

#### SIERRA VIDEO

MediaNAV® System Control

## **User's Manual**



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The information contained in this manual is subject to change by Sierra Video

#### **Regulatory Warnings & Safety Information**

The information in the following section provides important warnings and safety guidelines for both the operator and service personnel. Specific warnings and cautions may be found throughout this manual. Please read and follow the important safety precautions noting especially those instructions relating to risk of fire, electrical shock and injury to persons.

Any instructions in this manual that require opening the equipment cover or enclosure are intended for use by qualified service personnel only. To reduce the risk of electrical shock, do not perform any servicing other than what is contained in the operating instructions unless you are qualified.

#### / Warnings

- Heed all warnings on the unit and in the operating instructions.
- Disconnect AC power before installing or removing device or servicing unit.
- Do not use this product in or near water.
- This product is grounded through the grounding conductor of the power cord. To avoid electrical shock, plug the power cord into a properly wired receptacle before connecting inputs or outputs.
- Route power cords and other cables so that they are not likely to be damaged, or create a hazard.
- Dangerous voltages exist at several points in this product. To avoid personal injury, do not touch unsafe connections and components when the power is on.
- Have qualified personnel perform safety checks after any completed service.
- To reduce risk of electrical shock, be certain to plug each power supply cord into a separate branch circuit employing a separate service ground.
- Operate only with covers and enclosure panels in place Do Not operate this product when covers or enclosure panels are removed.
- This is an FCC class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take necessary measures.

#### A Cautions

• Use the proper AC voltage to supply power to the controller frame. When installing equipment, do not attach the power cord to building surfaces.

#### 🗥 Cautions (continued)

- Use only the recommended interconnect cables to connect the controller to other frames.
- Follow static precautions at all times when handling the equipment.
- Power this product only as described in the installation section of this manual.
- Leave the sides of the frame clear for air convection cooling and to allow room for cabling. Slot and openings in the frame are provided for ventilation and should not be blocked.
- Only an authorized Sierra Video technician should service the unit. Any user who makes changes or modifications to the unit without the expressed approval of Sierra Video will void the warranty.
- If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than the room ambient temperature. Therefore, consideration should be given to installing the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature (TMRA).
- Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
- Other connections between peripherals of this equipment may be made with low voltage non-shielded computer data cables.
- Network connections may consist of non-shielded CAT 5 cable.

#### FCC Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at the expense of the user.

The user may find the following publication prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems" (Stock number 004-000-00345-4). Available exclusively from the Superintendent of Documents, Government Printing Office, Washington, DC 20402 (telephone 202 512-1800).

#### Warning

Changes or modifications not expressly approved by the party responsible for compliance to Part 15 of the FCC Rules could void the user's authority to operate the equipment.

#### **Power Supply Cords**

Use only power cord(s) supplied with the unit.

If power cord(s) were not supplied with the unit, select as follows:

For units installed in the USA and Canada: select a flexible, three-conductor power cord that is UL listed and CSA certified, with individual conductor wire size of #18 AWG, and a maximum length of 4.5 meters. The power cord terminations should be NEMA Type 5-15P (three-prong earthing) at one end and IEC appliance inlet coupler at the other end. Any of the following types of power cords are acceptable; SV, SVE, SVO, SVT, SVTO, SVTOO, S, SE, SO, SOO, ST, STO, STOO, SJ, SJE, SJO, SJOO, SJT, SJTOO, SP-3, G, W.

For units installed in all other countries; select only a flexible, three-conductor power cord, approved by the appropriate safety organization of your country. The power cord must be Type HAR (Harmonized), with individual conductor wire size of 0.75 mm<sup>2</sup>. The power cord terminations should be a suitably rated earthing-type plug at one end and IEC appliance inlet coupler at the other end. Both of the power cord terminations must carry the certification label (mark) of the cognizant safety organization of your country.

A non-shielded power cord may be used to connect AC power to every component and peripheral of the system.

Connect an external 16 AWG or larger wire from earth ground to the chassis of the system as designated by the earth ground symbol.

#### North American Power Supply Cords

This equipment is supplied with North American power cords with molded grounded plug (NEMA-15P) at one end and molded grounding connector (IEC 320-C13) at the other end. Conductors are CEE color coded, light blue (neutral), brown (line), and green/yellow (ground). Operation of the equipment at voltages exceeding 130VAC will require power supply cords that comply with NEMA configurations.

#### International Power Supply Cords

If shipped outside North America, this equipment is supplied with molded ground connector (IEC 320-C13) at one end and stripped connectors (50/5mm) at the other end. Connections are CEE color coded, light blue (neutral), brown (line), and green/yellow (ground). Other IEC 320-C13 type power cords can be used if they comply with safety regulations of the country in which they are installed.

#### EMC Regulatory Notices

Federal Communications Commission (FCC) Part 15 Information: This device complies with Part 15 of the FCC standard rules. Operation is subject to the following conditions:

This device may not cause harmful interference

This device must accept any interference received including interference that may cause undesirable operations.

#### **Delivery Damage Inspection**

Carefully inspect the frame and exterior components to be sure that there has been no shipping damage.

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#### Chapter

## Overview

#### MediaNAV® System Control

#### Web Application Server Platforms:

#### Ponderosa Routing Switcher

#### Mediator-EC Routing Switcher Controller

#### Introduction

The Sierra Video MediaNAV® System Control is a central control point for video and audio routing, distribution and monitoring systems available on select Sierra Video controller platforms. These currently include the **Ponderosa** series routing switchers and the **Mediator-EC** routing switcher controller. The control interface is accessible from any PC, Mac, tablet or phone with a web browser.

#### Features

- CONFIGURE with the Intuitive GUI
  - Routing Switchers, Remote Control Panels, GUI consoles
- MANAGE using Simple Tools
  - Routing Switchers: crosspoints, names, power supply status
  - Monitor hardware panels, multi-viewers, routing switchers
- OPERATE Easily with any Web Browser
  - Source, Destination, Level and Preset selections
  - Trigger routing switcher salvos and multi-viewer layout recalls



#### **Advanced System Control Framework**

Video & Audio Routers

Hardware Control Panels

- Hierarchical and modular to manage & control small or large systems; routing switchers, multi-viewers, and other devices
- Designed for today's mobile environments
  - Point-and-click
  - Touch-and-click
  - Remote access
- Browser-based Graphical User Interface
  - No software application to load
  - Supports Windows, MAC, iPad and smart phones
- Intuitive, easy to use and configure GUI
- Allows the switching of multiple routing switchers from a single UI
- Control from hardware control panels or from a web based GUI
- User access control with powerful security layer
- Scalable from small to large systems
- Recall layouts on Sierra View Multi-viewers

# Chapter

## Installation

#### Introduction

Complete installation instructions for the **Ponderosa** routing switcher are found in the **Ponderosa Series Routing Switcher User's Manual**. Please refer to that manual for installation of either the **Ponderosa 6464** or the **Ponderosa 128128** frame.

Installation instructions for the Mediator-EC Routing Switcher Controller frame follow.



#### **Rack Mounting the Mediator-EC Frame**

Carefully inspect the frame to ensure that there has been no shipping damage. Make sure all shipping material is removed from the controller frame.

The controller frame described in this manual can be rack mounted in a standard 19" (RU) EIA rack assembly and includes rack "ears" for the ends of the front of the frames. It does not require spacing above or below the unit for ventilation.

To rack mount the controller frame, simply place the unit's rack ears against the rack rails of the rack, and insert proper rack screws through each of the holes in the rack ears. Always rack mount the controller frame prior to plugging the unit into a power receptacle or attaching any cables.

#### **CAUTION!**

The operating temperature range of this product is 0 to 40°C. Do not exceed the maximum (40°C) or minimum (0°C) operating temperature of the air surrounding the frame.

If installed in a closed or multi-rack assembly, the operating ambient temperature of the rack environment may be greater than the room ambient temperature. Therefore, consideration should be given to installing the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature.

#### **Dimensions & Weight**

Dimensions (W x H x D)

480 x 44 x 288 mm (19" x 1.7" x 11.4")

Net Weight

3.6 kg / 7.92 lb



#### **Connecting Peripherals**



The Ethernet port labeled **LAN 1** defaults to IP address 192.168.1.225. The port labeled **LAN 2** is set for DHCP operation and must get its IP address from a DHCP server.

There are two RS-232 ports available for serial control of up to two routers.

#### **Specifications**

- Ethernet 10/100/1000 Mbps
- Solid state drive.
- RS232
- RS485 for remote aux panels
- Power: AC 100-240v, 50-60Hz
- FCC, CE, UL and ROHS compliance
- Rack mount 1 RU box
- Fanless chassis

#### **AC Power Connection**

The power supply has a universal AC input 100VAC- 240VAC. Voltage selection is not necessary because the power supply senses the correct AC input automatically.

Connect an external 16 AWG or larger wire from earth ground to the chassis of the system as designated by the earth ground symbol.

#### CAUTION!

Only an authorized Sierra Video technician can service the controller unit. Any user who makes changes or modifications to the unit without the expressed approval of the manufacturer will void the warranty.

### Chapter

# 3

## **User Interface**

#### Launching and Logging In

The MediaNAV application is accessed on one of the supported web server platforms using any web browser over a LAN or WiFi connection. In the URL web address field on the browser, enter the IP address of the web server, then log in (the default IP address is 192.168.1.225 and admin default password is "password") as follows:

IP	Address	"admin"	"password"	Support
<ul> <li>➢ Login ×</li> <li>← → C ↑ 192.168.</li> </ul>	1.225		/	
SIERRA VIDEO	/	/		Support
Sign in with	the credentials a signe	d to you by yo adm	in.	
	Login admin	/		
Pass	sword			
Rememb	erme 🔽			
	Login			

Clicking the **Support** button presents contact information for Sierra Video including web address, phone numbers, email address, and shipping address.

#### **GUI Layout**

The GUI for the MediaNAV application comprises three separate sections for primary system features; **Configure, Manage, and Operate.** Detailed information on these sections is included in the later chapters of this manual. The three primary system feature buttons are located at the top of the page in the title bar. The subsections to the primary system features are accessed by a row of round buttons immediately below the primary section buttons.

A set of menus and sub menus that are relevant to the selected system feature and subsection is accessed by the tabs located on the left side of the page.

- Dark grey indicates a top menu
- Red indicates a selected top menu
- Light grey indicates a sub menu
- White indicates a selected sub menu

The current user Login is displayed at the right side of the title bar, to the left of the Exit icon.

Page management buttons are located at the bottom of the page for functions such as **Save**, **Cancel**, **Refresh**, etc.

Primary S	System Features	Exit
Feature Subsections	$\mathbf{N}$	Logged In As
Menu Tabs	$\mathbf{\lambda}$	
Menu Tabs SIERRA VIDEO Overview Users And Groups stenary Advating Switcher Advating Switcher Advating Switcher Advating Switcher Advating Switcher Name Model Location Description Description Protocol "IP Address "Port	Configure     Manage     Op       Routing Switchers     Hardware Panels     Console Design       Properties       Aspen     Aspen       Aspen     -       Equipment Room 3 Bay7       Affiliate and Facility HD/36       SDI       # Ethermet     Senial       Sterra Video Host       192 168.1 201       10001	rate Logied in as: admin Salvos Autu-Viewers Advanced rRequired field
	Cancel Delete Router	Save
	/	

**Page Management** 

## Chapter

Configure

The MediaNAV<sup>™</sup> GUI consists of 3 primary system features, **Configure**, **Manage** and **Operate**, located on the title bar at the top of the page. The Configure section of MediaNAV includes subsections Overview, Users and Groups, Routing Switchers, Console Design, Salvos, Multi-Viewers, and Advanced.

#### Configure>Overview

This is the home page for users with Configure privileges after logging in. This page provides basic information about the current configuration including the name of the controller, model of the controller, MediaNAV application version, and a summary listing the numbers of Users, Groups, Routing Switchers, Hardware Panels, Consoles, Salvos and Multi-Viewers in the current configuration. There are no hyperlinks on this page.

SIERRA VIDEO Configure	Manage	Operate	Logged in as: admin	<b>X</b>
Overview Users And Groups Routing Switchers Hards	ware Panels Console Design	Salvos Multi-	Viewers Advanced	
Name: MediaNAV Controller Model: Mediator-EC MediaNAV Software version: 0.05.15				
Configuration Summary-				
Groups: 3 Routing Switchers: 2				
Consoles: 2				
Multi-Viewers: 0				
	Mea	liaN/	4 <i>V</i> 7/	N

#### **Configure>Users and Groups**

This subsection of the **Configure** feature allows the user to create, edit, and archive users and groups. The tabs in the left pane present pages for configuration of Users, Groups and Archives.

#### **Users Tab**

Selecting the **Users** tab in the pane at the left side of the window provides a **Users List** of all added and activated users. Links are provided for the following functions:

- Add a New User
- Edit User
- Duplicate User
- Deactivate and Archive



#### Add A New User

#### **Enter New User Login and Profile**

This page allows the addition of a new user with input of user profile information such as Login and password credentials, and personal contact information. The only required profile information is Login and Password.

$\cap$		$\sim$				
Overview Us	sers And Groups	Routing Switchers	Hardware Panels Con	Sole Design	Salvos	Multi-Viewers Advanced
Users Ent	ter New User Log	in and Profile		Cheo	ck the system feature	es this user can access
Groups	Login ne	wuser		C	Configure	Manage
Archive	First Name				Routing Switchers	Routing Switchers
	Last Name				Hardware Panels     Console Design	Hardware Panels
	Password				Salvos	Advanced
R	Repeat Password				Users & Groups	
	Contact				Advanced	Operate
	eMail			1.5		
Ass	sign Consoles					
	Allowed access	Availa Bobs Chief	DA A DI Eng			
Gro	oups					
	Member of	Availa Admin Opera Supe	ble groups nistrators ators rvisors		Save	

#### **Assign Consoles**

To allow the user being added to have access to existing control consoles using the **Operate** feature, select any or all consoles in the box under **Assign Consoles** and click the arrow button pointing to the **Allowed** box. The consoles listed in the **Allowed** box will be visible to the new user under the **Operate** button in the title bar at the top of the window.

#### Groups

Select any or all groups listed in the **Groups** box and move them to the **Allowed** box to enable privileges for access to system features that are assigned to the selected groups.

#### System Features (right half of page)

If the Configure checkbox is not checked, then:

- When this user logs in, the **Configure** button in the title bar at the top of the window will not appear.
- All of the checkboxes below **Configure** will be disabled (grayed out) and not checked.

If the Configure checkbox is checked, then:

• When this user logs in, the **Configure** button at the top of the window will appear and the user will have access to the **Configure>Overview** page.

• All of the checkboxes below **Configure** will be enabled so that the user configuring privileges will be able to check/uncheck each of these independently.

If the Manage checkbox is not checked, then:

- When this user logs in, the Manage button at the top of the window will not appear.
- All of the checkboxes below Manage will be disabled (grayed out) and not checked.

If the Manage checkbox is checked, then:

• When this user logs in, the **Manage** button will at the top of the window appear and the user will have access to the **Manage->Overview** page.

• All of the checkboxes below **Manage** will be enabled so that the user will be able to check/uncheck each of these independently.

#### **Operate Checkbox**

If the **Operate** checkbox is not checked, then:

• When this user logs in, the **Operate** button at the top of the window will not appear.

If the **Operate** checkbox is checked, then:

• When this user logs in, the **Operate** button at the top of the window will appear and the user will have access to any assigned GUI consoles.

#### Save and Cancel

These two buttons are located at the bottom of the page. Selecting **Save** will save all the current profile and system feature selections and return to the **User List** page. Selecting **Cancel** will abandon all changes since entering the user settings page and return to the **User List**.

#### Edit User

This link is active only if a user in the current **User List** is selected. The link recalls all of the selected user's profile and system feature privileges that were previously saved. Any of the settings can be changed and saved, returning to the **User List**. Clicking on **Cancel** will abandon the changes and return to the **User List**.

#### **Deactivate & Archive**

This link is active only if a user in the current **User List** is selected. This link removes the selected user from the **User List** and puts their profile information in the user archive, which is accessed using the **Archive** tab in the pane at the left side of the page.

#### Groups Tab

Selecting the **Groups** tab at the left side of the page presents a list of current user groups in a **Groups List**. The links on this page are the same as those described for the Users tab, above, and the links have the same function, except for **Delete Group** instead of **Deactivate and Archive User**.



The Edit Group and Add a New Group buttons open pages that have similar information as the Edit User and Add a New User pages described above. The right half of the page provides settings for system features, all are the same as for the User pages, but apply to the group being added or edited. The left half of the page allows creation of the group name, and has assignment boxes similar to the User page. These are for assignment of Consoles to the group, and assignment of users to the group. The assignment of users to a group is interactive with the Edit User and Add a New User pages, such that changes in either the Group Profile or the User Profile will affect the assignment in the other.

Enter New Group Profile	Check the system features this group can access
Group Name newgroup	Configure Manage
Assign Consoles Allowed access Allowed access Available consoles Bobs QA MC SDI Chief Eng	Routing Switchers       Routing Switchers         Hardware Panels       Hardware Panels         Console Design       Multi-Viewer         Salvos       Advanced         Users & Groups       Advanced         Multi-Viewers       Operate
Assign Users	
Members Available users admin [, Administrator] user [, Supervisor] user [, User]	
Cancel	Save

#### Archive Tab

Selecting the **Archive Tab** will present a page that lists all users that have been deactivated and archived. To reactivate a user, select the user, and then click the **Activate** button near the top of the page.

#### **Configure>Routing Switchers**

The **Routing Switchers** subsection of the **Configure** system feature allows configuration of all current Sierra Video routing switchers. Third party routing switcher control is also supported (contact Sierra Video customer support for more information).

#### Summary Tab

The **Summary** tab presents all configured routing switcher's summarized information including name, model, location, connection type, layer count and status.

	DEO	Configu	re Ma	nage	Operate	Logged adn	in as: nin
Overview	Users And Groups	Routing Switchers	Hardware Panels	Console Design	Salvos	Multi-Viewers	Advanced
Summary	Routing Switcher	Summary					
Summary Add Routing Switcher	Routing Switcher	Summary				Q	
Summary Add Routing Switcher	Routing Switcher	Summary Model	Location	Connecti	on Type Laye	Q. r Count	Status
Summary Add Routing Switcher Aspen	Routing Switcher Name Aspen	Summary Model Aspen 7272HD-3	Location	Connecti TCP/IP	on Type Laye	Q. r Count	Status Ok
Summary Add Routing Switcher Aspen Audio	Routing Switcher Name Aspen Audio	Model Aspen 7272HD-3 Routing Switcher	Location G	Connecti TCP/IP TCP/IP	on Type Laye 1 1	Q r Count	Status Ok Ok

#### Add Routing Switcher

This tab allows the user to configure a new routing switcher. For routing switchers with an Ethernet connection, click the **Ethernet** button for **Connection** type.

Overview	Users And Groups	Routing Switchers Hardware Panels C
Summary	STEP 1: Add Rout	er Properties
Add Routing Switcher	*Name	
Aspen	*Router Model	Other Routing Switcher
Audio	Location	
Audio	Description	
	Connection	Ethernet O Serial
	Protocol	Sierra Video Host
	*IP Address	192.168.1.200
	1	10001
	* Port	10001

-Give the routing switcher a name -Select routing switcher model -Router location (opt.) -Router description (opt.) - Define connection type -Select protocol -Set IP address of routing switcher -Set Port of routing switcher -Test the connection -Click **Next**  For routing switchers with a serial connection, click the **Serial** button for **Connection** type, and make the proper selections for the following parameters.

Connection	Ethernet Serial
Protocol	Sierra Video Host
Serial Port	COM1
Serial Line	Serial RS-232
Baud Rate	9600 🔹
Data Bits	8
Stop Bits	1
Parity	None
Flow Control	XON/XOFF

#### **Operational Behavior:**

- **'Next**' button: The first time a valid **'Next**' press happens for a new routing switcher with an Ethernet connection, the routing switcher will be queried for its layer information (to be used to populate the 'Layers' table) and then the user will move to next step. Any subsequent presses (after coming 'Back' to the page) will just move the user to the next step. A router controlled via a serial interface is not queried.
- The Connection portion of page will be 'hidden' if the selected routing switcher model is 'Virtual Routing Switcher'
- Protocol choices will be:
  - o 'Sierra Video Host'
  - o Additional protocols available in future releases
- Serial Line choices will be:
  - On the Mediator-EC, the serial line cannot be modified
  - o On the Ponderosa Control Card, the choices are
    - RS-422
    - RS-232
- A 'Test Connection' button will allow the user to test validity of their settings (if routing switcher is connected and powered)

#### Note:

If **'Virtual Routing Switcher**" is the model selected or if a **Serial Connection**, then the **Test Connection** button will not be shown. The Virtual Routing Switcher selection is for demos or *training only.* 

- If selected model is a Sierra Video routing switcher, the protocol will be 'Sierra Video Host' and cannot be changed.
- If the user selects the "Test Connections" button results will be as follows:
  - o Successful: 'Connection test succeeded.'
  - Failure: 'Connection test failed. Check that settings are correct and routing switcher is connected.'

#### STEP 2: Add Router Layers

Overview	Users And Groups Routing Switchers Hardware Panels	Console Design Salvos Multi-Viewers Advanced	
Summary	STEP 2: Add Router Layers	Name: Aspen16	
Add Routing Switcher		Model: Aspen 1616HD-3G	
	Delete Layer Add New Layer	Read From Router Add Level Name	
	Number (1-128) Name Inputs (1-2048)	Outputs (1-2048) Signal Type Level	
	1 Vid16 16	16 Digital Video-HD 3G 💌 Video 💌	
	Back Cancel	Restore Page Defaults Next	

The second step in configuring a new routing switcher adds one or more layers to the routing switcher. This step includes creation or selection of the following parameters:

- Layer Number
- Layer Name
- Quantity of Inputs
- Quantity of Outputs
- Signal Type,
- Level and Level Name

Multiple layers and levels can be created. Details about this step are as follows:

Limits:

- Layer number values can range from 1 to 128.
- Layer name and level name limited to 20 characters.

#### **Behaviors:**

- First time entering page:
  - If there is valid data from a routing switcher query, the table will be populated with that data else the table will be populated with a single layer row.
- Delete Layer is disabled when lowest number layer is selected.

#### • Read from Router

- This button does not appear for a virtual routing switcher or if the connection is serial.
- If the read succeeds, the Layer name displayed will be the "Level Name" in Sierra Host protocol. The protocol limits this name to 6 characters. The routing switcher may have a longer level name BUT the protocol will truncate it to 6 characters.
- Add Level Name
  - Click on this button to add a Level Name. A Level Name must be added in order to select a level, unless one already exists in the configuration.

SIERRA VIDEO	Configure Manage	Operate	Logged in as: admin						
Overview U	sers And Groups Routing Switchers Hardware Panels Cons	ole Design Salvos	Multi-Viewers Advanced						
Summary ST	EP 3: Add Router Mapping		Name: aspen16 Model: Aspen 1616HD-3G						
Add Routing Switcher			inder. Aspen foronb-so						
test									
Virtual									
	igodoldoldoldoldoldoldoldoldoldoldoldoldol	for the selected levels.							
	Use this option if you want to create additiona 2 (Add Layers)	Use this option if you want to create additional sources and destinations for the levels you selected in Step 2 (Add Layers)							
	Add the selected levels to existing	sources and destinations.							
	Use this option if you want the levels you sele destinations you have already created.	cted in Step 2 (Add Layers) added	to sources and						
	Also add new sources and destir	ations if needed.							
	Use this option if you want to create addition inputs and outputs when your new layers and	nal sources and destinations 'as ne ə larger than existing layers.	eeded' for the additional						
	No mapping.								
	Use this option if you would like to manually a	add selected levels to sources and	destinations						
	Back Cancel	Restore Page Defaults	Next						

#### Step 3: Add Router Mapping

#### **Default selections for STEP 3:**

1. If sources and destinations already exist, the second radio button, "Add the selected levels to existing sources and destinations." will be selected. Otherwise the first radio button will be selected to create new sources and destinations.

2. When "Add the selected levels to existing sources and destinations." is selected, "Also add new sources and destinations if needed." will be checked by default. These selections allow these levels to use previously configured sources and destinations, and if the new level has more sources or destinations than already exist, those are added.

#### Selecting the proper mapping:

- Add new sources and destinations for the selected levels.
  - The Source Name format will be "Src n" where "n" equals the highest Source Number of the current sources, plus one. Numbers continue incrementing by one

up to the maximum number of Inputs defined for the new layers. If no sources already exist, the first source will be named "Src 1."

- The Destination Name format will be "Dst n" where n equals the highest Destination Number of the current sources, plus one. Numbers continue incrementing by one up to the maximum number of Outputs defined for the new layers. If no destinations already exist, the first destination will be named "Dst 1."
- Add the selected levels to existing sources and destinations.
  - This selection will add to the existing sources so that the Source Names in the new levels are the same as the existing Source Names up to the maximum number of existing sources. If the number of new sources exceeds the number of existing sources and they must be included in the new levels, the box for "Also Add new sources and destinations if needed." must be checked.
  - This selection will add to the existing destinations so that the Destination Names in the new levels are the same as the existing Destination Names up to the maximum number of existing destinations. If the number of new destinations exceeds the number of existing destinations and they must be included in the new levels, the box for "Also Add new sources and destinations if needed." must be checked.
  - Some errors can occur in the following cases:
    - A level is already in use on a source or destination.
    - There are not enough preexisting source or destination values to add the maximums to.
- **No Mapping:** This selection will not do any mapping. Manual mapping can be done using menus to be described in following sections of this manual.

STEP 4: Confirm C	onfiguration		N	lame: Aspen16 lodel: Aspen 1616HD-3G
Connection: Ethern	et			
Protocol: Sierra Vid	eo Host			
Mapping: Add 16 ne	ew sources and 16 new destina	ations for these levels.		
1 Layer(s):				
Number	Name	Inputs x Outputs	Signal Type	Level
1	Vid16	16 x 16	Digital Video-HD 3G	Video

#### **STEP 4: Confirm Configuration**

STEP 4 is the final step allowing review of the selections made in the previous steps. To make changes to the settings, simply click the **Back** button to the proper page and make the changes before clicking the **Finish** button. If all of the selections are correct, clicking the **Finish** button will save the settings for the new routing switcher. A results box will drop down indicating whether the configuration was saved successfully. If successful, a "Reboot" dialog will be displayed. If the user chooses "Reboot Later," the **Manage>Overview** page will show that a restart is needed as a reminder. If the **Cancel** button is clicked a warning dialog warns that the routing switcher configuration will be discarded.

#### **Changing Routing Switcher Configurations**

On the **Configure>Routing Switchers** page below the **Add Routing Switcher** tab on the left are tabs for all routing switchers that have been configured. Clicking on a routing switcher tab reveals sub-tabs that can be selected when making modifications to routing switcher configurations.

#### **General Tab**

This tab reveals a page that lists various configuration parameters for the selected routing switcher in editable fields. Parameters can be added or changed for the routing switcher **Name**, **Model**, **Location**, **Description** and **Connection** settings. The routing switcher can also be deleted from the MediaNAV configuration.

SIERRA VID	EO	Configure		Manage		Operate		ogged in as: admin	? *
Overview	Users And Groups	Routing Switchers	Hardware Panek	s Consol	) le Design	- Constant Salvos	Multi-View	Vers A	dvanced
Summary	Routing Switcher	Properties							*Required field
Add Routing Switcher	*Name	Ponderosa64							
Aspen 16	Model	Ponderosa-64-HD		-					
Ponderosa64	Location	Main Room							
General	Description	Bay 3							
Layers									
Names									
	Connection	Ethernet Serial							
	Protocol	Sierra Video Host		-					
	* IP Address	192.168.1.200							
	* Port	10001							
		Ca	ncel	Del	ete Route	r	Save		

#### Layers Tab

This tab reveals a page that lists various configuration parameters for the selected routing switcher. Clicking on **Edit Layer** opens a menu with Layer parameters in editable fields.

SIERRA VID	EO	Configur	re Manage		Operate	Logged in a admin	as: <b>?</b>	<b>X</b>
Overview	Users And Groups	Routing Switchers	Hardware Panels Co	Onsole Design	Salvos	Multi-Viewers	Advanced	
Summary	Layers							
Add Routing Switcher	Delete Layer	Duplicate Layer	Edit Layer	Add Layer				
Ponderosa 64HD	Nur	mber Name	Inputs x Outpu	ts Signal Type	1			
General	۲	1 Video	64 x 64	Digital Video	p-HD 3G			
Layers	L							
Names								

Click on Edit Layer -

Summary	Edit Layer	
Add Routing Switcher	* Layer Number	1
Ponderosa 64HD	* Layer Name	Video
General	* Number of Inputs	64
General	* Number of Outputs	64
Layers	Signal Type	Digital Video-HD 3G
Names		

This page allows modification of five layer parameters, including Number, Name, Inputs, Outputs, and Signal Type.

#### Or, click on Add Layer -

Summary	Add Layer		
Add Routing Switcher	* Layer Number	2	
Ponderosa 64HD	*Layer Name		
Conoral	* Number of Inputs	64	
General	* Number of Outputs	64	
Layers	Signal Type	Digital Video-HD 3G 👻	
Names			
	Assign level to this ne	w layer: ?	
	None		
	Add a new Level * N	ame	Automatically add new level to existing sources and destinations
	O Use existing level	eft 💌	

This page allows a new layer to be added to the selected routing switcher. A new level can be added as well.

#### **Configure>Hardware Panels**

The **Hardware Panels** subsection allows most Sierra Video hardware control panels to be configured. In particular, the SCP nomenclated panels are highly programmable with a wide selection of functions that can be assigned to any push-button on the control surface. The non-programmable hardware control panels can be given a name, a location, allowed destinations, and allowed levels, and the panel ID can be assigned. In every case a graphical image of each panel is displayed, which is used for push-button selection for function assignment on the programmable control panels.

#### Summary Tab

The **Summary** tab provides a list of configured panels and the **Status** of the panel connection. Information about each panel is displayed, including name, ID, model, location, and template name.

SIERRA VID	EO	Configure	Manage	e Operate	Loggi	ed in as:
Overview	Users And Groups	Routing Switchers	Hardware Panels Co	onsole Design Salvo	s Multi-Viewers	Advanced
Summary	Panel Summary					
Add Panel					Q	
Templates	Panel Name	ID Number	Model	Location	Template Name	Status
044	QA 1 0A 2	1	SCP-224	Quality Assurance		Ok Ok
QAT	Tape Ops1	3	CP-804037	Tape Operations		Ok
QA 2						
Tape Ops1						
				Refresh		

#### Adding a Control Panel

Selecting the **Add Panel** tab reveals a page for configuring Sierra Video hardware control panels. The required fields **Panel Name**, **ID**, and **Model**, must be filled before configuration can begin. Then click **Apply** at the bottom of the page and a graphical image of the selected model will be displayed with additional parameter fields and selections for programming the control panel.



Notice that the initial configuration can be based on the default for each model, by copying from an existing control panel, or by using an existing template.

Summary	Panel Name*	ID Num.*	Model *	Location	*Required field
Add Panel			Unknown		
Templates	Initial Configuratio	n			
QA 1	Default Configuration				
QA 2	Copy from Existing	.	· ·		
Tape Ops1					

After the **Apply** button is clicked the graphical image of the selected model and the additional parameter and function selections are revealed for completion of the configuration. The configuration can be saved to the controller database by clicking the **Save** button. To finish programming the control panel, click **Send to Panel** so that the configuration can be sent to the connected control panel.

SIERRA VID	EO	Configure	Mana	ige	Operate	Logged ir admi	
Overview	Users And Groups Routi	ng Switchers Hard	ware Panels	Console Design	Salvos	Multi-Viewers	Advanced
Summary	Panel Name*	ID Num.* Model	224	Location			*Required field
Add Panel	QA 1	1 SCP-	224	Quality Ass	surance		
Templates	None	•					
QA 1							
	Button Configuration Button I	Page r Normal	F	unctions Category	Function T	Params *	sierrordeau,stors
	Single Destination Only     Show unmapped levels     Enable Auto Take     Enable Numeric Sort		Allowed Des Allowed Lev	stinations rels		Select Tally L Select Holddown M	evel SDI
	Cancel	Delete Pa	nel	Save As Templ	ate	Save	Send To Panel

#### **Configure>Console Design**

The Console Design subsection of the MediaNAV interface provides tools for creating a variety of GUI control consoles that run on MediaNAV.

The initial page accepts preliminary settings including the console name, allowing selection of a **New** configuration, or one that is a **Copy from Existing** console.

SIERRA VID	DEO Configure Manage Operate Logged in as: admin ? *
Overview	Users And Groups Routing Switchers Hardware Panels Console Design Salvos Multi-Viewers Advanced
Add Console	Add Console: * Required field
	Name:* Console0
	Initial Configuration 🔘 New 🛛 Copy from Existing
	Style Standard Console with Levels 💌
	Add all sources
	Add all destinations
	Assign to all users
	Assign to all groups
	Cancel Apply

After selecting the remaining preliminary settings, click **Apply** to reveal the additional console configuration selections:

Add Console	Console Propertie	s:		* Required field
Bobs QA	Name:*	Bobs QA	]	
General	Style:	Standard Console with Levels	1	
Look and Layout	Description:			
Source Buttons				
Destination Buttons	Status O	Inly		
Level Buttons	🔲 Enable A	uto-Take		
Other Buttons				
Users and Groups				
Advanced				

The various settings used to configure the GUI consoles are accessed with several tabs:

#### General tab

- o Description
- o Status Only
- o Enable Auto-Take

#### Look and Layout tab

- o Theme
  - Lake Blue
  - Quartz
  - Granite
- o Labels and text for Sources, Destinations, Levels, and Other buttons
  - "Other" buttons are typically salvos and multi-viewer layout recalls.
- o Levels
  - Breakaway settings
  - Show "All Levels" button
  - Show "Clear Levels" Button
  - Levels button text
  - Take button text

#### Source Buttons tab

- Add or delete source buttons in the console
- o Create "Display Text" to be displayed on each source button

#### **Destination Buttons tab**

- Add or delete destination buttons in the console
- o Create "Display Text" to be displayed on each destination button

#### Level Buttons tab

- Add or delete level buttons in the console
- o Create "Display Text" to be displayed on each level button

#### Other Buttons tab

- Add "Lock dest", salvo, blank, or layout-recall buttons to the "Other Buttons" area of the console
  - There must be salvos created and saved in the system available for selection.
- Create "Display Text" to be displayed on each button in the "Other Buttons" area of the console.

#### Users and Groups tab

o Add or delete Users and Groups allowed access to the console being configured.

#### Advanced tab

o Enable Source Based switching

#### Configure>Salvos

The Salvos subsection of the Configure system feature provides the tools required to create salvos and recalls of preset configurations on various devices such as multi-viewer layouts.

The Summary tab provides a list of salvos saved on the system.

The New Salvo tab reveals text fields and selections for building and saving salvos.

#### New Salvo tab

The parameters and settings for creating salvos are as follows:

- Salvo Name 0
- Salvo Number 0 0
  - Action Type
  - Take ٠
  - Take All Levels •
  - Destination Lock ٠
  - **Destination Unlock**
  - Recall ٠
    - o Recall presets such as mutli-viewer layouts
- Multi-viewer to be preset 0
- Multi-viewer layout to be recalled 0

SIERRA VIDEO		Configure	Manage		Operate	Logged in as: admin	? *
Overview Users /	And Groups Routin	Switchers Ha	rdware Panels Cd	Onsole Design	- Contraction - Salvos	Multi-Viewers	Advanced
Summary	Salvo Name*			1			* Required field
New Salvo Sa	alvo Number* 1			]			
	Action Type Take		•	]			
S	ource (inputs) Src 1		•	HD SDI		*	
Destina	ation (outputs) Dst 1			1			
						-	
	Add	Insert	Undate				
Actions (	Drea to ra order list)						
Actions (	Drag to re-order list)						
		Cano	el	Delete		Save	
		Cano		Delete		outo	

#### **Configure>Multi-Viewers**

The **Multi-Viewers** subsection of the **Configure** system feature allows configuration of properties like Name, Model, Location and Ethernet Connection. The **Summary tab** provides a list of multi-viewers configured and saved on the system.

#### Add Multi-Viewer tab

Multi-viewers on an Ethernet network can be accessed and controlled from the MediaNAV GUI. The connection to a multi-viewer can be established on the **Add Multi-viewer** page.



When a connection to a multi-viewer is established, MediaNAV provides a link to the multi-viewer configuration webpage that resides on the multi-viewer. The multi-viewer configuration page will open on another tab of your browser.

SIERRA VID	EO	Configure	Manage	Operate	Logged in as: <b>admin</b>	? *
Overview	Users And Groups	Routing Switchers Hardware	Panels Console Design	- Salvos	Multi-Viewers A	dvanced
Summary	Multi-Viewer Pro	perties				* Required field
Add Multi-Viewer	Name*	QA1 MV				
QA1 MV	Model Location	Siewa View MV Quality Assurance	•			
		-				
			11			
	Connection					
	IP Address*	192.168.1.35				
	Launch	Configure QA1 MV				

#### Configure>Advanced

The **Advanced** subsection of the **Configure** system feature provides several tabs for configuring various system parameters including **Network** and **Serial** connections, **Categories**, **Router Mapping**, **Logging**, **Factory Defaults**, and the ability to analyze the system configuration.

	EO Configure Manage Operate Logged in as: 2 🛠
Overview	Users And Groups Routing Switchers Hardware Panels Console Design Salvos Multi-Viewers Advanced
System	Name: MediaNAV Controller
Network	Model: Mediator-EC
Serial	Serial #: 0123456789
Categories	Mediality v Software version: 1.00.05
Router Mapping	
Logging	
Analyze Config	
Factory Defaults	
	Cancel Save

#### System tab

This tab displays the MediaNAV Controller name, the model of the controller, the software release version, and allows for the entry of the controller serial number.

#### Network tab

Provides settings to disable the network connection, enable DHCP, or manually set the IP address of the MediaNAV controller.

#### Serial tab

For setup of COM1 or COM3 for serial control of peripheral devices with serial interfaces. Note that the settings on this page can't be change for ports that are being used by a routing switcher.

#### Categories tab

Categories can be created to filter sources, destinations, or more specific source or destination categories to assist in filtering of specific kinds of devices on inputs or outputs of a routing switcher.

#### Router Mapping tab

- Levels
  - Assign levels and create new levels
  - Sources
  - Source mapping allowing assignment of sources to a layer and a level.
- Destinations
  - o Destination mapping allowing assignment of destinations to a layer and a level.

#### Logging tab

The logging features of MediaNAV allow for several levels of detail, for several different perspectives which include devices, hardware panels, users, interfaces, and others. The levels of detail for each of these perspectives are as follows:

- Errors
- Warnings
- System Events
- Transactions
- Communications Events
- Debug

Each of these levels is cumulative, such that Warnings includes Errors, System Events includes Errors and Warnings, etcetera.

#### Analyze Config tab

This tab runs a useful diagnostic and provides a list of potential issues related to the current system configuration.

#### Factory Defaults tab

This tab provides access to a button that will reset the configuration of the system to factory defaults. Clicking on **Restore factory default configuration** will cancel any changes to the configuration and reboot the controller.

#### Warning!

Clicking **Restore factory default configuration** will delete all devices, consoles, added users, added groups, and restore default IP and serial communication settings.

### Chapter

## Manage

#### Introduction

The Manage system feature provides a more limited access to device configurations than are available in the Configure feature pages. The Manage features are used primarily for checking status of devices on the system and includes some basic control functions. The subsections of the Manage system feature are Overview, Routing Switchers, Hardware Panels, Multiviewers, and Advanced.

#### Manage>Overview

The **Overview** subsection of the **Manage** system feature primarily provides system status. This webpage includes a **Device Summary**, which lists all of the types of devices in the system. The Number Configured, Number Present, and the general Status of the devices are listed.

At times an action will be needed on the MediaNAV system. When this situation occurs, the Action Needed section will appear with the required action specified on a button in that section.

If the Action Needed button (labeled Reboot System in the example below) is pressed, an Are you sure message will appear. If the user answers yes, then the action will be taken.

SIERRA VIDEO		Configure	Manage	Operate		Logged in as: admin	?
	Overview	Routing Switchers	Hardware Panels	Multi-Viewers	Advanced		
Overall status:	To Be Reset			Med	JiaNAV:		
Name: MediaNAV Controlle				Staf	tus: Ok	~ ~ ~	
Name, mediantity concerns	1			Son	tware version: 1.0	/0.09 Action Needed:	
Model: Mediator-EC					R	eboot System	
Device Summary							
Device Type	Number Cor	hfigured	Number Preser	it	Status		
Hardware Panels	0		0		Ok		
Multi-Viewers	0		0		Ok		
Routing Switchers	2		0		Ok		

Note that the Action Needed button will be grayed out if the user does not have Manage->Advanced permissions.

#### Manage>Routing Switchers

The **Routing Switchers** subsection of the **Manage** system feature provides a list of configured routing switchers, and displays their current status when the **Summary** tab is selected

SIERRA VID	DEO	Configure Manage	e Operate		Logged in as: <b>admin</b>	? *
	Overview	Routing Switchers Hardware Par	nels Multi-Viewers	Advanced		
Summary	Routing Switcher Summary	1				
Aspen 32				Q		
	Name	Model	Software Version		Status	
Ponderosa 64	Aspen 32	Aspen 3232HD-3G	V1.10		Ok	
	Ponderosa 64	Ponderosa-84-3G	V1.10		Ok	

When a routing switcher tab is selected two sub-tabs are revealed, **General** and **Crosspoints**. The **General** tab provides a list of parameters related to the selected routing switcher, which includes **Overall Status**, **Model**, **Connection Type** and **Software Version**.

When the **Crosspoints** sub-tab is selected, a set of crosspoint controls are revealed. These controls allow switching of individual inputs to outputs, taking a range of inputs to an output, diagonal takes of same input number to same output number, and reverse diagonal takes of highest input number to lowest output, second highest input to second lowest output, etc.

SIERRA VIDE	0	$\sim$	Configure	Manage	Operate	$\supset$	Logged in as: admin	? *
		Overview -	Routing Switchers	Hardware Panels	Multi-Viewers	Advanced		
Summary		Inputs for Lay	er Number				Diagonal	5
Aspen 32	Outputs	1					Reverse diagon	al
Aspen32B	1	16					Offset	
General	2	11	-				1 3G SDI	*
Crosspoints	4	13	-					-
<b>D L O</b> (	5	12					Set Diag	onal
Ponderosa 64	6	6					Range Take	П
	7	7	=				Inout 1	26
	8	8	_				Start Output 1	
	9	9	-				End Output 32	
	10	17	-				Layers	
	11	11	-				1 - 30 301	<u>^</u>
	12	12						*
	13	13	-				Set Rai	nge
	14	14	-					
	15	15	-					
	10	18	-				Refre	sh
	17	17	-				Unloc	ck
	19	18	-				11111	
	20	20	-				Tak	e
	21	< <u> </u>					<i></i>	

#### Manage>Hardware Panels

The Hardware Panels subsection of the Manage system feature has a single menu tab, Summary, revealing a page with the Panel Summary, which includes a link to update panel software, and a list of all of the panels configured on the MediaNAV control system. The parameters included for each panel are Panel Name, ID Number, Model, Location, Software Version, and Status.

SIERRA VIE	DEO	Configure	Manage	Operate		admin as:		
	Overvie	Routing Switche	Hardware Panels	Multi-Viewers	Advanced			
Summary	Panel Summary							
	Update Panel SW			Q				
	Panel Name	ID Number	Model	Location	SW Version	Status		
	112	30	SCP-112		V1.10	Ok		
	224	2	SCP-224		V1.10	Ok		
	240	15	SCP-240		V1.10	Ok		
	XY8	9	CP-804148			Missing		
	ху	7	CP-804048		Unknown	Ok		
	single	0	CP-804014		Unknown	Ok		
	wallplate	1	SCW-116		Unknown	Ok		

#### Manage>Multi-Viewers

The **Multi-Viewers** subsection of the **Manage** system feature has a single menu tab, **Summary**, revealing a page with the **Multi-Viewer List**, which includes a list of all of the multi-viewers configured on the MediaNAV control system. The parameters included for each multi-viewer are **Name**, **Model**, **IP Address**, **Software Version**, and **Status**.

SIERRA VID	DEO	Configure	Manage	Operate	Logged in as: <b>admin</b>	? 14
	Overview	Routing Switchers	Hardware Panels	Multi-Viewers Advanced		
Summary	Multi-Viewer List					
				c	۹.	
	Name	Model	IP Address	SW Version	Status	
	QA1 MV	Sierra View MV	192.168.1.35	V1.10	Ok	

#### Manage>Advanced

The **Advanced** subsection of the **Manage** system feature contains management features that are more specific to the control system and software updates. The menu tabs on the left side of the page are **Network**, **Logging**, **Software Update**, and **System Control**.

#### Network tab

The Network tab includes parameters and status of the network and includes network host information: Name, Mode, IP Address, Subnet mask, Gateway, Speed, and Status.

#### Logging tab

This tab includes just two buttons, one to download the logs, and another to delete the logs. Clicking **Download Logs** immediately downloads a ZIP folder of text files containing logged data.

#### Warning!

Clicking Delete Logs immediately deletes all logs.

#### Software Update tab

This tab reveals tabs for sub-menus, **MediaNAV** and **Hardware Panels**, which reveal menus that can be used to update the software for the MediaNAV controller and for the Sierra Video programmable SCP hardware control panels.

SIERRA VID	EO Configure Manage Operate	Logged in as: <b>admin</b>	? *
	Overview Routing Switchers Hardware Panels Multi-Viewers Advanced		
Network	Current MediaNAV software version: 1.00.11		
Logging			
Software Update	Instructions		
MediaNAV	<ul> <li>Navigate to the Sierra Video support web page.</li> <li>Download the latest MediaNAV software</li> </ul>		
	<ul> <li>Save the software file into an accessible folder.</li> </ul>		
Hardware Panels	<ul> <li>Use the button to browse to that folder and select the file.</li> </ul>		
System Control	Choose File No file chosen		
	Update MediaNAV Software		

Network	Haro	Hardware Panel List							
Logging	Up	Update Selected Panel Update All Panels Q							
Software Update		Panel Name	ID Number	Туре	Location	SW Version	Status		
	0	QA 1	1	SCP-224	Quality Assurance	V1.10	Ok		
MediaNAV	0	QA 2	2	SCP-240	Quality Assurance	V1.10	Ok		
Hardware Panels									
System Control									

#### System Control tab

The **System Control** tab presents a page with controls for managing certain system functions. Clicking on the proper button allows the user to shutdown or reboot the system, restart the application or restart all hardware panels.

SIERRA VIDEO	Configure	Manage	Operate	$\supset$	Logged in as: admin	? *
	Overview Routing Switchers	Hardware Panels	Multi-Viewers	Advanced		
Network						
Logging		Shuto	lown System			
Software Update		Reb	oot System			
System Control		Roote	ut Application			
		Resiz	III Application			
		Restart All	Hardware Panels			
			Refresh			

#### Chapter

# 6

## Operate

#### Introduction

The **Operate** system feature accesses all of the MediaNAV GUI consoles that are allowed by the user's permissions. The GUI consoles can be configured to control routing switchers and recall presets such as multi-viewer layouts. The interface allows the user to switch any of the sources to any of the destinations. Any source can be connected to any or all destinations but each destination can only be connected to a single source. The web page GUI console empowers full control of the routing switcher.

There are currently three different styles, or "skins," that can be selected for console configurations, Lake Blue, Quartz, and Granite, as shown in the following examples:

	A VIDEO	Config	gure Man	age Op	erate	Logged in as: admin	? *
			obs QA Chief	Eng MC SDI	)		
Sources							Levels
Src 296	Src 297	Src 298	Src 299	Src 300	Src 301		SDI 🔍
Src 302	Src 303	Src 304	Src 305	Src 306	Src 307		
Src 308	Src 309	Src 310	Src 311	Src 312	Src 313		
Src 314	Src 315	Src 316	Src 317	Src 318	Src 319		
Src 320							
Destinations							All Levels
Dst 10	Dst 11	Dst 12	Dst 13	Dst 42			Clear Levels
Salvo/Other							
MC Mornin MultiView	9 MC PM Multi\	View Sac Spotlig	ht				TAKE

#### Lake Blue

#### Quartz

	A VIDEO	Config	gure Mar	nage Op	erate	Logged in as: admin	? 7
		(	-		)		
		в	obs QA Chief	Eng MC SDI			
Sources	Src 296	Src 297	Src 298	Src 299	Src 300	Src 301	
Src 302	Src 303	Src 304	Src 305	Src 306	Src 307	Src 308	
Src 309	Src 310	Src 311	Src 312	Src 313	Src 314	Src 315	
Src 316	Src 317	Src 318	Src 319	Src 320			
Destinations							
Dst 42							
0							
Salvos/Recall			47.				//////
MC Mornin MultiView	MC PM Multi	iView Sac Spotlig	ht				TAKE

#### Granite

	RA VIDEO	Config	jure Man	age Op	erate	Logged in as: admin	? *
					)		
Sources				Eng Mic SDI		_	Levels
Src 1	Src 2	Src 3	Src 4	Src 5	Src 6		SDI © Left ©
Src 7	Src 8	Src 9	Src 10	Src 11	Src 12		Right 🔗
Src 13	Src 14	Src 15	Src 16	Src 17	Src 18		HD SDI 💇
Destinations	*		- 12				
Dst 426	Dst 427	Dst 428	Dst 429	Dst 430	Dst 431		
Dst 432	Dst 433	Dst 434	Dst 435	Dst 436	Dst 437		
Dst 438	Dst 439	Dst 440	Dst 441	Dst 442	Dst 443		All Levels
Salvos/Recalls							
10am New	's 10pm New	s MC Mornin MultiView	g MC PM Multi	View Sac Spotlig	ght		TAKE
		- Wultiview					/////

#### **GUI Console Operation**

#### Source Based vs. Destination Based Switching

One source can be routed to multiple different destinations, but any destination can only route from a single source. Both a source and a destination can route multiple levels together, such as video plus two channels of stereo audio, each on its own level. There are two different modes of operation allowed that allow these routing schemes. One, called **source-based** switching, allows the user to first select a source and desired levels, and then select one or more destinations for that source and its enabled levels. The other mode, called **destination based** switching, allows the user to select the destination and the desired levels, and a source to be routed. The instructions for setting one or the other switching mode are included in the **Configure** chapter earlier in this manual.

#### Source based Switching

- 1. Select a source
- 2. Select level(s) to be switched
- 3. Select one or more destinations (In auto take mode, the switch will occur immediately)

4. If **Auto-Take** mode is not enabled the **Take** button will be red – press take to initiate the switch. All selected destinations will be switched to the selected source when take is pressed.

#### **Destination based Switching**

- 1. Select a destination
- 2. Select the level(s) to be switched
- 3. Select a source (In auto take mode, the switch will occur immediately.)

4. If **Auto-Take** mode is not enabled the **Take** button will be **red** – press **Take** to initiate the switch.

#### Level Buttons and Indicator Bulbs

The Level buttons are located on the top right side of the console. Only the levels that are enabled for each console are visible and selectable. The levels are color coded in small indicator "bulbs" allowing identification of which levels are present and selected on the Source and Destination buttons.



#### **Destination-Based Console Indications**

On a console configured for destination-based switching, if a source is not assigned to a level in the **Configure** pages the "bulb" will be clear, or if the level is not selected on the console for that source (see Breakaway below), the "bulb" will be clear, allowing the button color behind to show through. For destinations on a destination-based console, if a destination is not assigned to a level in the **Configure** pages, the level bulb will be grey.

	Level not configured	Level not selected	Level configured and selected
Source	clear	clear	color of level
Destination	grey	N/A	color of level

#### **Source-Based Console Indications**

On a console configured for source-based switching, if a source is not assigned to a level in the **Configure** pages, the bulb will be grey. For destinations on a source-based console, if the destination is not assigned to a level in the **Configure** pages, or if a level on the selected source is not enabled, the bulb will be clear, allowing the button color behind to show through.

	Level not configured	Level not selected	Level configured and selected
Source	grey	N/A	color of level
Destination	clear	clear	color of level

The common rule for both cases is that unassigned or unselected level bulbs are grey for the sources when in source-based mode, and for the destinations when in destination-based mode.

#### Break-away Switching

Before making a selection that will result in a take of the selected source and destination(s), ensure that the Level buttons in the top right side of the console are properly enabled. Some consoles may not have any level buttons, as in the case of a single-destination console.

For example, if only a video switch is desired when there are also two audio levels, deselect the audio levels as shown below:



The **All Levels** button (if present) will enable all levels. The **Clear Levels** button (if present) will disable all levels.

#### Salvos and Preset Recalls

Salvos and Recalls are programmed as described in **Configure>Salvos** earlier in this manual. Salvos and Recalls are assigned to each console as described in **Configure>Console Design>Other Buttons** earlier in this manual.

To fire a Salvo, click on the desired salvo or recall button. The salvo or recall will fire when the button is pressed. Salvos in the MediaNAV GUI consoles operate like salvos on the Sierra Video SCP control panels, in an auto-take mode without the need to press the **Take** button.

#### Chapter

## **Troubleshooting**

#### **Front Panel Indications**

#### NOTES:

If the following recommended actions still do not result in satisfactory operation, please consult your Sierra Video Dealer.

#### **Power and Indicators**

Problem	Remedy
No power	<ul> <li>Confirm that power connections are secured at the controller and at the receptacle. Make sure the receptacle is active, with the proper mains voltage.</li> </ul>

#### Control

Problem	Remedy
No control of Routing Switcher from the controller platform	<ul> <li>Confirm the correct wiring of the connecting cable. Be sure to use a standard one to one 9 pin serial cable for serial connections and standard CAT V or CAT VI Ethernet cable for Ethernet connections.</li> <li>Confirm that the baud rate of your controller (i.e. Mediator) COM port is set to the same as that of your Routing Switcher (9600-Baud factory default). Confirm that the propert COM port is negative to the same as that of your Routing Switcher (9600-Baud factory default).</li> </ul>
	software.
	<ul> <li>Use a terminal emulator program to send **!! commands and check for **OK!! response.</li> </ul>
	If you do not receive **OK!!, the problem is with the routing switcher.

Unable to control a device	<ul> <li>Check device status on the appropriate routing switcher, panel, or multiviewer summary pages to make sure all are reporting OK.</li> <li>Is the device connected and powered up?</li> <li>IP / serial settings correct?</li> <li>Use the analyze configuration feature to help discover the problem.</li> <li>Try rebooting the device.</li> <li>Try rebooting MediaNAV.</li> </ul>
Can't open the MediaNAV GUI from my browser	<ul> <li>Mediator powered up?         <ul> <li>Is the power LED on the Mediator blinking? (This indicates boot up failure).</li> <li>When power cycling Mediator – leave power off for at least 30 seconds before turning back on.</li> </ul> </li> <li>Ethernet connection OK?         <ul> <li>Cables connected?</li> <li>IP settings correct? Check both MediaNAV and the PC you are opening it from.</li> <li>Network settings correct?</li> </ul> </li> </ul>

#### **Technical Support**

Sierra Video has made every effort to insure that your unit has been fully tested and is configured to your order specifications. If problems arise that cannot be resolved, please contact the Sierra Video technical support department.

Sierra Video factory - (530) 478-1000

Email - service@sierravideo.com

#### Chapter

## Warranty

#### A. General

Buyer assumes all responsibility for ascertaining the suitability of Sierra Video (hereinafter "SVS") products for Buyer's intended use. No product sold by SVS is designed or manufactured for use in any manner or under any conditions other than those described in SVS's instruction manuals and other printed material for each particular product. If any product is used or applied in a manner or under conditions not specifically authorized by such written materials or if any product is used by unqualified or improperly trained personnel, Buyer agrees that SVS shall have no liability of any kind arising from such use, and Buyer agrees to indemnify and hold SVS harmless from any claims of third parties arising from such use, and Buyer shall provide SVS with counsel of SVS's choice to defend against such claims.

#### **B.** Limited Warranty

1. This limited warranty applies only to the original purchaser and is non-transferable. This limited warranty begins on the date of purchase and will be in effect for seven (7) years for new equipment and for three (3) years for "Factory Refurbished" equipment. Power Supplies and fans are warranteed for three (3) years from the date of purchase for new equipment and two (2) years for "Factory Refurbished" units, from the date of purchase.

Buyer must obtain a Return Material Authorization ("RMA") number from SVS prior to returning a product for repair. If, in SVS' sole discretion, the product is found to be defective during the term of this warranty, SVS will at its option: (a) provide free replacement parts, and/or (b) repair the unit at an SVS facility. During the warranty period, SVS will make every reasonable effort to support critical emergencies by supplying no-cost loan equipment while the defective unit is being repaired. SVS will provide replacement parts and/or factory service at no charge. Buyer bears the cost of shipping products returned to SVS under this warranty. SVS will bear the cost of shipping repaired products or replacement parts to the Buyer.

This limited warranty shall not apply to any of SVS's goods which have been altered or which have been subjected to misuse, mishandling, improper storage or negligence. The aforementioned provisions do not extend the original warranty period of any goods which have been replaced by SVS. This limited warranty shall not apply to any goods not of SVS's manufacture, Buyer to be entitled only to the warranty set forth in the original manufacturer's limited warranty.

THIS LIMITED WARRANTY IS EXPRESSED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER OBLIGATIONS OR LIABILITIES ON SVS'S PART.

SVS neither assumes nor authorizes any other person to assume for SVS any other liabilities in connection with the sale of products of its own manufacture.

2. SVS's liability hereunder on any claim of any kind, except as set forth herein for any loss, injury to person or property or damage, shall in no case exceed the price allocable to the goods which give rise to such claim.

3. In no event shall SVS be liable for any damages or injuries to person or property if any goods do not meet the above limited warranty, including, without limitation, incidental expenses or consequential or special damages, except as set forth in such limited warranty. The foregoing states the exclusive remedy of Buyer and the exclusive liability of SVS for any breach of the foregoing limited warranty.

#### C. Cancellation

Except as provided in paragraph B immediately above, all sales are final, and Buyer may cancel this order or return products only upon written consent of SVS.

#### D. General

In the event of a breach of any of the terms hereof, the non-breaching party shall be entitled to recover all of its costs, fees, and expenses, including, without limitation, reasonable attorney's fees, from the breach party incurred as a result of such breach, regardless of whether or not a suit is actually filed to enforce the terms hereof.

The provision hereof shall be governed by the laws of the State of California (excluding its choice of law provisions).

The headings are for convenience only and do not limit or amplify the terms and provisions hereof.

In case any one or more of the provisions set forth herein shall be held to be invalid, illegal, or unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions contained herein shall not in any way be affected or impaired thereby.

No waiver, alteration, or modification of any of the provisions hereof shall be binding unless in writing and signed by an authorized Officer of SVS.

#### NOTE:

All products returned to SVS for service must have prior approval. Return authorization requests may be obtained from your SVS dealer.