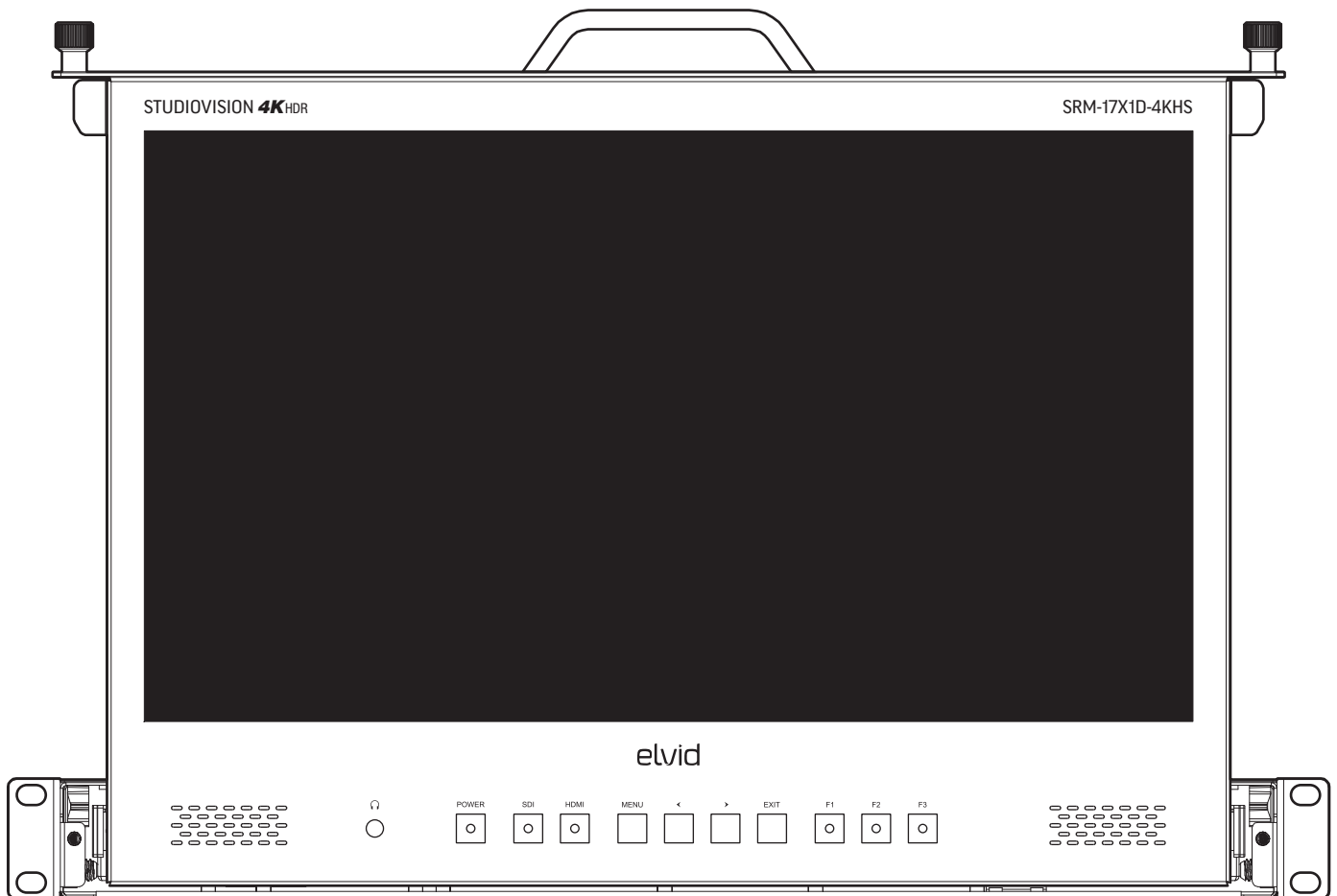


elvid®

STUDIOVISION

SRM-17X1D-4KHS

17.3 in. Rack Drawer Monitor



USER MANUAL



THANK YOU FOR CHOOSING ELVID.

The Elvid SRM-17X1D-4KHS rackmount monitor with HDR support is a 17.3-inch full HD monitor that's ideal for travel, broadcast trucks, and location shoots. When it's not in use, the monitor folds down and slides into a single rack space of a 19-inch machine rack. The LCD panel's native 1920 × 1080 resolution provides a sharp image and facilitates precise color rendering. The monitor features HDMI and SDI inputs and outputs, and its native aspect ratio of 16:9 fits most popular video formats. The monitor has a 170° viewing angle, so no matter where you place it in a studio, location, or broadcast truck, you'll view the picture in crisp detail.

Easy-to-access menus let you select which of the many monitoring and broadcast tools to display on each side. Three assignable function buttons give you the option of placing specific picture adjustment tools at your fingertips. User-supplied 3D 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 monitor supports up to 16 audio channels, and a headphone output allows you to monitor the input signal from any one of the eight stereo pairs.

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.
- Exposure to high sound levels can cause permanent hearing loss. Avoid listening at high volumes for extended periods of time.
- When the monitor is not in the protective case, do not place or store it 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.
- All images are for illustrative purposes only.

BOX CONTENTS

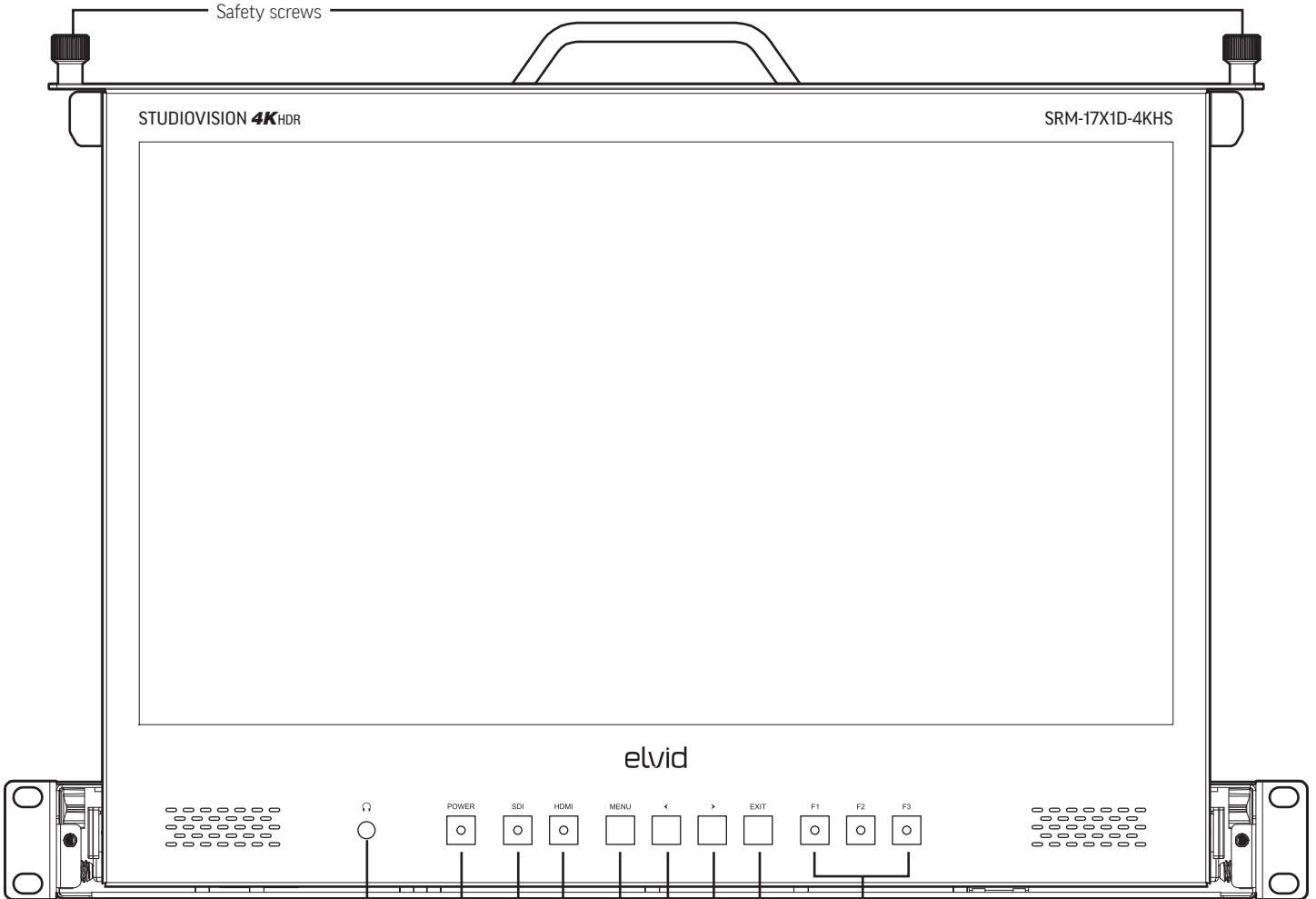
- Elvid StudioVision Monitor
- Power adapter
- Tally adapter

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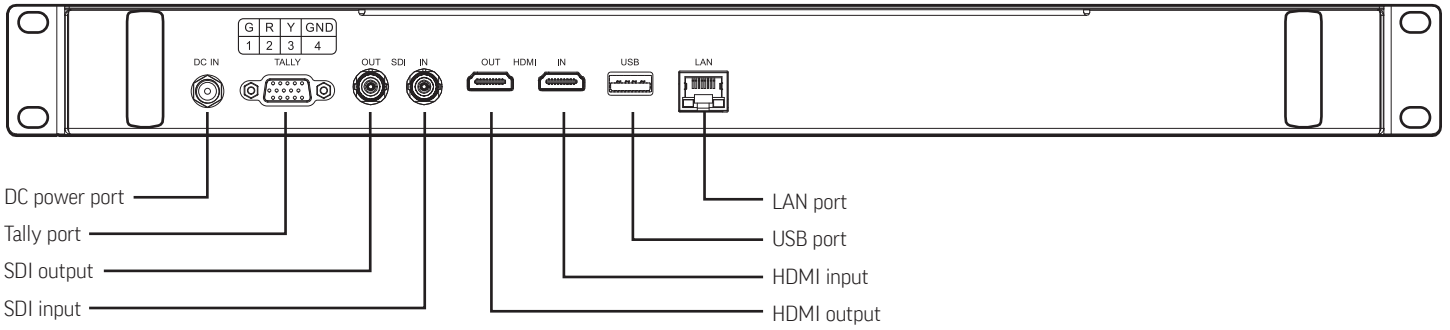
OVERVIEW

FRONT



- Headphone jack
- Power button
- SDI signal selector
- HDMI signal selector
- Menu button
- Function buttons 1-3
- Exit button
- ▶ Navigation button
- ◀ Navigation button

BACK



GETTING STARTED

MOUNTING THE MONITOR

Refer to the machine rack's specifications for maximum weight capacity to ensure it will safely hold the monitor.

Insert the monitor into a standard 19-inch rack with the correct orientation. When extended, the monitor screen should face down and fold upward.

Use standard rack screws to mount the monitor into a 19-inch machine rack.

Important: It's recommended to mount the monitor at the top of the rack. If it's mounted lower down in the rack, make sure the gear that's mounted above it doesn't need to be accessed while the monitor is in use.

To keep the StudioVision monitor secure in the rack and protected from impacts during travel, press in and tighten the safety screws by hand or with a Phillips screwdriver.

INPUT SIGNAL

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

Important: The SRM-17X1D-4KHS does not support cross conversion.

- The HDMI Out connector will not output an SDI signal.
- The SDI Out connector will not output an HDMI signal.

OUTPUT SIGNAL

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

Use the outputs to send the signal to a recorder or to daisy-chain a second monitor and display the same signal on multiple monitors.

AUDIO

The StudioVision monitor supports 16 channels of audio. The headphone output can be set to monitor one of the eight stereo pairs of incoming signals.

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 BGR. 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 monitor to a LAN via the ethernet port on the rear panel.

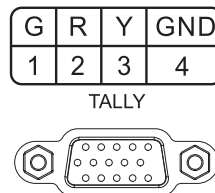
The StudioVision monitor uses DHCP to obtain the IP address from the network.

To manually assign an IP address to the StudioVision, see the explanation of the System/DHCP 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 pin function diagram below, and your switcher or automation system documentation to correctly wire the included tally connector for compatibility.



POWERING ON

Plug the power supply into an outlet and into the power input on the rear panel. Use the locking screw to further secure the power supply connection.

Press the Power button.



FRONT PANEL BUTTONS

Input Selectors: Selects which monitor input is displayed on the screen. The selected button illuminates. If an input with no incoming signal is selected, the screen will display a No Signal notification.

Menu Button: Displays the main menu on the screen. Use the Menu button to select a menu and open its list of submenus.

Left/Right Navigation Buttons (◀ ▶): Scroll through the menu list. When a submenu item is selected, use the navigation buttons to adjust the value.

Press the Menu button to accept changes made in the submenus. See *Menus* below.

Exit Button: Press the Exit button to return to the previous menu list or the main menu. In the main menu, pressing the Exit button returns to the main view.

When you turn on the screen 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.

FUNCTION BUTTONS

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

The function buttons default to the following menus:

- F1: Scan
- F2: Waveform
- F3: Aspect

FUNCTION BUTTON SETUP

To change the functions assigned to Function buttons, follow these steps:

1. Press and hold the function 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.

MENUS

Press the Menu button to open the main menu.

Main menu items are: Picture, Marker, Function, Waveform, Audio, and System. Full descriptions of the menu functions are listed below.

Use the ◀ and ▶ buttons to navigate to the desired menu.

Once the menu item is highlighted. Press Menu to open it. The submenu options will appear.

To close the main menu and return to the main view, press the Exit button.

SUBMENUS

When you enter a submenu, the current value for each option appears on-screen.

1. Scroll to the function you want to adjust, and press Menu.
The submenu and its value will be highlighted.
2. Use the ◀ and ▶ buttons to adjust the value, and press Menu or Exit. The new value will be saved, and you'll return to the submenu.
3. Press Exit to return to the main menu.
4. Press Exit to return to the main screen.

RESTORING THE FACTORY PRESETS

To erase all submenu changes and return to the factory presets:

Press Menu to open the main menu, and scroll to the System submenu. Press Menu again to open the submenu.

Use the ◀ and ▶ buttons to select Reset in the System submenu.

Use the ◀ and ▶ buttons to change the value to Yes, and press the Menu button.

The monitor will take a few seconds to reset and then return to the main view.

PICTURE MENU

BRIGHTNESS

Adjusts the monitor's brightness value from 0-100. The preset value is 50.

CONTRAST

Adjusts the contrast value of the on-screen image, with values from 0-100. The preset value is 50.

SATURATION

Adjusts the screen color saturation from 0-100. The preset value is 50.

TINT

Adjusts the screen tint setting from 0-100. The preset value is 50.

SHARPNESS

Adjusts the fine detail of the picture with values from 0-100. The preset value is 0.

BACK LIGHT

When User is selected in the Back Light Mode menu, the backlight intensity can be set manually from 0 to 100. The preset value is 100.

HDMI EDID (HDMI INPUT SIGNAL ONLY)

Allows the signal source, like a PC or other HDMI device, to recognize this display's resolution for the best compatibility. Select 4K (default), or 2K.

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), SLog2ToLC-709TA, SLog2ToSLog2-709, SLog2ToCine+709, SLog3ToLC-709, SLog3ToLC-709TA, SLog3ToSLog2-709, SLog3ToCine+709, ArriLogCTo709, ArriLogCToP3DCI, CLogTo709, VLogToV709, JLogTo709, JLogTo709HLG, JLogTo709PQ, Z7 NLogTo709, and D780 NLogTo709.

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, and User6.cube, and placed in the root directory of the drive.

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 (preset), 7500, 9300, and User. When User mode is selected,

- 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 1.85:1, 2.35:1, 2.39:1, 4:3, 3:2, Grid, or Off (default).

Select User to adjust the vertical and horizontal borders of your safety markers. Horizontal is preset to 1 and 1920, and vertical is preset to 1 and 1080.

When Grid is selected, the aspect and safety markers cannot be displayed.

SAFETY MARKER

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

When the Aspect marker is displayed, the monitor calculates the safety maker for the selected frame marker.

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), and 4:3.

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), and Off (default).

THICKNESS

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

ANAMORPHIC

Activate anamorphic mode and adjust the level of compression on your image. Available settings are 1.3X, 1.5X, 1.8X, 2.0X, 2.0X MAG, and Off (default).

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 DISPLAY

H/V display 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

In Check Field mode, only the selected color information from the incoming video signal color will appear on-screen. Check Field mode is useful for calibrating the monitor using SMPTE color bars. Select Red, Green, Blue, Mono, or Off (preset).

IMAGE FLIP

Flips the on-screen image on vertical and horizontal axes. Select H, V, H/V, or Off (default)



FULL MODE

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

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.

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

Select On to freeze the on-screen image. Selecting Off returns to the live video feed.

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 in 1-step increments 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), or Off.

TIME CODE

Time code 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 the stereo pairs that's selected in the Audio Channel menu below. 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, CH9 & CH10, CH11 & CH12, CH13 & CH14, or CH15 & CH16.

MUTE

Activates or mutes the headphone output. The default setting is On.

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

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

SERVER IP

Manually sets the server IP address of a connected computer or router. 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.

DHCP

The monitor automatically receives IP address information if a DHCP server is on the network. DHCP is preset to On.

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.

NO SIGNAL MODE

Selects the StudioVision's behavior when no signal is received. Select Normal (default), Shutdown, or Sleep.

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	TFT LCD
Display Size	17.3 in. (44 cm)
Display Resolution	1920 × 1080
Aspect Ratio	16:9
Viewing Angle	Horizontal: 170° Vertical: 170°
Touchscreen	No
Maximum Brightness	300 cd/m ²
Contrast Ratio	800:1
Pixel Pitch	0.1989 (H) × 0.1989 (V)
Bit Depth	6-bit (262K colors)
Pixels Per Inch (ppi)	127
Response Time	30 ms (typical)
Finish	Matte black
Color Gamut	72% NTSC
Real-Time LUT Monitoring	Yes
Image Controls	Waveform, Vector, Peaking, False Color, Exposure, Histogram, Overscan, Anamorphic, Check Field

I/O

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

POWER

Input Power	DC 10~24 V
Battery Type	None
Power Consumption	14 W (12 V)

MOUNTING

Rack Form Factor	1U
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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 (W × D × H)	19 × 1.7 × 20 in. (483 × 44 × 507 mm)
Weight	19.9 lb. (9 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 Supported Resolutions and Frame Rates 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 Supported Resolutions and Frame Rates 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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