Note 2.** The Connect Series Touch can control large systems, however, there are some limitations. If you are designing a large system with a Connect Series Touch and receive an error message when saving the Connect Series Touch file – you may have reached it's maximum configuration limit.
 - There are an infinite amount of configurations, but here are the general limits:
 - 100 amplifier channels of volume control
 - 65 amplifier channels of source select
 - Combination of 80 amplifier channels of volume control and 65 channels of source select.
- **Note 3.** The Connect Series Touch currently only supports DHCP networks. Static IP addressing will be included soon with a firmware update. A DHCP server must be used on the same network as the CS Touch.
- **Note 4.** The Connect Series Touch communicates with the amplifier via UDP on port 7076 and 7077. If you are installing the CS Touch on a large network and experience latency issues with the Connect Series Touch performance you may want to prioritize the Connect Series Touch traffic on your managed switch or put the Connect Series Touch and Connect Series Amplifiers on their own network.

Network Setup

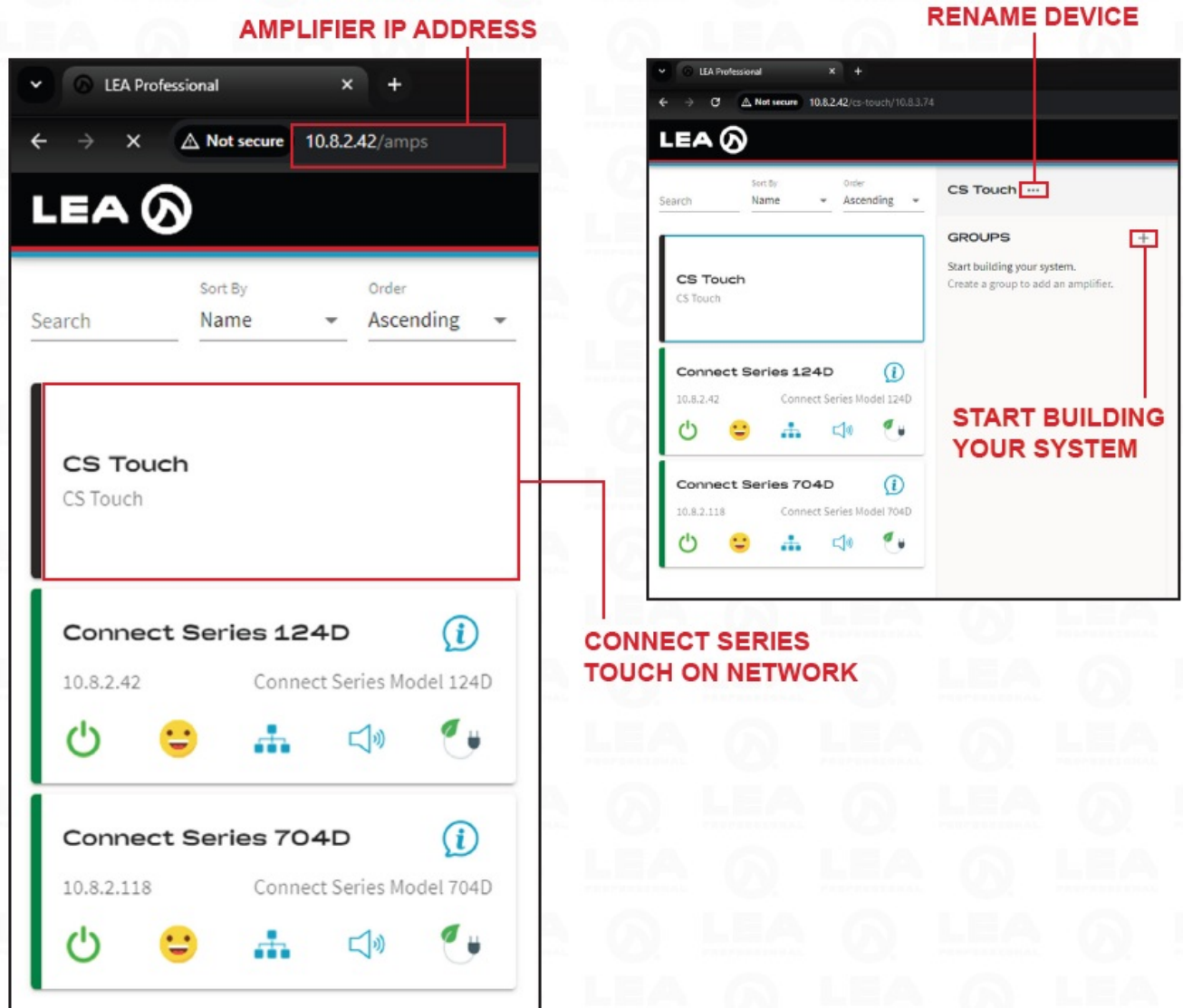
- To set-up the Connect Series Touch, an LEA Connect Series Amplifier is required, along with a network switch/router capable of providing PoE (Power over Ethernet).
 - A PoE power injector can be used when connecting the CS Touch to a non-PoE LAN switch port.
 - The Connect Series Touch is currently DHCP only. Support for Static addressing will be added in future firmware updates.
- An LEA Connect Series Amplifier must be connected to the same network as the CS Touch.
- The CS Touch requires PoE power. The LAN port on a Connect Series Amplifier does not provide the necessary PoE power for the CS Touch.



Setting Up Your System

SET UP INSTRUCTIONS:

1. Open your browser and type in the IP address of the Connect Series Amplifier. You will notice all amplifiers on the net work show up and on the top, any Connect Series Touch devices that are on the network will also populate.
2. Click on the Connect Series Touch. Click the '...' next to the name to rename the Connect Series Touch or click '+' to start your system design.



• SYSTEM SETUP OVERVIEW

- The Connect Series Touch is very flexible. You can control multiple Volume Control Groups and Multiple Source Select Groups from a single Connect Series Touch. The Connect Series Touch has the ability to control an entire system's volume and source from one screen or your can create and control multiple zones individually from one Connect Series Touch. There are 3 main functions you can program.

• VOLUME GROUP

- A volume group allows you to group the amplifier channels you want to have one control on the Connect Series Touch to adjust that group's volume. You can control multiple groups from one Connect Series Touch. An example of this is you have a restaurant with multiple zones and you want one volume control for the entire restaurant.

• VOLUME SUBGROUPS

- Volume subgroups gives the user operating the Connect Series Touch the ability to adjust specific

zones within the volume group but also retain the Volume Group control. An example of this would be if you have a restaurant with multiple zones being controlled by a volume group, but the staff wants the ability to turn down the Dining Area only, but still retain the entire restaurant's group volume control. A Volume Subgroup for the Dining Area would allow the Connect Series Touch user to adjust the Dining Area volume but still retain the Volume Group level adjustment. Any adjustment made on the Dining Area Subgroup would then remain at that volume difference when the Volume Group is adjusted up or down.

- **NOTE**

- If you would like to have zone volume offsets, but not give the Connect Series Touch user the ability to adjust that zone's offset, you can do that in the Volume Group setup.

- **SOURCE GROUPS**

- Source groups give you the ability to group and name sources so the Connect Series Touch user can easily select the source they want the amplifier to change to.

- **SET UP INSTRUCTIONS:**

3. Once you've clicked '+' you'll be able to create a volume group or a source group.

- **CREATING A VOLUME GROUP – Click + Add Volume Group**

- During this step, you will name your group and select the amplifier channels you want a single volume control on the Connect Series Touch. The name you assign will show up on the Connect Series Touch as this Name.

VOLUME GROUP NAME YOU WANT TO DISPLAY ON CONNECT SERIES TOUCH SCREEN

Volume Group CANCEL DONE

AMPS & CHANNELS
Select amp channels for this group

Volume Group Name

Connect Series 124D 10.8.2.42
Connect Series Model 124D

Channels

1 Dining Room 1 2 Dining Room 2 3 Entry Way 4 Lounge Area

Connect Series 704D 10.8.2.118
Connect Series Model 704D

Channels

1 Bar 1 2 Bar 2 3 Patio 4 Banquet Room

- **CREATING A VOLUME GROUP – SELECTING AMPLIFIER CHANNELS**

- Now, you will want to select the amplifier channels you want to assign to this volume group by simply clicking which channels you want to group together. Once you are done, you can click 'Done' in the top right corner.

- **NOTE**

- The amplifier name and channel name show up in this step. It is highly recommended you name your amplifier and amplifier channels prior to configuring the Connect Series Touch to make this step easier for you. Amplifier name can be edited by clicking on the 'i' icon next to the bold 'Device Name' and channel name can be edited by clicking on the gear icon on the amplifier channel configuration.

Volume Group

CANCEL DONE

AMPS & CHANNELS

Select amp channels for this group

Volume Group Name

Master Volume

Connect Series 124D

10.8.2.42

Connect Series Model 124D

Channels

1 Dining Room 1

2 Dining Room 2

3 Entry Way

4 Lounge Area

Connect Series 704D

10.8.2.118

Connect Series Model 704D

Channels

1 Bar 1

2 Bar 2

3 Patio

4 Banquet Room

• CREATING A VOLUME GROUP – SETTING RANGE AND OFFSET

- Once you've created a Volume Group, you now have the option to set the range of the Volume Group and you can also set volume offset for each channel. Once you've set your Range and Offset. Click 'Save' in the upper right corner. Once you click 'Save' your Connect Series Touch will now display this Volume Group on the screen.

RANGE

When this setting is at 80.0 dB, the Connect Series Touch has the ability for the end user to adjust the full volume range. If you want to limit the volume adjustment on the Connect Series Touch to not be able to adjust the full volume range, you can adjust this setting.

Example: If you only want to give the user the ability to adjust the volume from full to -12 dB, you would set the Range to -12 dB.

OFFSET

If you want specific zones volume levels to be adjusted lower, you can adjust the 'Offset'. In the example shown, the Entry Way and Lounge Area volume levels are adjusted lower than the other zones. When this Volume Group is adjusted from the Connect Series Touch, the Entry Way and Lounge Area will retain their volume offset levels.

The screenshot shows the LEA Professional web interface. On the left, a sidebar lists devices: CS Touch, Connect Series 124D, and Connect Series 704D. The main panel displays the configuration for the 'Master Volume' group. The 'Range' setting is highlighted with a red box and a red line pointing to the text 'Example: If you only want to give the user the ability to adjust the volume from full to -12 dB, you would set the Range to -12 dB.' The 'Offset' settings for each channel are also visible, with the 'Lounge Area' offset of -6.0 dB highlighted with a red box and a red line pointing to the text 'When this Volume Group is adjusted from the Connect Series Touch, the Entry Way and Lounge Area will retain their volume offset levels.'

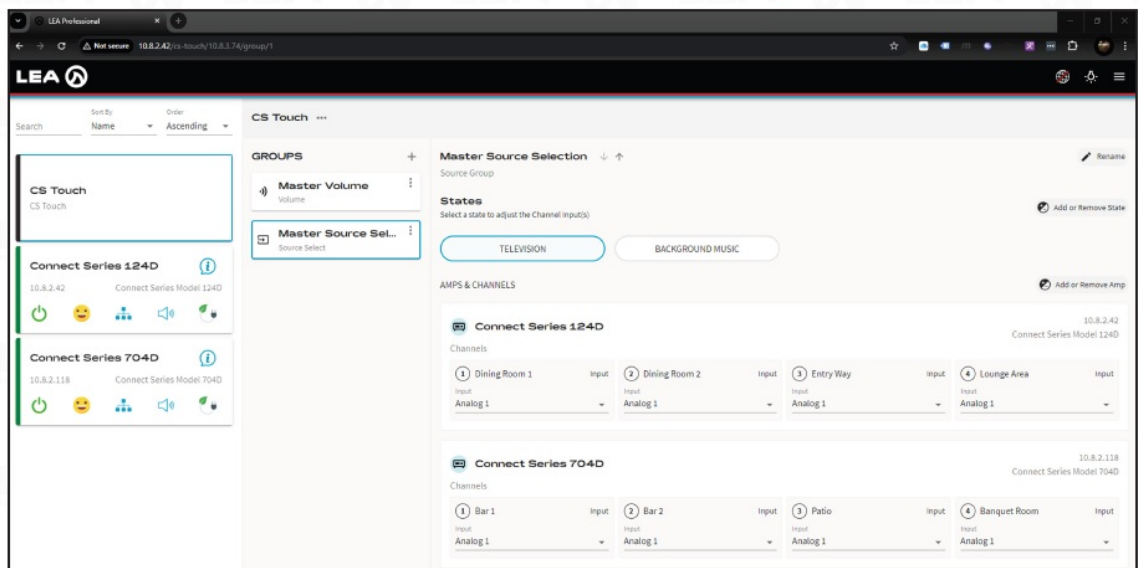
• CONGRATULATIONS!

- You've created a Volume Group that can now be adjusted from the Connect Series Touch.



**MASTER VOLUME GROUP
ON CONNECT SERIES TOUCH**

**MASTER VOLUME GROUP
CONFIGURATION IN WebUI**

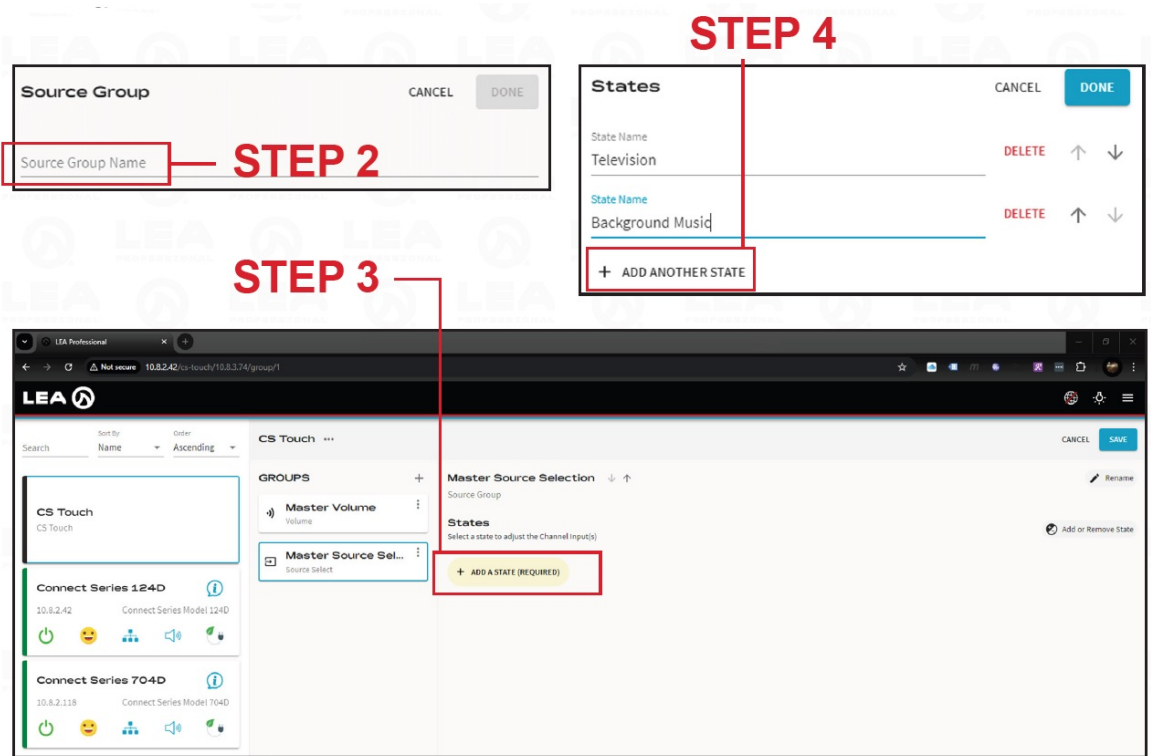


• SET UP INSTRUCTIONS:

4. Once you've clicked '+' you'll be able to create a volume group or a source group.

• CREATING A SOURCE GROUP

1. Click '+ Add Source Group'
2. Name your Source Group. This is the name that will show up on the Connect Series Touch, so make sure the user of the Connect Series Touch will understand what they are selecting.
3. Creating States. States are what Sources the end user will select from the Connect Series Touch. Example, if you have a Television Source and a Background Music Source, you'll want to name these states something the end user will understand. Click '+Add a State (Required)'.
4. Then click '+ Add Another State' and name as many states/sources that your system has and click 'Done'.



5. Select the State you have created, then select 'Add or Remove Amp'.
6. In the Source Group window, select the Amplifier Channels you want to change the source on and click 'Done'.
7. You will now notice, you can select what amplifier input you want to switch to for that State/Source. In the example shown, the Television is Analog Input 1 on both amplifiers.
 - **NOTE**
 - Input Summing (Analog 1+2, Analog 3+4 as an example) is not yet supported, but will be supported in a future firmware update.
8. Repeat Steps 6 and 7 for each State you have created.
9. When you are done creating your states and selecting the appropriate inputs, click 'Save' in the top right. Once you click 'Save' the information will be sent to the Connect Series Touch and you can now change State Sources from the touchscreen.

STEP 6

STEP 7

STEP 5

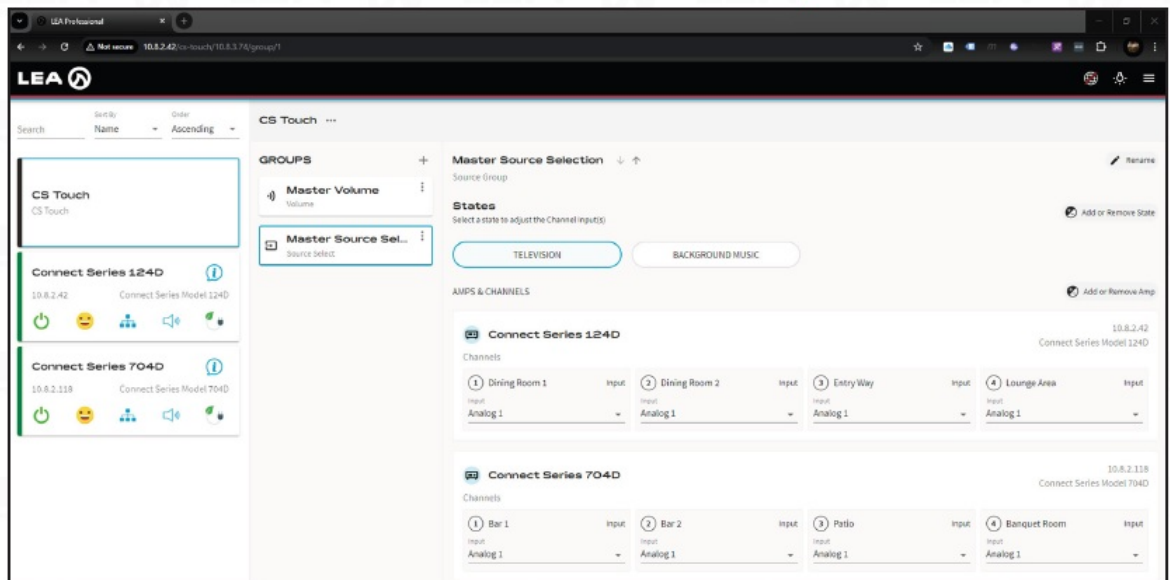
• CONGRATULATIONS!

- You've created a Source Group.



**MASTER SOURCE GROUP
ON CONNECT SERIES TOUCH**

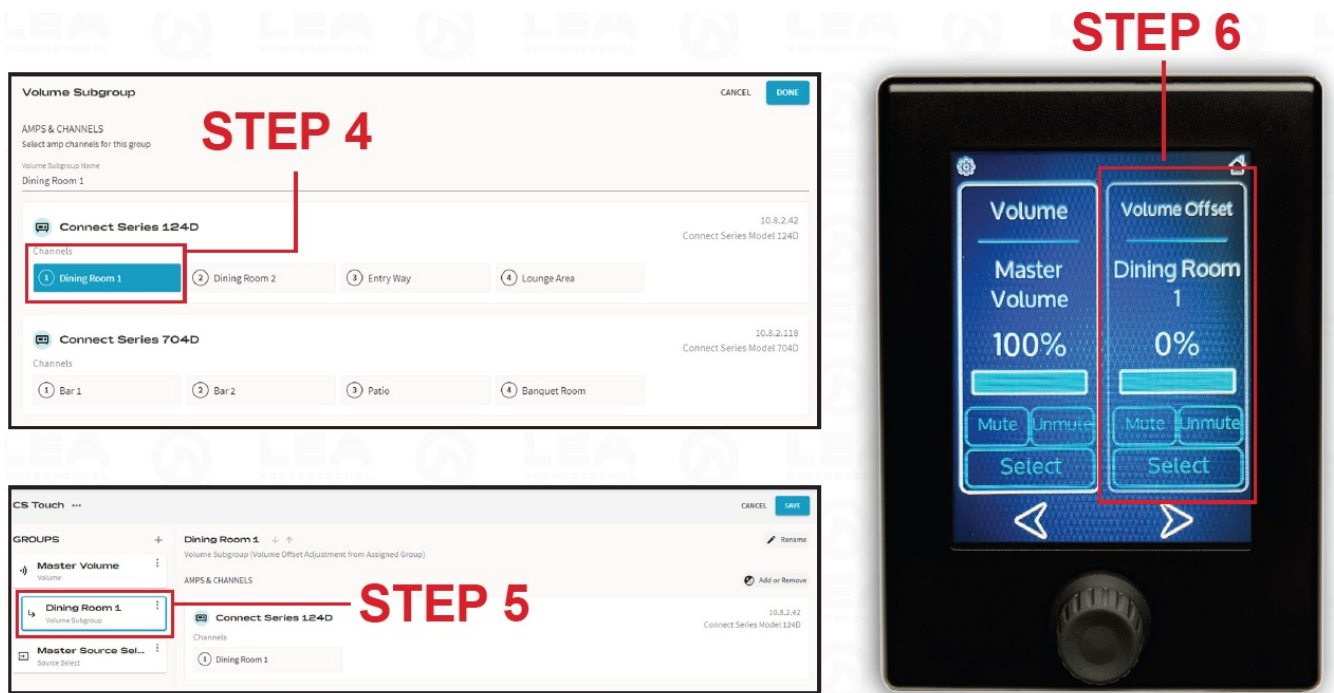
**MASTER SOURCE GROUP
CONFIGURATION IN WebUI**



5. Volume Subgroup – You can only create Volume Subgroups after you’ve created a Volume Group.

CREATING A VOLUME SUBGROUP

1. Select the Volume Group you have already created then click on the three dots next to the name.
2. Click ‘+ Add Volume Subgroup’.
3. Name the Volume Subgroup something the Connect Series Touch user will understand.
4. Select the Amplifier Channel(s) you want the Connect Series Touch user to be able to adjust volume from the touch screen then click ‘Done’.
5. You will notice, you now have a Volume Subgroup below your Master Volume Group.
6. Click ‘Save’ in the top right corner. This Volume Subgroup will now show up on the Connect Series Touch screen.
7. You have now created a Volume Subgroup that will allow the Connect Series Touch user to be able to adjust volume for that Subgroup.



Navigating CS Touch User Interface

The Connect Series Touch user interface was designed for end users which may have little to no audio expertise. With that in mind, Volumes are displayed in % and not dB.

VOLUME GROUP – A

- 0% would indicate the volume control is turned all the way down. 100% would indicate that the system is at full volume. To adjust a volume group select on the volume group box you want to adjust and turn the knob up or down.

VOLUME SUBGROUP – B

- The % shown on the screen is how much lower that subgroup is from the Group Volume Control. So if the subgroup shows -10% as an example, that means that subgroup has 10% less volume than the Group Volume it is associated with. Subgroups show up on the Connect Series Touch with the heading “Volume Offset” on the touchscreen. To adjust the volume subgroup you want to adjust, select the volume offset box you want to adjust and turn the knob up or down.

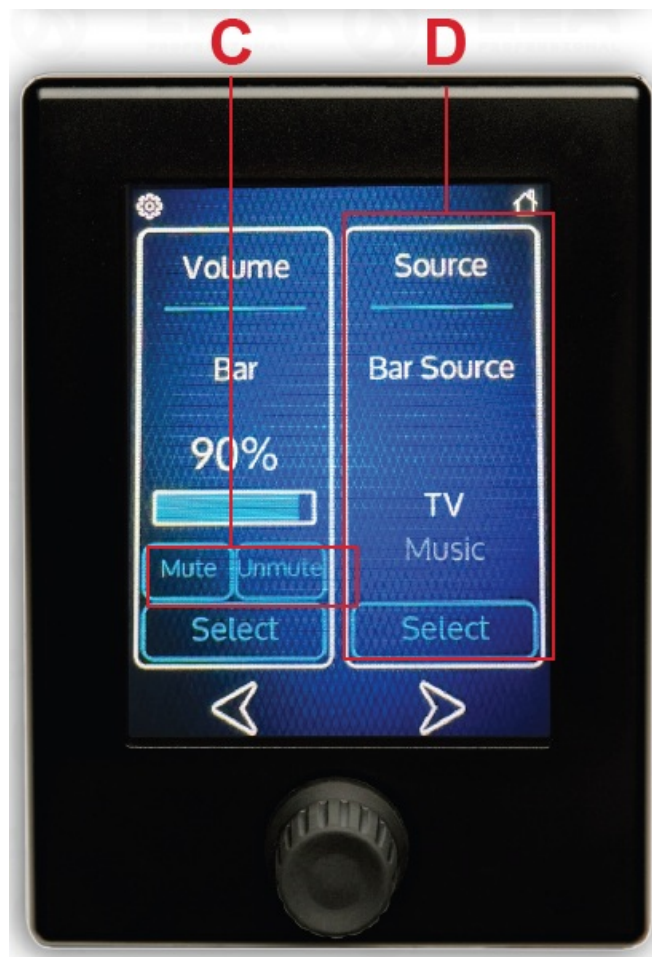


MUTE AND UNMUTE – C

- The Mute and Unmute buttons on the Volume Group and Volume Subgroup and simply mute and unmute commands. They do not indicate whether or not a zone is muted or unmuted.

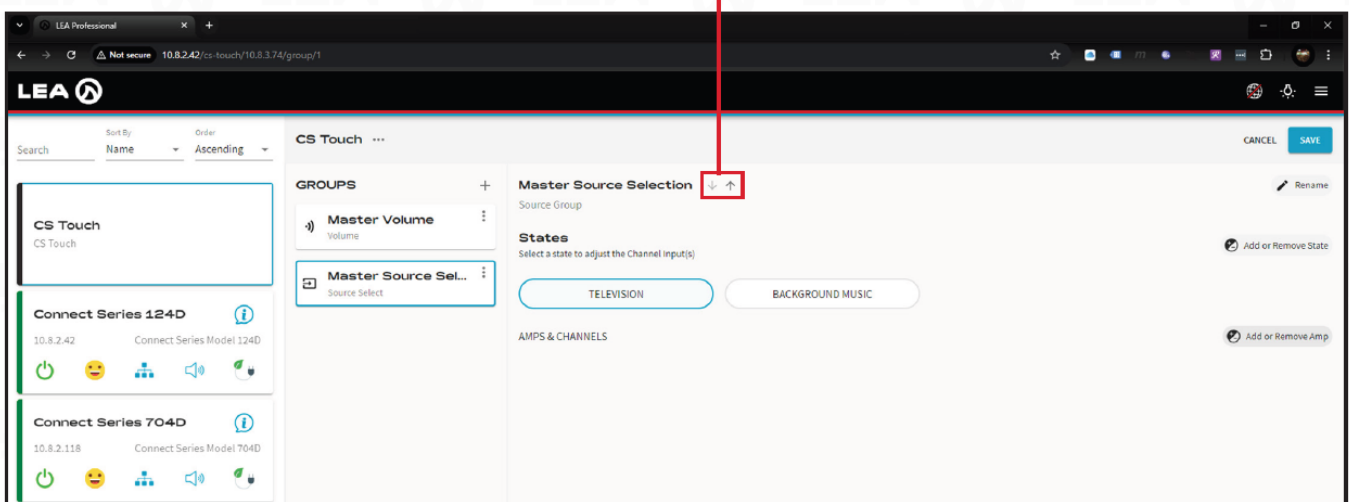
SOURCE GROUP – D

- Source Groups give the user the ability to easily change input sources based on the source name. To adjust the source group, select the source group box, touch the source you want to select OR turn the knob to highlight the source you want to select then select “Recall”.



VOLUME AND SOURCE GROUP ARRANGEMENT ON CS TOUCH DISPLAY

If you wish to rearrange the order in which the CS Touch volume and source groups show up (example: putting the most important volume groups first), in the WebUI Select the CS Touch, then select the Group you would like to move then click on the up or down arrows to move them up or down the list. The CS Touch will display the groups at the top of the list first.

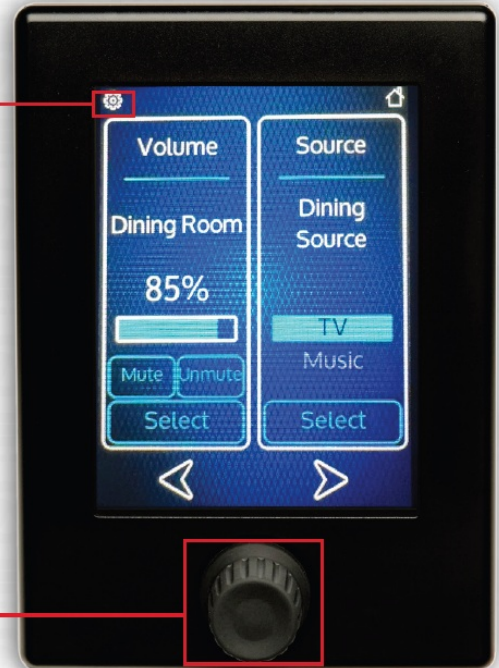


Network Information – Click on the gear icon on the top left to see the IP address, MAC Address, Device Name, and firmware version.

Adjusting the screen brightness – Click on the gear icon on the top left, touch 'LCD' and adjust the knob up to increase and down to decrease the screen brightness.

Adjusting the Side LEDs – There is an LED strip on the left and right of the Connect Series Touch. To adjust the brightness of these LED's, click on the gear icon in the top left, touch 'LED' and adjust the knob up to increase the brightness or left to decrease or turn off the LEDs. In a future firmware update, the LED colors will be able to be customized.

Rebooting the CS Touch – To reboot the CS Touch, click on the gear icon on the top left corner, click the LEA SharkFin logo, then click 'OK'. The unit will now reboot.



Future Improvements

The Connect Series Touch is a very versatile tool for the AV Integrator's Toolbox. At LEA Professional, we felt it important to get this tool into the field so that our customers can benefit from the functionality the Connect Series Touch offers. LEA Professional will continue to add features to the Connect Series Touch which will be available with future firmware updates.

NEW FEATURES IN DEVELOPMENT

- Set a Static IP and Subnet Address.
- Add the ability to select summed inputs (Analog 1+2, Analog 3+4, etc...).
- Ability to adjust input level volume.
- Ability to upload a custom logo to replace the LEA Shark Fin Logo.
- Ability to upload a custom background image.
- Password Protection – Type in a password before being able to access the CS Touch controls.
- Ability to assign colors to groups – Example – Group 1 = Red, Group 2 = Blue, etc.
- Adjust the screen timeout so the screen stays on as long or as short as you want after a selection is made.

Documents / Resources

	<p>LEA Connect Touch Professional Amplifier [pdf] User Guide CS-Touch-User-Guide-1.pdf, Connect Touch Professional Amplifier, Touch Professional Amplifier, Professional Amplifier, Amplifier</p>
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References

- [User Manual](#)

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