

4) Default Video Wall on a New MV-800 (Head Display Outputs 1 to 4)

A default video tile-grid is shown on head **Display Outputs 1 to 4**. All 48 video signals monitored by the multiviewer are shown. And 'HH:MM:SS' time and 'display output number' are also shown.

1	2	3	HH:MM:SS OUTPUT 1	13	14	15	HH:MM:SS OUTPUT 2	25	26	27	HH:MM:SS OUTPUT 3	37	38	39	HH:MM:SS OUTPUT 4
4	5	6		16	17	18		28	29	30		40	41	42	
7		8		19		20		31		32		43		44	
9	10	11	12	21	22	23	24	33	34	35	36	45	46	47	48

Display Output 1 Display Output 2 Display Output 3 Display Output 4

HH:MM:SS
Output number
Multiviewer
input number
(1 to 48)

Figure 5 Default Video Wall Layout

5) Edit Video Wall Layout and Configure Alarms

See the [Grass Valley web site](#) for Orbit and MV-800 user manuals. Perform the following steps to check basic functionality for the video wall, setting an alarm, and Orbit network connection:

Pull the default layout from the Multiviewer:

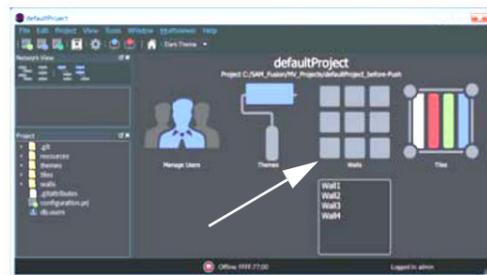
1. Run **Orbit** on a PC. (Orbit v2.1 or later)
2. **File > New Project.** Click "**Connected Multiviewer Project**". Browse to a PC folder where wall layout data will be stored. Folder *must be empty*. Click **Next**.



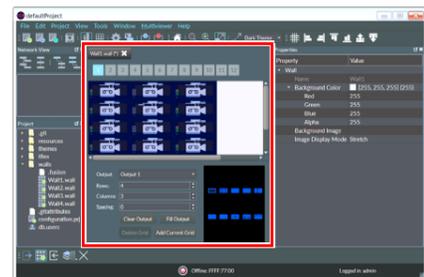
3. Select a multiviewer unit from displayed list. Click **Choose**. (Remember to select **RollCall Domain ID**)
4. Username **admin**, Password **admin**.
5. Click **Login**. The video wall layout is pulled from unit and read into Orbit.



The Orbit Project Screen:



6. Click the **Walls icon**. Click **Wall1** in drop-down list. The **Wall Editor** screen is shown for **Wall1**.



Make a visible change to the wall:

7. Click on a middle wall tile, to select it. **Tile Properties** are shown on the right.

8. Change Property **Tile Type** to **Analogue Clock**. The selected Orbit tile changes to a round clock face.
 9. Click **File > Save File** to save this change.
- Enable a Video Input Lost alarm:
10. Click **Multiviewer > Input Alarms**. A dialog is shown with tabs. On the:
 - **Input Tab** - Set **Selected Input** to **Input 1**.
 - **Alarm Tab** - Scroll down **Selected Alarm** box. Select **Video Input Lost**. Select **Alarm Enable**.
 - **Input Tab** - Click **Copy All**.
 11. Click **OK**. Click **File > Save File** to save change.

Video Input Lost alarm is enabled on multiviewer inputs.

Push the modified project to the multiviewer:

12. Click **Project > Select Multiviewer**. Enter the **IP address** of the MV-800.
13. Click **Project > Push**.

The MV-800 adopts the new wall layout and an analogue clock is shown.

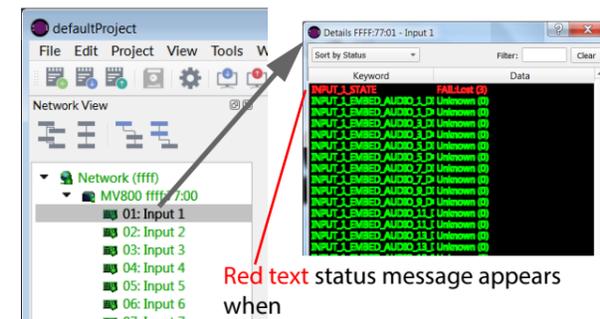
Provoking a 'Video Input Lost' alarm warning:

14. Disconnect Video Input 1 at router input (source). Video loss is detected. A slow-flashing, **red rectangular border** appears around the corresponding video wall tile.



The alarm may also be seen in a separate **Orbit** window:

15. Expand the **Network View Pane** MV-800 item and **right-click** on the **Input 1** item. A **Details** text window shows **Input 1** status.



Red text status message appears when

MV-800

Integrated Multiviewer

For use in Sirius 830, 840 and 850 Routers

Quick Setup Guide



Thank you for purchasing a new **MV-800 Integrated Multiviewer** module. This Quick Setup Guide will help you get the module running as quickly as possible.

Upon Receipt of your MV-800 Multiviewer:

The product is supplied in dedicated packaging provided by Grass Valley:

- Do not accept it if delivered in inferior or unauthorized materials.
- Unpack the MV-800 product carefully and check components against the packing list. If anything is incorrect, please notify your Grass Valley Partner or notify Grass Valley directly. (<https://www.grassvalley.com/contact/support/>).
- Check all component items have not been damaged in transit, including the MV-800 front and rear modules. If any damage has occurred, notify your Grass Valley Partner (or Grass Valley directly) and the carrier immediately. Have your order details ready.
- Retain the original packing materials because they could be useful for future transporting or shipping.

The MV-800 User Manual can be downloaded from <https://www.grassvalley.com/products/MV-800/>

Safety Information:

Caution: MV-800 Multiviewer products should only be serviced by qualified service personnel.

Caution: Take anti-static precautions when handling MV-800 modules, or when inserting or removing the modules.

Warning: To reduce the risk of electric shock, do not expose this equipment to water or moisture.

Warning: The MV-800 can be equipped with optical outputs which contain low-power laser beams. Do not look into an optical output. Laser radiation can cause irreversible and permanent damage of eyesight.

Warning: Do not look at the end of an optical fiber to see if light is coming out. Use optical instrumentation.

Warning: Unused optical outputs should be covered, to prevent direct exposure to the laser beam.

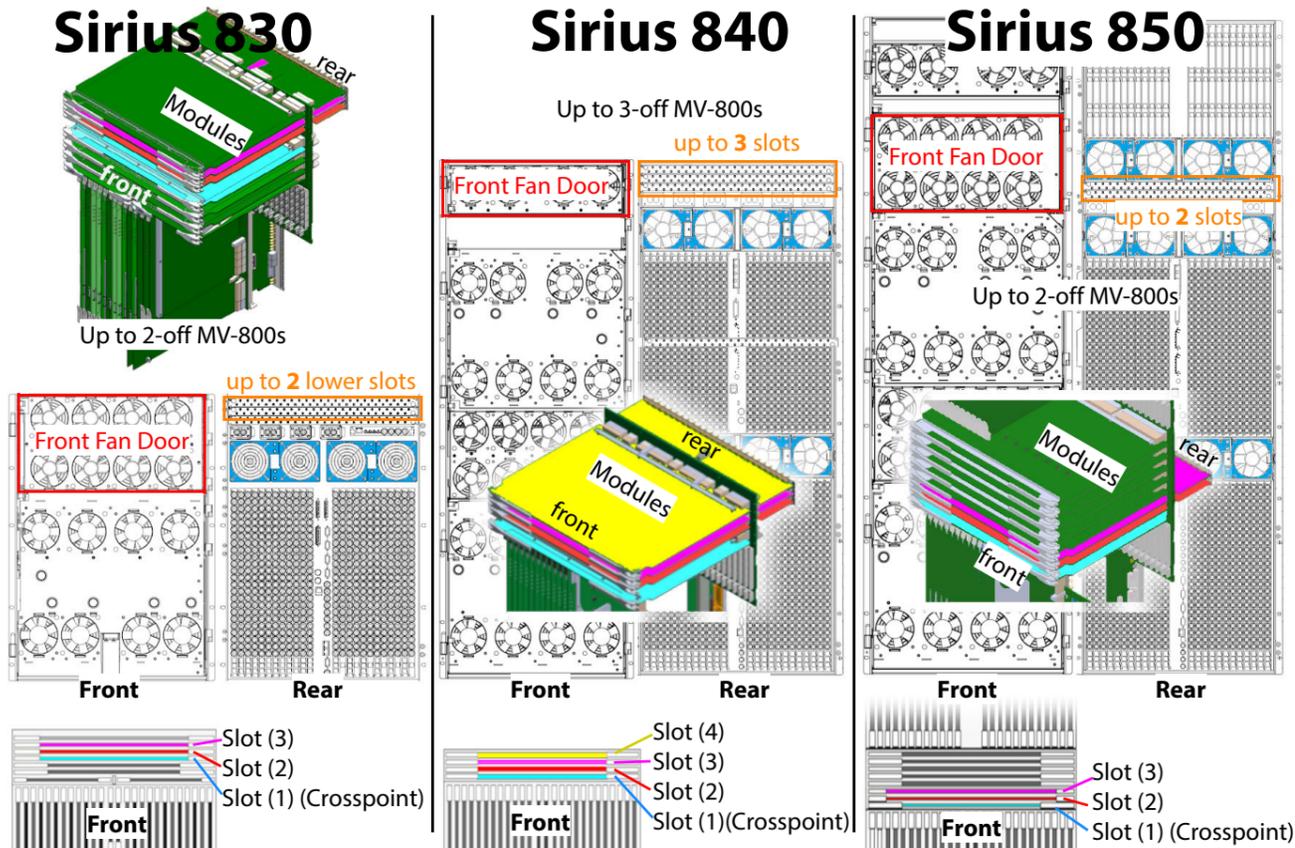
1) Fitting an MV-800 into a Sirius 800 Router

Router Power Supplies: Sirius 800 routers have powerful power supplies. In most cases, these are sufficient for powering MV-800(s). Grass Valley recommends checking your router power supply configuration with Grass Valley support before fitting MV-800(s) into the router. (For contact details, see <https://www.grassvalley.com/contact/support/>)

Fitting: Fitting instructions vary slightly, depending on Sirius 800 router model. MV-800 modules may be hot-plugged.

Note 1: MV-800 modules operate at a slightly reduced temperature range (5°C to 30°C ambient) compared to the router frame.

Note 2: An MV-800 comprises: a front module (5934) and a rear panel (1312).



Fitting instructions: (These instructions cover fitting one or more MV-800s.)

1. If SFP modules are supplied separately, fit them to the rear panel (1312) module(s).
2. If the front module in router Slot (1) is NOT a 5902 MV Crosspoint module, then remove it.

For each MV-800 being fitted to the router frame:

3. Remove a rear module, starting from rear Slot (2), then Slot (3), etc. as necessary.
4. Remove a front module, starting with front Slot(2), then Slot (3), etc. as necessary.

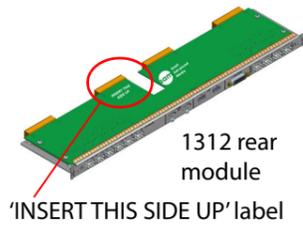
The relevant slots are now empty, ready for fitting the new modules.

5. Fit all rear panel (1312) module(s) into emptied rear slots, starting with rear Slot (2), then Slot (3) etc. **Note:** the 'INSERT THIS SIDE UP' label.
6. Fit a 5902 MV Crosspoint module into front Slot (1), if a 5902 MV Crosspoint module is not already fitted.
7. Fit all MV-800 front (5934) module(s) into the emptied front slots, starting with front Slot (2), then Slot (3) etc.

The MV-800(s) are now fitted into Sirius router slots, see Table 1.

Table 1 Fitted Multiviewer Modules

Front Slot	Rear Slot	Comment
Front (4) = (5934)	Rear (4)= (1312)	Third MV-800 in Sirius 840 only.
Front (3) = (5934)	Rear (3)= (1312)	Second MV-800, if fitted.
Front (2) = 5934	Rear (2)= 1312	MV-800 module.
Front (1) = 5902	N/A	Multiviewer Crosspoint module

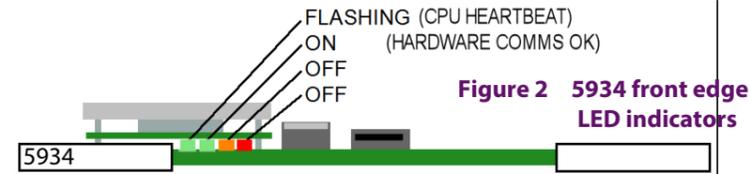


2) Initial Configuration for each MV-800

When fitted, each MV-800 front module (5934) begins to boot up for 2 to 3 minutes and a splash screen is shown. See **Figure 1**.

After booting, for each MV-800 being configured in turn:

1. Check the LED status of each 5934 front module, see **Figure 2**.



2. Connect MV-800 monitor display and network rear connections as shown in **Figure 3**.

BLUE= Licensed, 1080p, SFP fitted; **GREEN**= 720p, licensed, SFP fitted; **RED**= licensed but no SFP fitted; **OFF**= Unlicensed output.



Connect to monitor displays

1G1 network interface, RJ45

3. Start GV **RollCall Control Panel** application (v4.16.11 or later) on the laptop PC. Click the **Build Network** icon.
4. Enter MV-800 **1G1** default IP address (10.54.31.221, 10.54.31.226, or 10.54.31.231 depending on router slot). RollCall connects to MV-800.

Note: To find out 1G1 IP address: Click **System Reset** (in **System-Setup** screen). Click **Confirm**. Watch a MV-800 monitor display while the MV-800 reboots; 1G1 IP address is shown in the splash screen.

5. Navigate to the RollCall MV-800 Multiviewer **System-Setup** screen.

RollCall **System-Setup** screen:

6. For the 1G1 interface, set up **Network Settings** relevant for your house network (IP address, Subnet mask, Default gateway address, DHCP status).
7. Repeat for other network interface (1G2).
8. Set up **Router Controller Settings** for the controller(s) within the router (IP address and IP port).
9. In **RollCall Settings**, set up **Unit** number (default = 01) and **Domain ID** (default = 100) for the MV-800.

Note: Unit number must be unique for each MV-800. Typically, **Domain ID** is set to be same for each MV-800.

Restart:

10. Click on **System Reset** (in the **System-Setup** screen) and then click **Confirm** to perform a **System Reset** of the MV-800. While the MV-800 reboots, a splash screen shows the MV-800 module IP address and other details.

11. Disconnect the MV-800's 1G1 port from the laptop PC and connect the MV-800 to the house network.

Initial configuration for one MV-800 is done.

12. Repeat from step 1 for each MV-800.

3) Seeing Video through a Multiviewer

1. Ensure the Sirius S800's **Router Controller** (module 246x) **software version** is 3.17.4 or later.
2. Modify the **Router Configuration** to add the new modules fitted (Module configuration and Matrix Output ports).
3. Each multiviewer video input comes from a router input via the 5902 Multiviewer Crosspoint module; each is mapped as a router destination, see Table 2. Route an input to a multiviewer destination.

Table 2 Sirius 800 Mapped Router Destinations for 48-off MV-800 Inputs

	Sirius 830		Sirius 840		Sirius 850		Sirius 850 Dual Frame	
	[Module address]	Destination Number	[Module address]	Destination Number	[Module address]	Destination Number	[Module address]	Destination Number
Slot (4)	[248]	Not used for MV-800	[248]	1249-1292 *	No third MV slot in Sirius 850			
Slot (3)	[247]	1201-1248	[247]	1201-1248	[246] **	1153-1200	[246] **, [249]	1153-1200, 1293-1340
Slot (2)	[246]	1153-1200	[246]	1153-1200	[247] **	1225-1272	[247] **, [250]	1225-1272, 1365-1412
Slot (1)	[245]	Note 1	[245]	Note 1	[245]	Note 1	[245], [248]	Note 1

Note 1: Must be a 5902 MV Crosspoint module

* Reduced Dest. number range in Sirius 840 upper slot.

** Different slot numbering in Sirius 850.