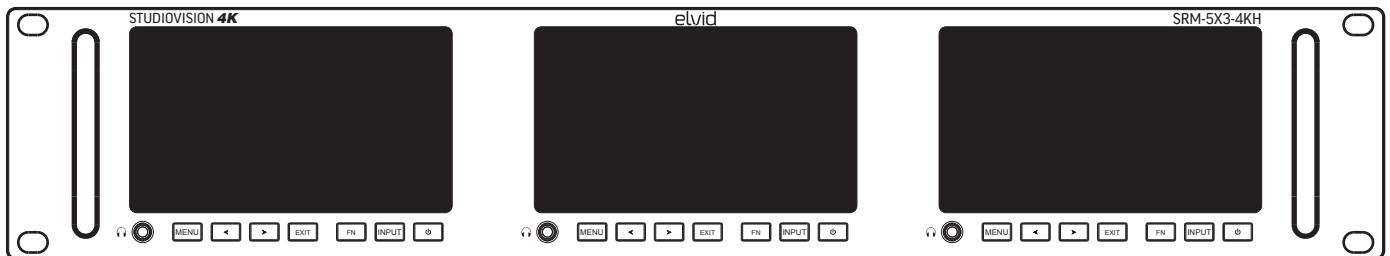


elvid[®]

STUDIOVISION

SRM-5X3-4KH

Triple 5 in. Rackmount Monitors



USER MANUAL



THANK YOU FOR CHOOSING ELVID.

The Elvid SRM-5X3-4KH rackmount monitoring system fits three 5-inch, full HD monitors into a standard 19-inch machine rack. The LCD panels' native 1920 × 1080 resolution provides a sharp image and facilitates precise color rendering. The monitors feature HDMI and SDI inputs with loop outputs, and their native aspect ratio of 16:9 fits most popular video formats. Both monitors have a 160° viewing angle, so no matter where you place them in a studio, location, or broadcast truck, you'll view the picture in crisp detail.

Each monitor features 3G-SDI and HDMI 2.0 inputs and loop outputs so you can view one signal on both monitors, or a separate signal on each. Easy-to-access menus let you select which of the many monitoring and broadcast tools to display on each side. An assignable function button on each monitor gives you the option of putting specific tools at your fingertips. User-supplied 3-D LUTs can be loaded via the USB port, and Ethernet software control is supported via the Ethernet port. A DE-15 Tally connector is compatible with standard tally systems for monitoring in broadcast applications. The triple monitor supports up to 8 audio channels, and headphone outputs for each panel allow you to monitor the sound from either input signal.

PRECAUTIONS

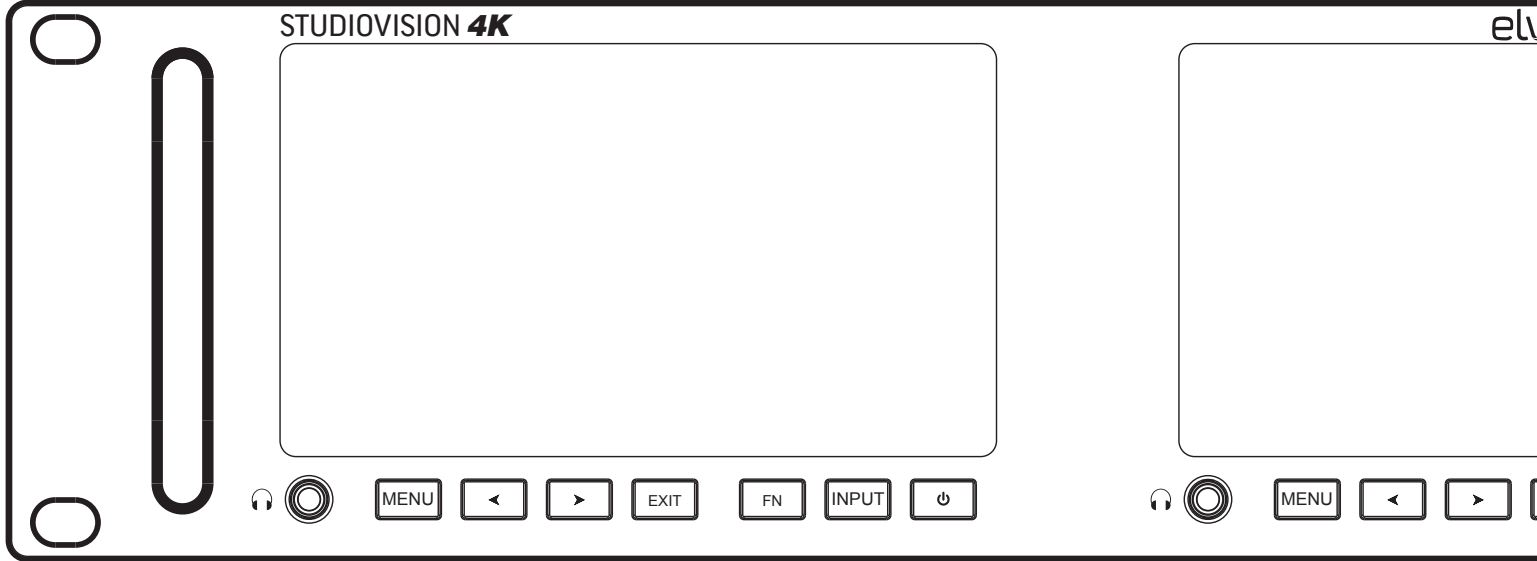
- Keep this product away from water and any flammable gases or liquids.
- Do not expose this product to humidity or extreme heat or cold.
- Make sure this product is powered off when plugging it into a power source.
- Use only the correct, recommended voltage.
- Do not attempt to disassemble or repair this product.
- Do not place or store the monitor facedown, since this can damage the screen.
- Handle this product with care. Avoid any impacts to this product.
- Do not block the vents in this product.
- Disconnect this product from its power source before storage and during electrical storms.
- Do not use chemical solutions to clean this product. Clean it with only a soft, dry cloth.
- Keep this product away from children.
- Make sure that this product is intact and that there are no missing parts.
- To avoid damage to this product, be careful not to overtighten or improperly thread any of the threaded fittings.
- Exposure to high sound levels can cause permanent hearing loss. Avoid listening at high volumes for extended periods of time.
- All images are for illustrative purposes only.

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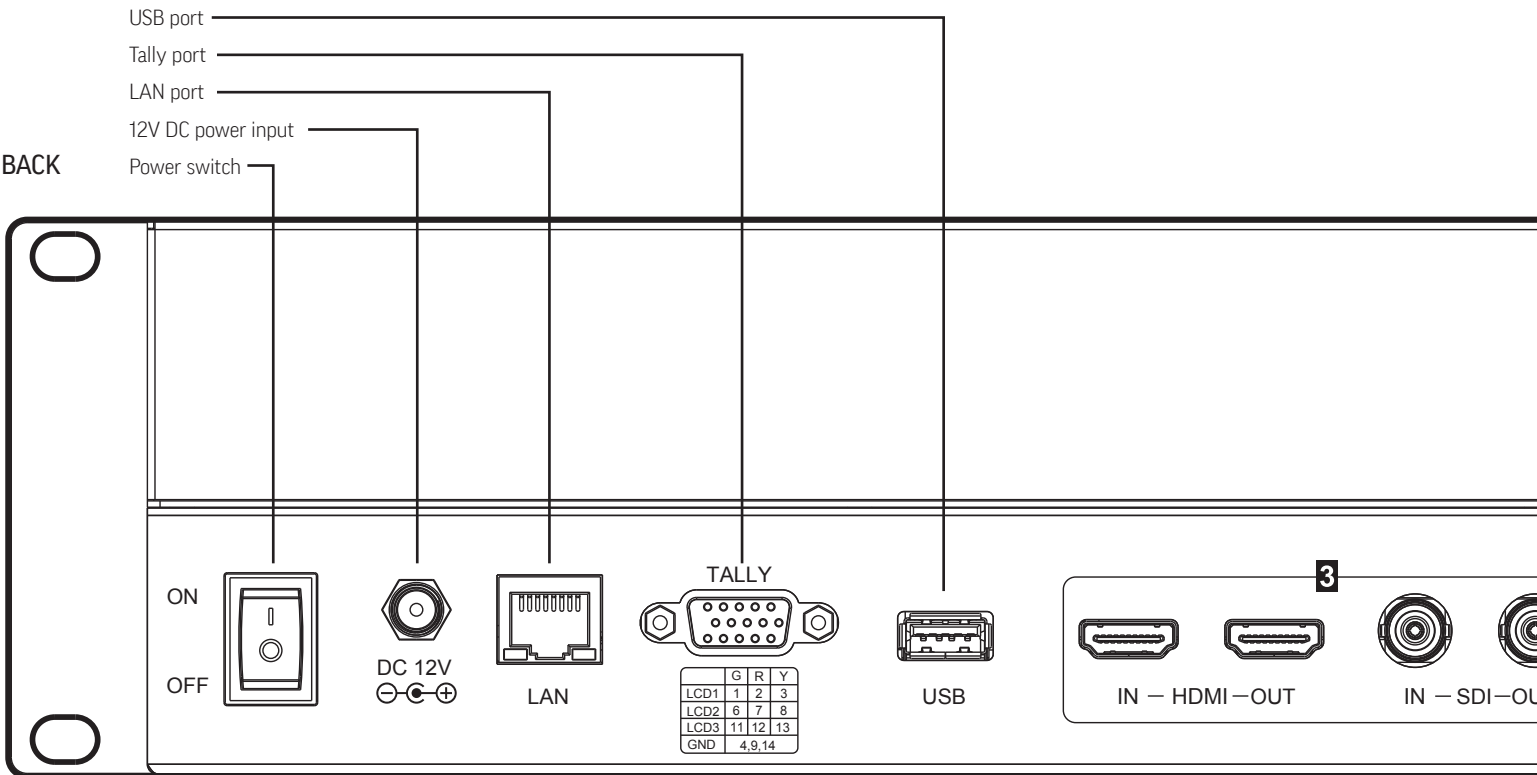
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OVERVIEW

FRONT

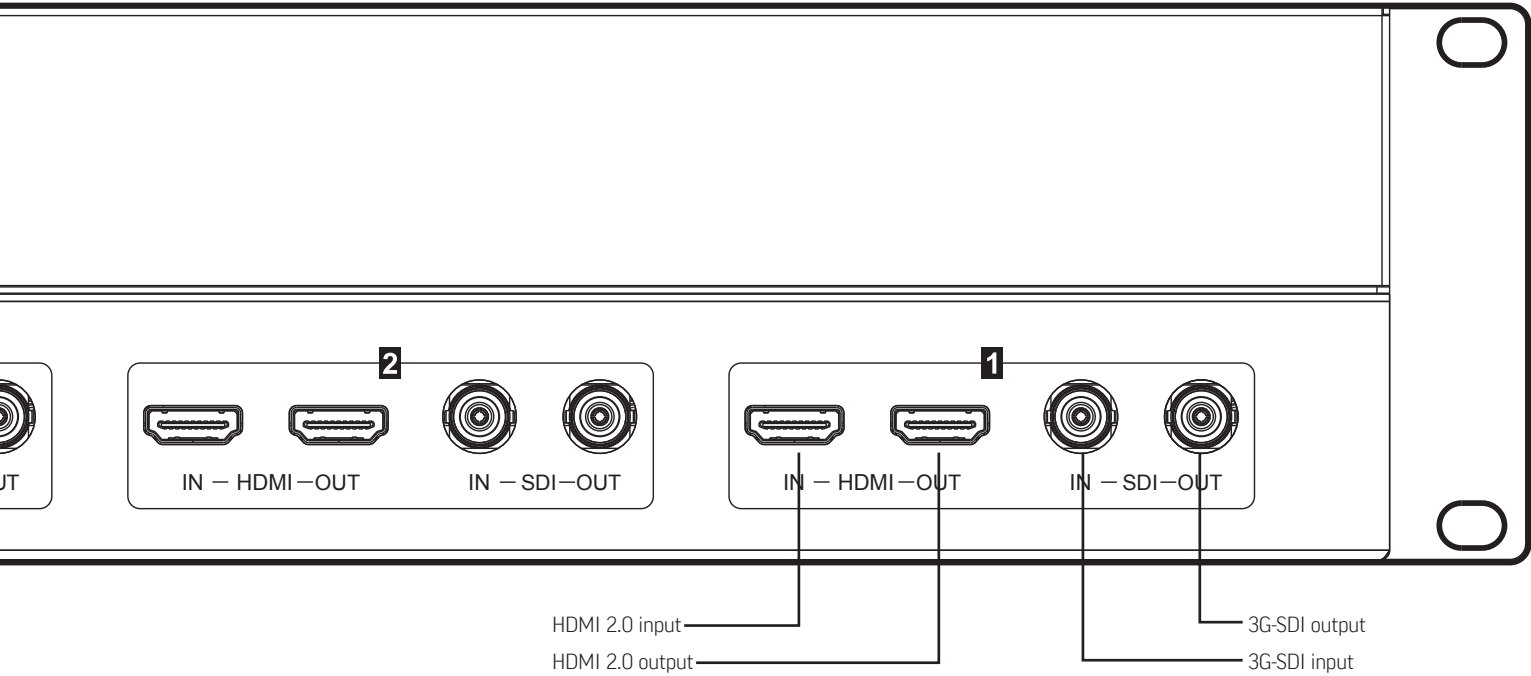
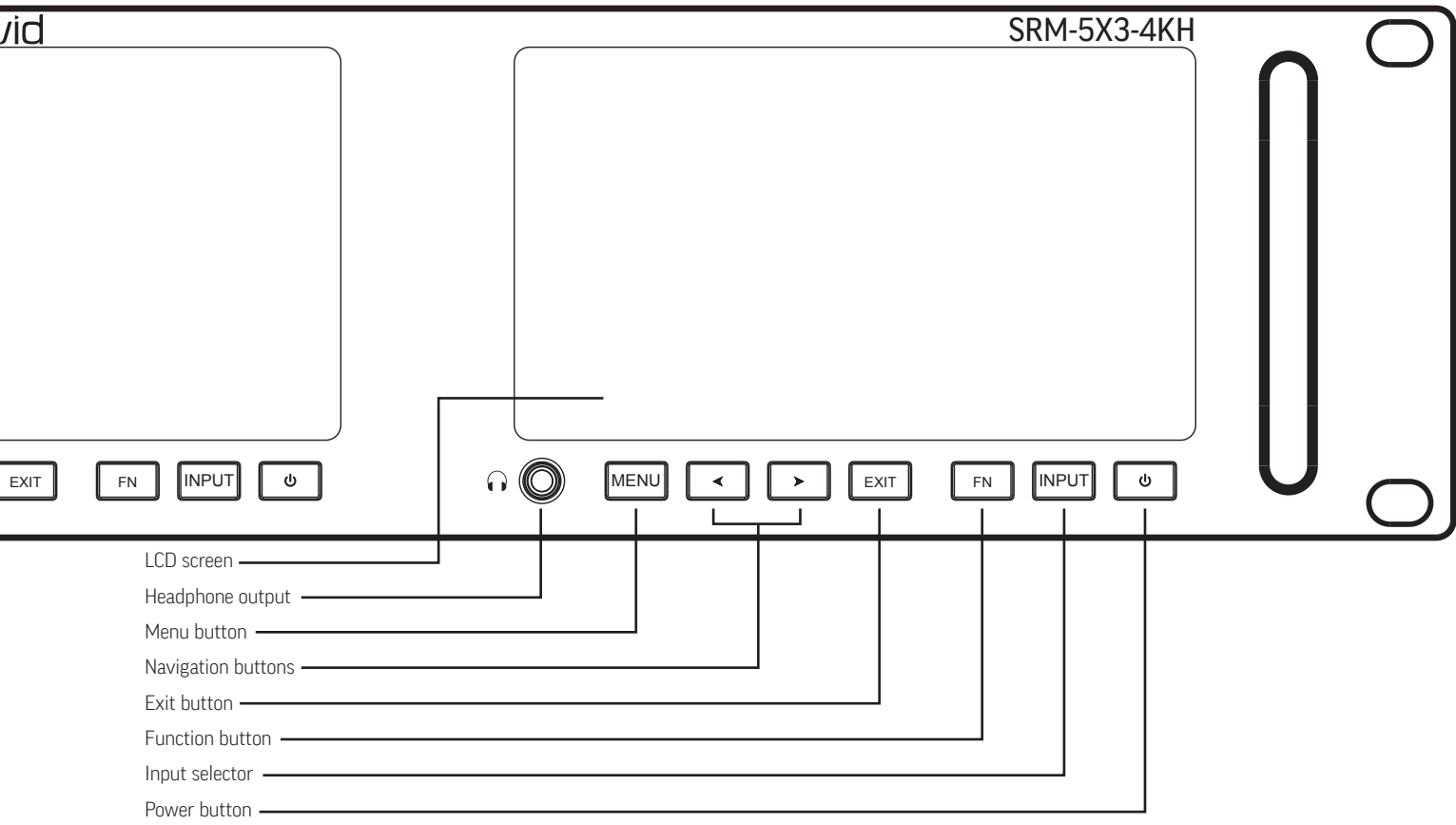


BACK



ALSO INCLUDED

- Power adapter
- Tally wiring harness



SETTING UP THE STUDIOVISION RACKMOUNT MONITOR

MOUNTING THE MONITOR

The StudioVision Rackmount Monitor fits into any standard 19-inch machine rack and takes up two standard rack spaces (2U).

Use standard 10-32 or M6 rack screws to attach the monitor into the rack at all four corners.

INPUT SIGNAL

The three monitors can simultaneously display different video signals or use loop-through outputs to display the same signal on both monitors.

Connect the video source to an SDI or HDMI input. Once the monitor is powered on, the picture is immediately visible. The StudioVision monitor's image processor automatically scales the signal to fit the screen.

Attach three separate sources to each monitor:

Plug HDMI sources into the HDMI inputs 1, 2, and 3 on the rear panel.

Plug SDI sources into the SDI inputs 1, 2, and 3 on the rear panel.

View a Single Source on All Monitors:

Use one monitor to view the input video, and the others to display selected scopes. Or view the signal with different overlays on each screen.

Connect the monitor 1 HDMI or SDI output to the monitor 2 input. Then connect the monitor 2 output to the monitor 3 input.

Important! The SRM-5X3-4KH does not support cross conversion.
The HDMI OUT plug will not output an SDI signal.
The SDI OUT connector will not output an HDMI signal

OUTPUT SIGNAL

The HDMI and SDI outputs will send unmodified video signals corresponding to their respective inputs to any downstream video equipment.

Use the outputs to daisy-chain several StudioVision Rackmount monitors.

The outputs will send an unmodified signal to downstream gear like recorders and monitors.

AUDIO

The StudioVision monitor accepts 8 channels of audio. The headphone output for each side can be set to monitor a different stereo pair of its incoming signal.

Note: The headphone jack only outputs the audio from its monitor's incoming signal. The audio signal does not loop unless the HDMI or SDI signal is looped to the other monitor.

USB PORT

User-defined LUTs can be imported via the USB port and stored in the User1–User6 options.

User-defined LUTs must be in .cube format, 3D size must be 17×17×17 or 33×33×33, and data and table order must be RGB. For the monitor to recognize them, they must be named User1, User2, User3, User4, User5, or User6 and placed in the root directory of the drive.

Connect a computer to the USB port on the rear panel to apply firmware updates from Elvid when available. Firmware updates are posted on the download page at www.elvidcinema.com.

CONNECTING TO A NETWORK

Connect the StudioVision triple monitor to a LAN via the Ethernet port on the rear panel.

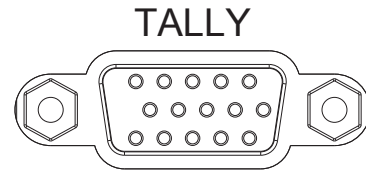
The StudioVision monitor uses DHCP to obtain the IP address from the network.

To manually assign an IP address to the StudioVision, see DHCP and IP Address in System Menu below.

TALLY

The tally connector accepts signals from switchers and automation systems, and you can use the StudioVision monitor to indicate the signal's status for on-air, preview, or broadcast applications. When connected, the tally system will place a border around the active signal.

Refer to the Tally diagram, and your switcher or automation system documentation to correctly wire the included tally connector for compatibility.



	G	R	Y
LCD1	1	2	3
LCD2	6	7	8
LCD3	11	12	13
GND	4,9,14		

USING THE STUDIOVISION RACKMOUNT MONITOR

POWERING ON

Plug the power supply into an outlet and into the power input on the rear panel.

Press the power switch on the rear panel. If necessary, press the power button for each monitor.

When you turn on the screens for the first time, an audio monitor, histogram, vector scope, and RGB waveform scope will appear on-screen.

To customize the screen appearance, you can turn these features off or modify them by accessing the menus described below.

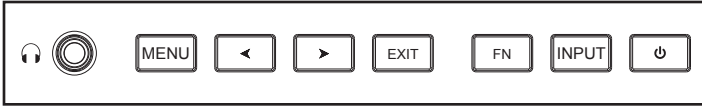
ACCESSING THE MENUS

To get the most out of the monitor, make sure the monitor's settings are properly configured. All the setting configurations are done in the six main menus: Picture, Marker, Function, Waveform, Audio, and System.

MENU NAVIGATION

1. Press the MENU button to enter the main menu, and press the ◀ and ▶ buttons to scroll through the six categories.
2. Press the MENU button to select one of the menus and enter the sub menu list. Press the ◀ and ▶ buttons to scroll through the sub menu.
3. Press the MENU button to select the sub-menu function. Press the ◀ and ▶ buttons to adjust its value.
4. Press the MENU button to confirm the value.
5. Press the EXIT button to return to the main menu. Press the EXIT button again to exit the main menu and return to the main screen.

QUICK ADJUSTMENTS



When the monitor is powered on, you can make quick adjustments to the volume and input settings at any time.

- Press the ◀ and ▶ buttons to activate the volume menu and change the volume.
- Press the INPUT button to switch between HDMI and SDI input signals.
- Press the EXIT button to return to the main screen.

INPUT BUTTON

Press the INPUT button to toggle between HDMI and SDI input signals.

FUNCTION BUTTON

The user-definable FUNCTION button engages monitor functions you can program to accommodate your specific needs. See Function Button Setup below for information on changing the function assignment.

By default, the FUNCTION button is set to Peaking. Press to toggle the peaking feature.

FUNCTION BUTTON SETUP

To change the functions assigned to the FN button, follow these steps:

1. Press and hold the FN button until the function select menu appears on-screen.
2. Press the ◀ and ▶ buttons to move through the options until you arrive at the desired function, and press the MENU button to save it and return to the main screen.

Menu options for the function buttons are:

Center Marker	Gamma	Exposure
Aspect Marker	Camera LUT	Histogram
Safety Marker	Check Field	Full Mode
Overscan	H/V Delay	Waveform
Scan	Freeze	Vector
Aspect	Color Bar	Timecode
HDR	Peaking	Mute
Color Space	False Color	Level Meter

When a function is assigned to the function button, press the FN button repeatedly to scroll through the available options for that function.

RESETTING THE STUDIOVISION RACKMOUNT MONITOR

To erase all settings and return to the factory presets, follow these steps:

1. Press the MENU button to open the main menu.
2. Scroll down to the System menu and press MENU.
3. In the System menu, scroll down to Reset, and press the MENU button to activate it.

If you're ready to reset the monitor, press the ◀ or ▶ button to select on. The monitor takes a few seconds to reset and return to the main view.

PICTURE MENU

BRIGHTNESS

Adjusts the monitor's brightness value from 0 to 100. The default setting is 50.

CONTRAST

Adjusts the contrast value of the on-screen image from 0 to 100. The default setting is 50.

SATURATION

Adjusts the value of screen color saturation from 0 to 100. The default setting is 50.

SHARPNESS

Adjusts the value of fine detail of the picture from 0 to 100. The default setting is 0.

COLOR SPACE

Selects the color space that's appropriate for your project. Choose Native (default), SMPTE-C, Rec709, or EBU.

CAMERA LUT

Activates either the Default LUT menu or the User LUT menu. The default setting is off.

DEFAULT LUT

Available only when Default is selected in the Camera LUT menu. When Default is activated, select from the list of LUTs that are built into the monitor.

Select from:

SLog2ToLC-709 (default)	ArriLogCToP3DCI
SLog2ToLC-709TA	CLogTo709
SLog2ToSLog2-709	VLogTo709
SLog2ToCine+709	JLogTo709
SLog3ToLC-709	JLogTo709HLG
SLog3ToLC-709TA	JLogTo709PQ
SLog3ToSLog2-709	and Z7 NLogTo709
SLog3ToCine+709	D780 NLogTo709 (only when
ArriLogCTo709	HDR is off)

USER LUT

Available only when User is selected in the Camera LUT menu. When User is activated, import up to six user-defined LUTs via the USB port and store them in the User1–User6 options.

User-defined LUTs must be in .cube format, 3D size must be 17×17×17 or 33×33×33, and data and table order must be RGB. For the monitor to recognize them, they must be named User1.cube, User2.cube, User3.cube, User4.cube, User5.cube, or User6.cube, and placed in the root directory of the drive.

GAMMA

Select one of the preset gamma points. The Gamma menu can be accessed only when HDR is set to off.

Select off, 1.8, 2.0, 2.2 (default), 2.35, 2.4, 2.6, or 2.8.

BACK LIGHT

Adjusts the intensity of the backlight from 0 to 100. The default setting is 100.

HDR

Select one of the (HDR) presets. Choose off (default), ST 2084 300, ST 2084 1000, ST 2084 10000, or HLG.

COLOR TEMPERATURE

Adjusts the color temperature of the on-screen image. Presets are 6500 (default), 7500, 9300, and User. When User mode is selected, the values of red, green, and blue gain can be set manually from 0 to 255, and are preset to 128. Red, green, and blue offset can be set manually from 0 to 511 and are preset to 256.

MARKER MENU

CENTER MARKER

Turning on the center marker places a crosshair at the center of the screen. The preset is set to off.

ASPECT MARKER

Sets the on-screen aspect marker display. Select from:

16:9	3:2	2.0X MAG
1.85:1	1.3X	and off (default)
2.35:1	1.5X	
4:3	2.0X	

SAFETY MARKER

Displays an on-screen safety frame marker. Select from 95%, 93%, 90%, 88%, 85%, 80%, and off (default).

MARKER COLOR

Changes the color of the on-screen markers. Choose from color options white (default), black, red, green, and blue.

ASPECT MAT

Available only when an aspect ratio is selected from the Aspect Marker menu. Adjust the darkness of the area of the screen that's outside the aspect marker. Choose from 1 to 7 (lightest to darkest), or off (default).

THICKNESS

Adjusts the thickness of the on-screen markers. Choose 1 to 7 (thinnest to thickest). The default setting is 2.

FUNCTION MENU

SCAN

Determines how the image is displayed based on the settings in the Aspect and Zoom menus below. Selecting Aspect (default) or Zoom activates the Aspect or Zoom menus. Selecting Pixel-to-Pixel turns off scaling and displays the incoming video signal in its native resolution and aspect ratio with 1:1 pixel mapping.

ASPECT

Available only when Aspect is selected in the Scan menu. Adjusts the aspect ratio of the incoming video signal and how it is displayed on-screen. Available settings are:

Full (default)	4:3	2.0X
16:9	3:2	and 2.0X MAG.
1.85:1	1.3X	
2.35:1	1.5X	

OVERSCAN

If there is a blank area around the active image, turn on this feature so the active video area fills the screen. The default is set to off.

H/V DELAY

H/V delay mode highlights the horizontal and vertical blanking portions of the incoming signal. Select from three delay modes. H mode delays the horizontal sync. V mode delays the vertical sync. H/V mode delays both horizontal and vertical sync. The default setting is off.

CHECK FIELD

When Check Field mode is on, only the selected color information from the incoming video signal will appear on-screen. Check Field mode is useful for calibrating the monitor. Select red, green, blue, mono, or off (default).

ZOOM

Available only when Zoom is selected in the Scan menu. Scales the incoming video signal. Select 10% to 90%. The default value is 50%.

FREEZE

Selecting on freezes the on-screen image. Selecting off returns to the live video feed.

WAVEFORM MENU

FULL MODE

Displays a waveform scope on the full screen. Select off (default) Y, YCbCr, RGB, Vector, Histogram, or Audio.

WAVEFORM

Select from RGB (default), off, Y, and YCbCr.

VECTOR

Places a vector scope that measures the color information in a video image. Select on (default) or off.

TRANSPARENCY

Adjusts the level of transparency of the on-screen scopes and meters. Select 25%, 50% (default), or off (opaque).

PEAKING

Turning on peaking adds a color outline to high-contrast areas of the image, highlighting areas that are in focus. Default is set to off.

PEAKING COLOR

When the Peaking menu is activated, select the color of the peaking feature's outline. Choose between red (default), green, blue, white, or black.

PEAKING LEVEL

Adjusts the peaking feature's outline intensity from 1 to 100. The default value is set to 50.

FALSE COLOR

Replaces the true colors of the image with a standard set of colors that represent exposure levels. Choose between Default, Spectrum, ARRI, and RED. The default value is off.

FALSE COLOR TABLE

Displays an on-screen chart that represents exposure levels. The higher—or hotter—the exposure, the higher the color will be in the chart. The false color table can be placed on-screen only when the False Color menu is set to on.

EXPOSURE

Turning on displays animated black and white stripes through areas of the image that are overexposed.

EXPOSURE LEVEL

Adjusts the exposure level intensity from 50 to 100 IRE (default).

HISTOGRAM

Indicates the overall level of exposure from light to dark. The on-screen meter shows the percentage of the image at a particular exposure level. Select Y (default), RGB, or Color modes.

TIMECODE

Timecode display is available only in SDI mode. Choose between LTC, VITC, and off (default).

AUDIO MENU

VOLUME

Adjust the headphone volume from 0 to 100. The default volume is set to 50.

LEVEL METER

Activate to display an on-screen meter so you can monitor the level of up to 8 audio channels. The default setting is on.

AUDIO CH

Selects the stereo pair that's monitored in the headphones. Select CH1 & CH2 (default), CH3 & CH4, CH5 & CH6, or CH7 & CH8.

SYSTEM MENU

LANGUAGE

Sets the on-screen language display to English (default) or Chinese.

COLOR BAR

Displays color bars on-screen. Set luminance to 100%, 75%, or off (default).

OSD TIMER

Set the length of time the on-screen menu is displayed. Select 10 (default), 20, or 30 seconds.

OSD H POSITION

Adjusts the horizontal position of the on-screen menu from 0 to 100 (left to right). The default value is 50.

OSD V POSITION

Adjusts the vertical position of the on-screen menu from 0 to 10 (top to bottom). The default value is 50.

COLOR CALIBRATION

Recommended for advanced users only. Activating color calibration allows you to load a monitor calibration LUT via the USB port. Choose on (default) or off.

COMPARISON EN

Displays a split screen comparison of the image altered by the color space or LUT settings and the unmodified image. Choose Gamma/HDR, Color Space, Camera LUT, or off (default)

DHCP

The switcher automatically receives IP address information if a DHCP server is on the network.

IP ADDRESS/SUB. MASK/GATEWAY

When DHCP is turned off, you can manually enter new settings for the IP address, subnet mask, and gateway. Press the MENU button to select each value, and use the ◀ and ▶ buttons to scroll to the value. Press MENU again to set the value and move to the next number.

RESET

Resets the monitor to the factory default settings and removes any loaded LUTs.

SUPPORTED RESOLUTIONS AND FRAME RATES

HDMI 2.0		3G-SDI		
480i (59.94)	SD	525	59.94i	
480i (60)		625	50i	
576i (50)	HD (1280×720)	720	50p	
480p (59.94)		720	59.94p	
480p (60)		720	60p	
576p (50)		720	23.98p	
720p (23.98)		720	24p	
720p (24)		720	25p	
720p (25)		720	29.97p	
720p (29.97)		720	30p	
720p (30)		HD (1920×1080)	1080	50i
720p (50)			1080	59.94i
720p (59.94)	1080		60i	
720p (60)	1080		23.98p	
1080i (50)	1080		23.98sF	
1080i (59.94)	1080		24p	
1080i (60)	1080		24sF	
1035i (59.94)	1080		25p	
1035i (60)	1080		25sF	
1080p (23.976)	1080		29.97p	
1080p (23.98)	1080		29.97sF	
1080p (24)	1080		30p	
1080p (25)	1080		30sF	
1080p (29.97)	3G-Level A (1920×1080)		1080	50p
1080p (30)			1080	59.94p
1080p (50)			1080	60p
1080p (59.94)	3G-Level B (1920×1080)	1080	50p	
1080p (60)		1080	59.94p	
3840×2160 (24)		1080	60p	
3840×2160 (25)				
3840×2160 (30)				
3840×2160 (50)				
3840×2160 (60)				

SPECIFICATIONS

DISPLAY

Panel Type	IPS-Type LCD (×3)
Display Size	5 × 3 in. (12.7 × 7.6 cm)
Display Resolution	1920 × 1080
Aspect Ratio	16:9
Viewing Angle	Horizontal: 160° Vertical: 160°
Touchscreen	No
Maximum Brightness	450 cd/m ²
Contrast Ratio	1000:1
Pixel Pitch	0.057075 × 0.057075 (H × V)
Bit Depth	16.7 M (8-bit)
Pixels Per Inch (ppi)	445 ppi
Response Time	45ms (max.)
Finish	Matte black
Color Gamut	95% NTSC
Real-Time LUT Monitoring	Yes
Image Controls	False Color, Focus Peaking, Histogram, Overscan, Vectorscope, Waveform, Zebra

I/O

Video	BNC (3G-SDI) Output (×3) HDMI 2.0 Type A Output (×3) BNC (3G-SDI) Input (×3) HDMI 2.0 Type A Input (×3)
Embedded Audio	HDMI SDI
Audio	1/8 in. (3.5 mm) headphone output (×3)
Built-in Speaker	No
Power	Barrel input (coaxial)
Other I/O	USB Tally (DE-15) LAN (RJ45)
Card Slot	No
Wi-Fi	No

POWER

Input Power	7 to 24 V DC
Battery Type	None
Power Consumption	≤27 W

MOUNTING

Rack Form Factor	2U
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ENVIRONMENTAL

Operating Temperature	32°F to 122°F (0°C to 50°C)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)

GENERAL

Dimensions	19 × 4.6 × 3.5 in. (483 × 117 × 89 mm)
Weight	5 lb. (2.3 kg)

TROUBLESHOOTING

Problem	Solution
The StudioVision will not turn on.	<ul style="list-style-type: none">• Make sure the AC adapter is fully plugged in, and the AC power source is reliable.
The StudioVision is turned on, but there is only a black and white image.	<ul style="list-style-type: none">• Check whether the color saturation is properly configured.• Make sure the Check Field mode is disabled.
The StudioVision is turned on, but there is no on-screen image.	<ul style="list-style-type: none">• Check your cables to make sure they are properly connected.• Make sure your cables are securely plugged into the correct input.• Make sure the video resolution and frame rate are supported by the monitor. See the <i>Supported Resolutions and Frame Rates</i> table in this manual.• Check your cables to make sure they are reliable.
The StudioVision is not receiving a video signal.	<ul style="list-style-type: none">• Check your cables to make sure they are properly connected.• Check your cables to make sure they are reliable.• Make sure your cables are securely plugged into the inputs.
A "no signal" or "not supported" message is displayed on-screen.	<ul style="list-style-type: none">• Make sure the video resolution and frame rate are supported by the monitor. See the <i>Supported Resolutions and Frame Rates</i> table in this manual.
The on-screen image size is not correct.	<ul style="list-style-type: none">• Make sure the Overscan and Pixel-to-Pixel (under the SCAN menu) modes are disabled.• Check whether the aspect ratio is set correctly.
There's no sound in the headphones.	<ul style="list-style-type: none">• Make sure the headphones are properly connected and plugged into the correct headphone output.• Make sure the volume is turned up.• Make sure the correct stereo pair is selected in the Audio Channel menu.

ONE-YEAR LIMITED WARRANTY

This Elvid product is warranted to the original purchaser to be free from defects in materials and workmanship under normal consumer use for a period of one (1) year from the original purchase date or thirty (30) days after replacement, whichever occurs later. The warranty provider's responsibility with respect to this limited warranty shall be limited solely to repair or replacement, at the provider's discretion, of any product that fails during normal use of this product in its intended manner and in its intended environment. Inoperability of the product or part(s) shall be determined by the warranty provider. If the product has been discontinued, the warranty provider reserves the right to replace it with a model of equivalent quality and function.

This warranty does not cover damage or defect caused by misuse, neglect, accident, alteration, abuse, improper installation or maintenance. EXCEPT AS PROVIDED HEREIN, THE WARRANTY PROVIDER MAKES NEITHER ANY EXPRESS WARRANTIES NOR ANY IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This warranty provides you with specific legal rights, and you may also have additional rights that vary from state to state.

To obtain warranty coverage, contact the Elvid Customer Service Department to obtain a return merchandise authorization ("RMA") number, and return the defective product to Elvid along with the RMA number and proof of purchase. Shipment of the defective product is at the purchaser's own risk and expense.

For more information or to arrange service, visit www.elvidcinema.com or call Customer Service at 212-594-2353.

Product warranty provided by the Gradus Group.

www.gradusgroup.com

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GG1