



ADVANCED CONTROL SYSTEMS

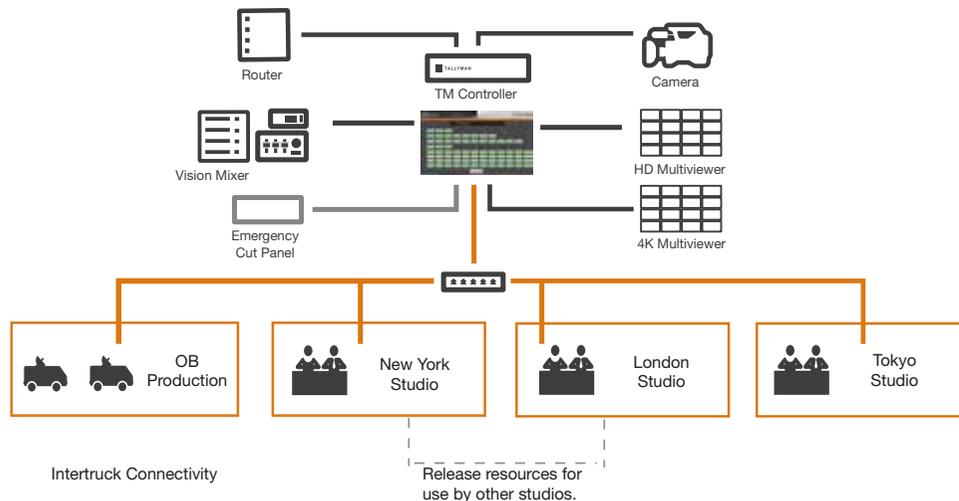
FUNCTIONALITY DEEP-DIVE SERIES

Issue One: Router Control

Every customer has their own workflows and challenges to address; users should be able to leverage the full capabilities of their systems. In this series of How-To Guides, we will help engineers understand how to configure systems with added-value functionality to help solve issues in existing and future projects.

Customers will be able to use a control platform as a simple unified system to deliver professional output and make simple day-to-day modifications without the need for expensive support calls.

This How-To Guide showcases TSL's Router Control capabilities.



SCENARIO

Imagine that users need to be able to manage signal routes throughout a facility via an operational control interface between the sources and destinations. This might include routing video, audio and data signals between the various elements of a network. You might need to:

- Route a camera signal to a vision mixer, as well as through other processors, before it arrives at its destination
- Have an external event trigger a complete reconfiguration of a multi-router setup
- Route several sources simultaneously
- Make set routes or multiple routes via a single button press.

Users need a system that will send a signal precisely where it's needed to maintain clear and efficient production. TSL's router control functionality provides the flexibility and control to build an appropriate signal path for any given operation.

This guide provides in-depth instructions on how to:

- Set up targeted signal routing between a System Controller and a Router using TSL's TallyMan software
- Design a user-friendly virtual panel (TMVP) that will help operators use the platform as a simple unified system delivering professional output
- Use the configured Router to connect to a physical TallyMan Control Panel (TMCP).

1. SET UP ROUTER CONTROL

First, we need to set up the system.

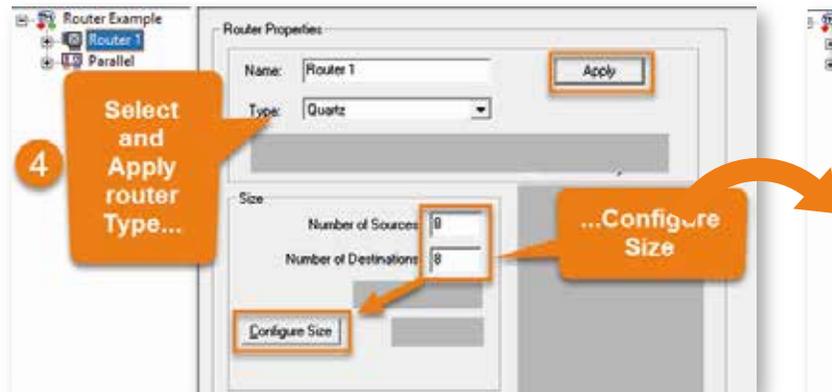
1
Set name and select hardware platform (creates correct I/O list for System Controller)

2
a) Select and Configure system
b) Set up communications to your TallyMan system controller: Leave the default Port Number as 5001...
...then enter the IP address of the TallyMan unit and click OK

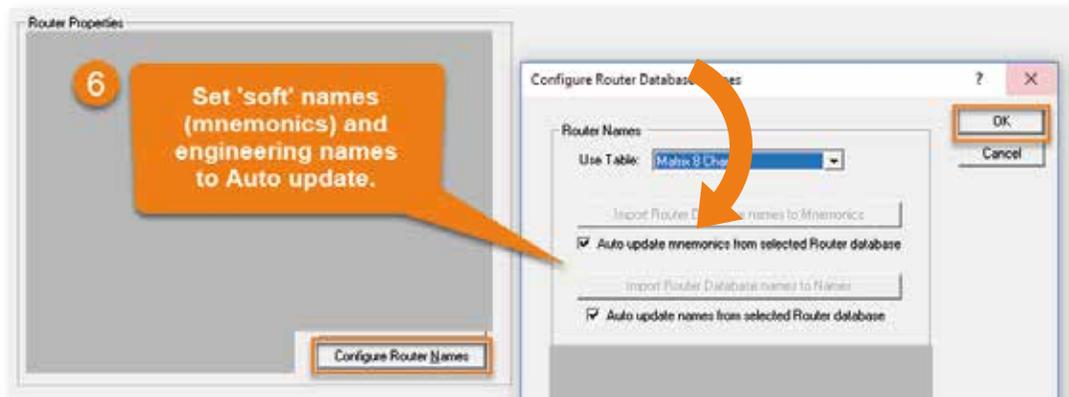
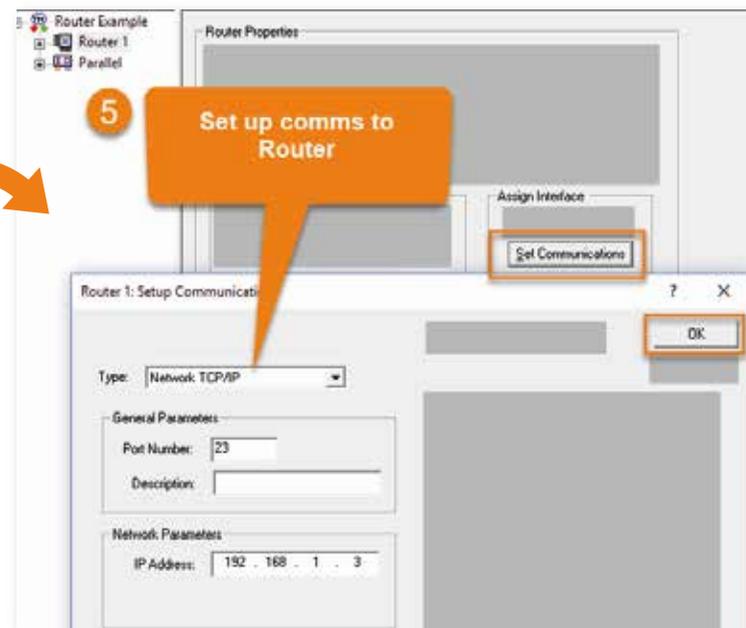
3
Add your Router and name it

Now we can configure the router to our configuration.

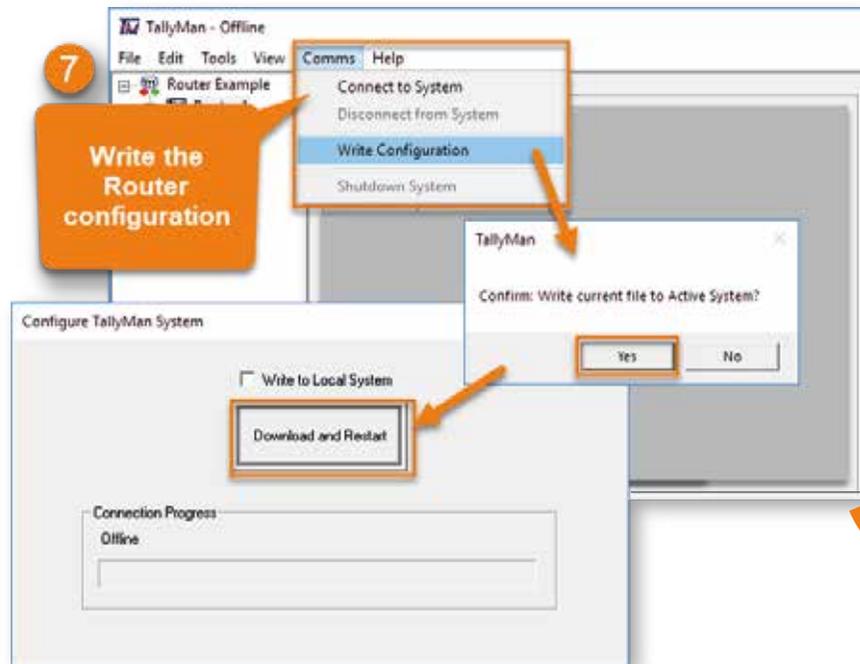
Set the type to the correct protocol for your router and set the size.



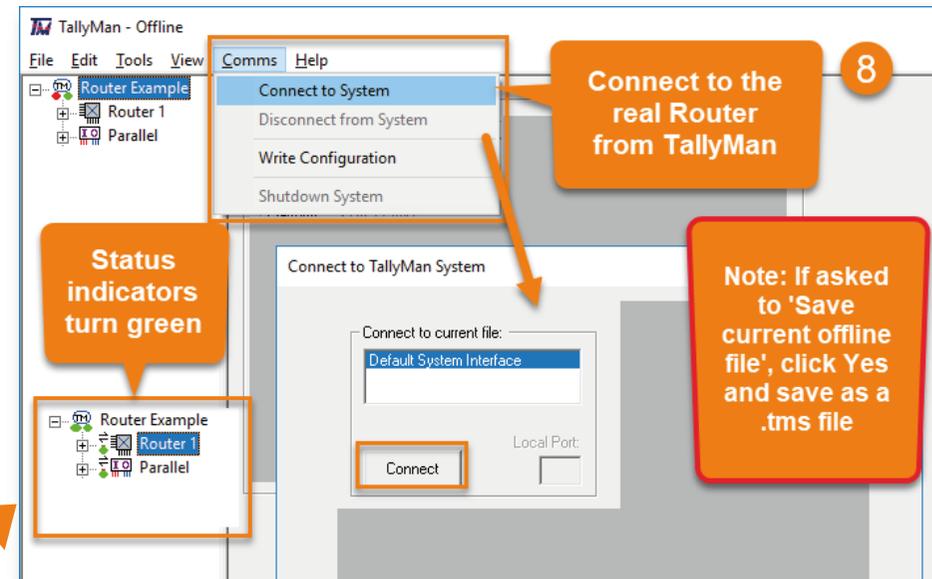
Setup the communication settings for the router.



Write the configuration to the TallyMan System Controller.



Connect to the system controller to check the router is connected.



2. SET UP VIRTUAL PANEL

1

If connected, disconnect from system, then Add a TMVP Interface

Port must be different from system controller

Enter the IP address of the TallyMan system controller

TMVP interface listed in System Interfaces panel

2

Write the configuration

Confirm: Write current file to Active System?

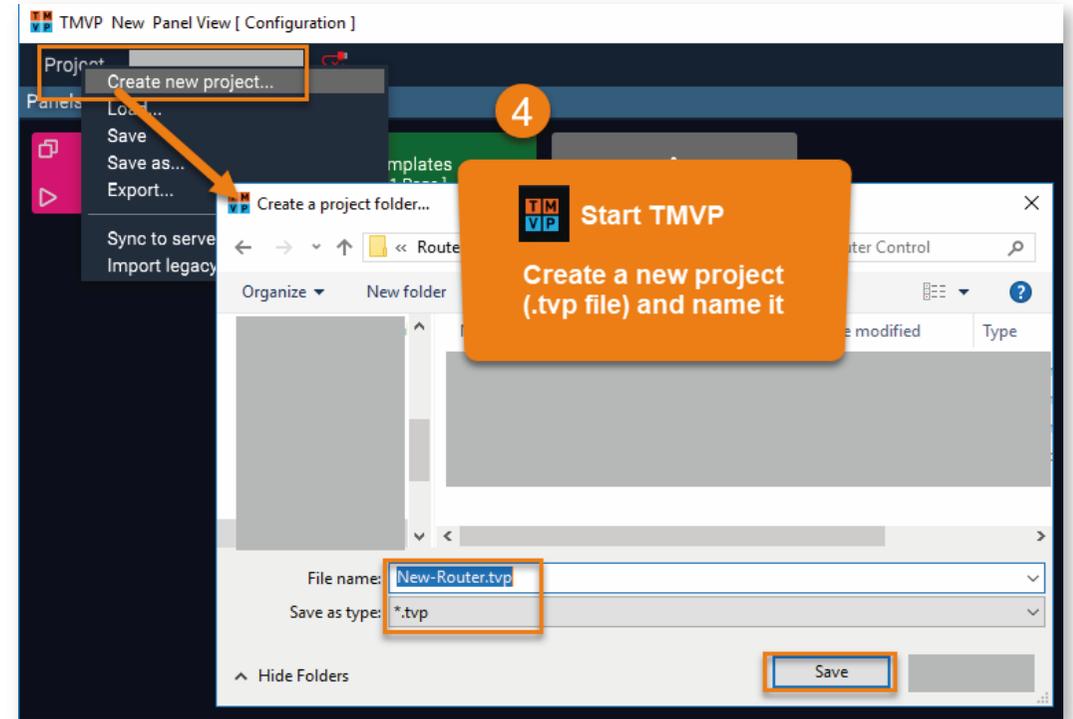
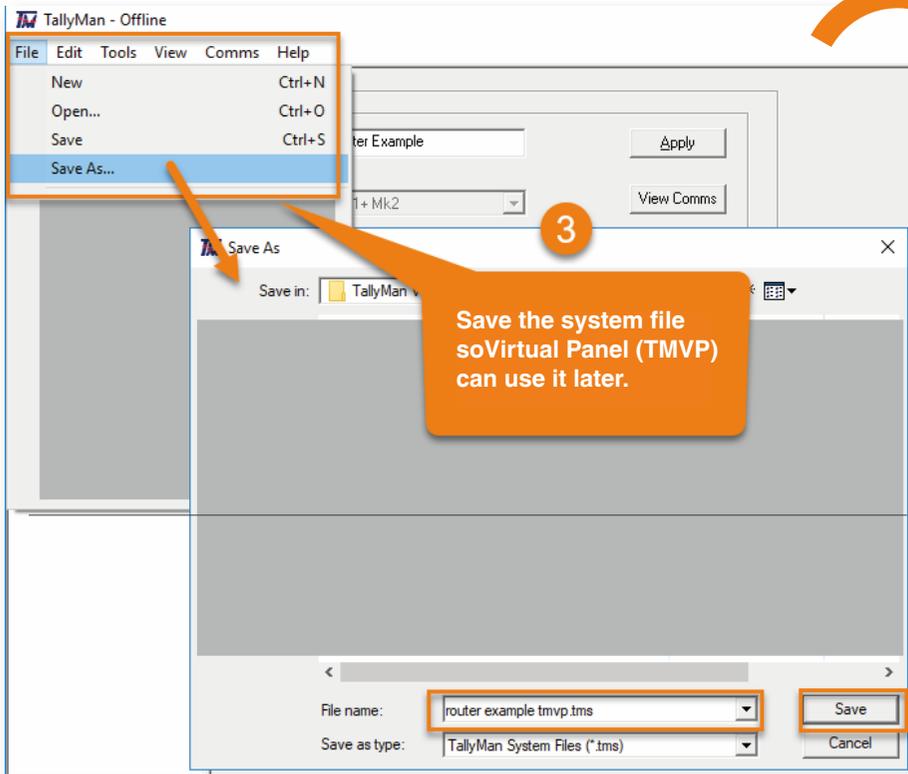
Yes

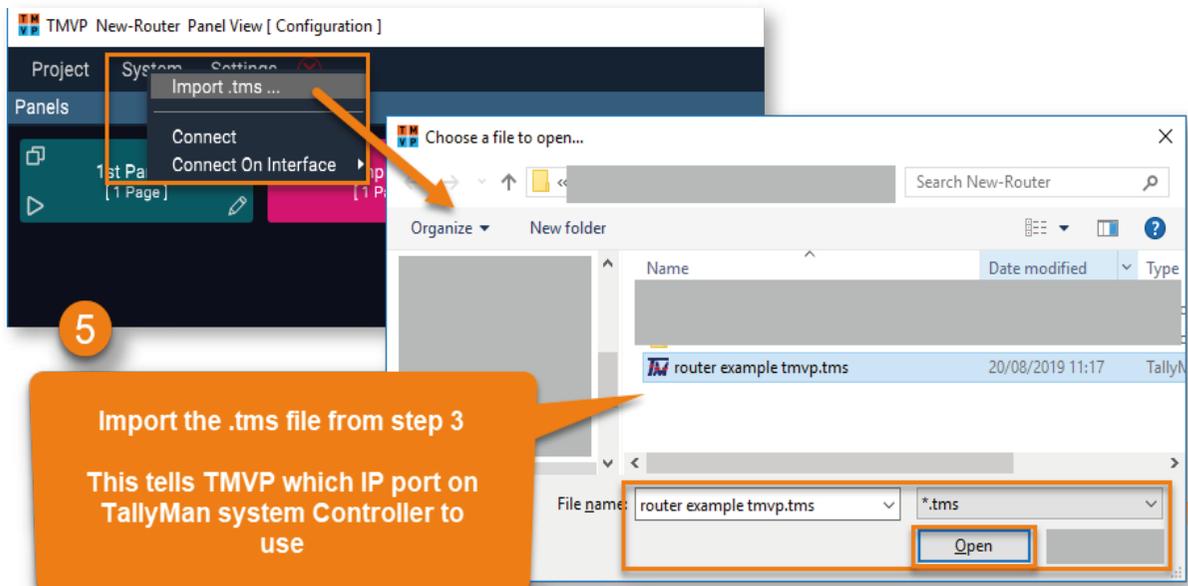
Write to Local System

Download and Restart

Note: This procedure requires that you connect to a different IP port.

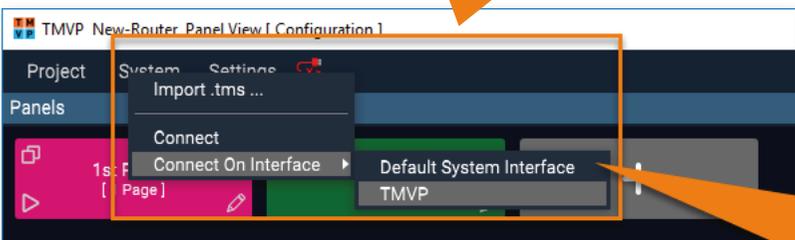
Open up TMVP Software to setup Virtual Panels that will connect to the TallyMan Controller.





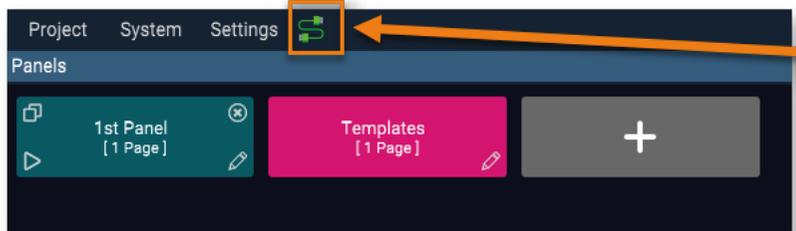
5

Import the .tms file from step 3
 This tells TMVP which IP port on TallyMan system Controller to use



6

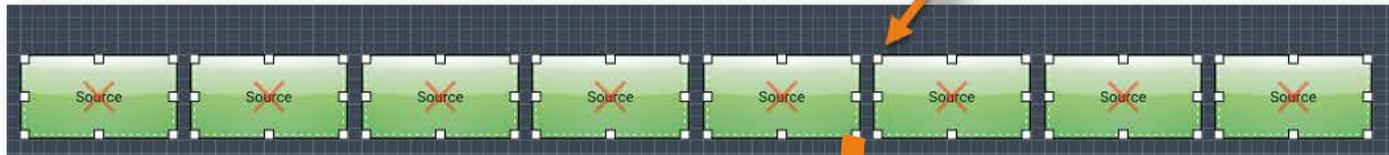
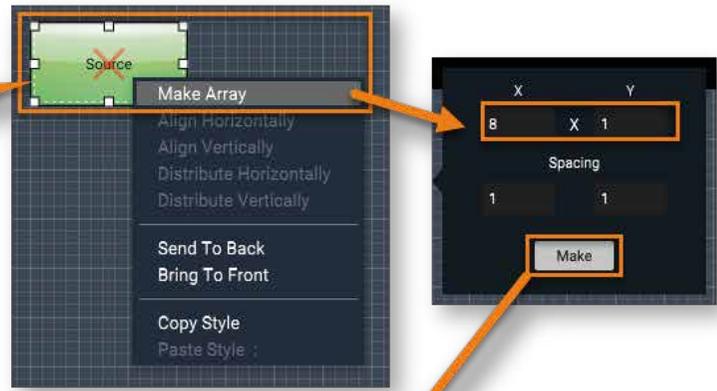
Connect on the TMVP interface created in step 1
 Check connection icon turns green



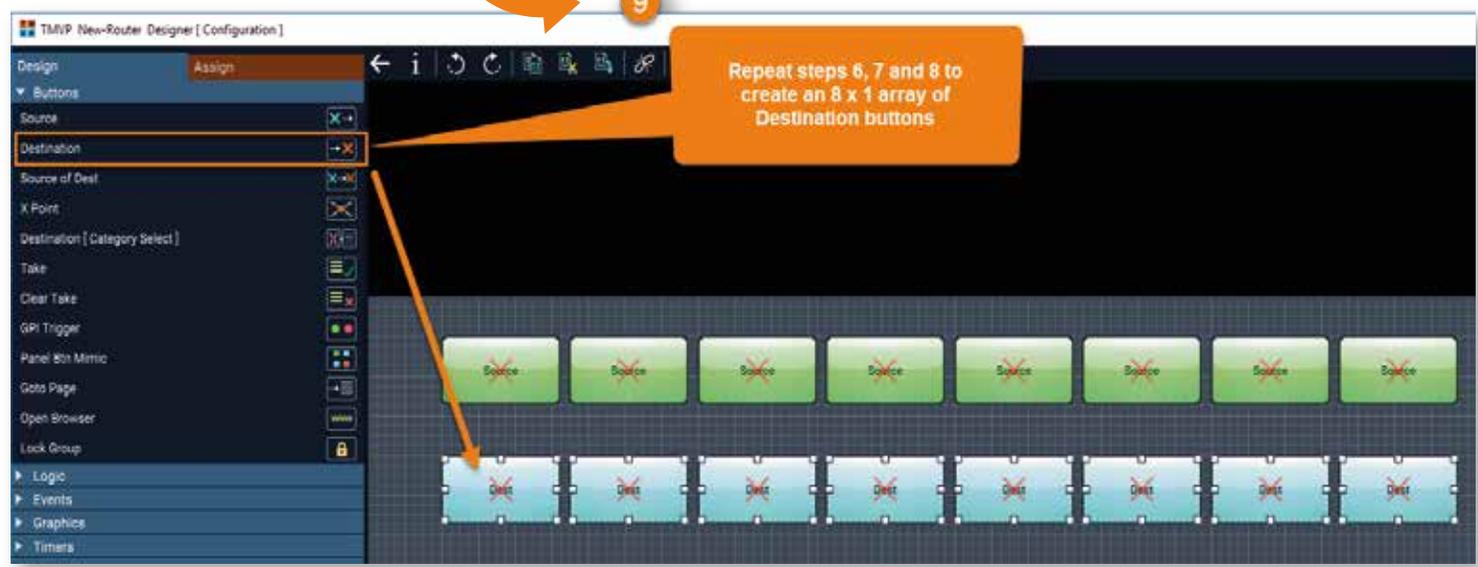
Now that TMVP and the TallyMan controller are connected, let's begin making a router control panel.

The image shows a two-part interface. The top part is a 'Panels' menu with '1st Panel [1 Page]' and 'Templates [1 Page]'. A pencil icon on the '1st Panel' is highlighted with an orange box. An arrow points from this box to a callout: '7 Click the pencil icon to open the Design screen'. The bottom part is the 'TMVP New-Router Designer [Configuration]' window. It has a 'Design' tab and an 'Assign' button. A list of components is shown on the left, including 'Buttons', 'Source', 'Destination', 'Source of Dest', 'X Point', 'Destination [Category Select]', 'Take', 'Clear Take', 'GPI Trigger', 'Panel Btn Mimic', 'Goto Page', 'Open Browser', and 'Lock Group'. A 'Source' button with a red 'X' is highlighted in the list. An arrow points from this button to a callout: 'Drag and drop a Source button onto the stage...'. Another arrow points from the 'Source' button to a callout: '...the red cross indicates it is not yet assigned'. On the right side of the designer, a 'Source' button is shown on a grid stage, also with a red 'X' over it. An arrow points from the 'Source' button in the list to this button on the stage.

8 Right-click on the Source button and make an 8 x 1 array



9 Repeat steps 6, 7 and 8 to create an 8 x 1 array of Destination buttons



10

Assign Sources to panel buttons...



a) Drag to select all buttons on Stage, or Ctrl+click a button to select all buttons of that type

TMVP Test2 Designer [Configuration]

Design Assign

TM TallyMan

- Router Example
 - Router 1
 - Sources
 - Destinations
 - Parallel
 - TMCP-16

b) Display Assign panel
c) Select Router Sources

1 2 3 4 5 6 7 8

1: Source 1 1
2: Source 2 2
3: Source 3 3
4: Source 4 4
5: Source 5 5
6: Source 6 6
7: Source 7 7
8: Source 8 8

e) Drag and drop onto empty area of Stage...
...this automatically assigns all 8 Sources

If you drop on a button, this only assigns that button

d) Select all Sources here

	Name	Mnemonic
1	Source 1	Src 1
2	Source 2	Src 2
3	Source 3	Src 3
4	Source 4	Src 4
5	Source 5	Src 5
6	Source 6	Src 6
7	Source 7	Src 7
8	Source 8	Src 8

Design Assign

- TM TallyMan
 - Router Example
 - Rcuter 1
 - Sources
 - Destinations
 - Parallel
 - TMCP-16

11 Repeat steps 10c, d & e to assign Destinations

12 Click the Play button

TMVP switches to full-screen mode. Click on a Destination then on a Source to connect.

ROUTER PANEL EXAMPLE

The software is designed to allow you to be creative and with practice, you can easily add more functionality.



PCR 201 Presets



Current Routing:

Setlist Inputs

SS CAM1	SS CAM2	SS CAM3	26	27	28	29	30
---------	---------	---------	----	----	----	----	----

Edit name

Preset 1

501

Manual Edit

SS CAM1	SS CAM2	SS CAM3	26	27	28	29	30
201P1B1	201P1B2	201P1B3	201P1B4	201P1B5	201P1B6	201P1B7	201P1B8

Save Current

Preset 2

A

Manual Edit

SA CAM1	SA CAM2	SA CAM3	SA CAM4	SA CAM5	SA CAM6	SA CAM7	SA CAM8
201P2B1	201P2B2	201P2B3	201P2B4	201P2B5	201P2B6	201P2B7	201P2B8

Save Current

Preset 3

B

Manual Edit

SR CAM1	SR CAM2	SR CAM3	SR CAM4	SR CAM5	SR CAM6	SR CAM7	SR CAM8
201P3B1	201P3B2	201P3B3	201P3B4	201P3B5	201P3B6	201P3B7	201P3B8

Save Current

Preset 4

C

Manual Edit

SC CAM1	SC CAM2	SC CAM3	26	27	28	29	30
201P4B1	201P4B2	201P4B3	201P4B4	201P4B5	201P4B6	201P4B7	201P4B8

Save Current

Preset 5

Show 5

Manual Edit

33	34	35	36	37	38	39	40
201P5B1	201P5B2	201P5B3	201P5B4	201P5B5	201P5B6	201P5B7	201P5B8

Save Current

Back

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