

# DIGILINX™ Application Note

## Installing the Leax Driver

### Equipment Required

Make sure the following equipment is on hand before you begin the installation process:

- *ControlinX* CL100
- Leax Lighting Controller with RS232 Audio Gateway Driver

### Step 1: Copy driver files

Copy the supplied driver file *Leax.lua* to the drivers directory (Dealer Setup v1.70 or later is required). Set the file structure as follows:

c:\Program Files\DigiLinX Dealer Setup\Drivers\Leax.lua

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**NOTE:** If the Drivers directory does not exist, then you will need to create it.

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### Step 2: Configure *ControlinX*

To configure *ControlinX*, you must edit the settings on the IR/RS232 Settings tab for the *ControlinX*: To do this, complete the following steps:

1. Open *DigiLinX* Dealer Setup.
2. Add a *ControlinX* and specify that Generic lighting is the driver.
3. Click on the *ControlinX* you want to configure in the project.
4. Click on the IR/RS232 Settings tab.
5. For the driver file, select *Leax.lua* as the driver from the dropdown list as shown in Figure 1.

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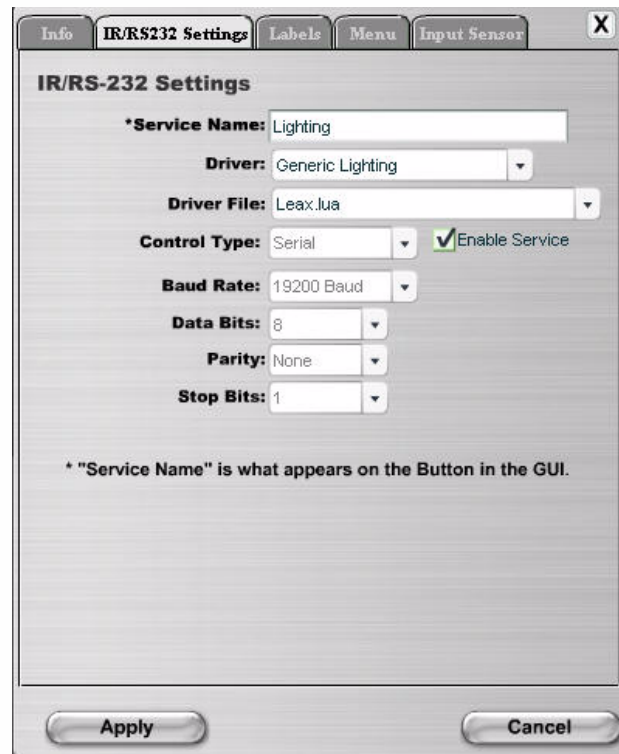
#### Products Included:

*DigiLinX*

*ControlinX*™

*TouchLinX*™

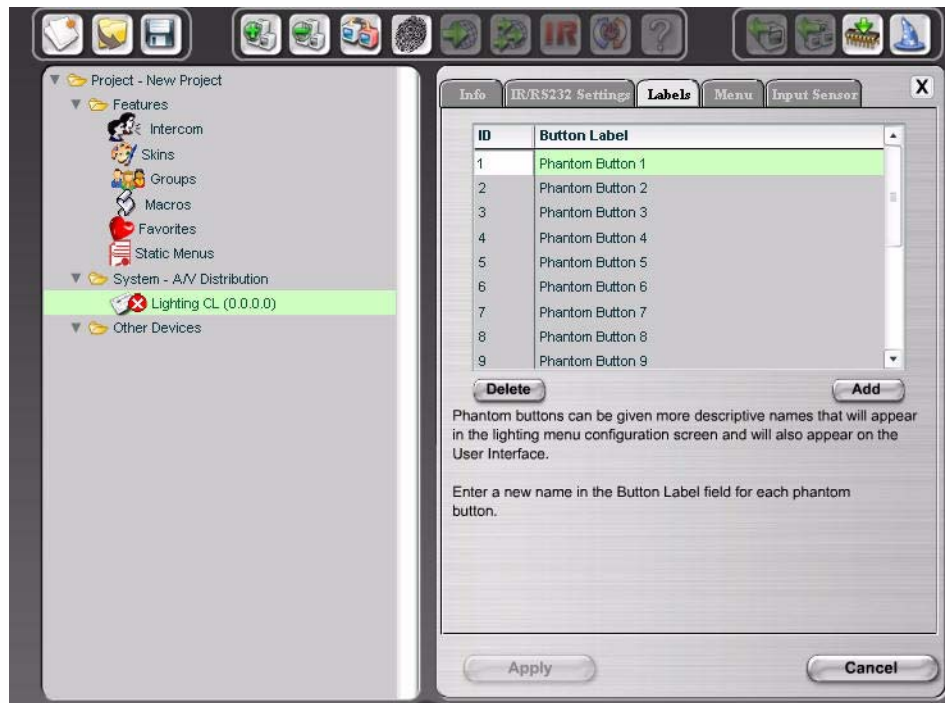




**Figure 1** IR/RS232 Settings screen with Leax.lua selected.

### Step 3: Assign Labels

Click the **Labels** tab to define keypads for controlling the lights. The following screen appears as shown in Figure 2.



**Figure 2** Labels tab

Define the keypads for controlling the lights. Multiple keypads can be defined as required.

In order to address the whole house systems, it is necessary to use Scene Grouping, where the available 255 scenes are grouped into 16 groups of 16 scenes each. We then setup a virtual keypad for controlling each scene group.

In addition, raise/lower functionality is supported on individual circuits (Leax API does **not** support scene-based raise/lower).

Each keypad has an address. This must be specified as follows in the ID field on the Labels tab:

[mm.bb.xx]

where:

mm driver mode

00 Scene Control

01 Circuit Control - Raise

02 Circuit Control - Lower

bb binding number

xx address

00..16 Scene control - scene group

00..16 Circuit control - circuit group

For example:

[00.00.01] Scene control, binding number 0, scene group 1

Each defined keypad triggers the Leax behaviour. The current version of *DigiLinX Dealer Setup* (1.70 or higher) supports a maximum of 17 buttons per keypad, so the following mapping has been used for buttons to Leax functions. Note that the functions of the buttons are defined, but the labeling can be anything the dealer wishes.

**Table 1. Scene Selection Mode**

Phantom Button	Function
1	Scene 1
2	Scene 2
3	Scene 3
4	Scene 4
..	..
16	Scene 16 (soft OFF for Toggle function)
17	Scene 1 /OFF (Scene 16) Toggle
	Scene 1/Off Toggle

A special key is defined as a toggling function (Scene 1/Scene 16) so this can be mapped to the *TouchLinX* hard button if desired. This uses feedback from the Leax system. Note that in this scenario, Scene 16 would be programmed on the Leax system as a soft-fade off.

## Step 4: Build Menus That Appear on *TouchLinX*

The Menu tab (see Figure 3) lets you build the menus that appear on the *TouchLinX* when a room is selected. Note that this may include buttons from more than one Phantom keypad if desired.

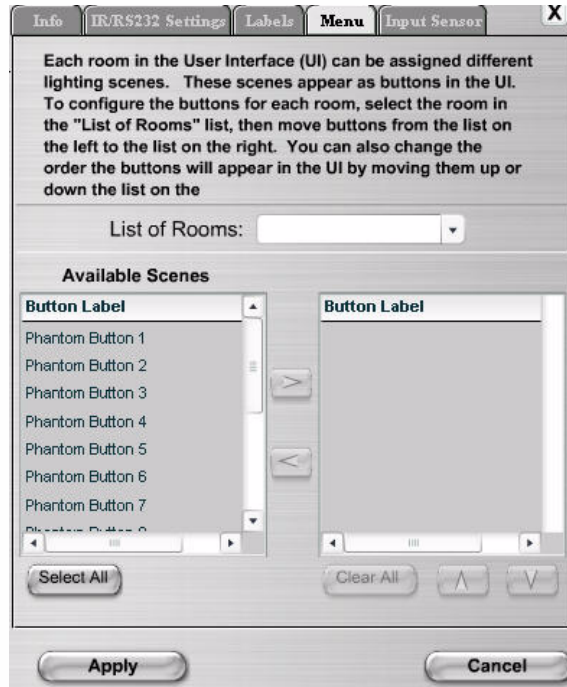
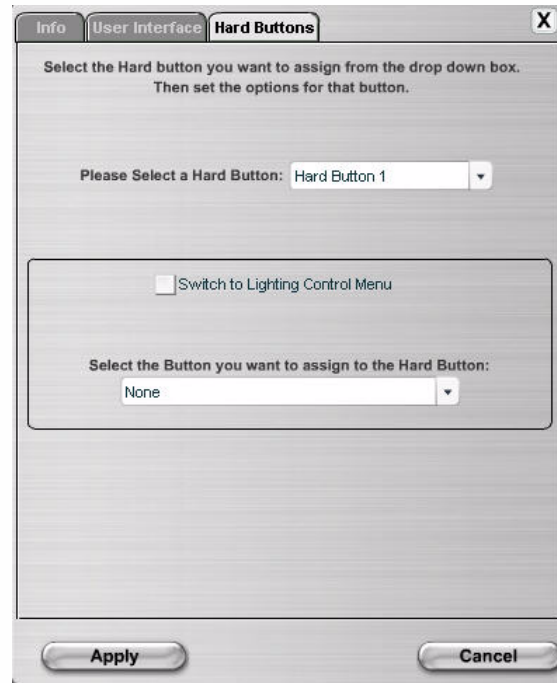


Figure 3 Menu Tab

## Step 6: Assign Lighting Function to *TouchLinX* Hard Buttons

If desired, the top hard button on the *TouchLinX* can be assigned to a lighting function. To do this, the driver supports a special function key that acts as a toggle between Scene 1 and Off for a keypad -- this can be assigned to the hard button or alternatively, to any other lighting key. Select the *TouchLinX* in the project and select the Hard Buttons tab as shown in Figure 4.



**Figure 4** Hard Buttons tab

## Step 7: Apply Changes to the Project

Apply changes to the project, and then send the configuration to the system. This uploads the driver file and configuration settings.

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**NOTE:** This driver is not supported by *NetStreams*. This driver is supported by Invision. For support on the Leax driver, go to <http://www.invisionuk.com/>.

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