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# UCP LC 32/80

## Basic Setup and Operation



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## ***UCP LC 32/80 - Setup and Operation Guide***

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4750 Wiley Post Way, Suite 150  
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#### **Immunity**

- EN55024:1998
- EN61000-3-2
- EN61000-3-3

#### **Safety**

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This section provides important safety guidelines for the Operator and Service Personnel. Specific warnings and cautions are found throughout the guide where they apply, but may not appear here. Please read and follow the important safety information, specifically those instructions related to risk of fire, electric shock, or injury to persons.

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- Hazardous Voltage symbol



- Caution symbol. The product is marked with this symbol when it is necessary to refer to the manual to prevent damage to the product.

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Please observe the following important warnings:



- Any instructions in this guide that require opening the chassis, changing a power supply, or removing a board, should be performed by qualified personnel only. To reduce the risk of electric shock, do not perform any service unless you are qualified to do so.
- Heed all warnings on the unit and in the operating instructions.
- Do not use this product in or near water. Disconnect AC power before installing any options or servicing the unit unless instructed to do so by this manual.
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- The AC receptacle (socket) should be located near the equipment and be easily accessible.
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- To avoid fire hazard when replacing fuses, use only the specified correct type, voltage and current rating as referenced in the appropriate parts list for this product. Always refer fuse replacement to qualified service personnel.
- Have qualified personnel perform safety checks after any service.

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Please observe the following important cautions:



- When installing this equipment do not install power cords to building surfaces. To prevent damage when replacing fuses, locate and correct the problem that caused the fuse to blow, before reconnecting power.
- Use only specified replacement parts

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## *Company Information*

### **Utah Scientific, Incorporated**

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- Repair or replacement of the software or hardware that does not meet the above warranties and is returned to Utah Scientific under the returned materials authorization (RMA) process with freight and forwarding charges paid.

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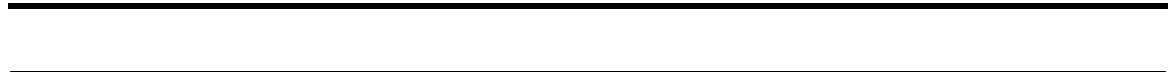
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# Section 1

## Overview - LC 32/80 Panel Operation

This guide describes the basic layout and operation of the LC 32/80 panel within the UCON interface.

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# Basic Chassis Configuration

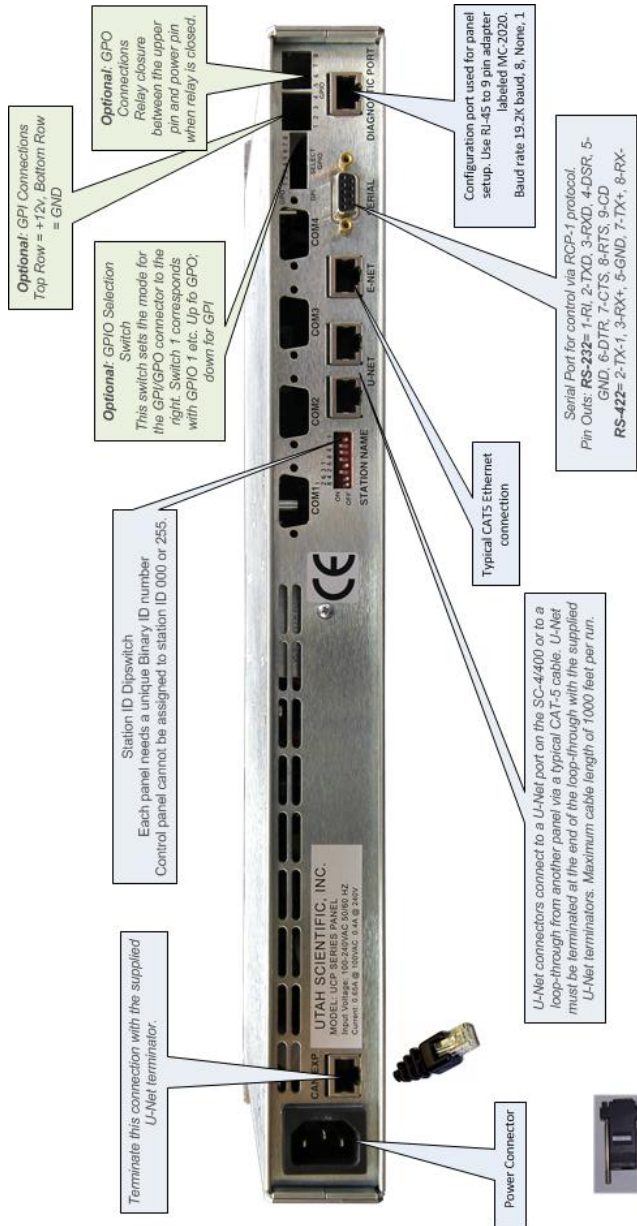


Figure 2-1. LC32 Configuration

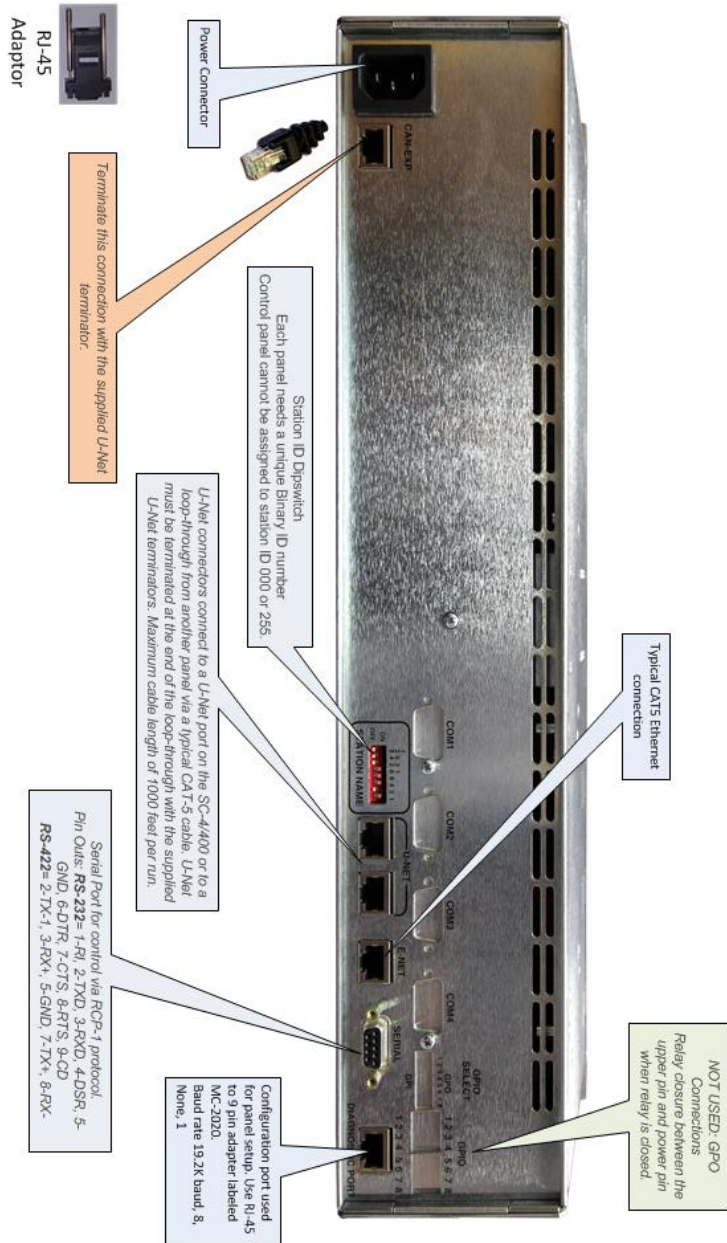


Figure 2-2. LC80 Configuration

## Initial Layout Build

The Panel Layout selection is made by clicking the drop down menu (illustration below) and making a selection from the list provided.

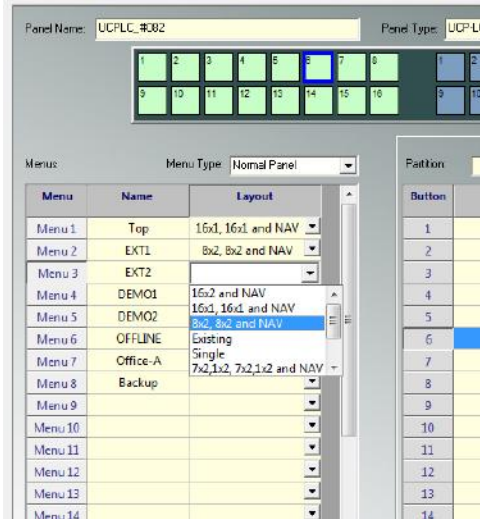
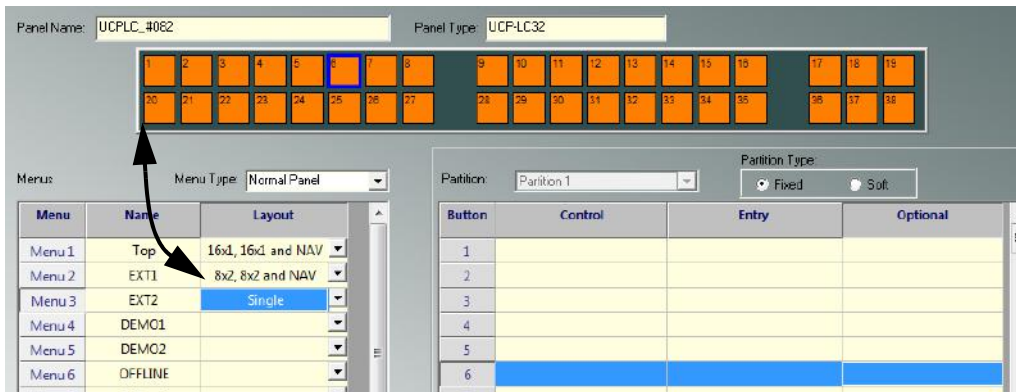


Figure 2-3. Initial Build

When a layout is selected, the 'Fixed' button (on the actual panel, upper left) will change the button color state of all Source buttons on the panel.



Panel Example

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### Layout Selection - Examples

The illustration below contains a partition (1) 16x2 navigation panel. Sixteen buttons along the top by two rows.



Figure 2-4. 16x2.

In the following config there is no 'Partition 2', as partition 2 would contain the navigation buttons, which are not modifiable.

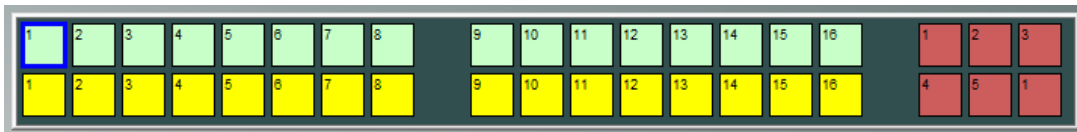


Figure 2-5. 16x1 (containing 2 partitions)

The first partition corresponds to the light green buttons, while the section partition corresponds to the yellow buttons. The navigation buttons are also included (red buttons, far right). This 8x2 layout illustrated below is defined by two partitions - 8 buttons along the top by two rows (light green and blue buttons)



Figure 2-6. 8x2

The illustration below is a 'Single Mode' panel, which contains a total of 38 buttons



Figure 2-7. Single Layout

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The buttons to the far right are typically used as navigation buttons, and can include page up and page down controls.

Important note concerning the 'single mode' operation

- It is always a good idea to include a 'back' button for the purpose of returning to a previous menu layout, otherwise the user is isolated in the current button layout.

The Page Up and Page Down buttons are recommended for convenient navigation.

Drag the page up and down buttons from the location shown (lower right column) to the specified button number inside the table (middle). You simply drag this button definition to the specific button number for the specific location you'd like to assign this command.

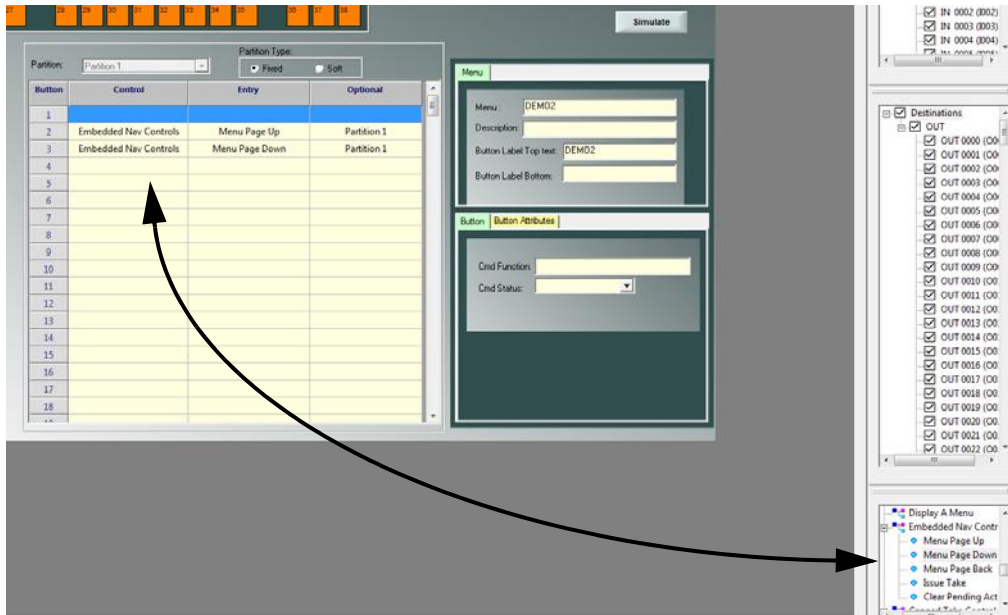


Figure 2-8. Page Navigation



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Remember that page UP and page DOWN will cycle through sources and destinations. If you would like to step back to a previous layout however, use the 'Back' button, which is located in the same column as Page Up and Page Down.

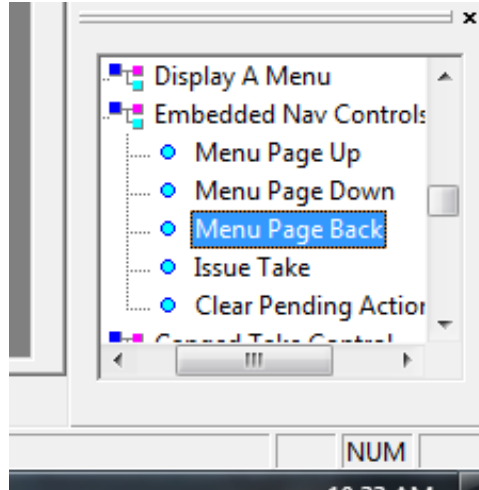
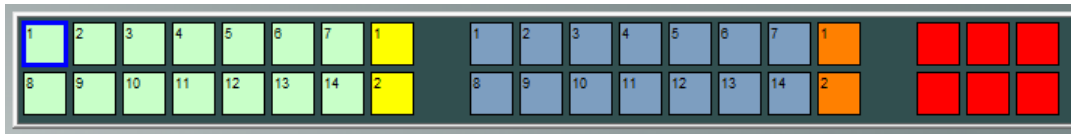


Figure 2-9. Back button

### 7x2 and 1x2

Partition one contains Seven buttons by two rows. The yellow and orange buttons correspond to a 1x2, which can contain a page up/page down, or back button. This configuration could contain sources on one group with destinations on the other. The navigation buttons are fixed; page up and down, and home buttons.



7x2

## 18x2

This corresponds to 18 inputs by two rows, all on the same partition. This layout allows all status visibility within the same partition.



Figure 2-10. 18x2

### Partition Display - 8x2 Configuration

Panel Name: UCPLC\_#082 Panel Type: UCP-LC32

Menu	Name	Layout
Menu 1	Top	16x1, 16x1 and NAV
Menu 2	EXT1	8x2, 8x2 and NAV
Menu 3	EXT2	16x2 and NAV
Menu 4	DEMO1	8x2, 8x2 and NAV
Menu 5	DEMO2	Single
Menu 6	OFFLINE	7x2,1x2, 7x2,1x2 an...
Menu 7	Office-A	18x2 Page Up/Down
Menu 8	Backup	
Menu 9		
Menu 10		
Menu 11		
Menu 12		
Menu 13		
Menu 14		
Menu 15		
Menu 16		
Menu 17		
Menu 18		
Menu 19		

Button	Control	Entry	Optional
1	Audio Shuffle Source	Source 1	
2	Audio Shuffle Source	Source 2	
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13	Audio Shuffle Source	Source 15	
14	Audio Shuffle Source	Source 16	
15			
16			
17			
18			
19			

Figure 2-11. 8x2

In this configuration the Sources are displayed within the tables by clicking the light green buttons on the virtual panel.

The Destinations are shown in the tables by clicking the blue buttons on the virtual panel. The 3rd partition (red navigation buttons) are not modifiable.

Panel Name: UCPLC\_#082 Panel Type: UCPLC32

Menu Type: Normal Panel

Menu	Name	Layout
Menu 1	Top	16x1, 16x1 and NAV
Menu 2	EXT1	8x2, 8x2 and NAV
Menu 3	EXT2	16x2 and NAV
Menu 4	DEMO1	8x2, 8x2 and NAV
Menu 5	DEMO2	Single
Menu 6	OFFLINE	7x2,1x2, 7x2,1x2 an...
Menu 7	Office-A	18x2 Page Up/Down
Menu 8	Backup	
Menu 9		
Menu 10		
Menu 11		
Menu 12		
Menu 13		
Menu 14		
Menu 15		
Menu 16		
Menu 17		
Menu 18		
Menu 19		

Partition: Partition 2 (8x2) Partition Type: Fixed Soft

Button	Control	Entry	Optional
1	Fixed Router Destination	OUT 0000	
2	Fixed Router Destination	OUT 0001	
3	Fixed Router Destination	OUT 0002	
4	Fixed Router Destination	OUT 0003	
5	Fixed Router Destination	OUT 0004	
6	Fixed Router Destination	OUT 0005	
7	Fixed Router Destination	OUT 0006	
8	Fixed Router Destination	OUT 0007	
9	Fixed Router Destination	OUT 0008	
10	Fixed Router Destination	OUT 0009	
11	Fixed Router Destination	OUT 0010	
12	Fixed Router Destination	OUT 0011	
13	Fixed Router Destination	OUT 0012	
14			
15			
16			
17			
18			

Figure 2-12. Destinations

The right (blue) buttons are populated with sources by making a list selection from the column shown and dragging all items to the middle table.

## Blank Panel Setup

During an initial blank panel setup, all menus are defined from scratch within the left-most column, labeled 'menu'.

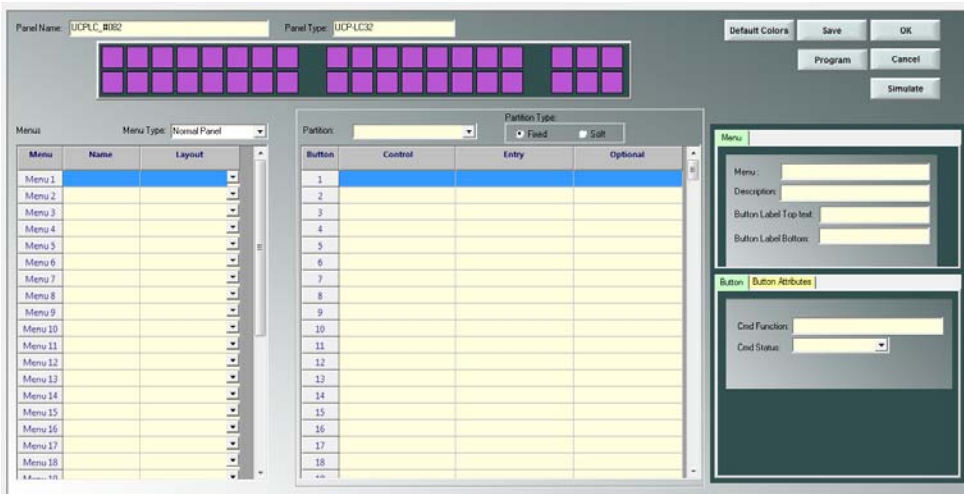


Figure 2-13. Blank panel

Menu	Name	
Menu 1		
Menu 2		
Menu 3		
Menu 4		
Menu 5		
Menu 6		
Menu 7		
Menu 8		
Menu 9		

Figure 2-14. Menu column

---

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## Functions

The Function selection is located within the listing at the lower-right corner of the screen display. These individual functions are used to populate the actual function table (center of the screen) for each one of the panels created.

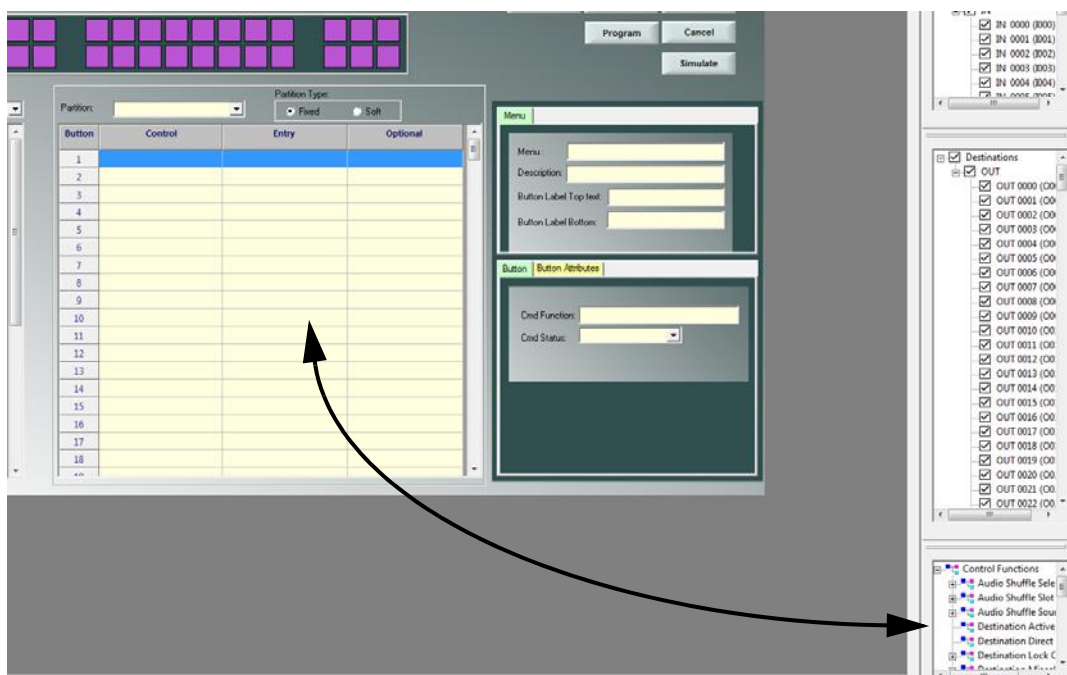


Figure 2-15. Functions selection

## Basic Layout and Definitions

New menus are created inside the left-hand table, while corresponding functions are defined within the center table. The panel graphic at the top of the display is the actual 'menu view' of the panel being developed. You can click individual buttons within the graphic and watch the line items move inside the function table (below).

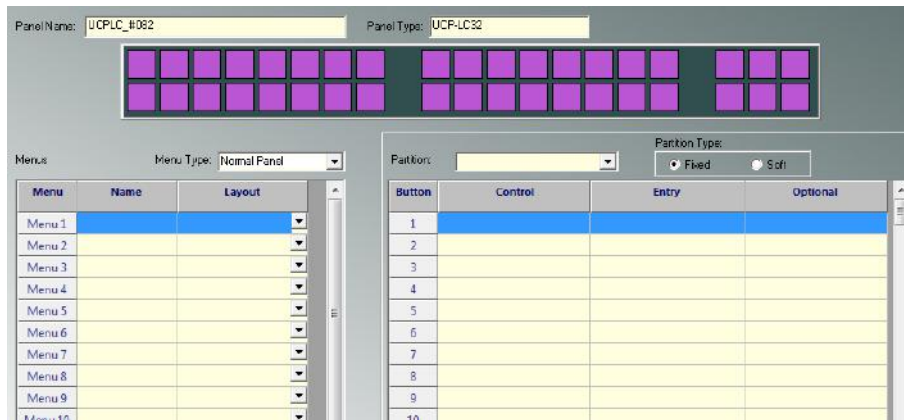


Figure 2-16. Basic Layout Definitions

**Note:** The button numbers within the graphic are literal. Meaning #25 on the graphic will correspond to the actual #25 within the function table. This is most applicable to a PAGE UP and PAGE DOWN button application. In the same manner, when menu items are clicked (left-hand table), the panel graphic will change to follow the different menu sets selected within the table. Panel Name (Located in the upper-left corner) This is the actual panel name that is programmed within UCON, and is also the name you will see underneath the panel's icon within the main UCON display.

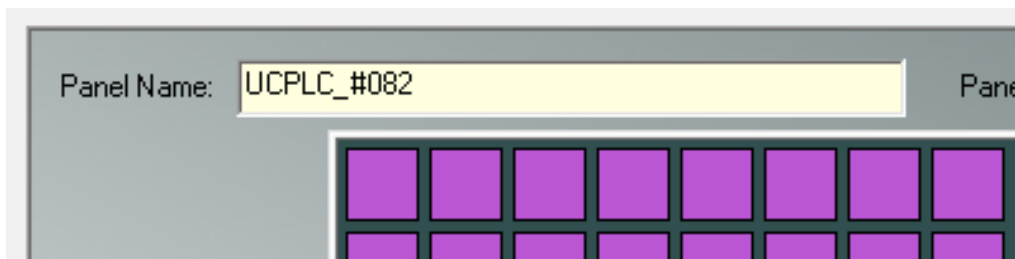


Figure 2-17. Panel Name

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### Panel Type (Top middle)

This is the actual panel type, the LC32 in our working example.

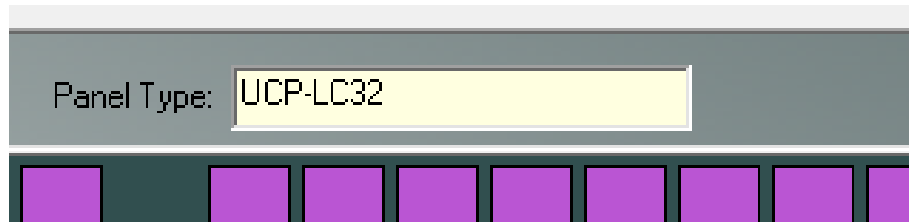
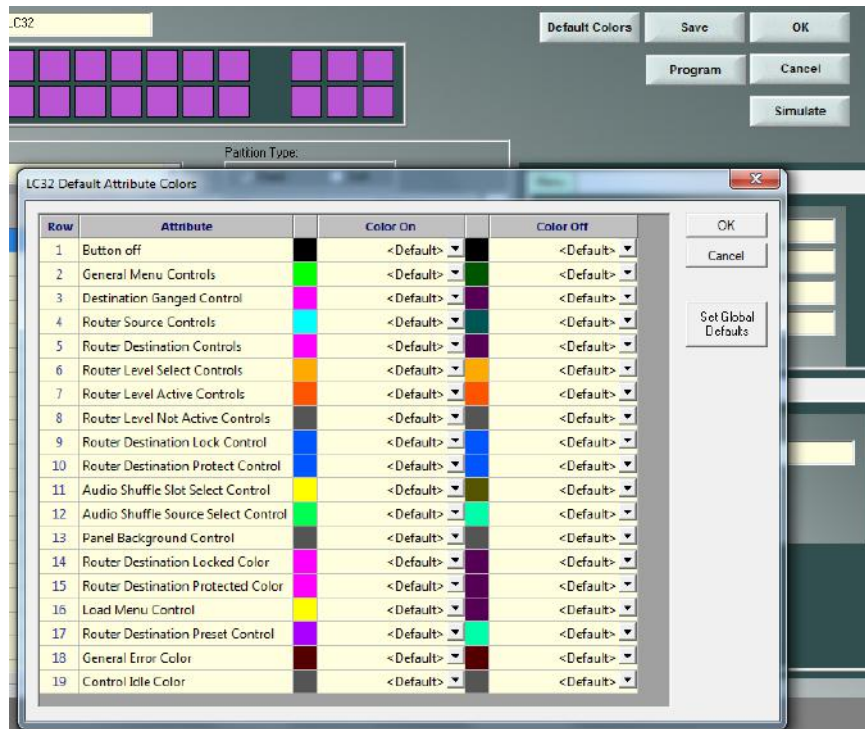


Figure 2-18. Panel Type

### Default Colors

The default colors are typically assigned to the system's function buttons. This affects the items in the Function list within the lower-right display listing. The default colors are also used to define the ON and OFF button states.



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Figure 2-19. Default Colors

**Save Button**

The Save button commits all changes to the current screen in progress.



Figure 2-20. Save Button

**Program**

Panel is programmed from this location.



Figure 2-21. Program



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### ***Cancel***

Ignores all changes made prior to exiting the screen.



Figure 2-22. Cancel Button

### ***OK***

Immediately Saves all work done (without a confirmation dialog), then exits.



Figure 2-23. OK Button

### ***Menu Dialog Box (Upper-right area, middle of the display)***

This dialog contains menu attributes, or definitions of the buttons in the menu table (left side of the display). Text can also be modified from this location.

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## Panel Operation

### Setting the System up with a standard issue template

The first time a layout is defined you will be presented with an initial menu item called 'Top', which occupies the upper left-most cell.

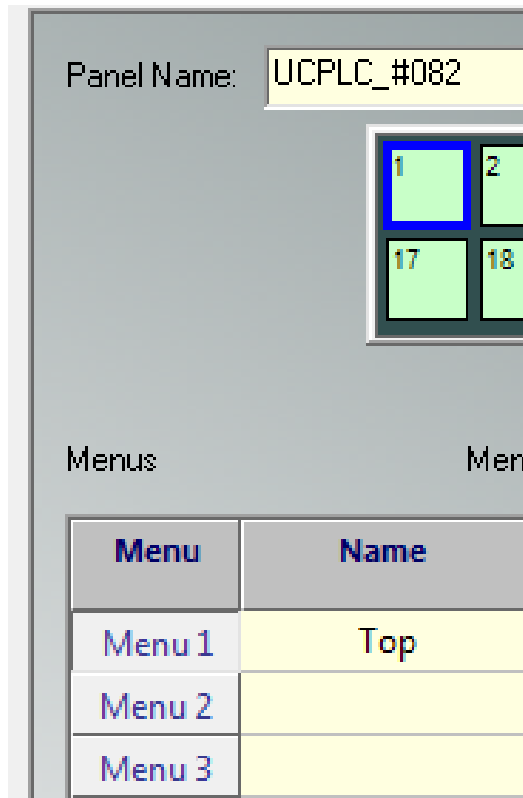


Figure 2-24. Top (menu item)

Top is hand typed in, and actually corresponds to a 'top' menu, meaning, this is the menu that is located farthest back (when Back his selected).

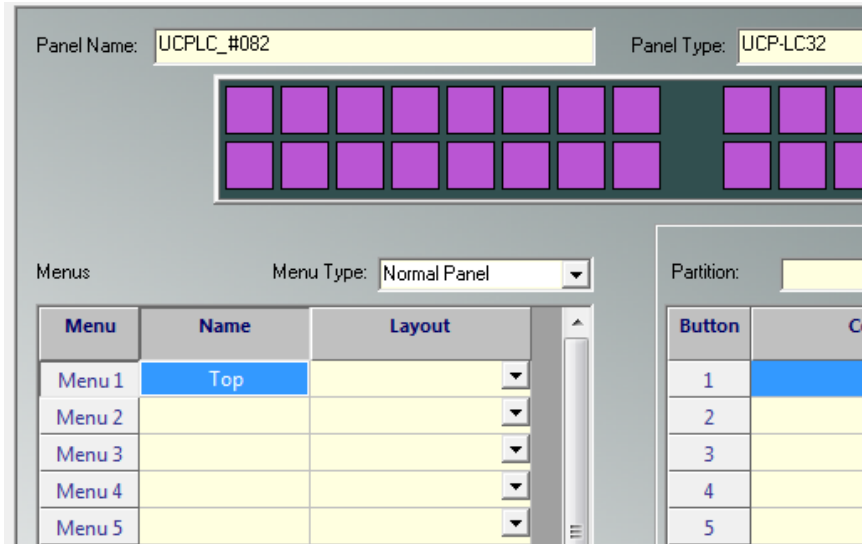


Figure 2-25. Top menu

The 'Layout' (one column over) is the actual panel layout that will be associated with the above menu when a drop-down selection is made. This is shown graphically at the top of the screen.

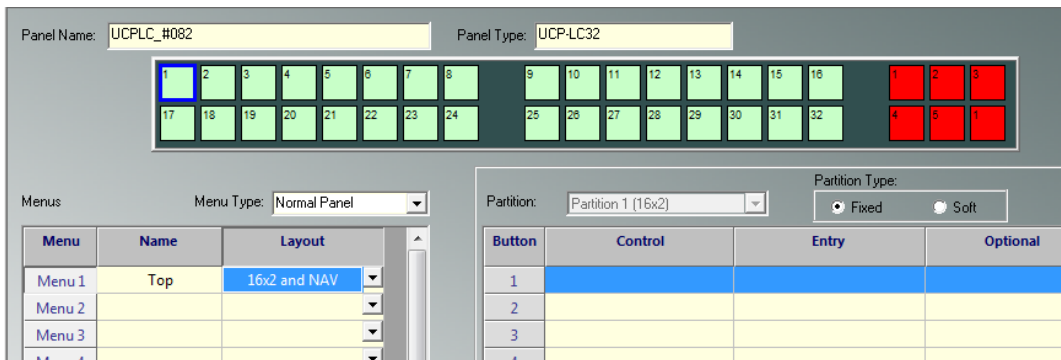
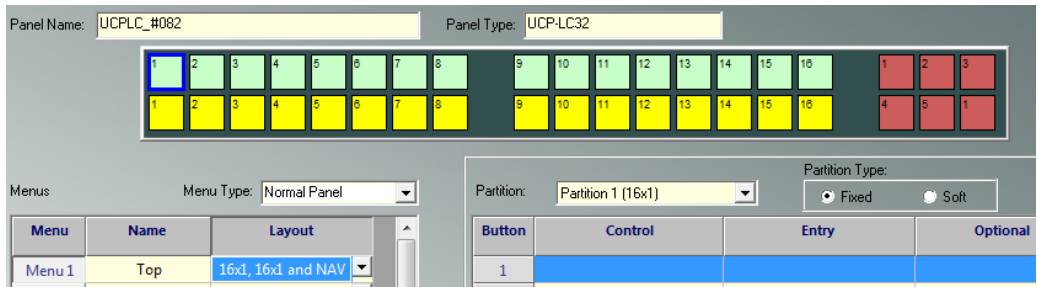


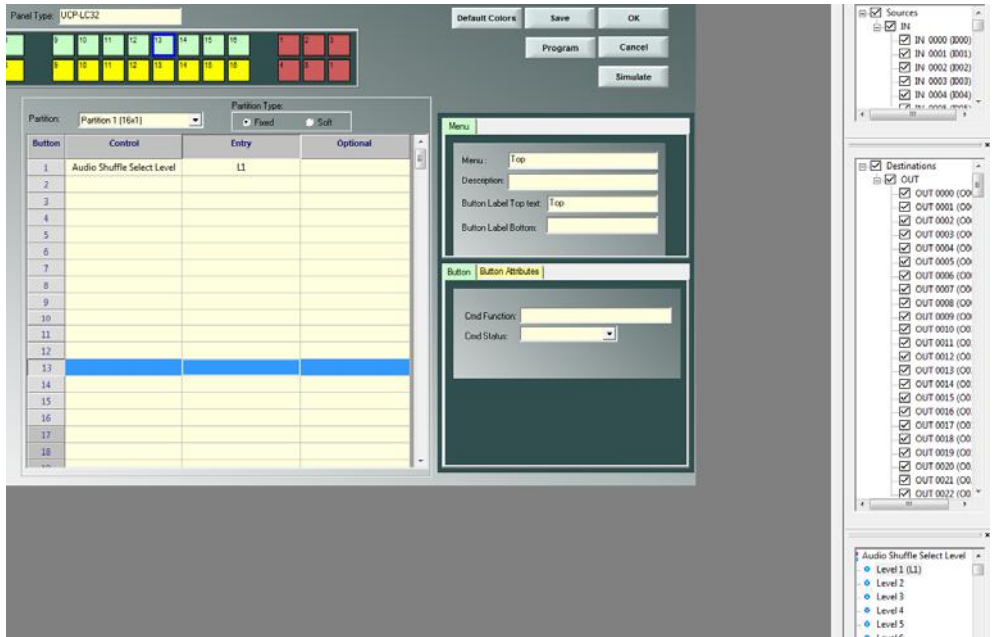
Figure 2-26. 16x2 display

The “x1” or “x2” following the layout title represents the number of partitions. For example defined as 16x1 will appear as follows:.



**Figure 2-27. 16x1 example**

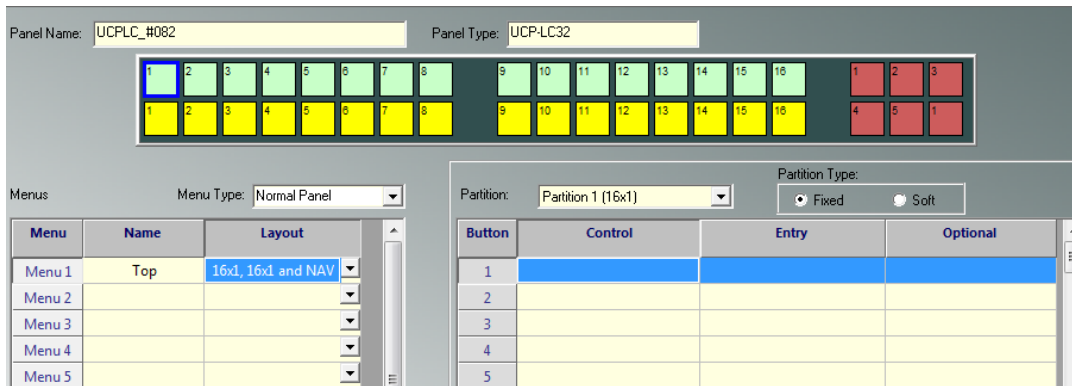
The partition structure is represented inside the middle table, and can be displayed graphically by clicking the actual buttons (up or down) on the interface. With the row highlighted in the ‘Menu’ table (far left), menu items can be dragged from the lower-right listing to the Control column within the main table.



**Figure 2-28. Button drag**

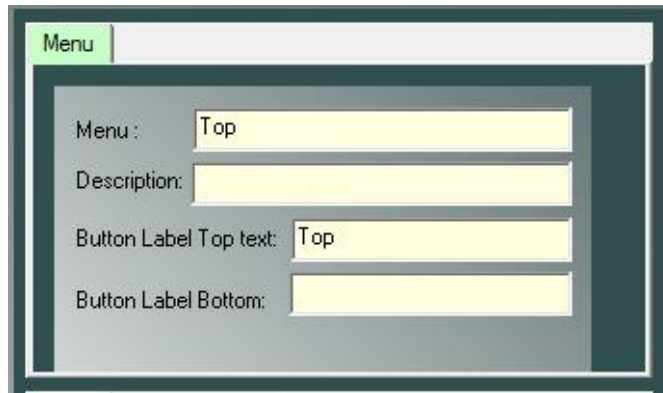
In our example, specific menu items are selected from the corresponding ‘menu’ drop-down listing within the column at the lower right corner of the display interface.

Note that the Partition table remains blank at this point in the setup.



**Figure 2-29. Blank partition table**

The only menu item that exists is 'Top' along the Control Functions column (lower right of display).

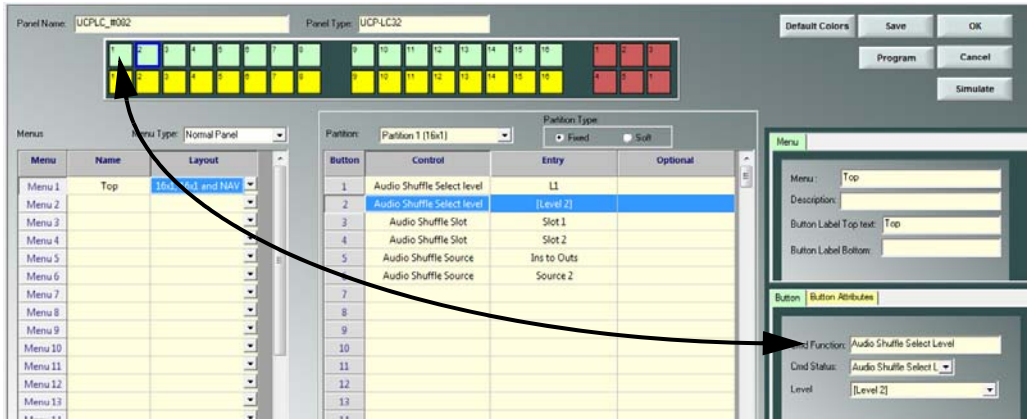


**Figure 2-30. Top - name and description**

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## Top Menu Button Population

The illustration below shows desired buttons for use dragged from the menu listing in the lower-right column to the 'Partition Type' table in the middle of the display.



**Figure 2-31. Partition List**

In this scenario, pressing button #1 on the actual panel reveals all items listed in the Partition Type table.

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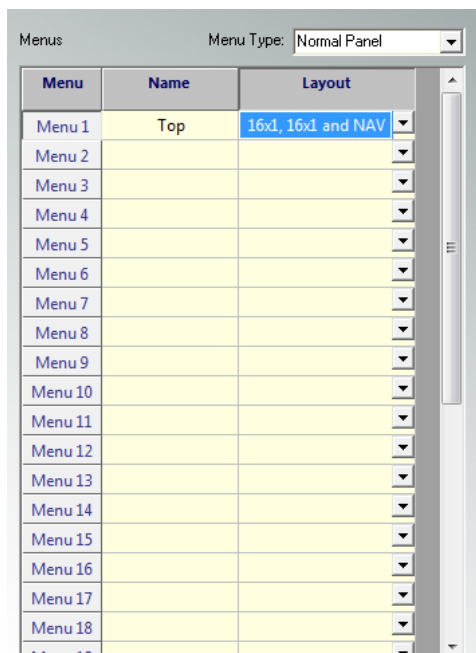
## Saving and Program

Before programming a panel configuration, save your current layout by clicking the corresponding 'Save' button. (The Save action is immediate, with no feedback dialog shown.)

Once this is done click the Program button. This will send the program layout to the actual panel. Once complete the panel will reboot with a flashing light sequence on the panel itself.

## Setup - Review

- 'Top menus' are defined in the far left column.



The screenshot shows a software interface for configuring a menu. At the top, there is a label 'Menu:' and a dropdown menu for 'Menu Type:' set to 'Normal Panel'. Below this is a table with three columns: 'Menu', 'Name', and 'Layout'. The table contains 19 rows, labeled 'Menu 1' through 'Menu 19'. The first row, 'Menu 1', is highlighted in blue. In the 'Name' column of the first row, the word 'Top' is entered. In the 'Layout' column of the first row, the text '16x1, 16x1 and NAV' is entered. The other rows in the table are empty. A vertical scrollbar is visible on the right side of the table.

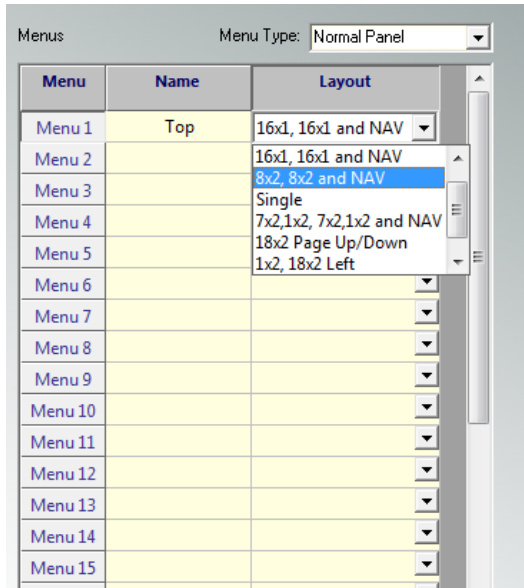
Menu	Name	Layout
Menu 1	Top	16x1, 16x1 and NAV
Menu 2		
Menu 3		
Menu 4		
Menu 5		
Menu 6		
Menu 7		
Menu 8		
Menu 9		
Menu 10		
Menu 11		
Menu 12		
Menu 13		
Menu 14		
Menu 15		
Menu 16		
Menu 17		
Menu 18		
Menu 19		

Figure 2-32. Top Column

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- The panel type is designated in the drop-down to the immediate right of the top menu name.



**Figure 2-33. Panel Type**



- Buttons (within that particular panel) are defined by dragging items from the lower-right table to the middle (Partition Type) table. Add, or designate entries in the Partition Type table by making your selections within the table shown (below) and dragging each to the desired column location.

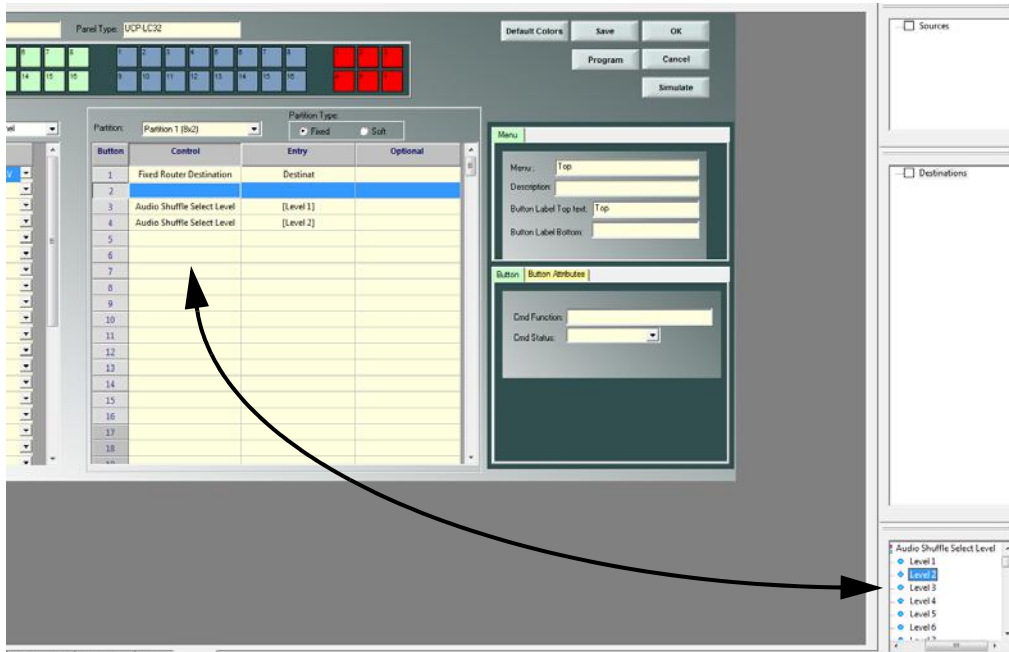


Figure 2-34. Partition button populate

The Attribute window contains specific button definitions. You can make font type and size modifications at this location.

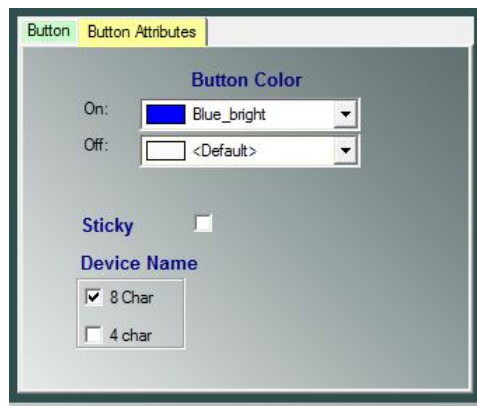


Figure 2-35. Button Attribute

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## Programming - Review

To start your LC-32 panel configuration, double-click 'New Panel' icon immediately underneath 'Create New Device' along the upper-right hand column of the UCON interface.

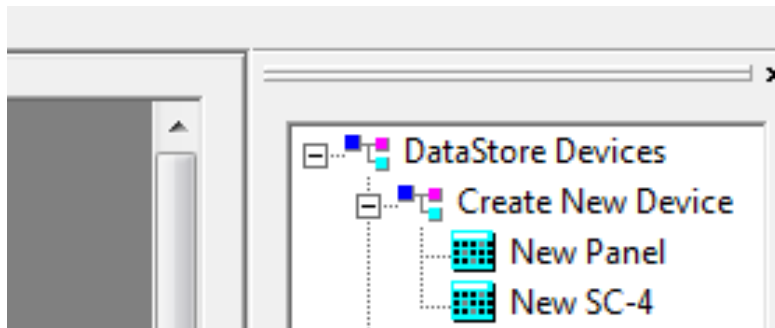


Figure 2-36. New Panel icon

A dialog will appear asking you to name the Panel.



Figure 2-37. Device Name

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Once the panel is named, select a panel type from the dialog that appears.

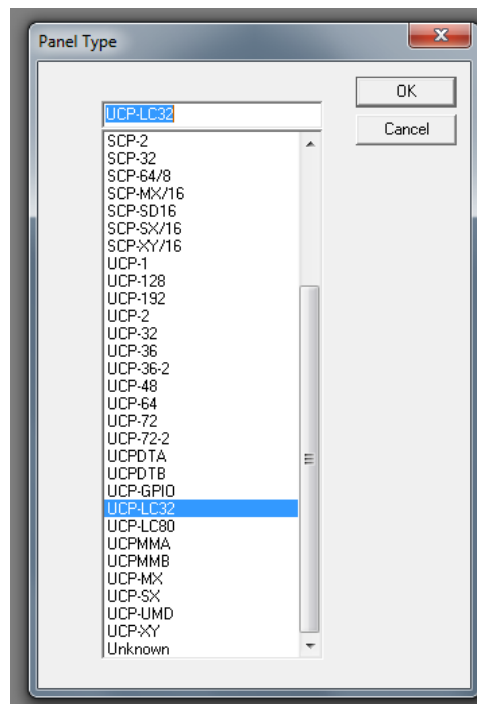
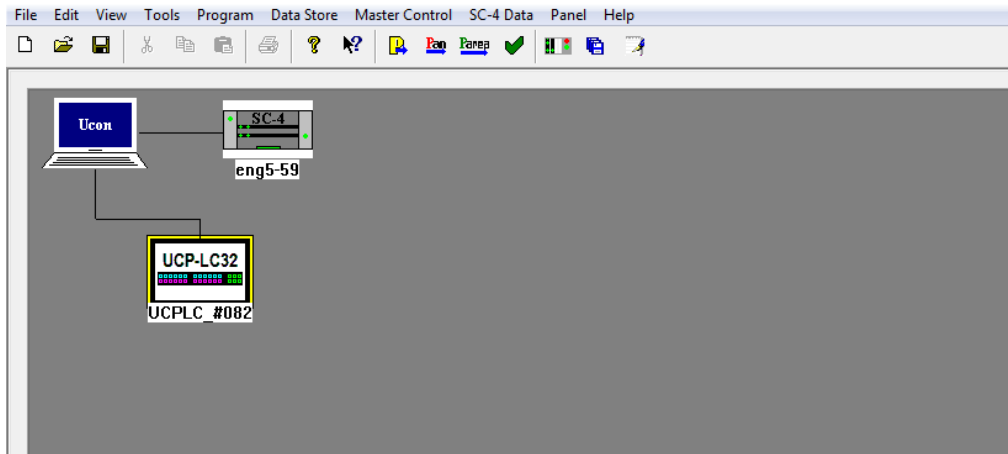


Figure 2-38. Panel Type

---

Next, double-click the newly created panel (icon) within the center section of the display.



**Figure 2-39. New Device - System view**

The new device will include an associated tab at the bottom of the display. Double-clicking the device icon will activate the panel view.

**Note:** *You are supplied with panel templates, which are available when the Panel menu is accessed – UCP-LC-32 drop down menu – and from here a selection of templates appears within a drop-down menu. This will essentially provide a standardized panel template populated with defaults that the user can use to add their own Sources and Destinations.*

---

---

## Simulating Your Panel Configuration

Click the **Simulate** button to activate a live representation of your panel layout directly within the UCON interface.



Figure 2-40. Simulate button

Your fully configured and operational panel will be presented on screen.



Figure 2-41. Panel simulation

**Important:** Use caution when performing the Take command, as the panel is now live on air.

Click the Program button (upper right within the display) when complete.

**Note:** When the Program button is clicked in U-CON, the U-CON interface will indicate the process as being 'Done', but there is a lag time of a few seconds in the actual panel.

---

## System Salvo Entry

A system salvo is a desired set of outputs that correspond to a set of inputs, matched to a single Take. Salvos are created when a device is edited within UCON by right-clicking the device, then selecting edit from the pop-up menu.

### Setting Up a Salvo

Right-click the controller icon in the UCON interface and click *Edit*.

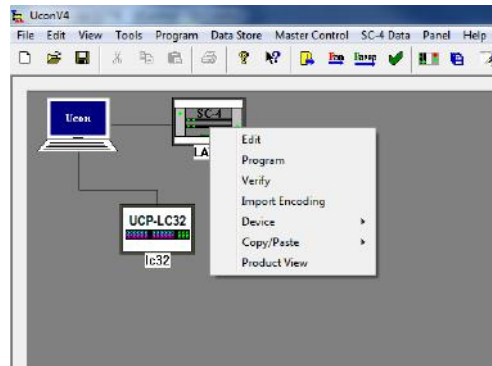


Figure 2-42.

The following screen will appear. Click the Salvos button to activate the Source and Destinations configuration dialog (next Figure).

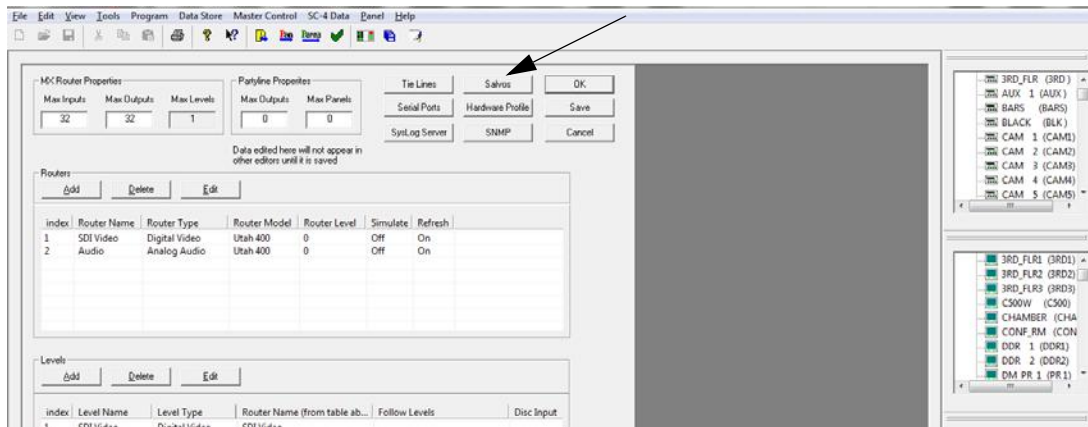


Figure 2-43.

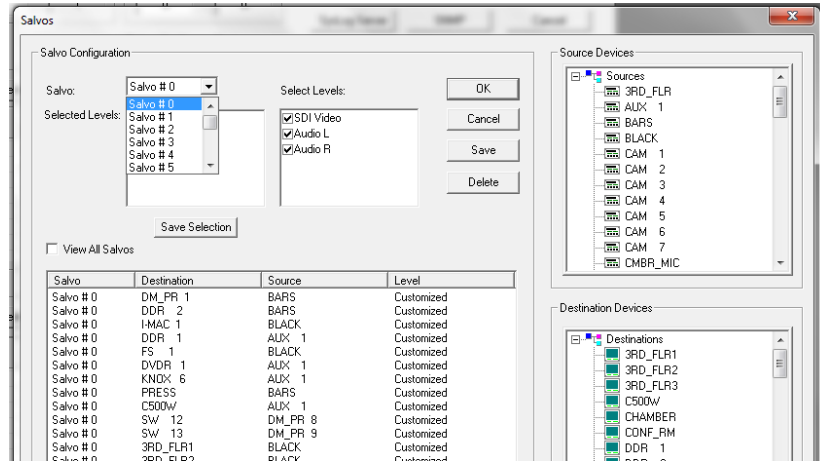


Figure 2-44.

Select the salvo to edit by using the drop-down menu (upper-left corner), then select the desired *Level* by clicking the check boxes in the 'Selected Levels' group area. Next, add Outputs (dragged from the lower-right column) and the Sources (upper-right column) that will be associated with the Outputs.

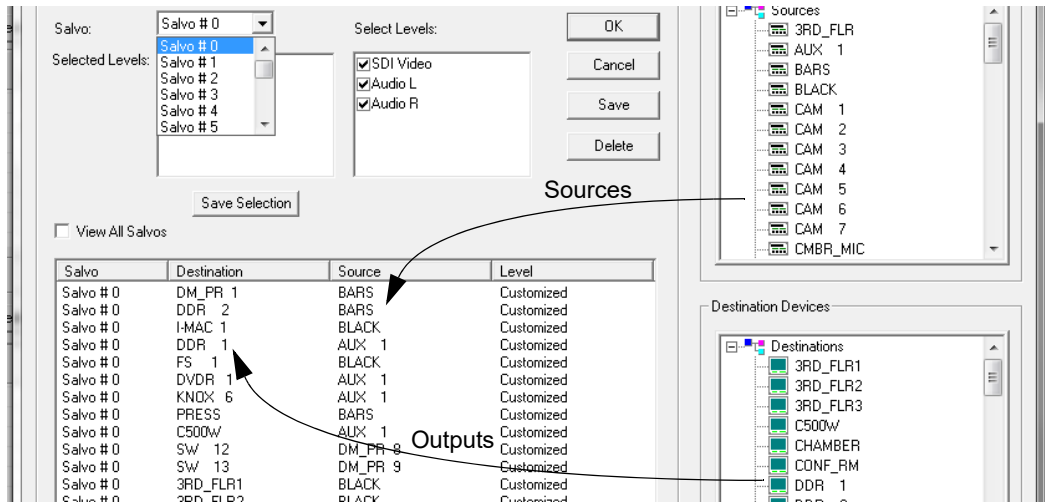


Figure 2-45.

When the salvo is defined (outputs and sources added), click the Save button.

Repeat the above process if you would like to create an additional Salvo. *For the purpose of this exercise we will set up one additional Salvo.* Click OK when you are finished defining Salvos. You are now returned to the previous dialog. Click the OK button to return to the UCON Home screen.

## Panel Template Definition for Salvo Use

Right-click your panel icon and select Edit from the pop-up menu.

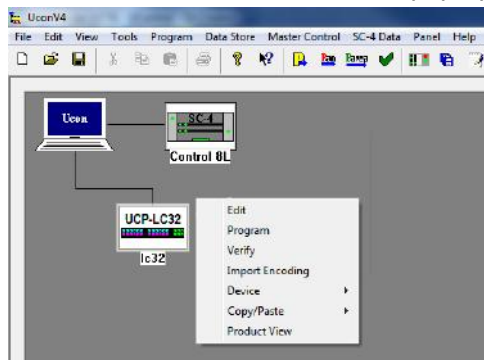


Figure 2-46.



A display similar to the following will appear.

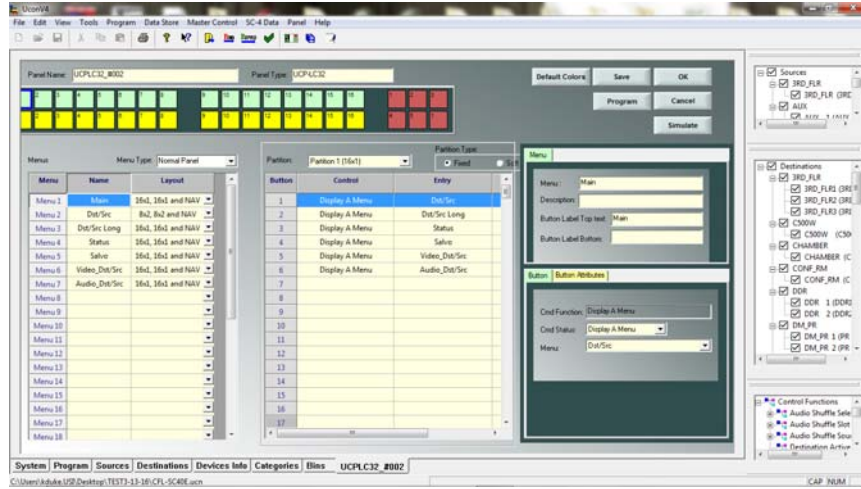


Figure 2-47.

**Note:** If you are working with a pre-existing template for salvo use, make your template selection from the Panel menu. Your display will resemble the Figure above once your template is loaded.

The Main menu is indicated with the highlighted cell at the upper-left corner of the display.



Figure 2-48.

Sources and Destinations are applied to the Control and Entry columns by dragging any and all source and destination from the listings at the right side of the display.

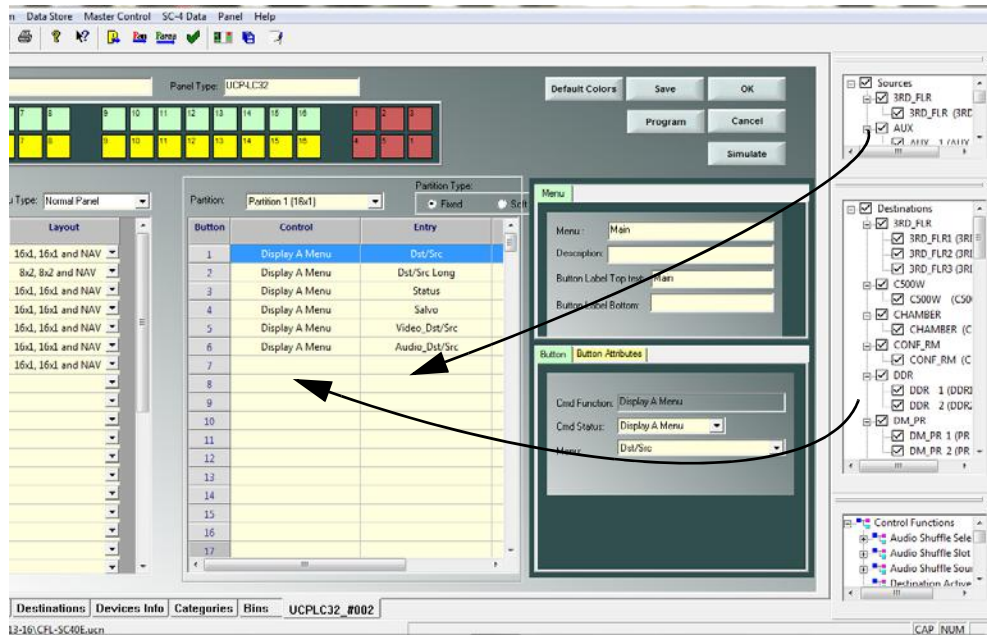


Figure 2-49.

Once a Source or Destination is dropped into a row, the Control and Entry columns will update, displaying the specific name (Entry column) and the router's Source or Destination (Control column).

Status menus can be added to the table by dragging the corresponding menu selection from the lower-right listing to a blank row, or an already populated row if you'd like to update the contents.

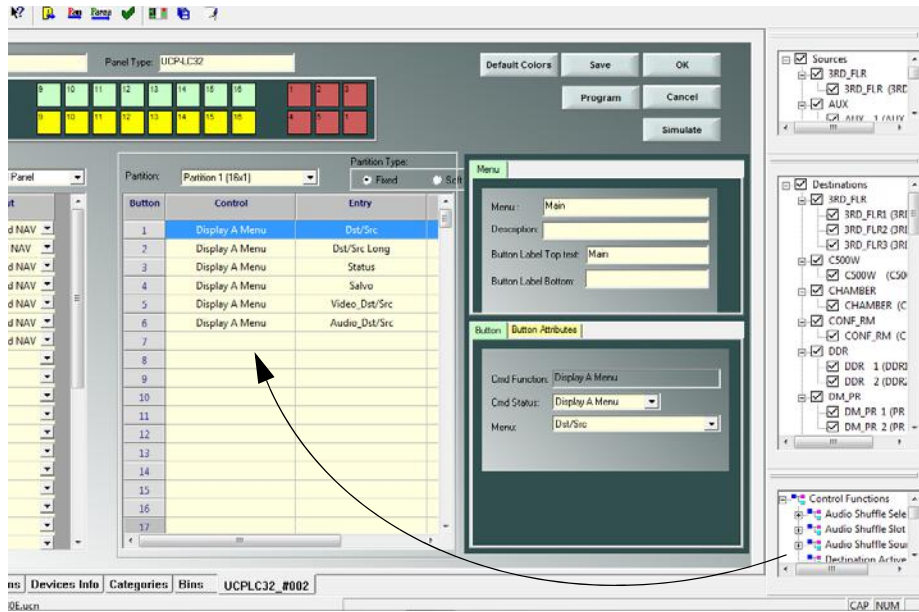


Figure 2-50.

In our example, the completed steps to this point have allowed us to define a set of buttons for the originally highlighted menu (see Figure 2-48).

## System Salvo Definition

In the Name column (left-hand table) a salvo is indicated as a *new menu* item by typing 'Salvo' in the blank, highlighted cell. This will add the salvo to the panel menu.

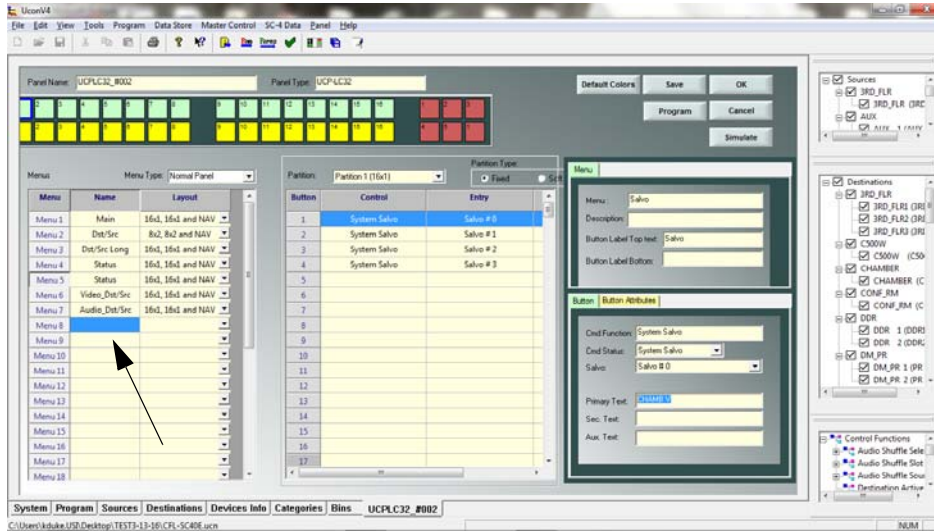


Figure 2-51.

Next, select the layout type from the drop-down menu.

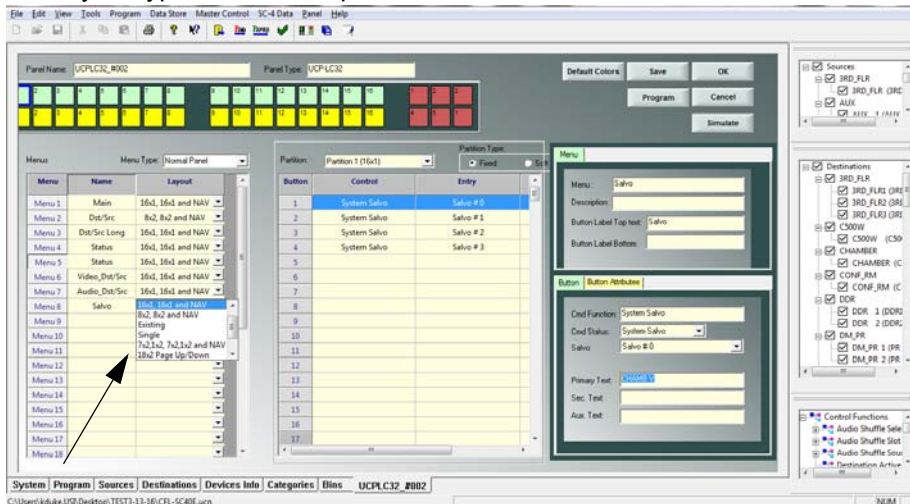


Figure 2-52.

Now, define the salvo by adding the control function to the column (shown below).

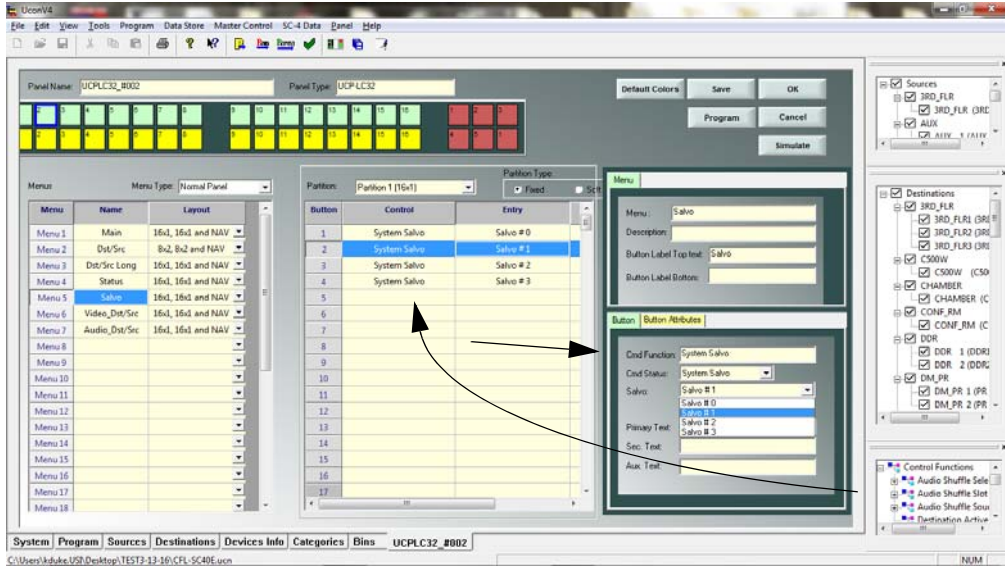


Figure 2-53.

As you make highlight selections (Control/Entry columns), the 'Button' tab area changes (blue arrow above). In our example, two salvos were set up (Salvo #0 and Salvo #1). For reference, see Figure 2-45.

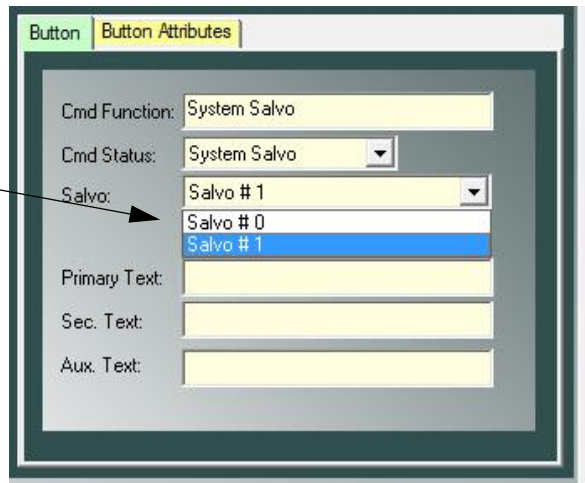


Figure 2-54.

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## Salvo Rename

If you would like to rename the salvo, select one of the salvos from the drop-down menu (shown above), and type a new name in the 'Primary Text' field to more appropriately depict its actual use ("control1", "mobile2", etc.).

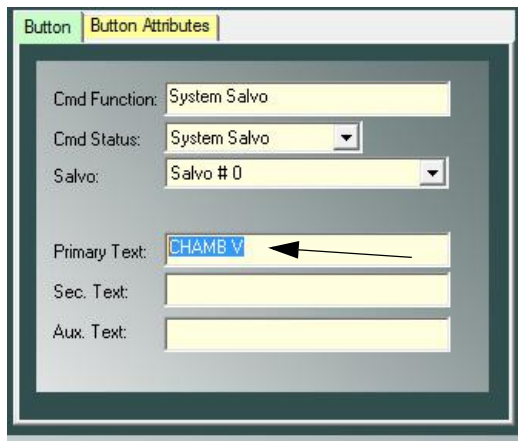


Figure 2-55.

At this point, two salvos have been defined and named, and will be loaded onto actual buttons when the panel is programmed. The rMan status screen will reflect the Takes as each occurs once the salvos are defined.

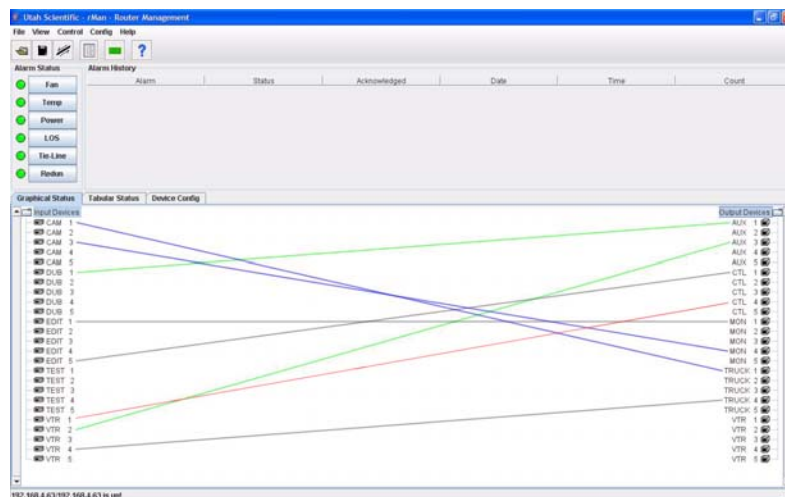


Figure 2-56.



## Adding Existing Salvos to New Buttons

This sequence describes the salvo setup process when the salvo itself is already defined (see See “Setting Up a Salvo” on page 28.)

First, select the menu to which is the salvo to be added.

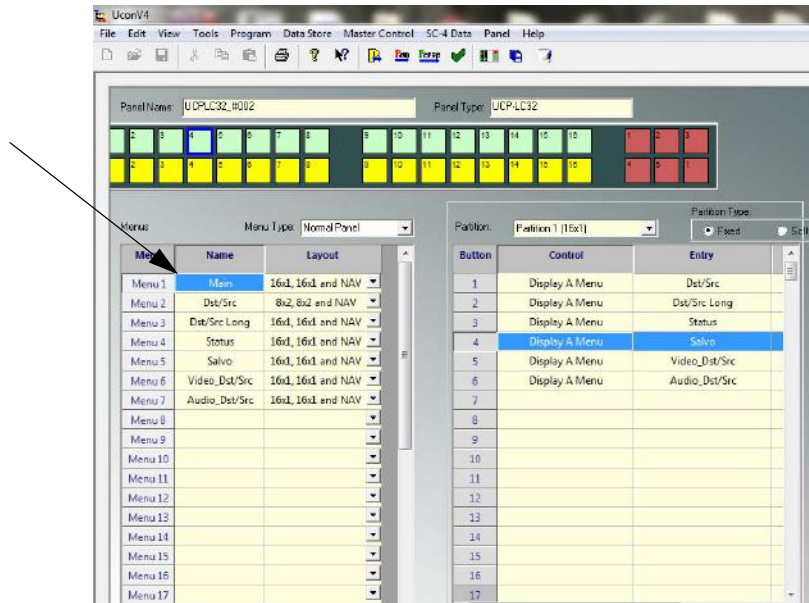


Figure 2-57.

You can select any menu within the listing. (This menu item can be renamed at this column location if necessary.)

Select the needed layout from the drop-down menu.

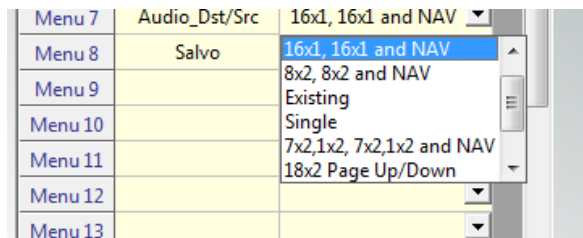


Figure 2-58.

Highlight the **Main** menu in the *Name* column, then select the 'Menus' listing in the lower-right selection dialog.

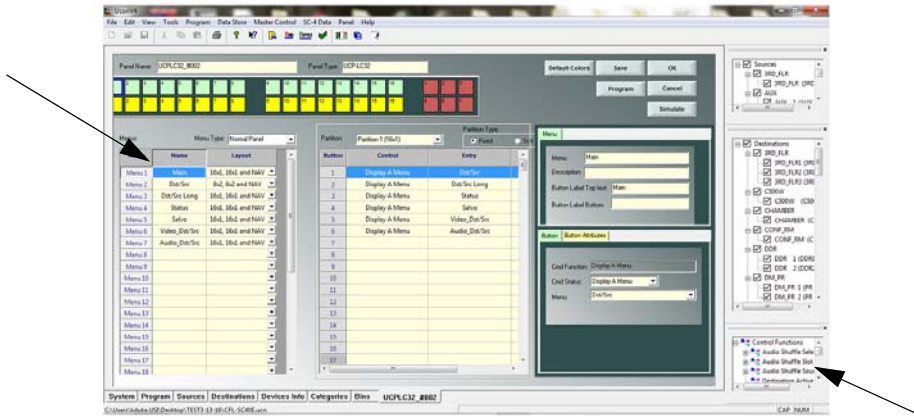


Figure 2-59.

The salvo just created (Figure 2-58) will appear in the lower-right listing. Drag this menu item to the Control/Entry columns (below).

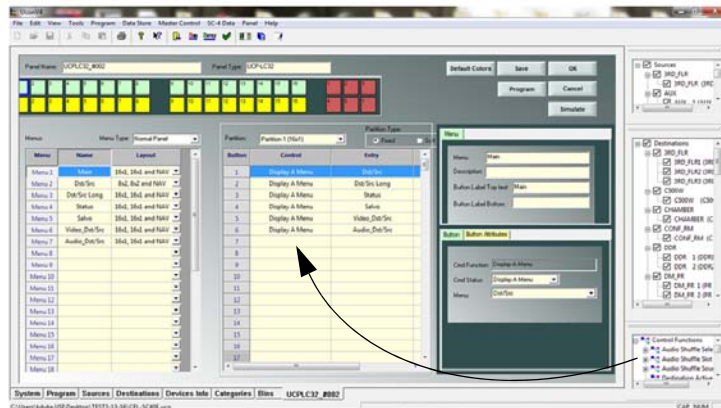


Figure 2-60.



Now highlight the new salvo listing in the *Name* column, then with the salvo highlighted in the Control/Entry columns, define the button attributes in the adjacent dialog window (see below).

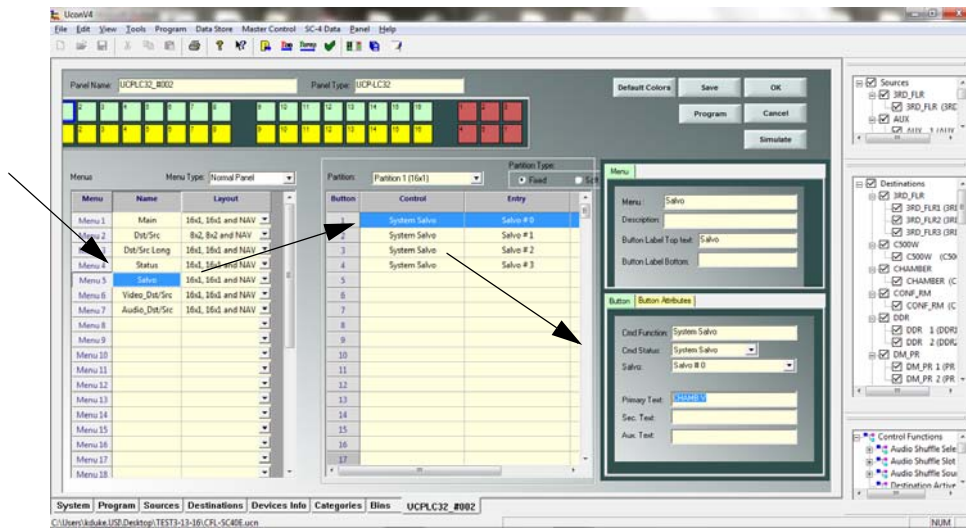


Figure 2-61.

Select one of the salvos from the drop-down menu, then rename it if desired.

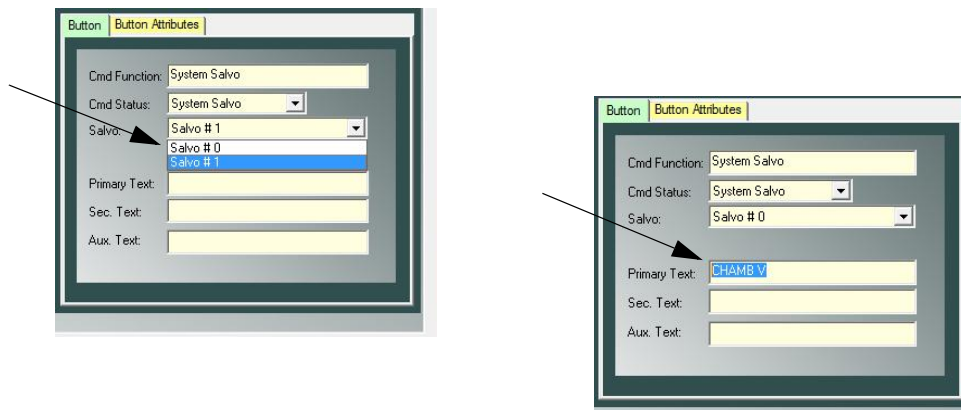


Figure 2-62.

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Now click the **Button Attributes** tab and change the button color if needed.

Repeat the above step to add an additional salvo to a button.

Once the salvos are in place (added to buttons), click **Save**, then **OK** to return to the main UCON interface, or you can click **Program** to send the new button designation directly to the panel. The fixed panel will now contain button labels that correspond to the names and functionality designated in this exercise.

## Operation

When opened, the rMan display will contain the live status of all input and output connections as each Take is made at the router.

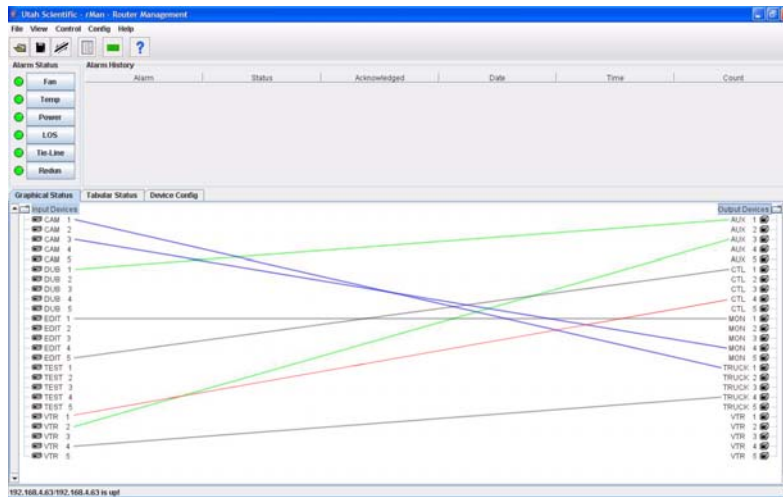


Figure 2-63.

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