

elvid®

RIGVISION

RVM-5P-HDR

5" 4K On-Camera HDMI Monitor

**USER
MANUAL**



THANK YOU FOR CHOOSING ELVID.

The compact and lightweight full-HD RVM-5P-HDR is a feature-rich on-camera monitor that delivers extremely sharp images whether you're shooting with a DSLR or a pro camcorder. It boasts a daylight-viewable LCD touchscreen that allows you to access menus and control functions. In addition, a simple double-tap on the screen activates 1:1 pixel mode that offers a view of your video at full resolution. You can zoom in and out of your shot with the same pinch gesture you use with a smartphone or tablet. All the functions and menu items are also accessible with the onboard controls.

The RVM-5P-HDR monitor supports a wide range of video signals and is equipped with HDMI input and output ports. A swing arm is included for mounting onto a gimbal, camera cage, or your camera itself. The monitor is powered by a single NP-F battery, and the battery plate includes an integrated DC output and dummy battery to power your camera.



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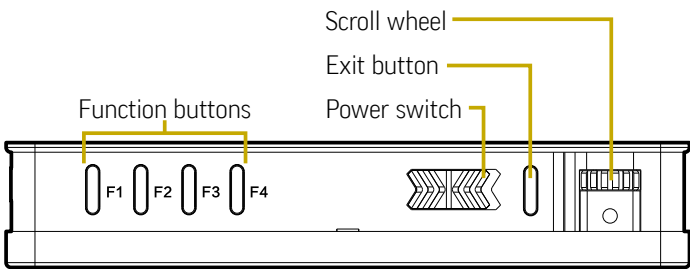
PRECAUTIONS

- 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 RigVision 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.

OVERVIEW



Touch screen



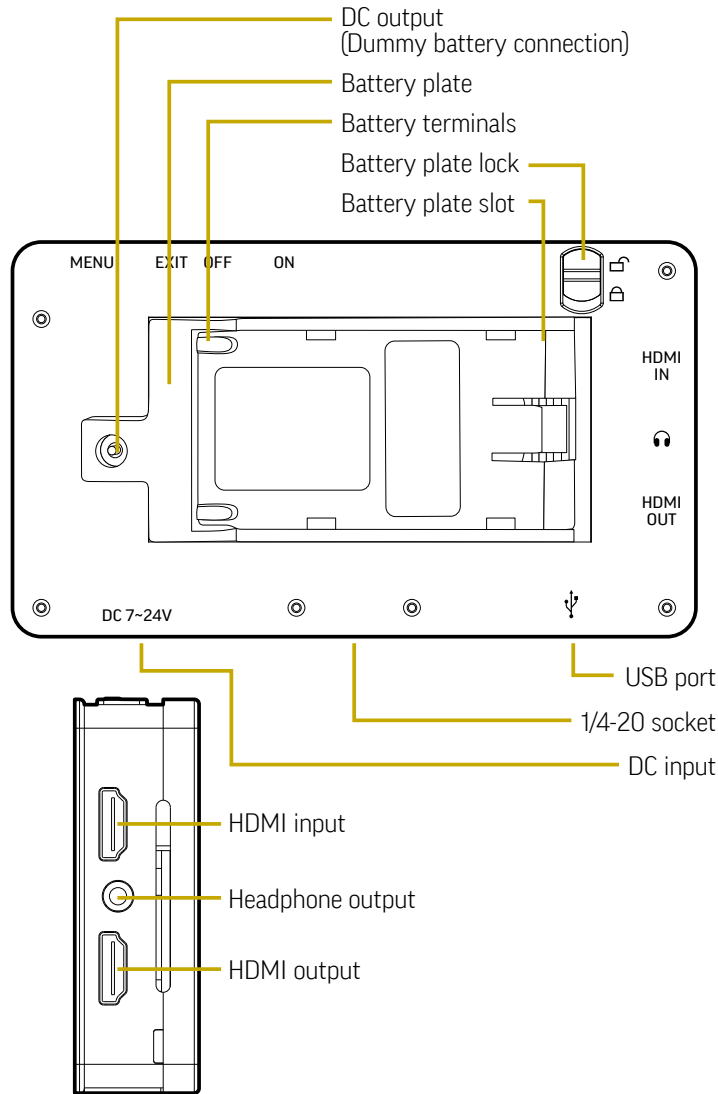
Function buttons

F1 F2 F3 F4

Scroll wheel

Exit button

Power switch



DC output (Dummy battery connection)

Battery plate

Battery terminals

Battery plate lock

Battery plate slot

MENU EXIT OFF ON

HDMI IN

Headphone output

HDMI OUT

DC 7~24V

USB port

1/4-20 socket

DC input

HDMI input

Headphone output

HDMI output

PRODUCT CONTENTS

1. 5 in. on-camera monitor
2. Screen protector
3. Swing arm
4. NP-FW50 dummy battery
5. Cleaning cloth
6. USB drive
7. Battery plate



ATTACHING THE BATTERY PLATE

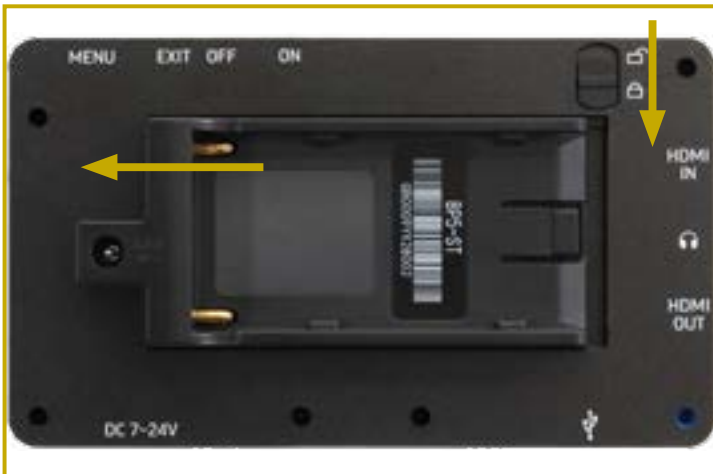
The monitor's built-in battery plate accommodates an NP-F type battery. This allows you to power the monitor with a readily available battery type that you may already own. For more information on compatible battery types, see *Specifications* below.

If the battery plate is already attached to the monitor, proceed to *Installing a Battery* below.

1. Move the battery plate lock to the unlocked position.



2. Place the battery plate into the battery slot, making sure the battery plate contacts and guide tabs match the contacts and tabs in the battery slot.



3. Slide the battery slot toward the contacts until it's snug, and move the locking switch to the locked position.

INSTALLING A BATTERY

1. Place an NP-F style battery into the battery plate, making sure the plate's contacts align with the battery terminals.
2. Slide the battery toward the contacts until it's firmly in place.

POWERING ON

1. Connect the HDMI input to your camera's output with an HDMI cable.
2. Move the Power switch to the on position.

VOLUME CONTROL

Use the scroll wheel to adjust the headphone volume when the menu is not displayed on-screen. The output level is displayed on-screen as you adjust the volume.

POWERING A CAMERA

The battery plate has an integrated DC output that can power your camera via the dummy battery.

Note: The included dummy battery is an NP-FW50 type. Other dummy battery types are available separately.

1. Plug the barrel connector into the DC output on the battery plate.



2. Insert the dummy battery into the camera's battery compartment.

ACCESSING THE MENUS

To get the most out of the monitor, make sure the monitor's settings are properly configured. All of the setting configurations are located in the main menu, which has six submenus: Guides, Video Config, System Config, LUT Config, Function Setup, and Firmware.

1. Press the scroll wheel to open the main menu.
2. Use the main menu to select one of the submenus: Guides, Video Config, System Config, LUT Config, Function Setup, or Firmware.
3. Turn the scroll wheel to navigate to the desired submenu, and press the scroll wheel to open it.

To close the main menu and return to the main view, select Exit at the bottom of the main menu, and press the scroll wheel.

For a list and description of all the menu and submenu options, see the menus sections below.

ACCESSING THE SUBMENUS

1. In the submenu, scroll to highlight the item you want to adjust, and press the scroll wheel.
2. The menu function is surrounded by "< >" marks, which means the submenu is active and can be adjusted.
3. Use the scroll wheel to select the desired value or function.
4. Press the scroll wheel to set the selection.

Selecting Back at the bottom of each submenu returns you to the main menu.

To immediately return to the main view, press the Exit button.

FUNCTION BUTTONS

The four function buttons (F1-4) on the top of the monitor engage monitor functions that can be programmed to accommodate your specific needs. See *Function Button Shortcut Menu* below for information on changing the function assignment for each button.

By default, the function buttons are set as follows:

F1: Audio Meters. Places an audio meter on-screen to monitor the level of incoming audio. Open the Audio Meters menu to change the on-screen position of the meters and the blending, or opaqueness, level.

F2: Peaking. Adds a red outline to any part of the image that is in focus. Open the Peaking meter to adjust the factor (strength) and the outline color.

F3: False Color. Replaces the true colors of the image with a standard set of colors, displayed in an on-screen chart, that represent exposure levels. The higher—or hotter—the exposure, the higher the color will be in the chart. Open the False Color menu to adjust under warning (-10 to 15) and over warning (85 to 110) and to turn the on-screen chart on or off.

F4: HDR (HLG). Turn on HDR (HLG) when monitoring a camera that's recording in Hybrid Log-Gamma format. The function uses the display's luminance range to correctly display an incoming HLG signal. The HDR (HLG) function can be used in tandem with any applied LUT.

Important! The function buttons are active only when the monitor receives a video signal.

- Press the function button to turn the function on and off.
- Press and hold the function button to activate the function's menu. Then use the scroll wheel to select menu options, set values, and exit the menu.

Function Button Setup Menu

To change the functions of the buttons, follow these steps:

1. Press the scroll wheel to open the main menu.
2. Select Function Setup, and press the scroll wheel to open the Function Setup menu.
3. Scroll to the function button you want to change, and press the scroll wheel to activate the menu item.
4. Use the scroll wheel to move through the options until you arrive at the desired function, and press the scroll wheel to save it.
5. Press the Exit button to return to the main view.

Menu options for the function buttons are Audio Meters, 5D II Rec, Pixel to Pixel, HDR (HLG), Brightness, Contrast, Chroma, Sharpness, Tint, Color Temperature, Aspect, Backlight, Camera Control, Display Flip, OSD Flip, Check Field, H/V Display, Guides, Cross Hair, Grids, Peaking, False Color, Zebra, UnderScan, DSLR Scaling, Histogram, and Zooming.

RESETTING THE RVM-5P-HDR

To erase all settings and return to the factory presets:

1. Press the scroll wheel to open the main menu.
2. Select System Config.
3. In the System Config menu, scroll down to System Reset, and press the scroll wheel.
4. If you're ready to reset the monitor, use the scroll wheel to select Yes, and press the scroll wheel to accept the selection.

The monitor takes about 5 seconds to reset and return to the main view.

TOUCH-SCREEN FUNCTIONS

Touch-screen functions are active only when the monitor receives a video signal.

Touch the screen once to bring up the signal status and settings menu and the four function displays.

- Touch any of the functions to turn them on and off.
- Touch the signal status and settings menu to open the main menu.
- Touching a non-menu portion of the screen or pressing the Exit button clears the screen and returns you to the main view.
- Double-tapping the screen turns the pixel-to-pixel function on and off.
- Dragging your finger on the screen repositions the image.

The screen responds to the pinch-and-zoom command similar to a smartphone or tablet.

1. Touch the screen with two fingers, and slowly spread them apart to zoom into the image.



2. Slowly bring your two fingers together to return the screen to the full-screen view.



GUIDES

Adjusts the aspect ratio of the incoming video signal and how it is displayed on-screen. Select between Off (default), 80%, 90%, 15:9, 1.33:1, 1.5:1, 1.85:1, 2:1, 2.35:1, and Custom.

- H (Custom): 100%-1%. Default value is 80%.
- V (Custom): 100%-1%. Default value is 80%.

GUIDE MASKS

(On, off) When turned on, the areas outside the guide are dimmed. The default setting is On.

CROSSHAIR

(On, off) Puts a crosshair at the center of the screen. The default setting is Off.

GRIDS

(Off, 1-10) Creates grids on-screen with 1 to 10 subdivisions. The default setting is Off.

Pressing the Exit button will disable any enabled guides, one at a time.

BRIGHTNESS

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

CONTRAST

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

CHROMA

Adjusts the chroma value of the on-screen image. The default setting is 50.

SHARPNESS

Adjusts the value of fine detail of the picture from 1-100 in increments of 10. The default setting is 30.

TINT

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

COLOR TEMPERATURE

Presets are 5600, 6500 (default), 7500, 9300, and Manual. When User mode is selected, the values of red, green, and blue can be set manually from 0-255. Red, green, and blue are preset to 128.

BACKLIGHT

Adjusts the intensity of the backlight. Options are low, middle, and high (default).

ASPECT

Adjusts the aspect ratio of the incoming video signal and how it is displayed on-screen. Options are User, 16:9 (default), 15:9, 1.33:1, 1.5:1, 1.85:1, 2:1, and 2.35:1.

In User mode, height and width can be adjusted from 50 to 100. The default setting is 100.

OSD LANGUAGE

You can set the on-screen language to English (default) or Chinese.

OSD DURATION

Set the length of time the on-screen menu is displayed. Select 5, 10 (default), 15, 20, 25, or 30 seconds, or off (the menu will be displayed until the user exits the menu).

OSD TRANSPARENCY

Set the menu's level of opacity. You can adjust this setting to low (default), middle, high, and off, with high being the most transparent. The default setting is low, which makes the menu opaque.

MENU SETUP

Recall monitor settings for five different users. Select from User 1 (default) to User 5.

SYSTEM RESET

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

FLIP CONTROL

Display Flip Mode controls the orientation of the on-screen image. Flip the screen vertically or horizontally with the H Flip and V Flip options.

OSD Flip mode controls the orientation of the on-screen display. Flip the menu vertically or horizontally with the H Flip and V Flip options.

BATTERY VOLTAGE DISPLAY

Places an icon in the upper left corner of the screen that displays the remaining battery voltage. Select on (default) or off.

FAN

Sets the level of the internal cooling fan. Options are high, medium (default), and low.

TOUCH CONTROL

Turns the touch control feature on or off.



This menu allows you to apply 17×17×17.cube LUT files to color grade your footage.

STORED FROM USB

Select or switch to a different LUT file that's stored in the monitor's memory.

To delete a LUT file, select the file, and press and hold the scroll wheel until you're prompted to confirm the deletion.

USB LOOKS

Select this option to navigate through the files on a connected USB drive and move LUTs from the USB drive to the monitor.

Press the scroll wheel to select a folder to open or a LUT file to be loaded onto the monitor. Any LUT that is loaded onto the monitor will be immediately enabled. To disable the LUT or select a different LUT that has already been loaded from the USB drive, use the Stored from USB submenu.

Select Return or press the Exit button to go back to the previous folder and exit the USB Looks interface after reaching the root directory.

This menu sets the functions for the four function buttons on the top of the monitor.

Available functions:

AUDIO METERS¹

Displays left- and right-channel audio meters on-screen. Position options are top, left, division, right, and bottom. The default setting is top.

5D II REC

Scales the video output to fit the screen when recording with a 5D Mark II DSLR camera.

PIXEL TO PIXEL¹

Pixel-to-Pixel mode turns off scaling and displays 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 1920 × 1080 resolution, the center of the image will appear on-screen.

HDR (HLG)

Turn on Hybrid Log-Gamma (HLG) format to correctly display the entire dynamic range of an incoming HDR signal that utilizes the Hybrid Log-Gamma luminance map. The HDR (HLG) function can be used with any applied LUT. Options are on or off. The default setting is on.

BRIGHTNESS²

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

CONTRAST²

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

CHROMA²

Adjusts the saturation of the on-screen image. The default setting is 50.

SHARPNESS²

Adjusts the value of fine detail of the picture from 1-100. The default setting is 30.

TINT²

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

COLOR TEMPERATURE²

Adjusts the color temperature of the on-screen image. Presets are 5600, 6500 (default), 7500, 9300, and Manual. When User mode is selected, the values of red, green, and blue can be set manually from 0-255. Red, green, and blue are preset to 128.

ASPECT²

Adjusts the aspect ratio of the incoming video signal and how it is displayed on-screen. Options are User, 16:9 (default), 15:9, 1.33:1, 1.5:1, 1.85:1, 2:1, 2.35:1.

BACKLIGHT²

Adjusts the intensity of the backlight. Options are low, middle, and high. The default setting is high.

CAMERA CONTROL¹

This displays on-screen controls for the selected camera type. Camera options are Canon (default), Sony, Panasonic, BMPCC, Remote, and Z CAM E2. Position options are right (default) and left. The Update USB option allows you to upgrade the firmware of your camera control device using the included USB drive. For more information, see *Camera Control Functions* below.

DISPLAY FLIP

Flips the on-screen image along the horizontal axis.

OSD FLIP

Flips the on-screen display and menus along the horizontal axis.

CHECK FIELD³

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 between blue, red, green, mono, and off. The default setting is off.

¹Once the function is assigned to the function button, press and hold the button for 3 seconds to display the function's menu.

²Once the function is assigned to the function button, press the button, and then use the scroll wheel to adjust the parameters.

³Once the function is assigned to the function button, press the button repeatedly to cycle through the function options.

H/V DELAY³

H/V delay mode highlights the horizontal and vertical blanking portions of the incoming signal. Press the function button to switch between three delay modes. (1) H & V mode delays both horizontal and vertical sync. (2) V mode delays the vertical sync. (3) H mode delays the horizontal sync.

GUIDES^{1,3}

Shows aspect ratio overlays on top of the incoming video signal. The default setting is Off. Press repeatedly to scroll through the frame settings: off (default), 80%, 90%, 15:9, 1.33:1, 1.5:1, 1.85:1, 2:1, 2.35:1, and Custom. In Custom mode, horizontal and vertical guides can be set from 1%–100%. Select between white (default), red, green, blue, and black guide colors. Select guide thickness from 0 (no line) to 50; the default value is 2. The guide masks option dims the portion of the image outside the guide.

CROSS HAIR¹

Places a center marker on-screen. Choose from color options white (default), red, green, blue, black. Set horizontal and vertical offset from 0%–100%. Default is 50%.

GRIDS^{1,3}

Creates grids on-screen with 1 to 10 subdivisions. The default setting is Off. Select grid color options white (default), red, green, blue, and black.

PEAKING¹

Adds a color outline to high contrast areas of the image, highlighting areas that are in focus. Select white, red (default), green, blue, and black. Select outline intensity from 0 to 10 (default).

FALSE COLOR¹

Replaces the true colors of the image with a standard set of colors, displayed in an on-screen chart, that represent exposure levels. The higher—or hotter—the exposure, the higher the color will be in the chart. Adjust the underexposure warning from -10 to 15 (default -1), and the overexposure warning from 85 to 110 (default 101). The Tooltip option turns the on-screen chart on or off.

ZEBRA¹

Turning on displays animated black and white stripes through areas of the image that are overexposed along with an on-screen under and over warning display. Adjust the underexposure warning from -10 to 15 (default -1), and the overexposure warning from 85 to 110 (default 101). The Tooltip option turns the on-screen chart on or off.

UNDERSCAN¹

If the image exceeds the area of the monitor, turn on this feature to display a blank area around the active image. Activate this mode to clearly see the edges of the active video area. Select the factor between 50 and 100 (no underscan). The default is set to 94.

DSLR SCALING³

Scales the incoming video signal to fill the screen. This is useful when shooting on a DSLR. Select full, 16:9, 3:2, or off (default).

HISTOGRAM¹

Activates histogram mode to indicate the overall level of exposure from light to dark. The on-screen meter shows the percentage of the image at a particular exposure level. Adjust the position of the meter from right-bottom (default), left-bottom, left-top, and right-top. Select meter size small (default) or large. The meter transparency can be on (default) or off.

LUMA WAVEFORM

Turning on Luma Waveform displays a waveform exposure guide in the lower right corner of the screen to evaluate your image and accurately gauge the exposure of specific areas of the image. Select on (default) or off.

ZOOMING¹

Scales the incoming video signal. Select the zooming area: middle (default), left and top, right and top, right and bottom, left and bottom, and user. User mode activates X offset (-480 to +480) and Y offset (-270 to +270). Select between magnification factors of ×1.5, ×2 (default), ×2.5, ×3, and User. User mode activates horizontal and vertical magnification factors of ×1.01 to ×3.00, in 0.01 increments. The default is 2.00.

¹Once the function is assigned to the function button, press and hold the button for 3 seconds to display the function's menu.

²Once the function is assigned to the function button, press the button, and then use the scroll wheel to adjust the parameters.

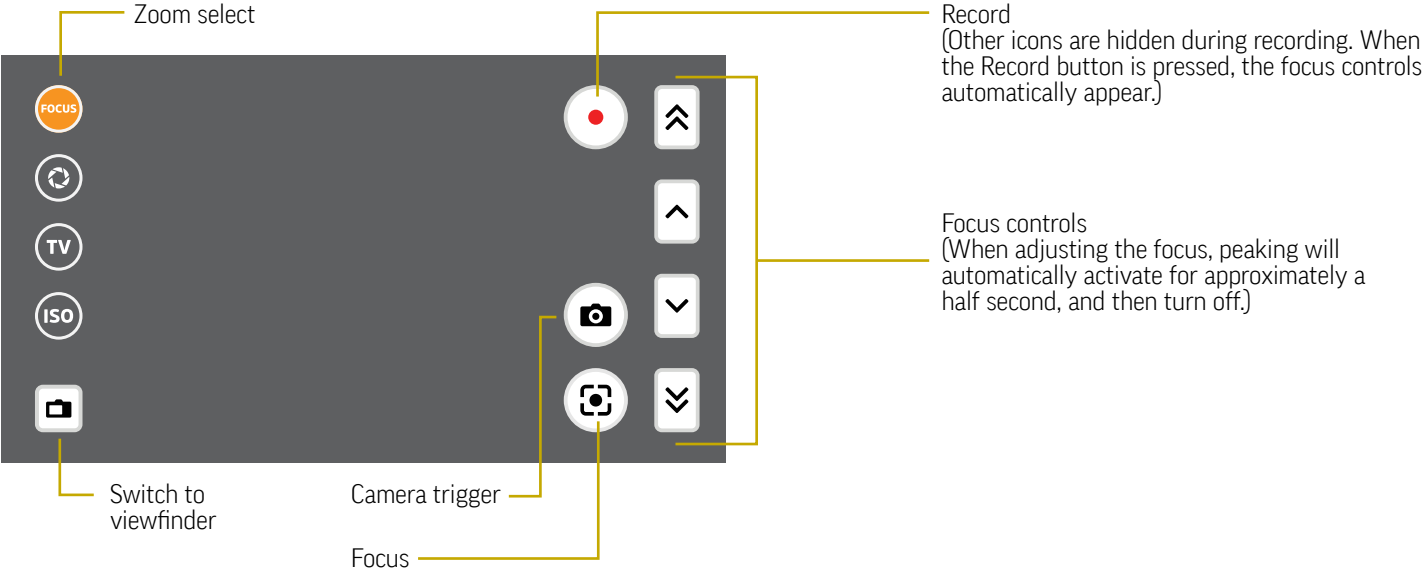
³Once the function is assigned to the function button, press the button repeatedly to cycle through the function options.

CAMERA CONTROL FUNCTIONS

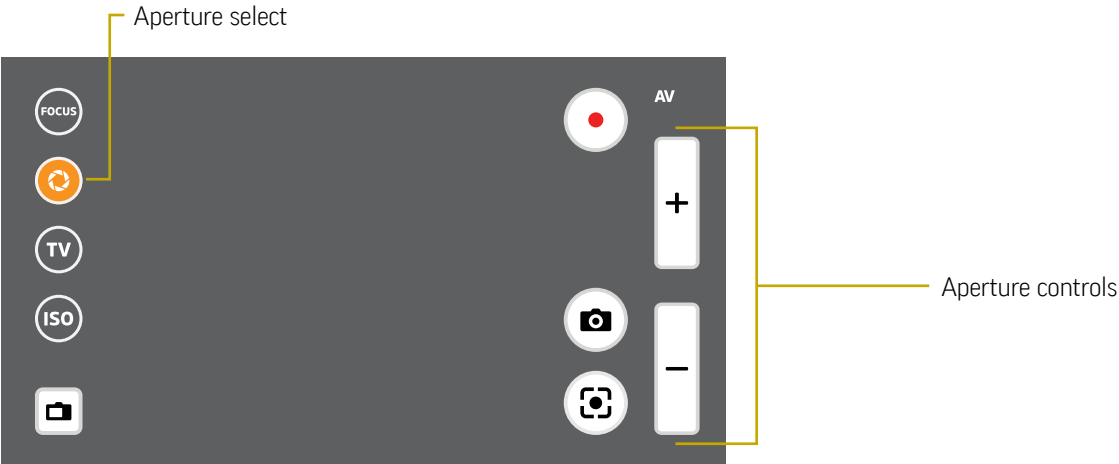
When a camera control accessory (available separately) is attached to the monitor's HDMI ports, activate Camera Control to operate the camera via the touch screen. Select between Canon, Sony, Panasonic, BMPCC, Z CAM E2, and Remote functions. Each selection will bring up a control screen with the following available functions:

CANON

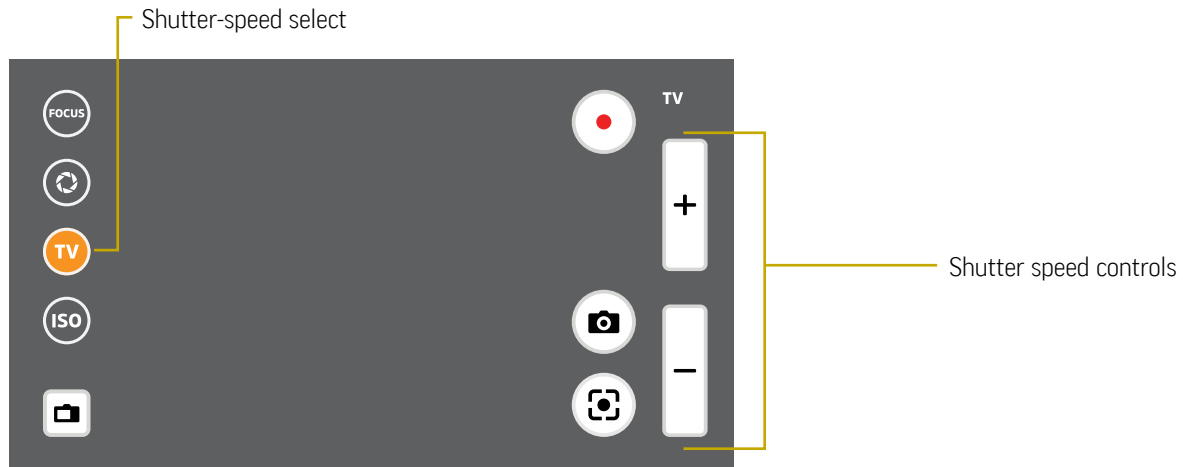
Zoom Adjustment Screen



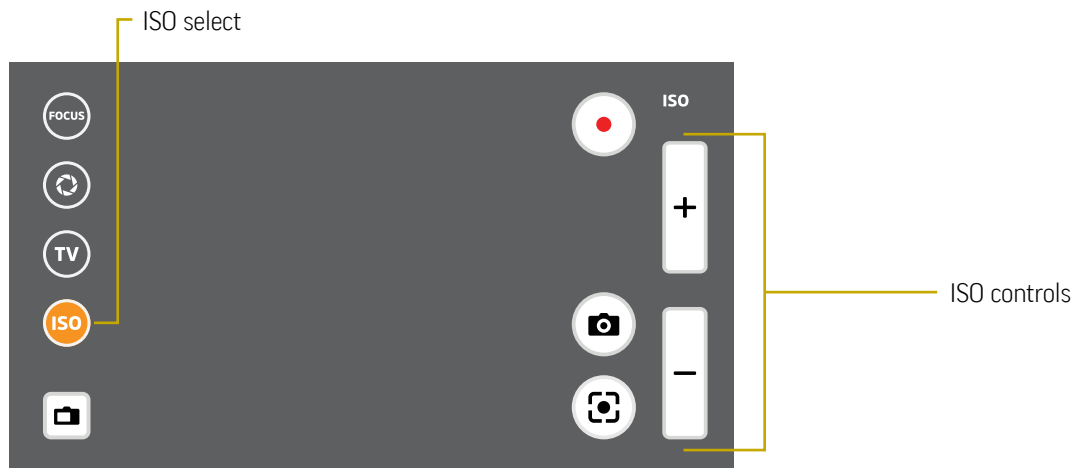
Aperture Adjustment Screen



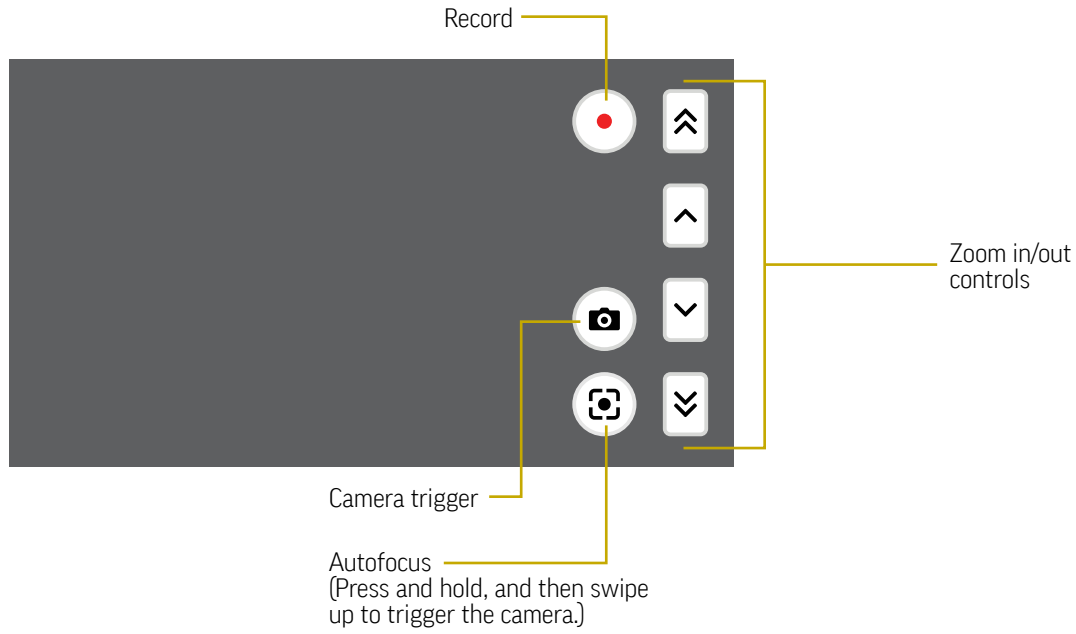
Shutter Speed Adjustment Screen



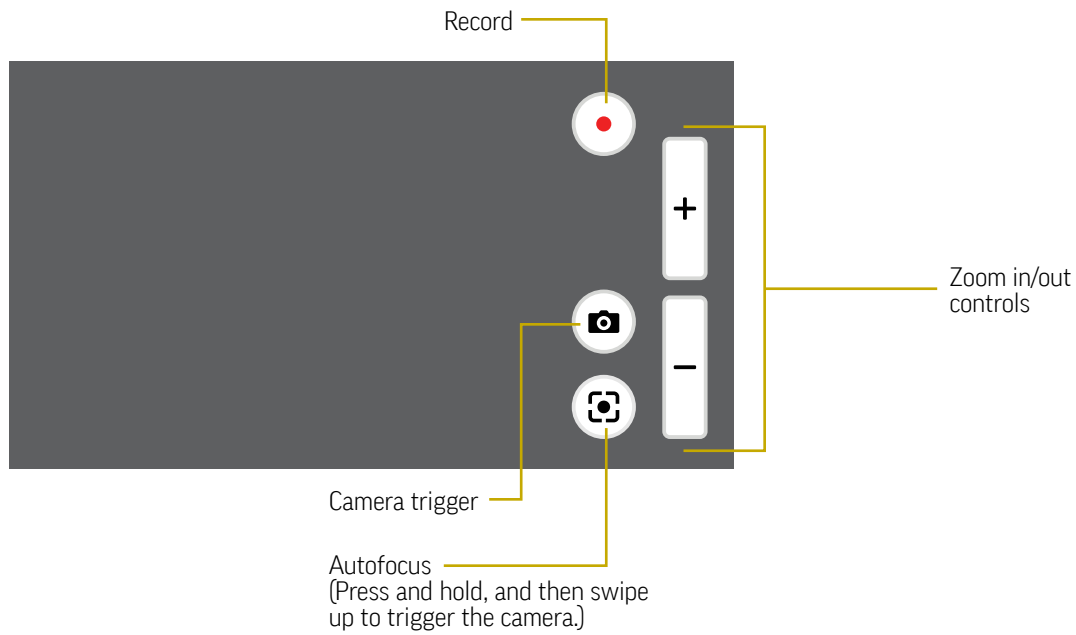
ISO Adjustment Screen



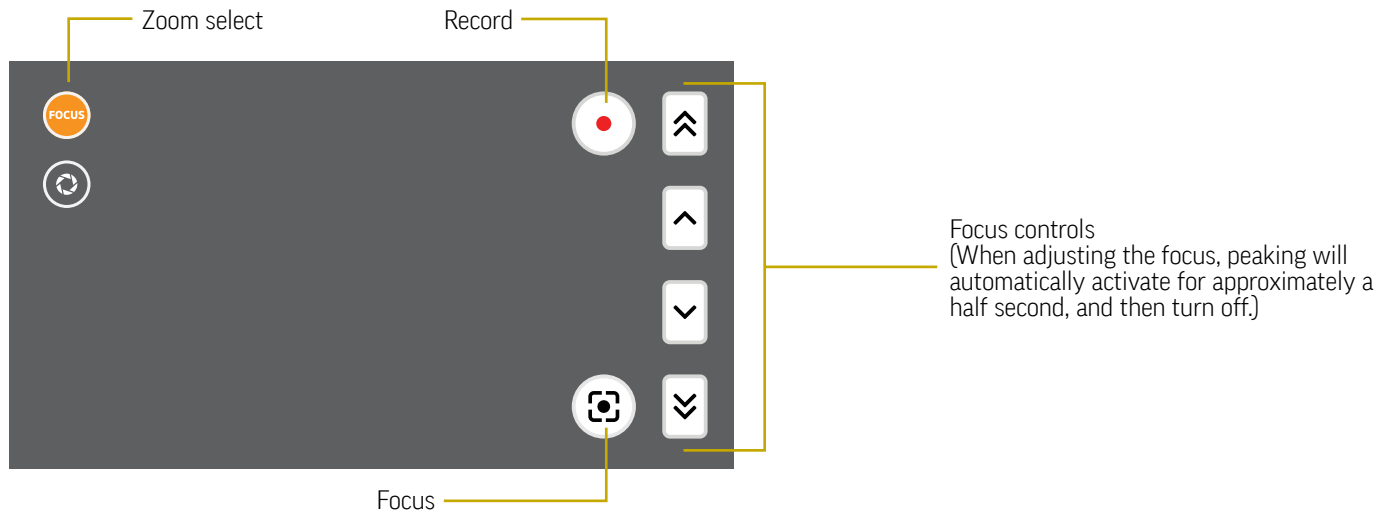
SONY



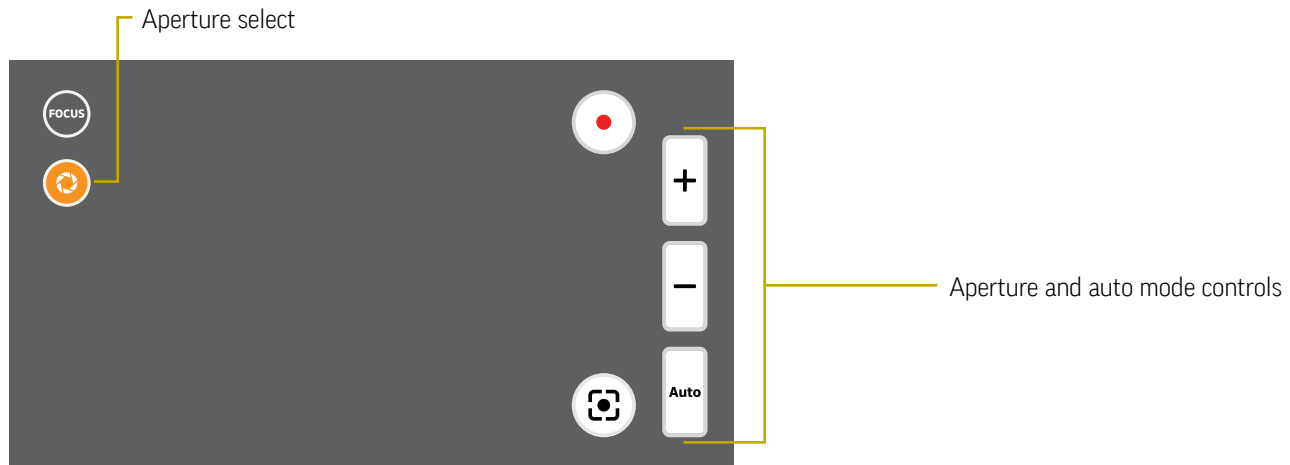
PANASONIC



BMPPC Zoom Adjustment Screen



Aperture Adjustment Screen



REMOTE

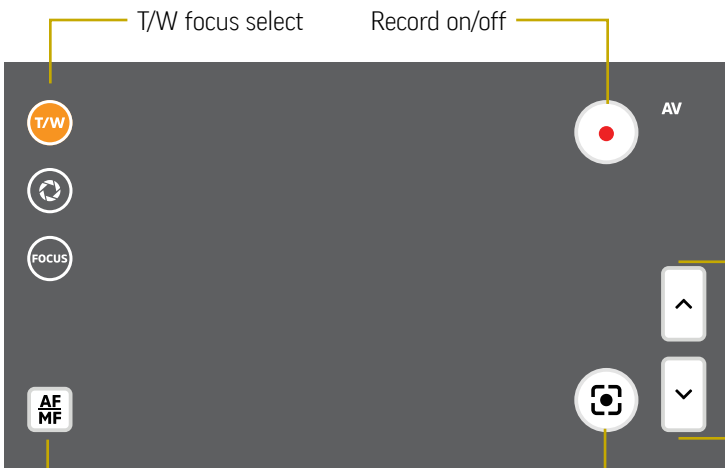


Trigger

Focus
(Press and hold, and then swipe up to trigger the camera.)

Z CAM E2

T/W Focus Control Screen



T/W focus select

Record on/off

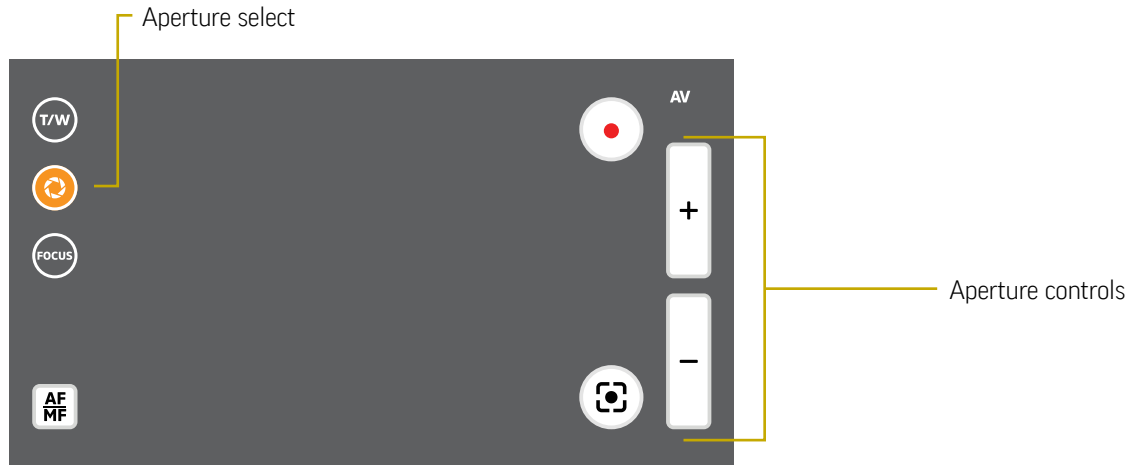
AV

T/W focus controls

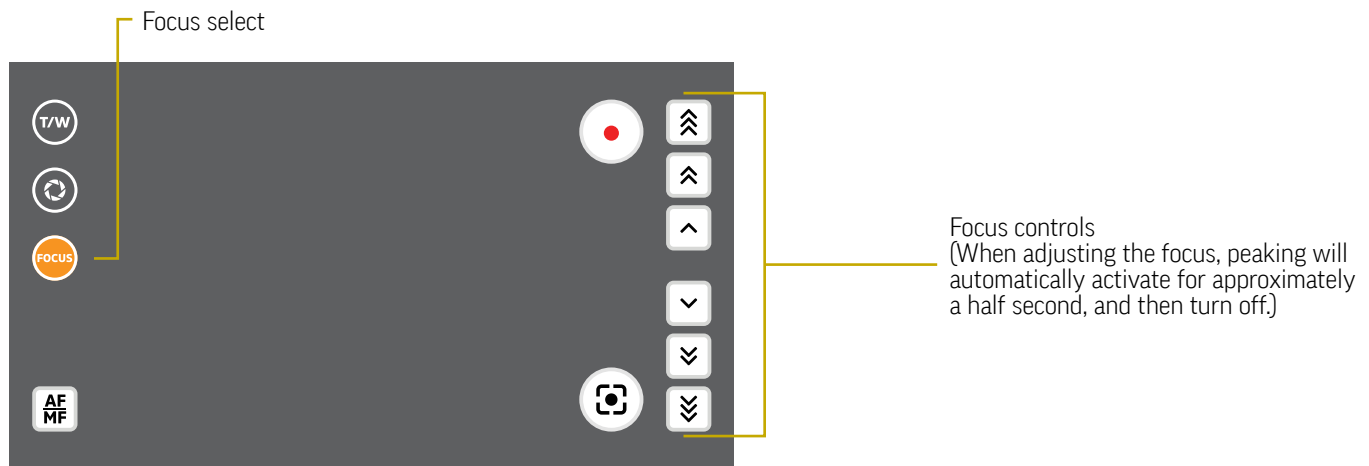
AF/MF select button

Focus

Aperture Adjustment Screen



Focus Adjustment Screen



FIRMWARE MENU

Information about firmware updates and version history is available at elvidcinema.com.

FIRMWARE VERSION INFORMATION

Select Version Information in the Firmware menu, and press the scroll wheel. The current firmware version will appear on-screen.

FIRMWARE UPDATE

To update the firmware, follow these steps:

1. Go to the Elvid homepage at www.elvidcinema.com, and click on the link to the Downloads page.
2. In the Select Your Model drop-down menu, select RVM-5P-HDR.
3. Click on the latest firmware version to download it to your computer.
4. Once the .zip file has been downloaded, extract or copy the enclosed .bin file to the root directory of the included USB drive.
Important! If you save the zip file directly to the USB drive: Unzip the file, and move the .bin file out of the folder, so the folder and the .bin file appear together on-screen. If the .bin file is inside the folder, the monitor will not see it, and the firmware will not update.
5. Plug the USB drive into the USB port on the monitor.
6. Press the scroll wheel to open the main menu.
7. Select Firmware, and press the scroll wheel.
8. Select Update (USB), and press the scroll wheel.
9. At the prompt, select YES, and press the scroll wheel.
10. Follow the instructions at elvidcinema.com to update the firmware.

SPECIFICATIONS

Display Size	5 in. (12.7 cm)
Panel Type	IPS LCD touchscreen
Backlight	LED
Screen Resolution	1920 × 1080
Aspect Ratio	16:9
Viewing Angle	160° (L/R) 160° (U/D)
Brightness	450/1000/1500 cd/m ²
Contrast Ratio	1000:1
Dot Pitch	0.01925 × 0.05775 mm
Bit Depth	8 bit
Finish	Matte black
Controls	Scroll wheel, Function buttons (×4), Exit button, Touch screen
Connectors	HDMI input, HDMI output, 3.5 mm headphone output, 5.5 mm barrel output, USB 2.0 Standard-A
Input Voltage	7 to 24 V DC
Power Consumption	7.6 to 12 W
Construction	ABS plastic
Dimensions (H × W × D)	3.25 × 5.6 × 1 in. (8.3 × 14.2 × 2.5 cm) monitor only
Weight	7.7 oz. (218 g)

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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