ZAGUTO



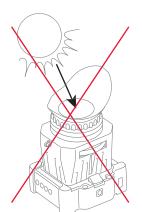
USER MANUAL

MODEL: 1-EVF-1S 1-EVF-1F



Precautions and Care

Z-Finder EVF User Manua



Sunlight Precautions

- Do not allow sunlight to enter the Z-Finder while it is attached to the EVF. The light can be magnified by the lens and potentially cause damage to the EVF screen.
- Use the included sun shield to help prevent unwanted light from entering the EVF.
- Always use the included lens cap when the EVF is not in use.
- Do not use batteries, power cords, or accessories that are not specified for use with this product. Use only canon LP-E6 batteries or equivalent. Check Zacuto.com/zfinderevf for complete list of compatible accessories.
- When using a power cord, be sure to plug it in completely. Do not handle power plugs when your hands are wet. When unplugging the power cord, grasp the plug body or adapter instead of the cord.
- Do not disassemble or modify the EVF, as this may damage the product.
- Do not store the product in a dusty, humid or hot environment as damage may occur.
- When the product is mounted on a camera, do not lift or move the camera by grabbing the product. This may cause damage to the product or the camera mount.
- This product is not waterproof. If the product is dropped in water, do not turn on the unit. Contact Zacuto for service.
- Do not apply cleaning fluid or liquid directly to the screen. Apply cleaner to the included cloth or a soft cotton cloth before wiping screen.
- Do not apply excess pressure to the screen while cleaning or otherwise.
- Misuse of this product by the owner may void the warranty.

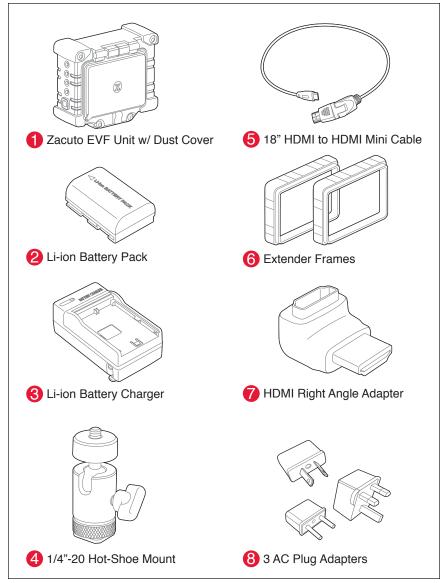


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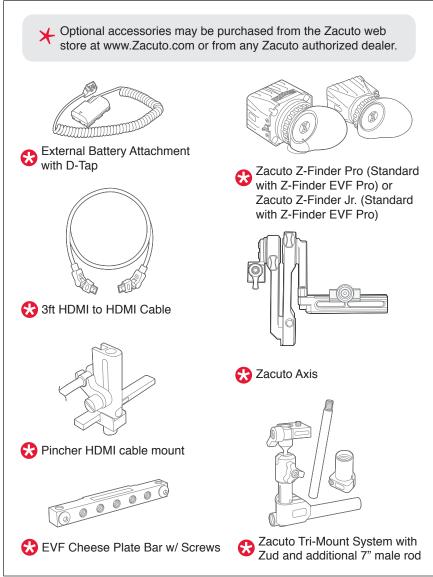


Included Components

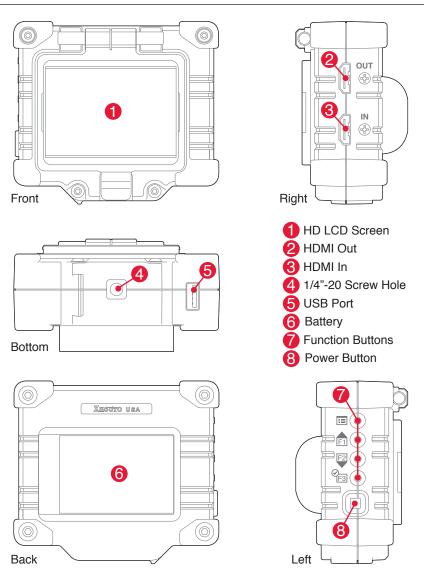




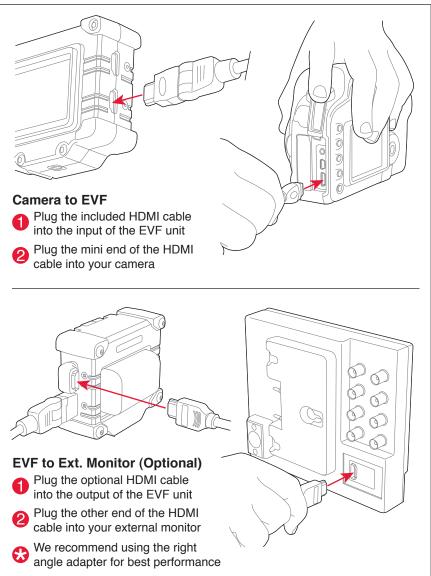
Optional Accessories







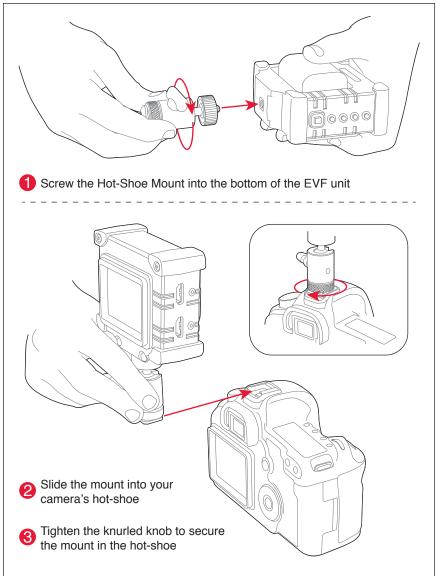




Z-Finder EVF User Manual

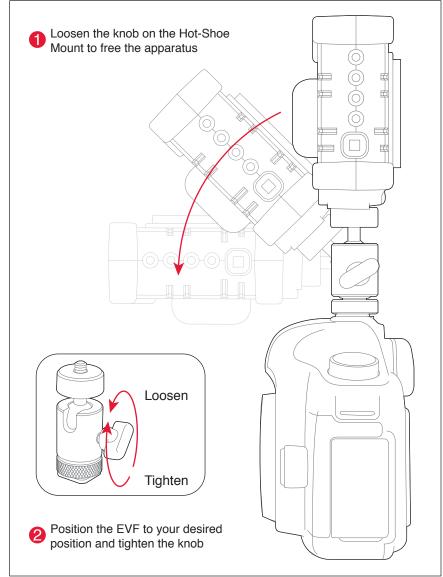


Attaching the Hot-Shoe Mount



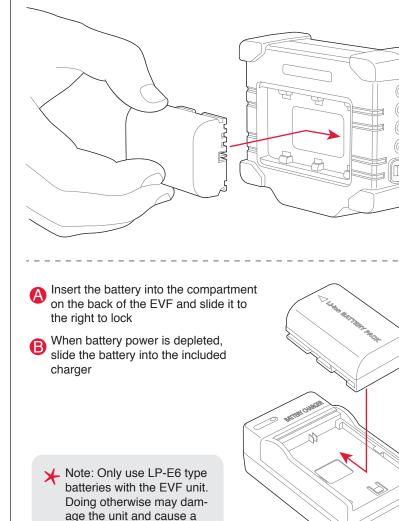


Adjusting the Hot-Shoe Mount









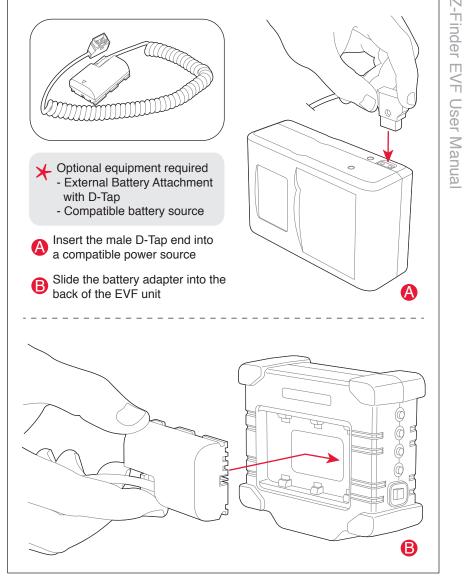
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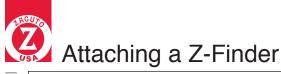
B

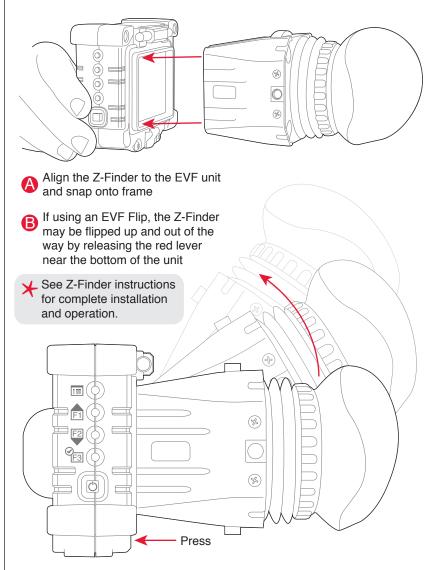
malfunction.



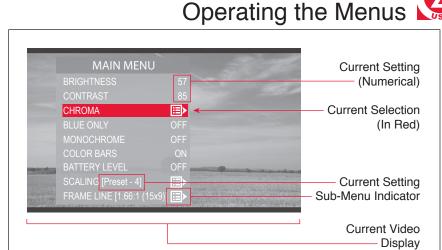
Using an External Power Source











 \star The menu screen reveals itself over the current video display to show real-time updates of changes made.

Menu Button

- Display home menu screen
- Return to top menu at any point from within the menu tree

2 Selection Button - UP (F1)

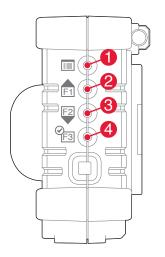
- Navigate up within menu
- Activate the function assigned to F1

Selection Button - DOWN (F2)

- Navigate down within menu
- Activate the function assigned to F2

4 Selection Button - CONFIRM (F3)

- Select the current highlighted option
- Activate the function assigned to F3





Brightness

- Press the select button to reveal the contrast scale
- Use the up and down buttons to modify the current value
- Brightness ranges from -20 to +11 with a factory default of 0

MAIN MENU		-
BRIGHTNESS	10	
BATTERY LEVEL	OFF	-
SCALING [Preset - 4]		

Contrast

- Press the select button to reveal the contrast scale
- Use the up and down buttons to modify the current value
- Contrast ranges from -11 to +3 with a factory default of 0

	MAIN MENU		
	CONTRAST	-2	
-		OFF	

Chroma

- Select a parameter and modify each value with the up and down buttons. Zero (0) is the factory preset and can be modified + or -
- Select SATURATION to modify the overall amount of color in the image
- Select the RED, GREEN or BLUE options to modify the amount of color in each individual channel
- Your settings may be saved and recalled with the SAVE PRESET and RECALL PRESET functions

	MAIN MENU	3.1		CHROMA	307
		10		SATURATION 🥢	+10
		-2	and the second second		0
	CHROMA				-26
		OFF			+3
		OFF			
		ON			
		OFF			
Section of the sectio			Sec. Sec.		
AN ALL AND A			AN AT LAND		



Blue Only

- Press the select button to toggle this setting ON or OFF
- Use this setting to obtain proper calibration of your monitor when using color bars

MAIN MEI	NU
	₽
BLUE ONLY	ON
	∣ 💷>
	⊨

Monochrome

- Press the select button to toggle this setting ON or OFF
- Use this setting to obtain proper calibration of the EVF when using color bars

MAIN MENU	
	∍
MONOCHROME	ON
	⇒
FRAME LINE [None]	

Color Bars

- Press the select button to toggle this setting ON or OFF
- The color bars may be used to check the calibration of the EVF

MAIN MENU	
	10
	-2
	OFF
	OFF
COLOR BARS	ON
	⊨⊳
	⇒

Battery Level

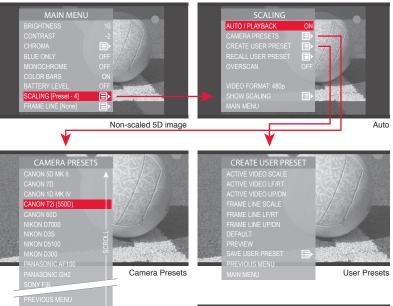
- Toggle this setting ON to constantly display the battery meter on the screen
- If turned OFF, the low battery icon will appear when a battery change is necessary

MAIN MENU	
COLOR BARS	
BATTERY LEVEL	ON
	≣≻

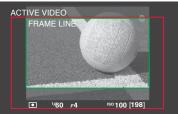


Scaling (See tutorial video at Zacuto.com/zfinderevf)

- AUTO / PLAYBACK allows the EVF to scale and format the image by automatically detecting the cameras output (Default)
- Choose CAMERA PRESETS to activate an included camera preset



When creating a user preset, the ACTIVE VIDEO (Red Line) represents what will be shown full frame on the screen while the FRAME LINE (Green Line) tells the EVF where the picture area of the recorded video image will be



- Frame line type is selected in the FRAME LINE menu
- Creating a user preset may be useful if you are trying to view camera data on the screen while it is scaled



- ⊁ If your camera outputs a different format during standby and record, ie: Canon 5D (1080i/480p) the scaling must be set and saved to the same preset for both modes. The EVF will detect the input signal and use
- Your can PREVIEW and SAVE a user setting while in the CREATE USER PRESET menu. After saving you can recall a preset in the RE-CALL USER PRESET menu
- OVERSCAN can be toggled ON or OFF from the scaling menu

Frame Lines

- Choose the frame lines that you wish to display on screen
- Within each selection you are able to toggle On or OFF the frame lines and/or action safe

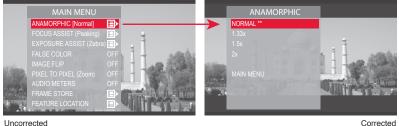
When not using a camera preset, a USER PRESET is necessary for the frame lines to be correctly displayed (see scaling on pg.15)

MAIN MENU	30000	FRAME LINE	
	10	1.33:1 (4x3)	
	-2	1.66:1 (15x9)	
		1.78:1 (16x9)	
	OFF	1.85:1	
	OFF	2.35:1	
	ON	FRAME APPEARANCE	LINE
BATTERY LEVEL SCALING [Preset - 4]	OFF	CENTER CROSS 3x3 GRID	OFF
FRAME LINE [None]		MAIN MENU	
			are a series of the series of
			_
1.33:1 (4x3) ENABLE ACTION SAFE PREVIOUS MENU	ON ON	LINE FRAME APPEARANCE	
ENABLE ACTION SAFE			BOX FRAME APPEARANCE



Anamorphic

Choose the correct anamorphic setting for your lens from the list



Uncorrected

Focus Assist (Peaking)

- Press the select button to enter the peaking menu
- Toggle ENABLE ON or OFF by selecting it from the menu
- Select the LEVEL option and use the arrows to choose the peaking intensity





Peaking OFF

Peaking ON

The EVF uses a sharpening method to enhance hard edges to aid in focusing the image. When an object is in focus the edges will be intensified.



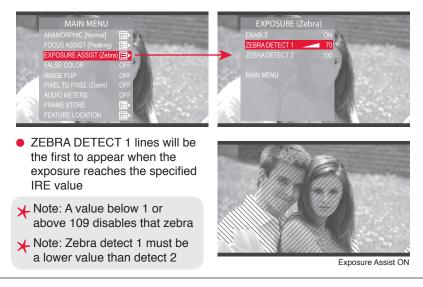
Focus Assist (Red-Line)

- Press the select button to enter focus assist menu.
- Toggle ON or OFF by selecting it from the menu.



Exposure Assist (Zebra)

- Choose "Enable" to turn on the exposure assist feature
- Choose the zebra detection IRE value appropriate for your needs



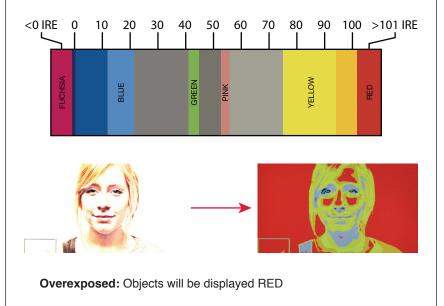


False Color

- Select FALSE COLOR to toggle the setting ON or OFF
- Use False Color to aid in obtaining the correct exposure of your scene



• The chart below may be used as a key to determine which areas of your frame are overexposed, underexposed, or exposed properly.







Properly Exposed: Objects will display in PINKS and GREENS





Underexposed: Objects will display BLUE to DARK BLUE

Image Flip

• Press the select button to toggle the image flip ON or OFF

MAIN MENU	300	e ann an	-	FEATURE LOCATION	a day (1977) Second Second
ANAMORPHIC [Normal]			-		
FOCUS ASSIST (Peaking)					1000 percenter
EXPOSURE ASSIST (Zeb	ra) 📰 🕨				
FALSE COLOR			NO	IMAGE FLIP	
IMAGE FLIP	OFF				
PIXEL TO PIXEL (Zoom)					
AUDIO METERS	OFF				
FRAME STORE	■ >	the second second second	_ <⊞		
FEATURE LOCATION				MAIN MENU	



Pixel To Pixel (Pixel to Pixel not active while in 480p) Press the select button to toggle Pixel To Pixel ON or OFF



Audio Meters

- Press the select button to toggle the Audio Meters ON or OFF
- \star Audio meters are only active during playback with most DSLR cameras



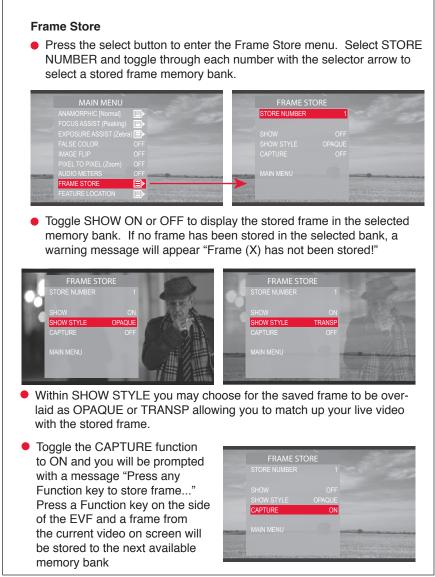
Miscellaneous

 Press the select button to enter the Miscellaneous menu. Select HDMI OUTPUT and cycle up or down between AUTO or YUV 422.

MAIN MENU	30000	MISCEI	LLANEOUS	
		HDMI OUTPL	JT YUV 422	
	OFF			
		MAIN MENU		
	OFF			
MISCELLANEOUS				
	OFF			
FEATURE LOCATION				 a chose i
	≣ >			
UPDATE		And		

 Engage if the Y'UV color space signal is the desired output to interface with analog or digital devices conforming to the Y'UV standards.







Feature Location

MAIN MENU		30 th		FEATURE LOCA	TION	
		Je have some		AUDIO METERS	LR	
		and the second				
	a) 💼 🕨					
	OFF				- 22	and the second s
			and the second			
FEATURE LOCATION					1	

 Select the feature you want to place and scroll through the options with the selector arrows. Once one feature is placed, press the select button to back out of the selection and choose another.

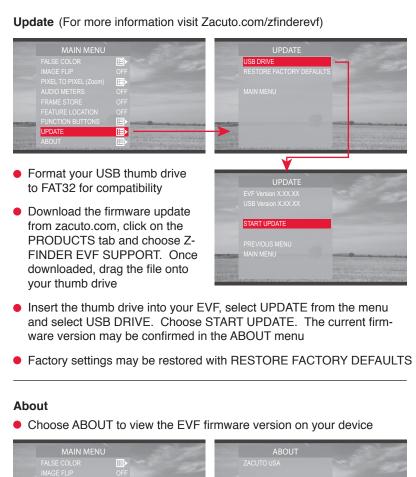
Assigned Function Buttons



- To change the function assigned to each button, first select the button you wish to change from the list
- From the subsequent menu, choose the desired function and select it. It can now be activated by pressing the appropriate function button on the side of the EVF unit without the use of the menu system.







ABOUT

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Possible Error Messages

You may receive these messages if there is a error during the update process. Contact Zacuto customer support If your problem persists after following these recommendations.

Problem:

Invalid USB Drive

Your USB drive has been detected but the EVF cannot recognize it

Solution:

Remove the drive and re-insert or attempt to use a different USB drive that has been properly formatted

Problem:

No USB Drive Detected

Your USB drive cannot be detected by the EVF

Solution:

Check if the USB drive is completely inserted and/or attempt to use a different USB drive that has been properly formatted



INVALID USB DRIVE

Problem:

No Valid Image Detected

An invalid firmware image has been detected on your USB

Solution:

Your image has been corrupted. Try downloading the image again and retry. Use a different USB drive if the action continues to fail.





Problem:

You have attempted to use the PIXEL-TO-PIXEL (zoom) feature while in 480p standby or record

Solution:

If possible set the output of your camera to a higher format than 480p to be able to use the PIXEL-TO-PIXEL zoom feature

Pixel-to-F	ixel not available in 480p!		
		₽	
	PIXEL TO PIXEL (Zoom)	OFF	

ZEBRA DETECT 2

Problem:

You have attempted to set the Zebra 2 value below the Zebra 1 value

Solution:

Set Zebra 1 lower than Zebra 2 or increase the level of Zebra 2 so that it is higher than Zebra 1

Problem:

You have attempted to show a stored frame that doesn't exist in the EVF's memory

Solution:

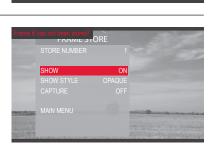
Use the capture option to save a frame of video into the selected memory bank

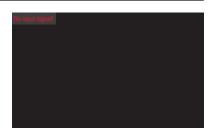
Problem:

The EVF is unable to detect a signal from an input device through the HMDI cable

Solution:

Make sure the HDMI cable is securely plugged into your camera and your camera is in video mode







See the full list of questions at www.Zacuto.com/zfinderevf

Q: Will this EVF have HD-SDI?

A: Not this version. We hope to make another version or converter with HD-SDI later down the road. Adding HD-SDI does add cost and we wanted to keep the cost as low as possible. Only a small majority of users are interested in HD-SDI so it doesn't make sense to have everyone have to pay for a feature that most will not use. Since every camera, including the new Sony F3, AG-AF100 and DSLR's, has HDMI we went that way. The future model or converter will allow you to come in HDMI and cross convert to HD-SDI for output to an HD-SDI monitor. It will also allow you to accept HD-SDI as an input.

Q: Will I be able to use my Z-Finder EVF and Z-Finder EVF Pro straight out of the box without buying anything else?

A: Yes, it will come with everything you need: a hotshoe ball mount, rechargeable battery, battery charger, HDMI cable & case. You can start shooting with it immediately. If you already own a Z-Finder Jr or Pro, you can purchase the EVF snap or EVF Flip Up and be ready to shoot straight out of the box.

Q: Why is anti-fog so important?

A: When an EVF or optical viewfinder fogs up, game over. It becomes unusable. Zacuto spent a lot of time coming up with our Zacuto antifog formula. Z-Finder version 1 owners complained about fog more than any other issue. Your normal body temperature is almost 100 degrees but the Z-finder optic will never reach that point. The human body also naturally puts out a lot of moisture. These two factors combined mean any optical viewfinder will fog. To eliminate the fog, you need to separate yourself from the viewfinder to let the fog dissipate, and then you can begin to shoot again. This is a huge problem when doing shots over 30 seconds. You must have anti-fog to really have a usable product. We rectified the problem with the anti-fog protective covers. Our Z-finder Pro models come with two expendable anti-fog protective covers included. All Zacuto version 1 Z-finders can easily and inexpensively be upgraded to anti-fog with the addition of the antifog protective upgrade kit.



Q: Why does my EVF have excessive strobing while panning?

- A: We have tested the EVF for what people have complained as excessive strobing while panning and have discovered that our EVF does not strobe any more than any other monitor. It appears that way because you are magnifying the image with the Z-Finder.
- Q: Why can't I get a picture sometimes when I plug-in the HDMI cable while the EVF is on?
- A: This is not unique to the Zacuto EVF. If the EVF is already on, you must plug in the HDMI cable in one swift movement with no stopping or hesitation. It has to do with the communication between the two devices, the "handshake".



Specifications

LCD	
Size	3.2" TFT LCD IPS LED
Resolution	800x480
Color	16.7 Million
Viewing Angle	H: 170 Degrees V: 170 Degrees
View Area	70.6mm (H) x 42.76mm (V)
POWER	
Battery	7.2v Canon LP-E6 or Equivalent
External	12 Volt Power Adapter (Optional)
Consumption	2.5W (5.2 Hours w/ 1800mAH Battery)
VIDEO INPU	T / OUTPUT
HDMI	480i / 480p / 576p / 720p / 1080i / 1080p @ 24, 25 and 30fps
TEMPERATU	JRES
Operating	-4F to +158F / -20C to +70C
Storage	-22F to +176F / -30C to +80C

All LCD panels have dead pixel or dots if you look with a magnifier. With our EVF both situations apply. When the Z-Finder is on the EVF screen, we are magnifying so dead pixels become more noticeable and with the EVF up we are not magnifying so dead pixels or dots are unnoticeable.

Our policy is:

Without Magnification: 0 dead white pixels and 0 dead Red, Green or Blue dots visible with the naked eye.

With 2.5x or 3x Magnification: No more than 2 dead white pixels outside the critical middle third or 5 dead Red, Green or Blue dots.



Zacuto USA electronic devices come with a limited one year hardware warranty. The limited hardware warranty covers defects in workmanship and materials of our products for up to one year. This warranty does not cover any damage to this product that results from improper installation, accidents, abuse, misuse, negligence, natural disaster, insufficient or excessive electrical supply (if applies), abnormal mechanical or environmental conditions, dust or any unauthorized disassembly, repair or modification.

For the most up to date manual, features, firmware and tutorial videos go to the Zacuto EVF page at Zacuto.com/zfinderevf

Zacuto USA, Z-Finder and Z-Finder EVF are trademarks of Zacuto USA

