



# MV-8 Series Router Integrated Multiviewers

## Card Options for Sirius 800 Routers

The MV-8 series includes the MV-801, MV-831, MV-841 and MV-851 card options for the Sirius 800 series of enterprise-grade routers. These integrated multiviewers benefit from world-class image processing and scaling that provides an unmatched feature set and unique independent output routing facility, as well as input source streaming and unlimited output expansion capability with the license-enabled MV-8xx-H264 option.

### The benefits of integrated multiviewers include:

- Flexible multiviewer routing configurations
- No loss of router inputs or outputs
- No additional space required
- No signal cabling, simplified installation
- Reduced power consumption and cooling requirements

### Applications

The MV-8 Series integrated multiviewers are ideal for use in any application that benefits from a single or multiple displays:

- Studio galleries
- OB trucks
- Playout control rooms
- Multichannel playout
- Post-production suites
- Signal lines monitoring areas

### Architecture

Extend and expand monitoring with additional MV-8xx-H264 license-enabled option, independent from the primary multiviewer outputs.

- MV-801/831/841/851 high-resolution low-latency primary monitoring application
- MV-8xx-H264 secondary monitoring confidence streaming

### MV Cluster Manager Service

Ideal for large multiviewer installations, MV Cluster Manager allows operators to group all relevant multiviewers in clusters and treat them as a single multiviewer.

For operators, this speeds up configuration of layouts and displays for their walls. Time-critical changes (for example

before live events and shows) are simplified for on-time production delivery. Layouts and displays can be saved and recalled for the next time a show or event is in that studio or arena.

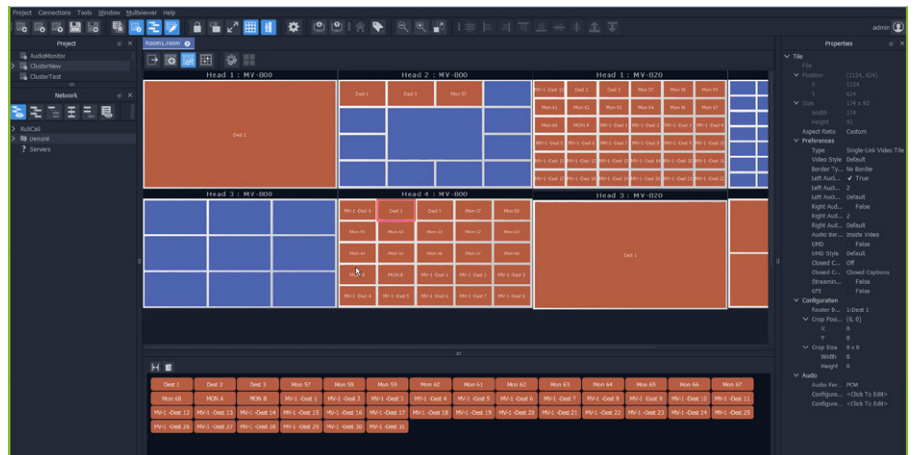
### Multichannel Monitoring

The MV-8 series provides high-quality images even when used in advanced multichannel displays. No compromise on quality provides the highest quality picture output for today's broadcast environment.

- Multichannel display with graphical background and channel logos for clear identification
- Mix on-air, program, preset and key previews
- Full audio metering
- Automation playlist display
- On screen clock with regional time offsets

### Advanced Monitoring Capability

With the development of advanced technology within the MV-8 Series integrated multiviewers, we can offer some unique, powerful features including integrated control and monitoring. (See "Control Integration" on page 2.)



**KEY FEATURES**

**Live Production**

- Multiple quad splits plus multitile screen layouts (12x HD to 3x 4K UHD outputs)
- UMD and tallies from routing, switchers and third-party controllers
- Integration with third-party tally systems
- Dynamic and static UMDs
- Clock/timers

**Transmission**

- Multichannel monitoring and exception alarming for early detection of errors
- With the Sirius 800 Multiviewer and Sirius 800 Advanced Hybrid Processing (AHP), a common operator control interface for AHP and the multiviewer allows an operator to rearrange or adjust audio tracks

**Playout**

- Multichannel monitoring of video and audio
- Closed caption and subtitle status
- Configurable alarms and alerts on failure
- Customize display by adding channel logos, labels, clocks (with configurable offsets)
- Display automation playlists, monitor opt-out feeds, etc.

**Desktop Model**

**MV-8xx-H264 Streaming**

A unique addition to the capability of all MV-8 series multiviewers is the MV-8xx-H264 option. This feature utilizes the input streaming capability of the units by allowing the expansion of your system with independent multiviewer heads. Each desktop client can create an independent multiviewer layout using the SD H.264 streams available from an MV-8 Series multiviewer in your system.

**Router Integrated Models**

**MV-801**

Uses dedicated MV slots in the Sirius 830/840/850 frames. Ideal for lower-density applications with a maximum of two or three modules per routing frame. Two modules maximum in Sirius 830/Sirius 850 frames. Three modules maximum in Sirius 840 frames.

**MV-851/841**

Router integrated Sirius 840/850 frames only. Requires two output slots per module. Supports 48 router outputs in addition to multiviewer functionality. Maximum of 12 modules per frame. Ideal for high-density monitoring applications, providing monitoring for up to 576 sources over 144 multiviewer heads.

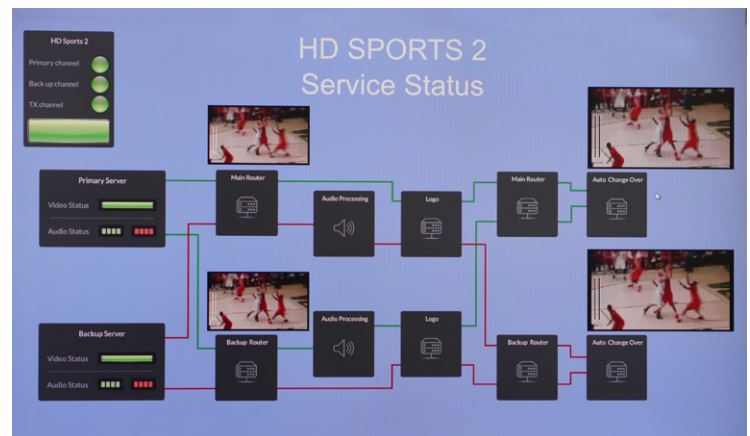
**MV-831**

Router integrated Sirius 830 frames only. Requires one input and one output slot per module. Supports 24 router inputs and 24 router outputs in addition

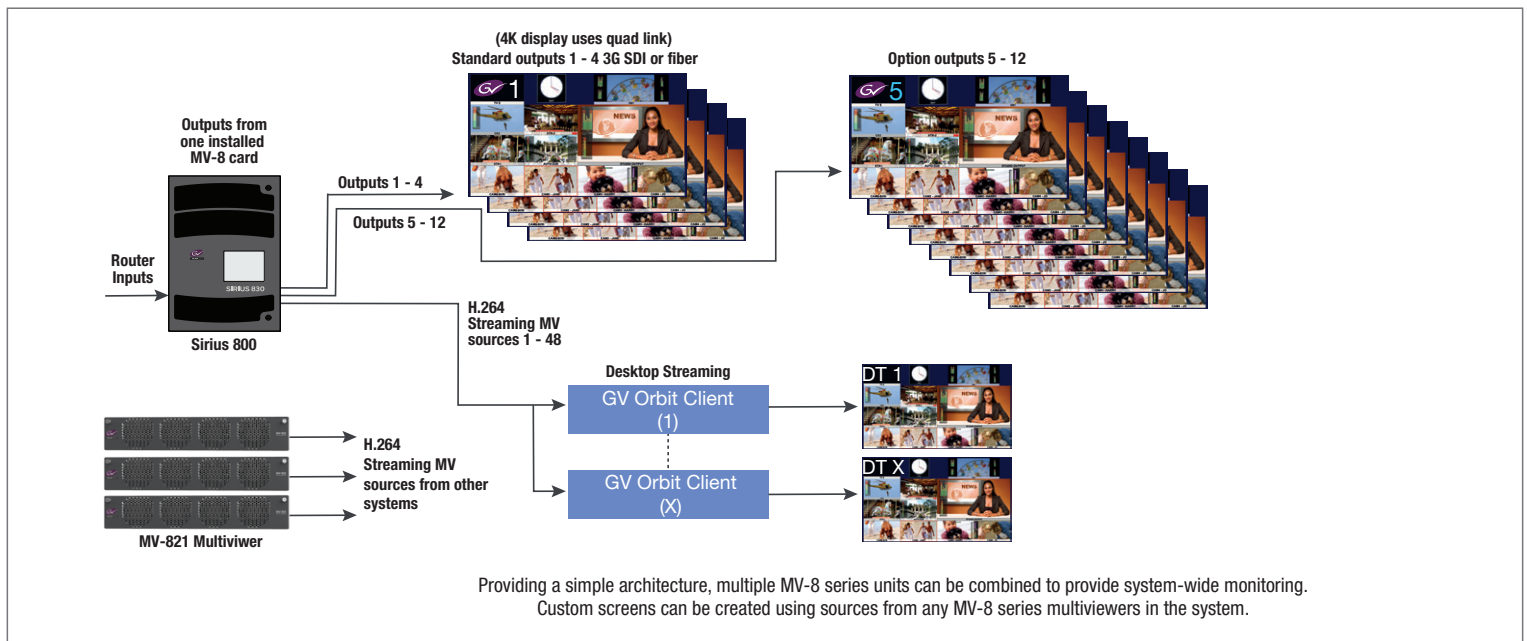
to multiviewer functionality. Maximum of 12 modules per frame. Ideal for high-density monitoring applications, providing monitoring for up to 288 sources and 288 destinations over 144 multiviewer heads.

**Control Integration**

Grass Valley multiviewers integrate with many Grass Valley routing and switcher products. This allows tallies from router and switcher controllers simultaneously, meaning that all routing hangs on either system are correctly indicated. If tielines are used, the original source name is displayed, not just the source on the local router. Custom alarms can be triggered on screen, with configured text and text box colors, driven from RollCall or other third-party applications, providing system level alarms on the multiviewer outputs.



**Example Architecture**



# MV-801

## Integrated Multiviewer and Optional Desktop Software

A fully featured integrated multiviewer for the Sirius 800 router series with optional H.264 streaming.

The MV-801 multiviewer benefits from world-class image processing and scaling that provides an unmatched feature set and unique independent output routing facility, as well as input H.264 source streaming and unlimited output expansion capability.

### Benefits

- Flexible multiviewer routing configurations
- No loss of router inputs or outputs
- No additional space required
- No additional multiviewer cabling
- Reduced power consumption and cooling requirements

### Applications

The MV-801 integrated multiviewer is ideal for use in any application that benefits from a single or multiple display(s):

- Studio galleries
- OB trucks
- Playout control rooms
- Multichannel playout
- Post-production suites
- Signal lines monitoring areas

### Architecture

Extend and expand monitoring with additional MV-801-H264 license-enabled option, independent from the primary multiviewer outputs.

- MV-801 high-resolution low-latency primary monitoring application
- MV-801-H264 secondary monitoring confidence streaming
- Up to 3 modules per routing frame

See the ordering section for more details.

### Advanced Monitoring Capability

With the development of advanced technology within the MV-801 integrated multiviewer, we can offer some unique, powerful features including integrated control and monitoring. (See “Control Integration” on page 2).

### Multichannel Monitoring

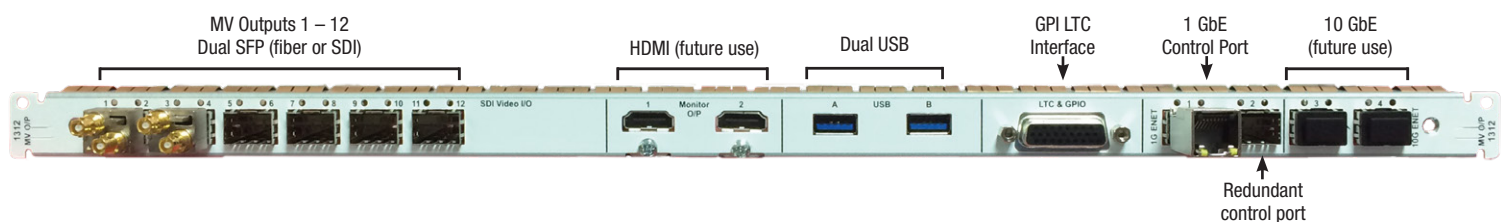
The MV-801 provides high-quality images even when used in advanced multichannel displays. No compromise on quality provides the highest quality picture output for today’s broadcast environment.

- Multichannel display with graphical background and channel logos for clear identification
- Mix on-air, program, preset and key previews
- Full audio metering
- Automation playlist display
- On-screen clock with regional time offsets

## KEY FEATURES

- Superior density – 48 inputs to 12 outputs
  - 4 standard outputs
  - 5-12 optional license
- World-class image processing and scaling
- Up to 32 channels of audio metering per source
- Internal and external UMD and tally support
- Clock and timers
- Unique H.264 input source streaming
- Unlimited desktop multiviewer output expansion capability
- Integrated control and monitoring of system wide external devices as well as internal video and audio sources
- Full audio, video and metadata alarm support
- Multiple display wall control
- SDI and fiber output options
- Mix HD, 3G & 4K UHD sources on HD, 3G and 4K UHD displays simultaneously
- AFD/WSS auto support
- Full RollCall integration
- For higher density applications, additional MV capability can be added using the MV-851 populated in the output slots of the routing frame for Sirius 850 and Sirius 840, or MV-831 populated in the output slots of the routing frame for Sirius 830

## MV-801 Connectivity



## SPECIFICATIONS

### Inputs – 48 (from router)

SD 525/59.94 & 625/50  
 HD 720p (50, 59.94, 60 frames)  
 HD 1080i (25, 29.97 & 30 frames)  
 3G 1080p (50, 59.94 & 60 frames)  
 4K UHD quad link (uses 4 inputs per 4K UHD source)  
 IP support via Sirius 800 IP router inputs

### Outputs

4 video outputs (coax or fiber) (upgradable to 12):  
 4K UHD, 3G 1080p (50, 59.94 & 60 frames, locked to reference)  
 1 input field/frame + 1-2 progressive output  
 Quad link 4K UHD output support  
 48 inputs encoded as H.264 IP output streams

### On-screen Monitoring

**Fully flexible layouts:** any object can be any size, in any position (48 scalers any scaled source can be duplicated in any position on any output):

- Up to 16 audio channels per video signal
- Bars outside or overlaid on picture
- Audio meter scales on/off

Adjustable layering and transparency of objects over video or other objects or background video

Display up to 48 tiles on a single screen, plus additional tiles for clocks and tallies

- Programmable color & alarm thresholds
- WSS/AFD flags to auto adjust aspect ratio of images within a video tile audio:
  - Metadata & control
- Metering of AES embedded audio, VU, extended VU, DIN, BBC, Nordic scales including Dolby E:
  - Closed caption & subtitle detection
  - UMD source names via:
    - Grass Valley general remote protocol
    - SW-P-08 over IP
    - TSL v3.1 or v5 protocol over IP

### Alarm Notifications

Border alarm  
 In-picture message  
 SNMP, via RollCall  
 Manufacturers protocol  
 Master GPO  
 Video alarms  
 Video black  
 Video frozen  
 Loss of video  
 Loss of CC  
 Loss of VITC data

### Audio Alarms

Audio over level  
 Audio under level/loss  
 Loss of embedded channels  
 Dolby E

### Status Indicators

Input standard  
 CC standard  
 Source ID  
 V-Chip status

### Additional Alarms

Test boxes

### Alarm Control

Configurable alarms threshold and trigger delays:

Alarm acknowledge from hard and soft panels via RollCall interface

Alarm acknowledge/clear/previous fault indication (border color or tally alarm box):

Alarm auto-clear after preset delay

## ORDERING

### Ordered with a Router

When ordered as part of a Sirius 800 system, the part number for the system will include the necessary MV-801 parts.

### Ordered as Individual Parts

When ordered as separate parts, the order codes shown are needed to build a complete system.

### Order Quantities

Maximum modules per router frame:

- Sirius 830: 2 modules
- Sirius 840: 3 modules
- Sirius 850: 2 modules

### 5902

#### Sirius 800 series multiviewer crosspoint

Only one required per Sirius routing frame

### MV-801

#### MV-801 integrated multiviewer module, including 4 output license

Additional licenses required to enable outputs 5-12. Maximum of 2 cards per frame

### MV-800-RP

#### MV800 Multiviewer rear panel

With SFP output cages which will accept coaxial (HD-BNC) or fiber SFP modules. SFP ordered separately

### MV-801-OP56

#### License upgrade to enable outputs 5 & 6

SFP ordered separately

### MV-801-OP78

#### License upgrade to enable outputs 7 & 8

SFP ordered separately

### MV-801-OP910

#### License upgrade to enable outputs 9 & 10

SFP ordered separately

### MV-801-OP112

#### License upgrade to enable outputs 11 & 12

SFP ordered separately

### CC-TTH-3G-N

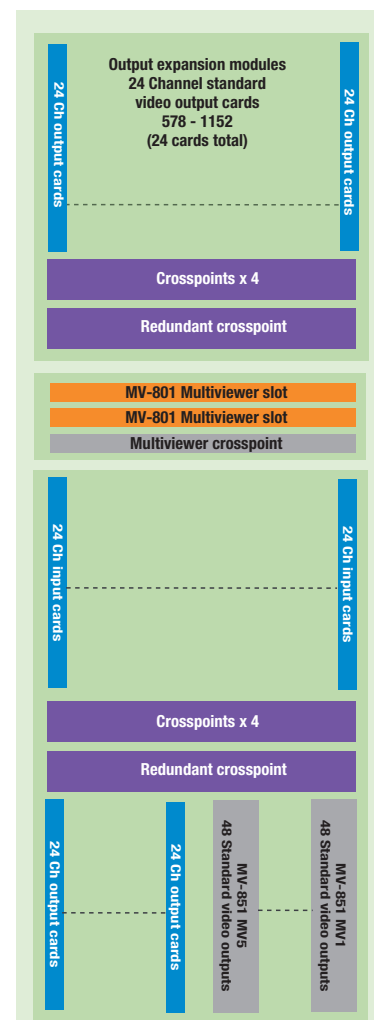
#### Dual output HD-BNC coaxial SFP module

### ST31ST31-3

#### Dual output fiber SFP module (1310 nm single mode LC/PC)

### MV-801-H264

#### License-enabled option for H.264 streaming of multiviewer inputs



Sirius 850 frame



# MV-851 and MV-841

## Integrated Multiviewer and Optional Desktop Software

Fully featured integrated multiviewers for the Sirius 850 and Sirius 840 routers with optional H.264 streaming. The MV-851 and MV-841 populate two output slots in the routing frame, and offer 48 router outputs, maintaining the routing capability of the slots and offering true destination monitoring.

The MV-851 and MV-841 multiviewers benefit from world-class image processing and scaling that provides an unmatched feature set and unique independent output routing facility, as well as input H.264 source streaming and unlimited output expansion capability.

### Benefits

- Flexible multiviewer routing configurations
- No loss of router inputs or outputs
- No additional space required
- No signal cabling, simplified installation
- Reduced power consumption and cooling requirements

### Applications

The MV-851 and MV-841 integrated multiviewers are ideal for use in any application that benefits from a single or multiple display(s):

- Studio galleries
- OB trucks
- Playout control rooms
- Multichannel playout
- Post-production suites
- Signal lines monitoring areas

### Architecture

Extend and expand monitoring with additional MV-851/841-H264 license-enabled option, independent from the primary multiviewer outputs.

- MV-851 and MV-841 high-resolution low-latency primary monitoring application
- MV-851/841-H264 secondary monitoring confidence streaming
- Up to 12 modules per routing frame

See ordering section for more details.

### Advanced Monitoring Capability

With the development of advanced technology within the MV-851 and MV-841 integrated multiviewer, we can offer some unique, powerful features including integrated control and monitoring. (See “Control Integration” on page 2).

### Multichannel Monitoring

The MV-851 and MV-841 provide high-quality images even when used in advanced multichannel display. No compromise on quality provides the highest quality picture output for today’s broadcast environment.

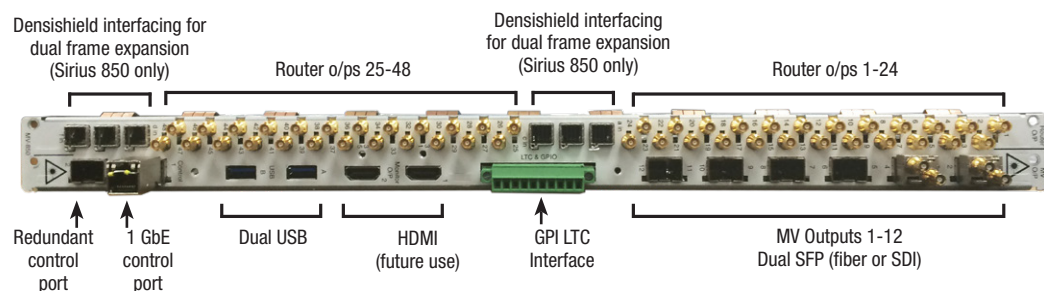
- Multichannel display with graphical background and channel logos for clear identification
- Mix on-air, program, preset and key previews
- Full audio metering
- Automation playlist display
- On screen clock with regional time offsets

## KEY FEATURES

- Superior density 48 multiviewer inputs to 12 multiviewer outputs
  - 4 standard outputs
  - 5-12 optional license
- 48 router outputs per card (the MV-851 and MV-841 uses two routing output slots while maintaining 48 routing outputs)
- World-class image processing and scaling
- Up to 32 channels of audio metering per source
- Internal and external UMD and tally support
- Clock and timers
- Unique H.264 input source streaming
- Unlimited desktop multiviewer output expansion capability
- Integrated control and monitoring of system wide external devices as well as internal video and audio sources
- Full audio, video and metadata alarm support
- Multiple display wall control
- SDI and fiber output options
- Mix HD, 3G & 4K UHD sources on HD, 3G and 4K UHD displays simultaneously
- AFD/WSS auto support
- Full RollCall integration
- Maximum 12 MV-851 and MV-841 modules per Sirius 850 or Sirius 840 frame
- Additional MV capability can be added using the MV-801 populated in the dedicated multiviewer slots of the frame

### MV-850-RP Connectivity

For use with MV-850 and MV-851



**SPECIFICATIONS**

**Inputs – 48 (from router)**

- SD 525/59.94 & 625/50
- HD 720p (50, 59.94, 60 frames)
- HD 1080i (25, 29.97 & 30 frames)
- 3G 1080p (50, 59.94 & 60 frames)
- 4K UHD quad link (uses 4 inputs per 4K source)
- IP support via Sirius 800 IP router inputs

**Outputs**

- 4 video outputs (coax or fiber) (upgradable to 12)
  - 4K UHD, 3G 1080p (50, 59.94 & 60 frames, locked to reference)
  - Video delay – 3 fields interlaced, 3 frames progressive
- Quad link 4K UHD output support
- 48 inputs encoded as H.264 IP output streams
- 48 router outputs providing true destination monitoring. Multiviewer inputs mapped 1:1 to router outputs

**On-screen Monitoring**

**Fully flexible layouts:** any object can be any size, in any position (48 scalars any scaled source can be duplicated in any position on any output)

- Up to 32 audio channels per video signal
- Bars outside or overlaid on picture
- Audio meter scales on/off

- Adjustable layering and transparency of objects over video or other objects or background video
- Display up to 48 tiles on a single screen, plus additional tiles for clocks and tallies:
  - Programmable color & alarm thresholds
- WSS/AFD flags to auto adjust aspect ratio of images within a video tile audio:
  - Metadata & control
- Metering of AES embedded audio, VU, extended VU, DIN, BBC, Nordic scales including Dolby E:
  - Closed Caption & Subtitle detection
  - UMD source names via:
    - Grass Valley general remote protocol
    - SW-P-08 over IP
    - TSL v3.1 or v5 protocol over IP

**Alarm Notifications**

- Border alarm
- In-picture message
- SNMP, via RollCall
- Manufacturers protocol
- Master GPO
- Video alarms
- Video black
- Video frozen

- Loss of video
- Loss of CC
- Loss of VITC data

**Audio Alarms**

- Audio over level
- Audio under level/loss
- Loss of embedded channels
- Dolby E

**Status Indicators**

- Input standard
- CC standard
- Source ID
- V-Chip status

**Additional Alarms**

- Test boxes

**Alarm Control**

- Configurable alarms threshold and trigger delays:
  - Alarm acknowledge from hard and soft panels via RollCall interface
- Alarm acknowledge/clear/previous fault indication (border color or tally alarm box):
  - Alarm auto-clear after preset delay

**ORDERING**

**Ordered with a Router**

When ordered as part of a Sirius 800 system, the part number for the system will include the necessary MV-8 parts

**Ordered as Individual Parts**

When ordered as separate parts, the order codes shown are needed to build a complete system

**Order Quantities**

- Maximum modules per router frame:
  - Sirius 840: 12 modules
  - Sirius 850: 12 modules

**MV-851**

**MV-851 Integrated Multiviewer Module, including 4 output license**

Additional licenses required to enable outputs 5-12. Maximum of 12 cards per frame

**MV-850-RP**

**MV850 Multiviewer Rear Panel**

With SFP output cages which will accept coaxial (HD-BNC) or fiber SFP modules. SFP ordered separately. Module includes 48 HD-BNC router outputs. MV-850-RP is for use with MV-850 and MV-851

**MV-841**

**MV-841 Integrated Multiviewer Module, including 4 output license**

Additional licenses required to enable outputs 5-12. Maximum of 12 cards per frame

**MV-840-RP**

**MV840 Multiviewer rear panel**

With SFP output cages which will accept coaxial (HD-BNC) or fiber SFP modules. SFP ordered separately. Module includes 48 HD-BNC router outputs. MV-840-RP is for use with MV-840 and MV-841

**MV-851-OP56**

**License upgrade to enable outputs 5 & 6**  
SFP ordered separately

**MV-851-OP78**

**License upgrade to enable outputs 7 & 8**  
SFP ordered separately

**MV-851-OP910**

**License upgrade to enable outputs 9 & 10**  
SFP ordered separately

**MV-851-OP112**

**License upgrade to enable outputs 11 & 12**  
SFP ordered separately

**CC-TTH-3G-N**

**Dual output HD-BNC coaxial SFP module**

**ST31ST31-3**

**Dual output fiber SFP module (1310 nm single mode LC/PC)**

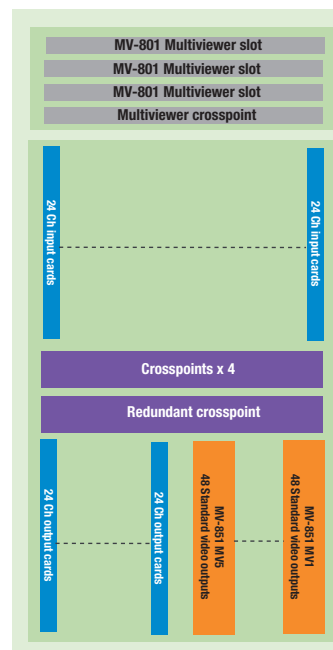
**MV-851-H264**

**License-enabled option for H.264 streaming of multiviewer inputs**

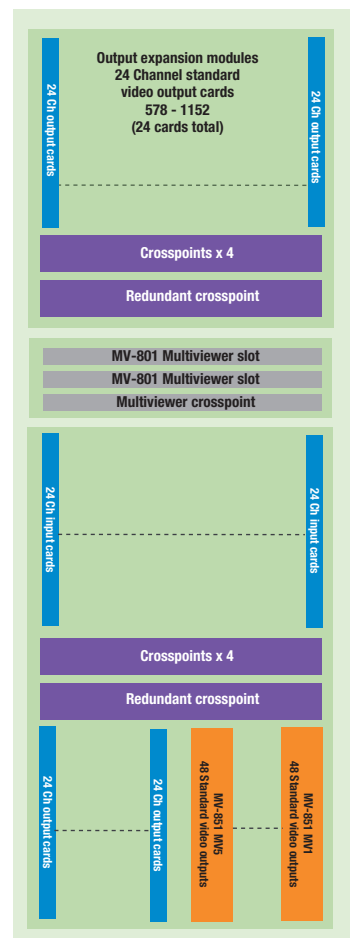
**MV-841-H264**

**License-enabled option for H.264 streaming of multiviewer inputs**

Maximum of 12 modules per Sirius 850 and Sirius 840 frames



Sirius 840 frame



Sirius 850 frame

# MV-831

## Integrated Multiviewer and Optional Desktop Software

The MV-831 multiviewer benefits from world-class image processing and scaling that provides an unmatched feature set and unique independent output routing facility, as well as input H.264 source streaming and unlimited output expansion capability.

### The benefits of an integrated multiviewer include:

- Flexible multiviewer routing configurations
- No loss of router inputs or outputs
- No additional space required
- No additional multiviewer cabling
- Reduced power consumption and cooling requirements

### Applications

The MV-831 integrated multiviewer is ideal for use in any application that benefits from a single or multiple displays:

- Studio galleries
- OB trucks
- Playout control rooms
- Multichannel playout
- Post-production suites
- Signal lines monitoring areas

### Architecture

Extend and expand monitoring with additional MV-831-H264 license-enabled option, independent from the primary multiviewer outputs.

- MV-831 high-resolution low-latency primary monitoring application
- MV-831-H264 secondary monitoring confidence streaming
- Up to 12 modules per routing frame

See ordering section for more details.

### Advanced Monitoring Capability

With the development of advanced technology within the MV-831 integrated multiviewer, we can offer some unique, powerful features including integrated control and monitoring. (See “Control Integration” on page 2.)

### Multichannel Monitoring

The MV-831 provides high-quality images even when used in advanced multichannel display. No compromise on quality provides the highest quality picture output for today’s broadcast environment.

- Multichannel display with graphical background and channel logos for clear identification
- Mix on-air, program, preset and key previews
- Full audio metering
- Automation playlist display
- On screen clock with regional time offsets

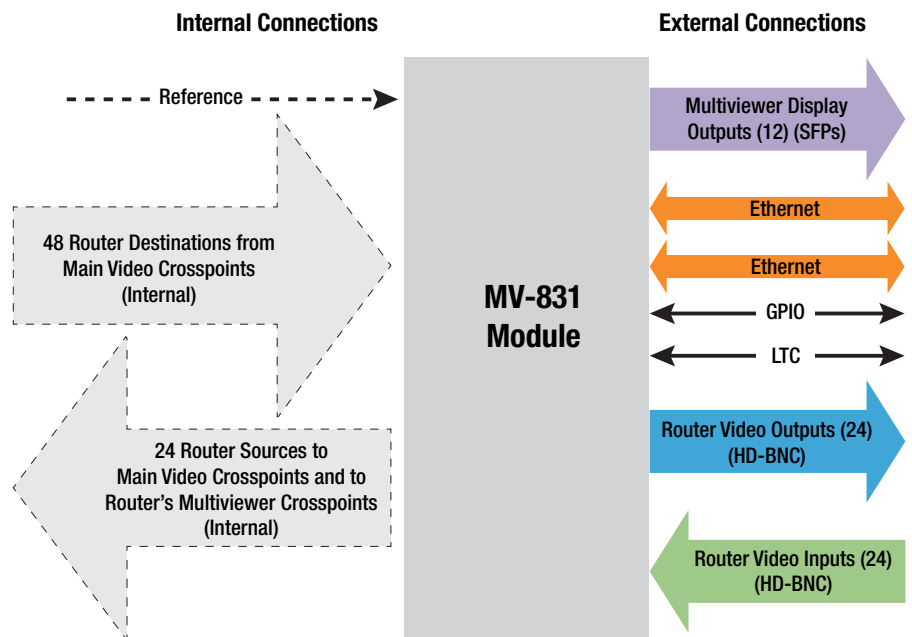
### Modes of Operation

#### Redundant

- 48 inputs to multiviewer comprised of 24 from input and 24 mirroring router outputs

#### Non-redundant

- 48 inputs selected from 24 inputs and 48 crosspoint connections
- In this mode the crosspoint interfaces are driven independently to offer greater flexibility in the multiviewer operation
- Combines true source and destination monitoring in a single unit



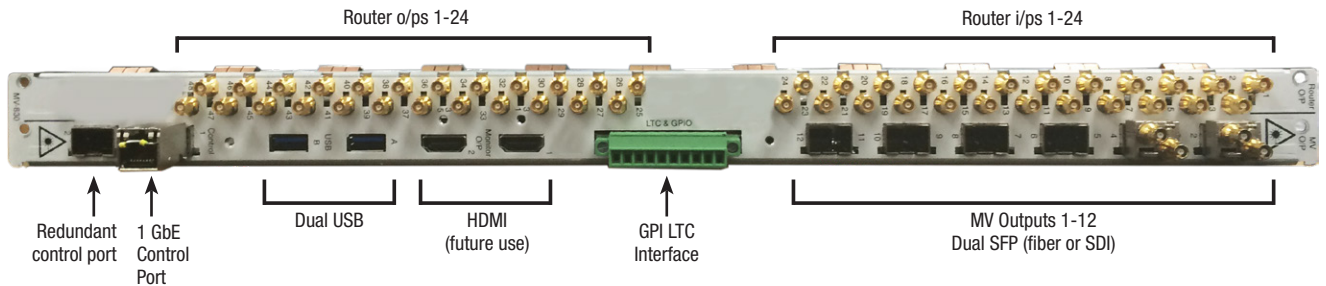
MV-831 Functional Block Diagram

**KEY FEATURES**

- Superior density 48 multiviewer inputs to 12 multiviewer outputs:
  - 4 standard outputs
  - 5-12 optional license
- 24 router inputs and outputs per card – the MV-831 uses two routing slots while maintaining 24 routing inputs and 24 routing outputs
- World-class image processing and scaling
- Up to 32 channels of audio metering per source
- Internal and external UMD and tally support
- Clock and timers
- Unique H.264 input source streaming
- Unlimited desktop multiviewer output expansion capability
- Integrated control and monitoring of system-wide external devices as well as internal video and audio sources
- Full audio, video and metadata alarm support
- Multiple display wall control
- SDI and fiber output options
- Mix HD, 3G & 4K UHD sources on HD, 3G and 4K UHD displays simultaneously
- AFD/WSS auto support
- Full RollCall integration
- Maximum 12 MV-831 modules per Sirius 830
- Additional multiviewer capability can be added using the MV-801 populated in the dedicated multiviewer slots of the frame

**MV-830-RP Connectivity**

For use with MV-830 and MV-831



**SPECIFICATIONS**

**Inputs – 48 (from router)**

- SD 525/59.94 & 625/50
- HD 720p (50, 59.94, 60 frames)
- HD 1080i (25, 29.97 & 30 frames)
- 3G 1080p (50, 59.94 & 60 frames)
- 4K UHD quad link (uses 4 inputs per 4K UHD source)
- IP support via Sirius 800 IP router inputs

**Outputs**

- 4 video outputs (coax or fiber) (upgradeable to 12):
  - 4K UHD, 3G 1080p (50, 59.94 & 60 frames, locked to reference)
  - Video delay – 3 fields interlaced, 3 frames progressive
- Quad link 4K UHD output support
- 48 inputs encoded as H.264 IP output streams
- 24 router inputs and 24 router outputs providing true source and destination monitoring: router outputs mapped 1:1 to multiviewer inputs

**On-screen Monitoring**

- Fully flexible layouts:** any object can be any size, in any position (48 scalers any scaled source can be duplicated in any position on any output)
  - Up to 16 audio channels per video signal
  - Bars outside or overlaid on picture
  - Audio meter scales on/off
- Adjustable layering and transparency of objects over video or other objects or background video

Display up to 48 tiles on a single screen, plus additional tiles for clocks and tallies:

- Programmable color & alarm thresholds
- WSS/AFD flags to auto adjust aspect ratio of images within a video tile audio:
  - Metadata & control
- Metering of AES embedded audio, VU, extended VU, DIN, BBC, Nordic scales including Dolby E:
  - Closed caption & subtitle detection
  - UMD source names via:
    - Grass Valley general remote protocol
    - SW-P-08 over IP
    - TSL v3.1 or v5 protocol over IP

**Alarm Notifications**

- Border alarm
- In-picture message
- SNMP, via RollCall
- Manufacturers protocol
- Master GPO
- Video alarms
- Video black
- Video frozen
- Loss of video
- Loss of CC
- Loss of VITC data

**Audio Alarms**

- Audio over level
- Audio under level/loss
- Loss of embedded channels
- Dolby E

**Status Indicators**

- Input standard
- CC standard
- Source ID
- V-Chip status

**Additional Alarms**

Test boxes

**Alarm Control**

- Configurable alarms threshold and trigger delays:
  - Alarm acknowledge from hard and soft panels via RollCall interface
- Alarm acknowledge/clear/previous fault indication (border color or tally alarm box):
  - Alarm auto-clear after preset delay



**ORDERING**

**Ordered with a Router**

When ordered as part of a Sirius 800 system, the part number for the system will include the necessary MV-8 parts.

**Ordered as Individual Parts**

When ordered as separate parts, the order codes shown are needed to build a complete system.

**Order Quantities**

**Maximum modules per router frame:**

Sirius 830: 12 modules

**MV-831**

**MV-831 Integrated Multiviewer Module, including 4 output license**

Additional licenses required to enable outputs 5-12. Maximum of 12 cards per frame

**MV-830-RP**

**MV-830 Multiviewer Rear Panel**

With SFP output cages which will accept coaxial (HD-BNC) or fiber SFP modules. SFP ordered separately. Module includes 24 router inputs and 24 router outputs HD-BNC

MV-830-RP is for use with MV-830 and MV-831

**MV-831-OP56**

**License upgrade to enable outputs 5 & 6**  
SFP ordered separately

**MV-831-OP78**

**License upgrade to enable outputs 7 & 8**  
SFP ordered separately

**MV-831-OP910**

**License upgrade to enable outputs 9 & 10**  
SFP ordered separately

**MV-831-OP112**

**License upgrade to enable outputs 11 & 12**  
SFP ordered separately

**CC-TTH-3G-N**

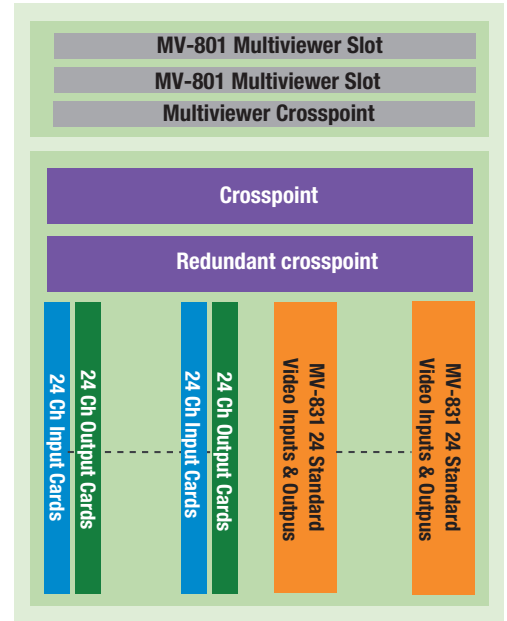
**Dual output HD-BNC coaxial SFP module**

**ST31ST31-3**

**Dual output fiber SFP module (1310 nm single mode LC/PC)**

**MV-831-H264**

**License-enabled option for H.264 streaming of multiviewer inputs**



Sirius 830 frame



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