#### 6) Default Video Wall (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 28	26	27	HH:MM:SS OUTPUT 3	37 40	38	39 1	HH:MM:SS OUTPUT 4	HH:MM:SS Output number
7	-	<b>.</b>	8	19	'		20	31	-		32	43			44-	Multiviewer
9	10	11	12	21	22	23	24	33	34	35	36	45	46	47	48	( <b>1</b> to <b>48</b> total)
Dis	play	Outpu	ıt 1	Dis	play (	Outpu	ıt 2	Dis	play (	Jutpu	ıt 3	Dis	play (	Jutpu	it 4	(1 to 10 total)
Figure 5 Default Video Wall Layout				(Defa	ault m	onito	ring: <b>1</b>	to <b>24</b> r	outer	outpu	ıts; <b>25</b>	to 48, router inputs.)				

### 7) Edit Video Wall Layout and Configure Alarms

See the Grass Valley web site for GV Orbit and MV-831 user manuals. Perform the following steps to check basic functionality for the video wall, setting an alarm, and GV Orbit network connection:

#### View MV-831 Settings:

- 1. Run GV Orbit Client (v4.0 or later) on a PC.
- 2. Click RollCall Control Screen and enter the new MV-831's IP address. Click OK. The MV-831 RollCall control
  - screens are opened in a tab.
- 3. On the System Setup screen, take a note of the MV-831's 1G1 Interface IP address and RollCall Settings Domain ID.
- 4. Close the tab.

#### Pull Default Layout from New MV-831:

- 5. Click **New Project** and select "Connected Multiviewer Project".
- 6. Browse *into* a new and empty PC folder, where project data will be stored. Click Choose. Click Next.
- A list of devices available to GV Orbit is shown.
- 7. Select the MV-831 from the displayed list. Click OK. A login screen is shown.
- 8. Enter username and password of the project (default = admin, admin). Click Login.

The project data is pulled from the device and a Project Home screen is shown.

#### **GV Orbit Project** Screen:

9. Click the Walls icon and select a wall item in the drop-down list (e.g. Wall1). The wall is shown in **Run** mode.

ţ. 10. Click the to enter Design mode. The icon turns blue and the Wall Editor

screen is shown.





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#### 11. Click on a video wall tile, to select it. Tile Properties are shown on the right-hand side.

Make a Visible Change to the Wall:

- 12. Change property **Preferences > Type** to **Analogue Clock**. The selected tile changes to a round clock face.
- 13. Click Project > Save File in the main menu to save this change.

#### Enable 'Video Input Lost' Alarm:

- 14. Click **Multiviewer > Input Alarms** in the main menu. A dialog is shown with tabs. On the:
  - Input Tab Set Selected Input to Input 1.
  - Alarm Tab Scroll down Select Alarm box and select Video Input Lost. Select Alarm Enable.
- 15. Click OK. Click Project > Save File.

multiviewer inputs.

#### Push Modified Project to the MV-831:

16. Click **Project > Push**.

The MV-831 adopts new wall layout: An analogue clock is shown

#### Provoking a 'Video Input Lost' Alarm Warning:

18. Disconnect signal going to 48-input multiviewer Input 25.

wall tile (tile 25).

Alarms may also be seen in the Network window and Alarm List window:

- 19. Locate and expand the **Network** window's MV-831 item.
- 20. Right-click on the red Input 25 item and select Alarm List in drop-down menu.

An Alarm List summary window shows the 48-input multiviewer's Input 25 status.



# MV-831

**Integrated Multiviewer** 

## **Quick Setup Guide**



Thank you for purchasing a new MV-831 Integrated Multiviewer module. This Quick Setup Guide will help you get the module running as quickly as possible.

An MV-831 module combines a router video input and output module with a 48-input multiviewer. One or more MV-831 modules fit into a Sirius 830 router, each replacing a Sirius 830 input module and adjacent output module.

## Upon Receipt of your MV-831 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-831 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-831 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-831 User Manual can be downloaded from https://www.grassvalley.com/products/mv-831/

#### Safety Information:

Caution: MV-831 Multiviewer products should only be serviced by gualified service personnel.

**Caution:** Take anti-static precautions when handling MV-831 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.

www.grassvalley.com

• Input Tab - Click Copy All.

Video Input Lost alarm is enabled on all MV-831's 48-input

- 17. Ensure the project name is selected and click **OK**.

i.e. at the MV-831's Router Video Input 1 connector.

Video loss is detected at the 48-input multiviewer input. A slow-flashing, red rectangular border appears around the corresponding video













- **Warning:** The MV-831 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.

Router Power Supplies: Sirius 830 routers have powerful power supplies. In most cases, these are sufficient for powering MV-831(s). Grass Valley recommends checking your router power supply configuration with Grass Valley support before fitting MV-831(s) into the router. (For contact details, see https://www.grassvalley.com/contact/support/)

MV-831: This is a double-width Sirius 830 module, comprising double-width Rear & Front modules. See Figure 1.





5) Router Configuration Module Type - Input slot MV830Input Module Type - Output slot MV830Output Both of the Sirius 830 router slots used by an MV-831 must be set up in the Input and Output Ports MV830 router's configuration. See items shown in **Table 2**. Logical Sources VideoSource **Multiviewer Monitoring Mode:** Logical Destinations VideoDest By default, all MV-831 router o/ps and i/ps are monitored by the MV-831's **Router Frame Number** 14 48-input multiviewer (1 to 48 = O/ps 1 to 24 and I/ps 1 to 24 respectively). EmbeddedTimecodeEnable True (Monitoring mode is set with router slot configuration items Redundant Table 2 **Router Configuration Items** Crosspoint Enable and Main Output Follow, both enabled by default.

c				
LED	ОК	Fault		
АСТ	Flash	-		
ERR	Off	On, error		
WRN	Off	On, warning		
ОК	On	Flash, comms fault		
LOCAL CMD OK	Flash, On or Off	-		
LOCAL CMD ERR	Off	Flash, message error		
REMOTE CMD OK	Flash, On or Off	-		
REMOTE CMD ERR	Off	Flash, message error		

## 4) Network Configuration

- Start Grass Valley RollCall Control Panel (v4.17.1 or later) on a laptop PC. Click the Build Network icon.
- Enter the MV-831 Ethernet port 1 (1G1) default IP address, 2. 10.54.31.221.

RollCall Control Panel connects to the MV-831 and the MV-831's RollCall Control Screen is shown.

- 3. Navigate to the System-Setup screen.
- 4 Set up Network Settings relevant to your house network (IP address, Subnet mask, etc).
- In **RollCall Settings**, set up **Unit** number (default = 01) and 5. **Domain ID** (default = 100) for the MV-831.

**Note:** Unit number must be unique for each unit. Typically, 'Domain ID' is the same for each unit.

Restart MV-831:

6. In the System-Setup screen:, click System Reset; then click Confirm. The MV-831 boots up and a splash screen shows the unit's IP address and other details (see Figure 3).

After MV-831 has restarted, initial network configuration is complete.

7. Disconnect MV-831 Ethernet port 1 from laptop PC. And connect the port to the house network.

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