elvid

RIGVISION

RVM-7B-ALT

7" LIGHTWEIGHT ADVANCED
ON-CAMERA LCD MONITOR

USER MANUAL

INTRODUCTION

Thank you for choosing Elvid. The Elvid RVM-7B-ALT RigVision is a lightweight on-camera LCD monitor with advanced features to help you optimize your image. The RigVision is equipped with an HDMI input with loop-through, plus a composite video input for flexible connectivity. The 7" LED panel's native resolution is 1280 × 800, and you can set the aspect ratio to full screen (16:10), 16:9, 4:3, 1.85:1, or 2.35:1.

The RigVision incorporates onscreen tools including peaking to fine-tune your focus, and zebra exposure indicator, false color display, and histogram to provide visual guidance for achieving precise exposure levels. There are also broadcast-specific features like underscan, safety frame markers, and H/V delay.

There are a variety of options for personalizing the RigVision to suit your specific needs. Choose from a palette of 19 functions from which you can set each of the three function buttons to provide shortcuts for enabling modes and onscreen tools. There's an integrated speaker and a 3.5 mm stereo headphone output for live audio monitoring, plus an onscreen audio meter for checking audio levels as you record.

The RigVision also allows remote shutter release, enabling you to capture still photos via the monitor.

The RigVision contains a variety of power options so you won't have to scramble to power it. Available battery plates and an included adapter plate let you mount common standard camera batteries or, for longer run-times, 3-stud and V-mount batteries. The RigVision also comes with a 12 V DC adapter for powering the monitor via AC power.

PRECAUTIONS

- Please read and follow these instructions and keep this manual in a safe place.
- 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.
- 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 RigVision facedown, since this can damage the screen.
- Handle this product with care. Avoid any unnecessary 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 photos are for illustrative purposes only.
- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

TABLE OF CONTENTS

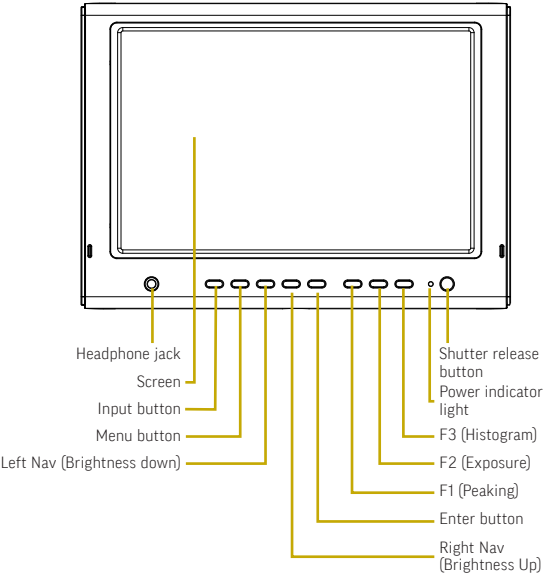
Product Contents 6
Overview 7-8
Powering On and Off 9-12
Using the RVM-7B-ALT 13-14
The Sunshade 15
The Menu 16
Video Settings 17-18
Features Menu 19-20
Settings Menu 21-23
System Menu 24
Function Buttons 25
Shutter Release 26
Specifications 27-28
Supported Resolutions and Frame Rates 29-31
Troubleshooting 32-34
Warranty 35

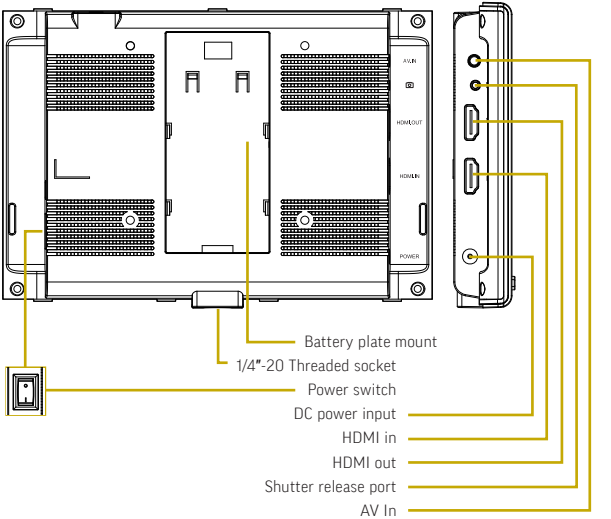
PRODUCT CONTENTS

- 7" Field Monitor
- Sun shade cover
- Sun shade bracket
- Battery plates (MBP-F970/ MBP-LPE6)
- HDMI cable
- Shoe-mount adapter
- 12 V DC adapter
- Adapter panel
- User manual

NOTE: Additional battery plates and/or battery adapters compatible with other popular brands can be purchased by visiting www.elvidcinema.com

OVERVIEW


Headphone jack
Screen
Input button
Menu button
Left Nav (Brightness down)
Shutter release button
Power indicator light
F3 (Histogram)
F2 (Exposure)
F1 (Peaking)
Enter button
Right Nav (Brightness Up)


AV.IN
HDMI.OUT
HDMI.IN
POWER
Battery plate mount
1/4"-20 Threaded socket
Power switch
DC power input
HDMI in
HDMI out
Shutter release port
AV In

POWERING ON & OFF

There are three ways to power the RigVision: AC power, a standard camera battery (see Specifications on page 28 for compatible battery types), and a 3-stud or a V-mount battery.

AC POWER

To power the RigVision via AC power, use the included 12 V DC adapter to connect the RigVision's DC power input to your AC power source.

To turn on the RigVision, press the power switch to the On position.

CAMERA BATTERY

The RigVision has a built-in mount for available battery plates, which accommodate a variety of standard camera batteries. This allows you to power the RigVision with readily-available batteries that you may already own. For more information on compatible battery types, refer to Specifications on page 28. To install a battery plate and a compatible battery, follow these steps:

1. Place the battery plate in the RigVision's battery plate mount. Make sure the plate's bottom contacts are aligned with the contacts in the plate mount.
2. Slide the plate forward until it locks into place.
3. Place a compatible battery in the battery plate. Make sure the battery's bottom contacts are aligned with the contacts in the battery plate.
4. Slide the battery forward until it locks into place.

To turn on the RigVision, press the power switch to the On position.

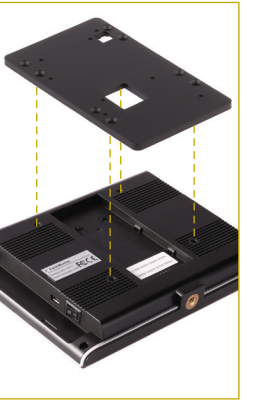
POWERING ON & OFF

3-STUD OR V-MOUNT

The RigVision comes with an adapter panel that lets you mount a 3-stud or a V-mount battery plate onto the back of the monitor. These more powerful batteries provide longer run-time than camera batteries, so you can work for longer periods without having to recharge or change your battery. To install the large battery adapter panel, follow these steps:

1. With the smooth side of the adapter panel facing up, place the panel on the back of the monitor. Depending on preference, it can be fitted horizontally or vertically. Align the leftmost screw holes of the adapter panel with the corresponding screw holes in the back of the monitor. Make sure all four of the monitor's screw holes are aligned with the panel's screw holes. The adapter panel should be seated completely on the monitor and not hanging off to one side.

2. Insert the four included screws into the adapter panel and use a Phillips-head screwdriver to screw them in until fully tightened. Be careful not to overtighten.
3. Refer to your battery plate's instructions to install your battery plate and battery pack.



To turn on the RigVision, press the power switch to the On position.

For more information on compatible battery types, refer to Specifications on page 28.

USING THE RVM-7B-ALT

MONITORING SOUND

You can monitor sound via the integrated speaker or the 3.5 mm stereo headphone jack. To monitor via the headphone jack, plug in a pair of compatible headphones.

MOUNTING THE RIGVISION

Use the 1/4″-20 threaded socket in the RigVision to attach the monitor to your mounting system. Make sure your bracket can support the monitor.

CONNECTING TO YOUR CAMERA

To connect the RigVision to your camera, follow these steps:

1. Choose the desired video input, and use the appropriate cable to connect your camera to the corresponding input connections on the monitor.
2. Press the Input button repeatedly until the correct input appears on the monitor

LOOP THROUGH

The RigVision has HDMI loop-through. To loop the video signal through the monitor, make sure your camera is connected to the HDMI input, and then connect an HDMI cable to the HDMI output connection on the monitor.

THE SUNSHADE

The sunshade prevents glare on the monitor's screen by blocking out stray light, which is useful when shooting outdoors. To attach the sunshade, follow these steps:

1. Mount the sunshade bracket onto the monitor by fitting the bracket's clips into the corresponding notches in the monitor.
2. Press down along the bracket to make sure it's locked into place on both the front and back of the monitor.
3. Align the sunshade cover's touch fastener with the one in the bracket and attach it securely.

THE MENU

Before using the RigVision, make sure the monitor's settings are properly configured. The setting configurations are located in the main menu, which has five submenus: Picture, Onscreen Markers, Features, Settings, and System.

NAVIGATING THE MENU

To access the menu, press the Menu button. The five submenus are located in the left column of the main menu window. Press the left and right navigation buttons to navigate the menu. To make a selection, press the Enter button. Press the Menu button at any point to return to the previous menu or screen.

VIDEO SETTINGS

PICTURE MENU

In the Picture menu, you can adjust Brightness, Contrast, Saturation, Tint, Sharpness, and color temperature.

Except for Color Temp, you can also adjust these settings, as well as contrast and volume, without opening the menu. Press one of the navigation buttons while on the main screen to call up the Brightness adjustment bar, and then press the Menu button to cycle through Brightness, Sharpness, Contrast, Saturation, Volume, and Tint. Use the left and right navigation buttons to adjust levels, and press the Input button to exit.

COLOR TEMP

You can select from the presets 6500, 7300, and 9300 K. You can also configure your own custom setting, which is labeled User in the Color Temp menu. Customizing the color temperature is recommended only for advanced users.

ONSCREEN MARKERS MENU

MARKER ENABLE

Use this option to enable the onscreen markers.

CENTER MARKER

This setting displays a marker in the center of the screen.

ASPECT MARKER

Displays a marker to show the aspect ratio. You can choose 16:9, 4:3, 14:9, 13:9, 15:9, 1.85:1, or 2.35:1. This is useful for framing if you plan on cropping the image to a different aspect ratio in postproduction.

SAFETY MARKER

You can set the RigVision to display an onscreen box as a safety frame marker at a set percentage of the screen size. You can set this to 95%, 93%, 90%, 88%, 85%, or 80%.

MARKER COLOR

Choose the color of the onscreen markers. You can choose red, green, blue, white, or black.

MARKER MAT

When Aspect Marker mode is enabled, the Marker Mat setting adjusts the brightness of the area outside of the marked aspect ratio. You can adjust the brightness from 0 to 6.

THICKNESS

Choose the thickness of the onscreen markers from 1 to 7.

FEATURES MENU

ASPECT RATIO

You can set the aspect ratio for the onscreen image. The options are full screen (16:10), 16:9, 4:3, 1.85:1, and 2.35:1. Full screen will stretch the image to fit the full size of the RigVision's screen, and the other options will scale the image to fit those specific aspect ratios. The default setting is full screen.

H/V DELAY

This mode is recommended only for broadcast professionals. You can set it to H, V, or H & V to display the horizontal, vertical, or combined view of the video blanking interval.

CHECK FIELD

In Check Field mode, just the selected color will appear onscreen. You can select mono, red, green, or blue. In mono, a grayscale image will appear onscreen. Check Field mode is useful for calibrating the monitor.

PIXEL-TO-PIXEL

Use Pixel-to-Pixel mode to turn off scaling and display the incoming video signal in its native resolution and aspect ratio with 1:1 pixel mapping. If the picture is larger than the monitor's 1280 × 800 resolution, the center of the image will appear onscreen.

UNDERSCAN

Underscan shrinks the picture so you can see the entire video image, including the area that is not broadcast-safe. You can turn this mode on or off. The default setting is off, which displays only the broadcast-safe image.

COLOR BAR

Display color bars onscreen.

ZOOM

Zoom into the onscreen image. You can choose ×2, ×4, ×6, or ×8.

IMAGE FLIP

This setting flips the display horizontally, vertically, or both.

FREEZE INPUT

Turning this setting on will freeze the current onscreen image.

PIP

Use PIP, or picture-in-picture mode, to simultaneously display two incoming video signals. In the PIP Mode submenu, you can set the size of the inset picture to small, medium, and large. You can also choose PBP to show the pictures side by side and scaled, with scopes under and above images; or POP to show the pictures side by side and stretched, with scopes on top of images. Use the PIP Position submenu to move the inset picture to different corners of the screen. PIP Swap will switch the inset and main pictures.

DSLR AUX & AUDIO MENU

CAMERA

Camera mode scales the incoming video signal to fill the screen. You can set it to 480p or 1080i. This is useful when shooting on a DSLR.

PEAKING

Peaking is a focus-assist tool that displays an outline around in-focus areas of the image. You can choose mono or color. Mono will display a grayscale image with a colored fringe around the areas that are in focus, and color will display the full-color image with the same colored fringe.

PEAKING COLOR

Choose the color of the fringe that appears around the in-focus areas of the image. You can choose red, green, blue, white, or black.

PEAKING LEVEL

Adjusting the peaking level regulates the RigVision's tolerance for in-focus areas of the image. It can be set in one-step increments from 0 to 100. A higher peaking level means that the monitor is more likely to pick up something in focus and display a colored fringe around it.

FALSE COLOR

This mode replaces the color of the image with set colors (see chart) so you can determine how your image is exposed. The higher—or hotter—the exposure, the closer the colors will be to the top of the chart. As exposure decreases, the color will descend through the chart.

EXPOSURE

Exposure mode displays an animated black and white outline, or zebra exposure indicator, around areas of the image that are overexposed.

EXPOSURE LEVEL

The exposure level sets how close to 100% white, or how bright, a part of the onscreen image has to be before the RigVision will identify it as overexposed and display the zebra exposure indicator around it. It can be set in one-step increments from 0 to 100.

HISTOGRAM

The histogram indicates the level of exposure from light to dark and shows what percentage of the image is at what exposure level.

LEVEL METER

Displays the audio level meter onscreen. You can choose to display it horizontally or vertically.

REFERENCE

This setting lowers the incoming audio signal by -18 or -20 dB to minimize distortion.

LEVEL METER SIZE

Choose the size of the Level Meter. You can choose large or small.

PEAK DECAY TIME

This setting adjusts on a scale of 1 - 11 the decay rate for the Level Meter's peak. The higher the setting is, the faster the decay rate will be.

VOLUME

Adjusts the monitoring volume of the RigVision on a scale of 0 to 100.

SYSTEM MENU

LOGO

Choose whether the Elvid RigVision logo is displayed when the monitor boots up.

LANGUAGE

You can set the onscreen language to English or Simplified Chinese (中文).

MANUFACTURER DEFAULT

Restore the RigVision to the factory default settings. This will erase all current settings and replace them with the default settings. To do this, use the navigation buttons to highlight ON, and then press the Enter button to make a selection.

BACK LIGHT

Adjust the brightness of the backlight from 0 to 100.

ISP

For factory use only–do not select this. If you select this, immediately reboot the RigVision.

FUNCTION BUTTONS

For greater creative control over your images, you can assign unique settings to the three function buttons. The options for customizing the function buttons are Center Marker, Safety Marker, Aspect Marker, Check Field, Color Bar, Aspect Ratio, Camera, PIP, Image Flip, Zoom, Pixel-to-Pixel, Freeze Input, Underscan, H/V delay, Level Meter, Peaking, False Color, Exposure, and Histogram.

To set a function button, follow these steps:

1. Press and hold the function button for approximately three seconds until a menu with a list of options appears on the right-hand side of the screen.
2. Use the left and right navigation buttons to navigate the menu and highlight the desired function.
3. Press the Enter button to select a function.

Press the Menu button at any point to return to the previous menu or screen. When engaged, the function button will glow red.

SHUTTER RELEASE

The shutter release button allows you to trip your camera's shutter to take a still photo.

To use the shutter release button, follow these steps:

1. Use the 2.5 mm end of one of the two included shutter-release cables (one for Canon; the other for Nikon models) to connect the RigVision's shutter release port to your camera's remote shutter-release port. (This feature is typically supported only on higher-end camera models.)
2. Press the RigVision's shutter release button halfway to focus your camera.
3. Fully press the RigVision's shutter release button to release your camera's shutter and take a still photo.

SPECIFICATIONS

MONITOR	
Display	7" LED backlit IPS panel
Aspect Ratio	16:10
Native Resolution	1280×800
Brightness	400 cd/m²
Contrast	800:1
Viewing Angle (H/V)	178°/178°
Inputs	HDMI, composite video
Outputs	HDMI, headphone (3.5 mm stereo)
Input Voltage	7 to 24 V DC
Current	960 mA
Power Consumption	≤12 W

SIZE	
Dimensions	7.3″ × 5.2″ × 0.9″ 18.5 × 13.1 × 2.3 cm
Weight	Monitor: 15.5 oz. (440 g)

BATTERY PLATES	
F-970	Sony NP-F series batteries
LPE6	Canon LP-E6 batteries
DU-21	Panasonic VBG-6 and similar batteries
QM91D	Sony M-series batteries

SINGAL	MODE	SUPPORT
Composite	NTSC	YES
	PAL	YES
YPBPR	480i (59.94)60	YES
	576i (50)	YES
	480p (59.94)60	YES
	576p (50)	YES
	720p (50)	YES
	720p (59.94)	YES
	720p (60)	YES
	1080i (50)	YES
	1080i (59.94)	YES
	1080i (60)	YES
	1080p (23.98)	NO SIGNAL
	1080p (24)	NO
	1080p (25)	NO
	1080p (29.97)	NO SIGNAL
	1080p (30)	NO
	1080p (50)	YES
	1080p (60)	YES
	1080p (23.98sF)	NO SIGNAL
	1080p (24sF)	NO
HDMI	480i (59.94)	YES
	480i (60)	YES
	576i (50)	YES

SINGAL	MODE	SUPPORT
HDMI	480p (59.94)	YES
	480i (60)	YES
	576i (50)	YES
	480p (59.94)	YES
	480p (60)	YES
	576p (50)	YES
	480p (59.94)	YES
	480p (60)	YES
	576p (50)	YES
	720p (23.98)	NO
	720p (24)	NO
	720p (25)	YES
	720p (29.97)	YES
	720p (30)	YES
	720p (50)	YES
	720p (59.94)	YES
	720p (60)	YES
	1080i (50)	YES
	1080i (59.94)	YES
	1080i (60)	YES
	1035i (59.94)	YES
	1035i (60)	YES
	1080p (23.976)	NO
	1080p (23.98)	YES

SINGAL	MODE	SUPPORT
HDMI	1080p (24)	YES
	1080p (25)	YES
	1080p (29.97)	YES
	1080p (30)	YES
	1080p (50)	YES
	1080p (59.94)	YES
	1080p (60)	YES
	1080p (23.98sF)	NO SIGNAL
	1080p (24sF)	NO
	2040 x 1080 (23.98sF)	NO SIGNAL
	2040 x 1080 (24sF)	NO SIGNAL
	2040 x 1080 (23.98p)	NO SIGNAL
	2040 x (24p)	NO SIGNAL

PROBLEM	SOLUTION
The RigVision will not turn on.	• If you are powering the RigVision with a battery, make sure that the battery is fully charged and that the battery plate is properly connected. • If you are powering the RigVision via AC power, make sure that the power and tally cable and the 12 V DC adapter are fully plugged in, and that your AC power source is reliable. Try switching AC power sources. • Make sure the RigVision's power switch is set to the proper power input.
The screen displays only a black and white image.	• Check whether the color saturation is properly configured. • Make sure the Check Field and Peaking modes are disabled.
The RigVision is not receiving a video signal.	• Make sure that the correct input signal is selected. • Check your cables to make sure they are properly connected. • Check your cables to make sure they are reliable.

PROBLEM	SOLUTION
The RigVision is turned on but there is no onscreen image.	• Check your cables to make sure they are properly connected. • If you are powering the RigVision via AC power, use only the supplied 12 V DC adapter. • Make sure the video resolution and frame rate are supported by the monitor. See the Supported Resolutions and Frame Rates chart on page 29-32. • Make sure the monitor's input is set to the proper channel. • Check your cables to make sure they are reliable.
"No signal" or "not supported" is displayed onscreen.	• Make sure the video resolution and frame rate are supported by the monitor. See the Supported Resolutions and Frame Rates chart on page 29-32.
The colors are inaccurate.	• Check your cables to make sure they are properly connected. • Make sure False Color mode is disabled. • Make sure your monitor is properly calibrated. • Check your cables to make sure they are reliable.

PROBLEM	SOLUTION
The colors are inaccurate.	• Check your cables to make sure they are properly connected. • Make sure False Color mode is disabled. • Make sure your monitor is properly calibrated. • Check your cables to make sure they are reliable.
The onscreen image size is incorrect.	• Make sure the Underscan and Zoom modes are disabled. • Check whether the aspect ratio is set correctly.
The RigVision is emitting a high-pitched whine (feedback).	• Turn the monitor's volume all the way down or plug headphones into the headphone jack.
Peaking or exposure levels are not working.	• Check settings to make sure peaking or exposure tolerance levels are set correctly.

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 is provided by the Gradus Group. www.gradusgroup.com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