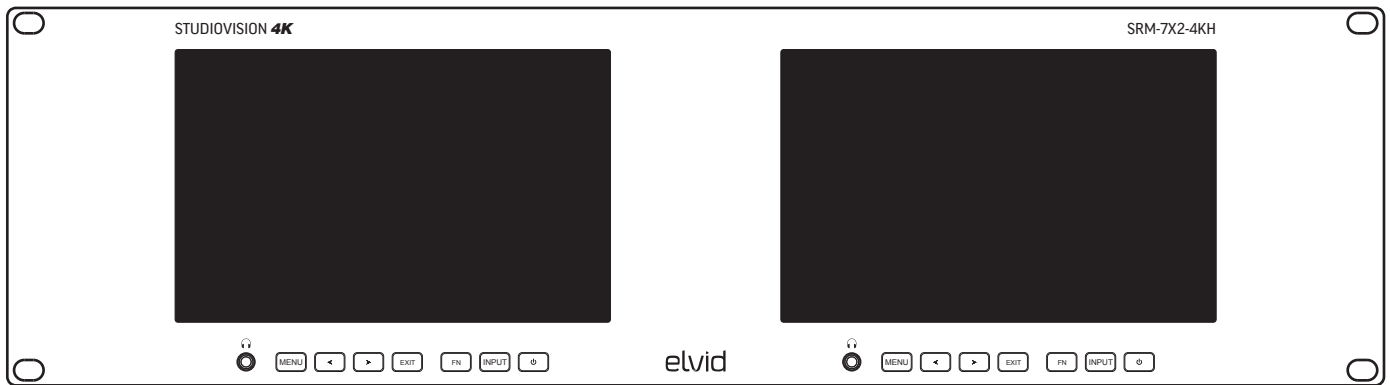


elvid[®]

STUDIOVISION

SRM-7X2-4KH

Dual 7 in. Rackmount Monitors



USER MANUAL



THANK YOU FOR CHOOSING ELVID.

The Elvid SRM-7X2-4KH rackmount monitoring system fits dual 7-inch, full HD monitors into a standard 19-inch machine rack. The LCD panels' native 1920 × 1200 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 16:10 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 dual monitor supports up to 8 audio channels, and headphone outputs for each panel allow you to monitor the sound from either input signal.

PRECAUTIONS

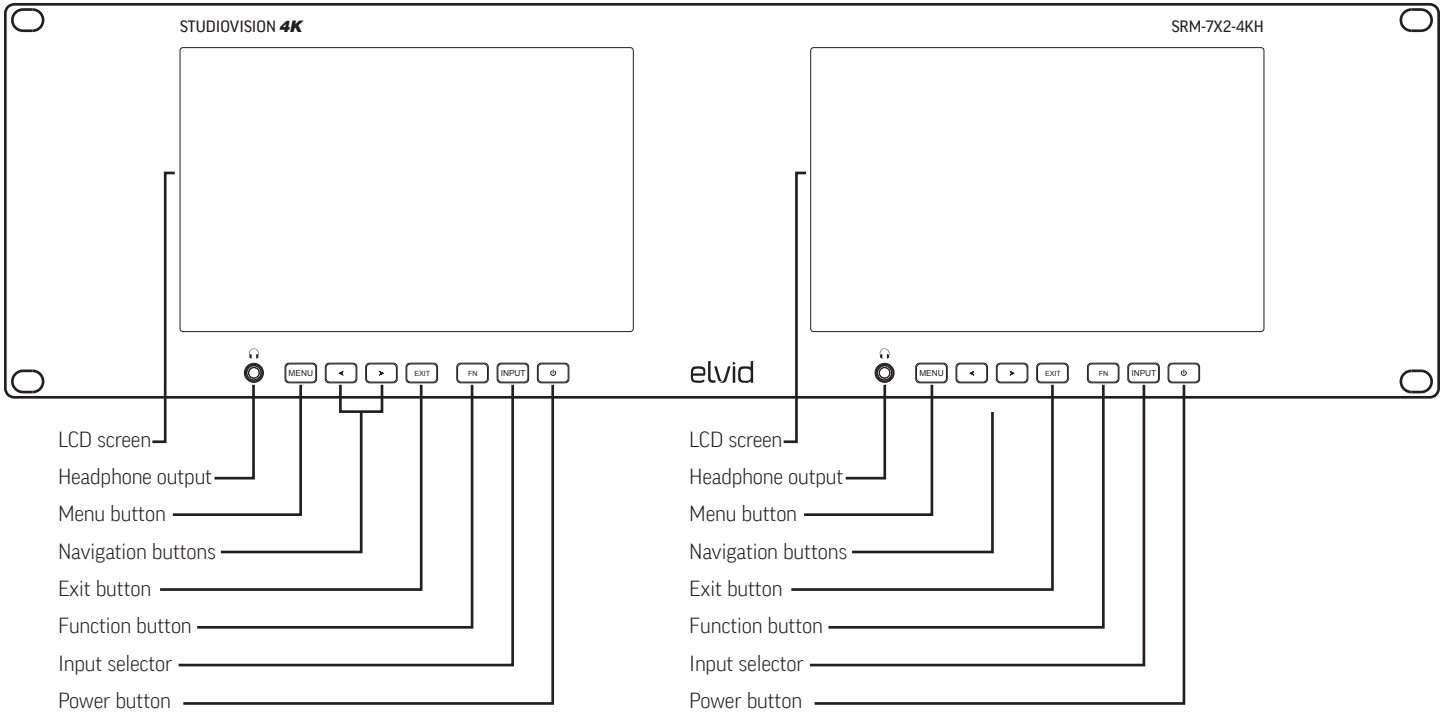
- Exposure to high sound levels can cause permanent hearing loss. Avoid listening at high volumes for extended periods of time.
- Keep this product away from water and any flammable gases or liquids.
- Do not expose this product to humidity or extreme heat or cold.
- Make sure this product is powered 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.
- All images are for illustrative purposes only.

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OVERVIEW

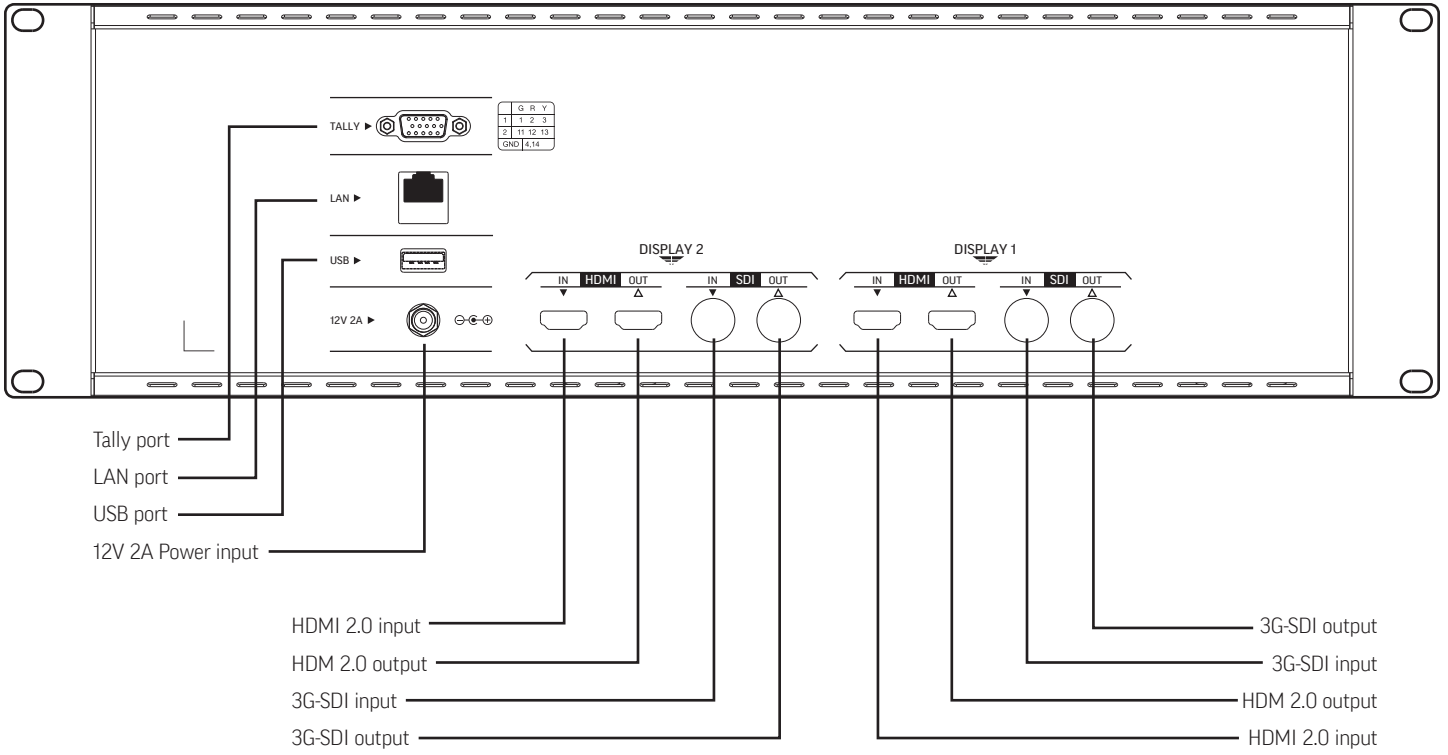
FRONT



ALSO INCLUDED

- Power adapter

BACK



SETTING UP THE STUDIOVISION RACKMOUNT MONITOR

MOUNTING THE MONITOR

The StudioVision Rackmount Monitor fits into any standard 19-inch machine rack and takes two standard rack spaces (3U).

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

INPUT SIGNAL

The dual 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 two separate sources to each monitor:

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

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

OUTPUT SIGNAL

The SDI and HDMI loop outputs on each monitor output the unmodified video signals from their corresponding inputs to downstream equipment.

Important: The SRM-7X2-4KH does not support cross conversion. The HDMI OUT plug will not output an SDI signal.

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 outputs only 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 through User6 options.

User-defined LUTs must be in .cube format, 3D size must be 17×17×17, 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 dual monitor to a LAN via the ethernet port on the rear panel.

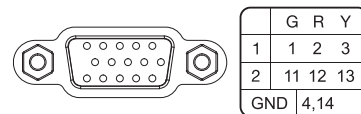
The StudioVision monitor uses DHCP to obtain the IP address from the network.

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.



USING THE STUDIOVISION RACKMOUNT MONITOR

POWERING ON

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

The monitors will turn on when power is connected. After power is connected, turn the monitors off and on using the front panel power buttons.

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

- Use the **MENU** button to select and confirm the menus and functions.
- Use the ◀ and ▶ buttons to navigate the menus and adjust values.
- Use the **EXIT** button to exit the menus.

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.

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 **FUNCTION** button, 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.

Menu options for the function buttons are Center Marker, Aspect Marker, Safety Marker, Overscan, Scan, Aspect, HDR, Camera Log, Check Field, H/V Delay, Freeze, Color Bar, Peaking, False Color, Exposure, Histogram, Full Mode, Waveform, Vector, Time Code, Mute, and Level Meter.

When a function is assigned to the function button, press the **FUNCTION** 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.
4. 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.

TINT

Adjusts the tint value 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.

RGB RANGE

Conforms the monitor with the incoming signal's RGB encoding. Select Limited (default) when the input signal is RGB limited (16-235) and Full for full-range RGB signals (0-255).

HDMI EDID

Communicates the screen dimensions to the video source. Select 2K or 4K. The default setting is 4K.

CAMERA LUT

Activates either the Default LUT menu or the User LUT menu. The default setting is off. Applied LUTs will be sent downstream on active outputs.

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-709TA, SLog3ToSLog2-709, or SLog3ToCine+709, ArriLogCto709, ArriLogCtoP3DCI, CLogTo709, VLogToV709, JLogTo709, JLogTo709HLG, JLogTo709PQ, and Z7NLogTo709.

USER LUT

Available only when User is selected in the Camera LUT menu. When User is activated, you can 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, and data and table order must be RGB. For the monitor to recognize them, they must be named User1, User2, User3, User4, User5, and User6, and placed in the root directory of the drive.

BACK LIGHT

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

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

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 (lightest) to 7 (darkest) and off (default).

THICKNESS

Adjusts the thickness of the on-screen markers. Choose 1 (thinnest), to 7 (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), 16:9, 1.85:1, 2.35:1, 4:3, 3:2, 1.3X, 1.5X, 2.0X, and 2.0X MAG.

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 Y, YCbCr, RGB, Vector, Histogram, Audio, or off (default).

WAVEFORM

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

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 off, default, spectrum, ARRI, or 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.

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.

AUDIO MENU

VOLUME

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

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 100 (top to bottom). The default value is 50.

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. Use the **MENU** and **◀** and **▶** buttons to navigate and set the values, just like the other submenus.

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	29.94p	
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	Dual IPS-Type LCD
Display Size	7.0 in. (17.8 cm)
Display Resolution	1920 × 1200
Aspect Ratio	16:10
Viewing Angle	Horizontal: 160° Vertical: 160°
Touchscreen	No
Maximum Brightness	350 cd/m ²
Contrast Ratio	1200:1
Pixel Pitch	0.02625(H) × 0.07875(V) mm
Bit Depth	8 bit
Pixels Per Inch (ppi)	323
Response Time	22 ms
Finish	Matte black
Color Gamut	50% NTSC
Real-Time LUT Monitoring	Yes
Image Controls	False Color, Focus Peaking, Histogram, Overscan, Vectorscope, Waveform, Zebra

POWER

Input Power	10 to 24 V DC
Battery Type	None
Power Consumption	≤18 W

MOUNTING

Rack Form Factor	3U
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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	18.9 × 5.2 × 1.1 in. (480 × 131.6 × 29.3 mm)
Weight	4.8 lb. (2.2 kg)

I/O

Video	BNC (3G-SDI) Output (×2) HDMI Type A Output (×2) BNC (3G-SDI) Input (×2) HDMI Type A Input (×2)
Embedded Audio	HDMI SDI
Audio	1/8 in. (3.5 mm) headphone output (×2)
Built-in Speaker	No
Power	Barrel input (coaxial)
Other I/O	USB Tally (DE-15) LAN (RJ45)
Card Slot	No
Wifi	No

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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GG3