Chapter

# 13

# TheaterLinX

TheaterLinX (TH100) is designed as a bridge between an A/V Reciever (AVR) and the DigiLinX multi-room audio system. TheaterLinX enables one stream of stereo audio to be sent from the AVR to any audio zone or one stream of stereo audio to be sent from any source in the multi-room audio system to the AVR. Additionally, TheaterLinX enables the end user to control the AVR from the DigiLinX user interface.

TheaterLinX will allow door chimes or intercom to function through the AVR. The behavior based on the AVR state is described below:

**Table 13-1 TheaterLinX Intercom Behavior**

| AVR State | Behavior |
|---|---|
| AVR is playing a source that is directly connected | AVR will switch to Intercom/Doorbell session and switch back once the session has ended. |
| AVR is playing a source from the multiroom environment | Same behavior as a SpeakerLinX |
| AVR is off | No Intercom or Doorbell is played through the AVR |

There are a number of options when configuring TheaterLinX in Dealer Setup, this chapter outlines those options.

## *Adding TheaterLinX to the Project*

After clicking add device and selecting 1 or more TheaterLinX you will be presented with the screen shown in figure 1.



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**Figure 13-1** Add TheaterLinX Dialog box

| Field | Description/Values |
|---|---|
| TheaterLinX Name | The name of the TheaterLinX zone in the project, you should name this similar names to how you might name a SpeakerLinX zone. (e.g. Home Theater) |
| Model Number | TH100 is the only value; reserved for future use |
| AVR Driver | TheaterLinX supports 2 mechanisms to control AVRs, IR, and RS-232. At shipping TheaterLinX supports the full line of Marantz and Denon AVRs. The ARCAM DIVA AVR250, AVR208, AVR300, AVR350, and AVR700, and Naim nVi and AV2 RS-232 drivers are available for separate download. |
| Digi/AVR Input | Specifies the input of the AVR which is connected to the TheaterLinX audio output. This input will not be available for source control while it is being used by TheaterLinX |
| Source 1-8 | Name the Theater sources connected to the AVR or use the defaults for the Marantz and Denon AVRs. See Figure 13-2 and 13-3 for Marantz and Denon defaults. |
| Port (within each source selection) | Specify the control output used to control the specific source see Figure 13-4 for available ports. The same port maybe used for devices of different types. |
| Type (within each source selection) | Specify the type of source connected to the AVR. See Figure 13-5 for source types. |
| Enable (Checkbox) | Enable or disable control of this source |



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**Figure 13-2** Marantz Source Defaults - Names can be changed as needed

**Figure 13-3** Denon Source Defaults - Names can be changed as needed

**Figure 13-4** Source Port options

| Source Port Option | Description |
|---|---|
| AVR/IR | Use if the AVR has a built-in source or if the AVR supports IR chaining e.g. Marantz AVR and Marantz sources |
| AVR/Serial | Use if the AVR has a built-in source or if the AVR supports RS-232 chaining. |
| Display | Use if the TheaterLinX display control port is being used to control a source. |
| Source 1-4 | The source will be controlled by the IR block, ports 1-4 depending on your selection. Multiple sources can be connected to the same IR port via a Y-connector as long as the sources are of different types. |



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**Figure 13-5** Source Type options

The source type options are specified in this drop down. Generic device allows for user defined IR controls, No Controls means that the source will not be controlled.

## *TheaterLinX Product tabs*

Once a TheaterLinX has been added to a project, the TheaterLinX can be selected and its configuration can be changed. The configuration options are presented below.

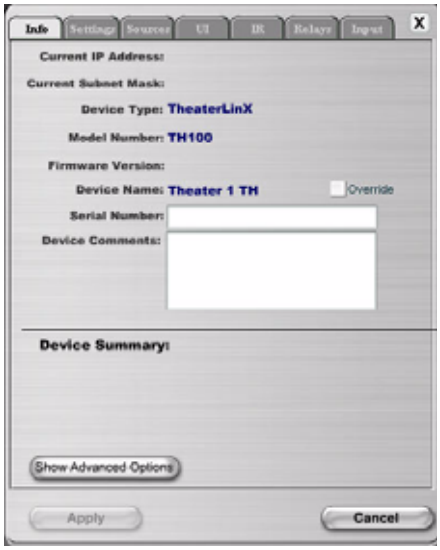


**Figure 13-6** Info Tab for TheaterLinX product

The Info tab in TheaterLinX looks the same as all DigiLinX products generally do. The name given can be overriden on this tab by selecting the 'Override' checkbox and typing a new name. Advanced Options provides the ability to change the specific network configuration of the device, this dialog is the same as for other DigiLinX devices. Use this to set a static IP for TheaterLinX if needed

**Figure 13-7** Settings Tab for TheaterLinX product



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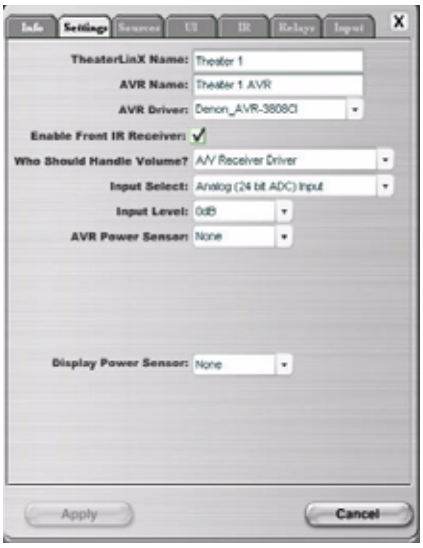


The Settings tab allows you to modify many of the settings set when the TheaterLinX was added to the project as well as a number of other settings outlined below.

| Field | Description/Value |
|---|---|
| TheaterLinX Name | The name of the TheaterLinX zone in the project, you should name this similar names to how you might name a SpeakerLinX zone. |
| AVR Name | The AVR Name should be descriptive e.g. Family Marantz |
| AVR Driver | IR or named RS-232 driver |
| Enable Front IR Reciever | Enables the IR Reciever on the front of the TheaterLinX for IR control in the Theater |
| Who Should Handle the Volume | Specify whether the theater zone's volume is handled by the TV, the AVR, or neither. When neither is selected the system assumes a local SpeakerLinX is handling volume. |
| Input Select | Specify's whether the audio input to the AVR from the TheaterLinX is analog or 2-Channel Digital through the S/P DIF connector. |
| Input Level | Allows for input level compensation to the AVR from +6dB to -12dB |
| AVR Power Sensor | Allows for sense from the AVR to be LED, Level, or Video Sync |
| Display Power Sensor | Allows for power sense from the display to be LED, Level, or Video Sync |



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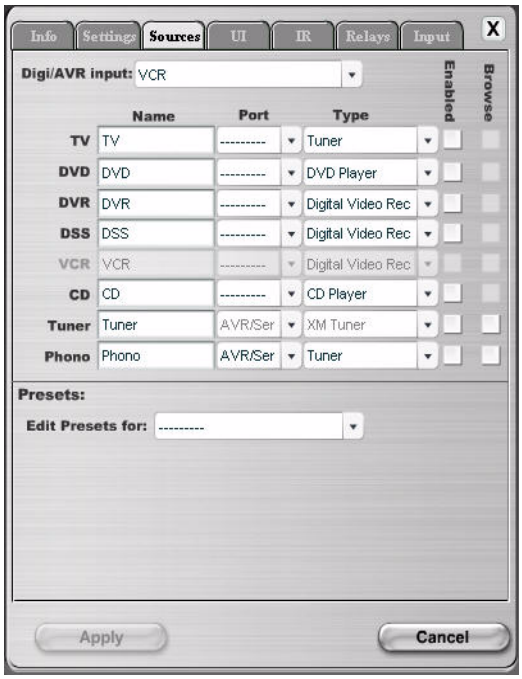


**Figure 13-8** Source Tab for TheaterLinX product

The source tab allows the specification of the naming of the sources connected to the various AVR inputs. The labels on the source tab will either read source 1-8 for IR controlled AVRs or AVRs with custom RS-232 drivers or will read the specific labels for the Denon and Marantz AVRs which are controlled via RS-232.

The information for each source is as follows:

| Field | Description |
|---|---|
| Name | The name of the source |
| Port | The control port on the TheaterLinX used to control the source |
| Type | The source type |
| Enabled | Indicate whether the specific source is enabled |
| Browse | Indicate whether the source has content that can be browsed (e.g. a tuner) or not (e.g. a CD player); reserved for future use |

In addition to specifying this information about the source, source presets can be set from this page by using the 'Edit Presets for:' drop down box. Presets are ONLY used for Tuner sources.



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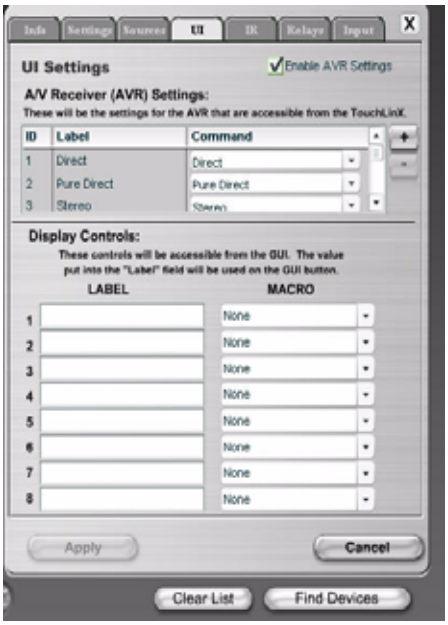


**Figure 13-9** UI Tab for TheaterLinX Product

The UI tab for the TheaterLinX product allows for the matching of UI buttons and labels to commands. For RS-232 controlled AVRs the Commands are provided in the drop down. These are the commands provided by the RS-232 driver. For IR controlled AVRs a list of basic commands are provided that then need to be programmed.

Additionally, Macros can be assigned to the display controls specific buttons in the TheaterLinX UI using the lower half of the screen. Macros need to be specified in the macros section of Dealer Setup.

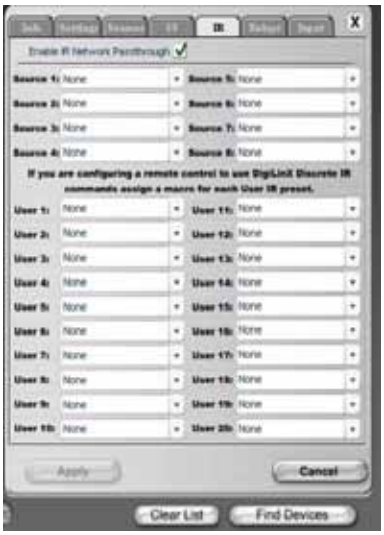


**Figure 13-10** IR Tab for the TheaterLinX Product

The IR tab specifies how the TheaterLinX handles IR commands sent to it from a remote. It does NOT specify IR control of sources, this is covered in the learning IR section of this chapter. The 8 source IR commands are the 8 discrete IR commands that enable specific DigiLinX source selections. The 20 User defined commands allow the execution of specific macros via IR commands. The ‘Enable IR Network Passthrough’checkbox allows IR to be passed from the home theater (the AVR location) to the selected source in the multi-room system. Use this option to control sources in the multi-room system that you want to be able to play through the AVR.



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**Figure 13-11** Relay Tab for the TheaterLinX Product

The relay tab for the TheaterLinX product specifies the default startup state for the relays based on how they are being used. “None” means that the relay will revert to its last known state, either open or closed.

**Figure 13-12** Input Tab for the TheaterLinX Product

The input tab for TheaterLinX specifies which macros to trigger on high/open or low/closed sensing for the input contact closure.



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## *Programming IR with TheaterLinX*

When a physical unit is discovered by Dealer Setup you will have the option of programming IR for source control. This can be done by clicking the IR button in Dealer Setup when the TheaterLinX is selected. You will be presented with the screen shown in Figure 13-13.

**Figure 13-13** : IR Programming Page for TheaterLinX

From the screen in Figure 13-13 an IR cactegory must be selected based on what IR you want to learn into the system. For example, AVR Inputs is for Input selection related items, AVR Player (Vol, Mute…) is for AVR Control functions, AVR Player (Display) is for Display related items.

Once an IR category is selected the IR service type must be selected. This is shown in Figure 13-14.



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**Figure 13-14** : IR Service Type Selection Screen

By default only items specific to the selected service type will be shown. You can un-filter it and learn other codes. This is shown in Figure 13-15.



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**Figure 13-15** : IR Items filtered by IR Service Type

At this point IR is learned just the way it is with other IR learning in DigiLinX.



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