

Clifton Cameras Product Specification

Sony ZV-1F Vlogging Camera

Specifications

Image Sensor

Sensor Type	1.0-type (13.2mm x 8.8mm) Exmor RS CMOS sensor, aspect ratio 3:2
Number of gross pixels	Approx. 21.0 Megapixels
Number of effective pixels	Approx. 20.1 Megapixels

Lens

Lens Type	ZEISS Tessar T* Lens, 6 elements in 6 groups
F-number (Maximum Aperture)	F2.0
Iris Diaphragm	7 blades
ND Filter	-
Focal Length (f =)	f=7.6mm
Angle of View (35mm format equivalent) (Still Image) *1	94°(20mm)
Focus Range (from the front of the lens)	Approx. 5cm (0.17 ft.) to Infinity
Still Image, Movie	-
Still Image	20M Approx. 2x / 10M Approx. 2.8x / 5.0M Approx. 4x
Movie	4K: 1.5x HD: Approx. 2x
Still Image	20M Approx.4x / 10M Approx.5.6x / 5.0M Approx.8x
Movie	Approx.4x
Filter diameter	φ40.5
Linear Focus	Yes
Scan System	Progressive scan
Color Filter	R, G, B primary color mosaic filters

Screen

Screen Type	7.5 cm (3.0 type)(4:3) / 921,600 dots / Xtra Fine / TFT LCD
Touch Panel	Yes
Brightness control	Manual (5 steps) / Sunny Weather
Adjustable angle	Opening Angle: approx. 176 deg., Rotation Angle: approx. 270 deg.

Camera

Imaging Processor BIONZ	Yes (BIONZ X)
SteadyShot	Electronic
Focus Mode	Single-shot AF, Continuous AF, Manual Focus
Focus Area	Wide (425 points (contrast-detection AF)), Zone, Centre, Flexible Spot (S/M/L), Expanded Flexible Spot
Object Tracking	Yes (Tracking)
Eye AF	[Still images] Human (Right/Left Eye Select) / Animal; [Movie] Human
Light Metering Mode	Multi Pattern, Centre Weighted, Spot, Entire Screen Avg., Highlight
Exposure Compensation	+/- 3.0EV, 1/3EV step



Exposure Control	Yes
ISO Sensitivity (Still Image) *3	Auto (ISO125-6400), 125/160/200/250/320/400/500/640/800/1000/1250/1600/2000/2500/3200/4000/5000/6400/8000/10000/12800 (Extendable to ISO80/100)
ISO Sensitivity (Movie)	Auto: (ISO125Level-ISO6400Level), 125/160/200/250/320/400/500/640/800/1000/1250/1600/2000/2500/3200/4000/5000/6400/8000/10000/12800
White Balance Mode	Auto, Daylight, Shade, Cloudy, Incandescent, Fluor: Warm White, Cool White, Day White, Daylight, Underwater Auto, C.Temp/Filter, Custom
WB micro adjustment	Yes<G7 to M7,57-step><A7 to B7,29-step>
Electronic Shutter	Program Auto (1/4" - 1/32000) / Manual (1/4" - 1/32000) / Aperture Priority (1/4" - 1/32000) / Shutter Priority (1/4" - 1/32000)
Aperture	Program Auto (F2/F8) / Manual (F2/F8) / Shutter Priority (F2/F8) / Aperture Priority (F2/F8)
Image Control	Contrast, Saturation, Sharpness, Creative Look, Colour Space, Quality (JPEG (Extra fine, Fine, Standard))
Noise reduction	High ISO NR: Normal/Low/Off
Dynamic Range Functions	Off, Dynamic Range Optimizer (Auto/Level 1-5)
Shooting Mode	Auto (Intelligent Auto), Program Auto, Aperture Priority, Shutter Speed Priority, Manual Exposure
Shooting Mode	Movie Mode (Program Auto, Aperture Priority, Shutter Speed Priority, Manual Exposure, Movie Auto (Intelligent Auto))
Shooting Mode	S&Q Mode (Program Auto, Aperture Priority, Shutter Speed Priority, Manual Exposure, S&Q Auto (Intelligent Auto))
Continuous Shooting Speed (maximum) (with max. recording pixels) *4 *5 *6	Speed Priority Continuous Shooting: approx. 16 fps, Continuous Shooting: approx. 3.5 fps *7
Self-Timer	10sec. / 5sec. / 2sec. /self-timer(movie)
Drive modes	Single, Continuous Shooting, Self-timer
Interval Rec	Yes (1-60 sec. interval, 1-9999 shots, AE lock/AE tracking(High/Mid/Low)) *8
Panorama	-
Photo Creativity	-
Picture Profile	off/PP1-PP10(Black Level, Gamma (Movie, Still, Cine1-2, ITU709, ITU709 [800%], S-Log2, S-Log3, HLG, HLG1, HLG2, HLG3), Black Gamma, Knee, Colour Mode, Saturation, Colour Phase, Colour Depth, Detail, Copy, Reset)
Active Mode	Electronic
Focusing Type	Contrast-detection AF
Metering Sensitivity	EV 0 to 20 (at ISO100 equivalent)
Auto Control Range	Auto (ISO125-6400),125/160/200/250/320/400/500/640/800/1000/1250/1600/2000/2500/3200/4000/5000/6400/8000/10000/12800 (Extendable to ISO80/100)
Proxy Recording	Yes (1280 x 720(Approx.9Mbps))
Program shift AE	Yes
AE locked when focus is locked	Yes
Flash	Bracketing Flash Compensation Flash Sync. Speed Recycling Time Control External Flash Flash Type
Red Eye Reduction	Red Eye Reduction
Auto Orientation	On Only
Monitor MF Assist magnification	1.6x,4.0x

Face Detection

Mode	Face Priority in AF (On/Off), Face Priority in Multi Metering (On/Off), Regist. Faces Priority (On/Off)
Face Registration	New Registration / Order Exchanging / Delete / Delete All
Maximum number of detectable faces	8 faces

Recording

Compatible Recording Media*9	[XAVC S(100Mbps)] SDXC/SDHC Memory Card (UHS-I U3 or higher); [XAVC S(60Mbps/50Mbps)] SDXC/SDHC Memory Card (Class 10 or higher); [Still image] Memory Stick Duo, Memory Stick PRO Duo, Memory Stick PRO-HG Duo, Memory Stick Micro*10, Memory Stick Micro(Mark2)*10 , SDXC/SDHC/SD Memory Card (Class 4 or higher), micro SDXC/SDHC/SD Memory Card (Class 4 or higher)*10
Recording Format(Still Image)	JPEG(DCF Ver.2.0,Exif Ver.2.32,MPF Baseline compliant)
Recording Format(Movie)	XAVC S
Recording Format(Movie Audio)	XAVC S:LPCM 2ch
Colour Space (Still)	sRGB, Adobe RGB
DCF/DPOF	DCF/EXIF/MPF
Still Image Number of recorded pixels (Image Size)	3:2mode:20M(5,472x3,648) / 10M(3,888x2,592) / 5M(2,736x1,824),4:3mode:18M(4,864x3,648) / 10M(3,648x2,736) / 5M(2,592x1,944) / 16:9mode:17M(5,472x3,080) / 7.5M(3,648x2,056) / 4.2M(2,720x1,528),1:1mode:13M(3,648x3,648) / 6.5M(2,544x2,544) / 3.7M(1,920x1,920)
Movie Recording Mode	NTSC/PAL Selector: [PAL] mode XAVC S 4K: 25p 100M(3,840x2,160/25p) / 25p 60M(3,840x2,160/25p), XAVC S HD:50p 50M(1,920x1,080/50p) / 50p 25M(1,920x1,080/50p) / 25p 50M(1,920x1,080/25p) / 25p 16M(1,920x1,080/25p) / 100p 100M(1,920x1,080/100p) / 100p 60M(1,920x1,080/100p), NTSC/PAL Selector: [NTSC] XAVC S 4K: 30p 100M(3,840x2,160/30p) / 30p 60M(3,840x2,160/30p) / 24p 100M(3,840x2,160/24p) / 24p 60M(3,840x2,160/24p), XAVC S HD:60p 50M(1,920x1,080/60p) / 60p 25M(1,920x1,080/60p) / 30p 50M(1,920x1,080/30p) / 30p 16M(1,920x1,080/30p) / 24p 50M(1,920x1,080/24p) / 120p 100M(1,920x1,080/120p) / 120p 60M(1,920x1,080/120p)
Recording Format	Still Images: JPEG (DCF, Exif, MPF Baseline) compliant
Memory Stick Duo	32GB
Memory Stick Micro	16GB
SD Memory Card	128GB
microSD Memory Card	64GB

Slow & Quick Motion

Image frame rate	#NTSC mode: 1fps, 2fps, 4fps, 8fps, 15fps, 30fps, 60fps, 120fps / PAL mode: 1fps, 2fps, 3fps, 6fps, 12fps, 25fps, 50fps, 100fps
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Microphone/Speaker

Built-in Microphone	Stereo
Speaker	mono
Volume Setting	16 steps
Wind noise reduction	Off / On

Playback

Single Image	Cue, Review (Movie)	Yes
Single Image	Slow Playback (Movie)	Yes
Image Index	Index	9 / 25 images
Display as Group	Display as Group	Yes
Slide Show	Video Out	4K (HDMI)
Slide Show	Movie	Yes
Slide Show Settings	Image	All



Slide Show Settings	Interval	1 / 3 / 5 / 10 / 30 sec.
Slide Show Settings	Repeat	On / Off
Zoom Magnification of Playback Mode	Zoom Magnification of Playback Mode	Depends on Image Size
Automatic Image Rotation	Automatic Image Rotation	Yes
Auto Orientation(Auto pict rotation in response to camera position in playback)	Auto Orientation(Auto pict rotation in response to camera position in playback)	Yes
Rotate	Rotate	Yes
Delete	Delete	Single / Select / All but This Image / Folder / Date / Group
Protect	Protect	Select / Folder / Date / Group
Still image capture from movie	from 16:9Movie to Still Image Size	#XAVC S 4K : 8.3M(3840×2160) XAVC S HD : 2.1M(1920×1080)

Print

Exif Print	Yes
PRINT Image Matching (PIM3)	Yes

Interface

Input and Output Terminal	USB Terminal Type-C (USB2.0), Micro HDMI, Microphone jack (3.5mm Stereo mini jack)
NFC	-
Wi-Fi	Yes(IEEE802.11b/g/n(2.4GHz band))
Eye-Fi	-
Bluetooth	Yes (Bluetooth Standard Ver. 4.1 (2.4GHz band))

Power

Power Source	DC3.6V(supplied battery)
Battery System	Rechargeable battery pack NP-BX1
Power Consumption (Camera mode)	Approx. 1.5W with LCD monitor (CIPA standard)
USB Charge/USB Power Supply	Yes (Shooting, Playback)
Still Images*11	Monitor:Approx. 360 / Approx. 180min., Monitor (When Auto Monitor off is set to 2sec):Approx. 540 / Approx. 270min.,
Movies (actual shooting)*12 *13	Monitor:Approx. 60min., *14
Movies (continuous shooting)*12	Monitor:Approx. 90min., *14
Maximum Voltage	4.2V
Nominal Voltage	3.6V
Capacity for Shooting	4.5Wh(1240mAh)
AC Adaptor (supplied)	Power Requirements
AC Adaptor (supplied)	Output voltage
AC Adaptor (supplied)	Dimensions (WxHxD)
AC Adaptor (supplied)	Mass
Body Material	#Aluminium and plastic
Operating Temperature	0 degrees C. - +40 degrees C. / 32 degrees F. - 104 degrees F.
Storage Temperature	-20 degrees C. - +55 degrees C. / -4 degrees F. - +131 degrees F.

Other

InCamera Guide	Yes
PlayMemories Camera Apps	-
Other Shooting Functions	Face Detection



	Face Registration
	Grid Line
	Digital Level Gauge (pitch and roll)
	Peaking (Display: Off/On) (Level: High/Mid/Low) (Color: Red/Yellow/Blue/White)
	Zebra
	Marker Display
	Audio Rec Level
	Audio Level Display
	Step Zoom
	PC Remote Control
	Gamma Disp. Assist
	Set File Name
	Touch Shutter/Touch Focus/Touch Tracking
	My Menu
	Soft Skin Effect
	Product Showcase Set
	Background Defocus
	Shot Mark (Movie)
Other Playback Function	BRAVIA Sync(Control for HDMI)
	9/25-frame index view
	Auto Orientation
	Slide Show
	Forward/Rewind (Movie)
	Delete
	Protect
	Photo Capture
	Rating
TRILUMINOS Color*15	Yes
4K image output	Yes
Operating Speed*16	Start-up Time (Approx. 1.2 sec.) / Shooting Time Lag (Approx. 0.15 sec.) / Shooting Interval (Approx. 0.44 sec.)
Digital Level Gauge	Yes (Pitch and roll)
PC Link	PlayMemories Home
DIMENSIONS (W x H x D) (Approx.)	105.5x60.0x46.4 mm (4 1/4in. x 2 3/8 in. x 1 7/8 in.)
Weight (CIPA compliant)	Approx. 256g (9.1oz.)(Battery and Memory Card are included) / Approx. 229g (8.1oz.)(Body Only)
Power Saving	1min / 2min / 5min / 30min
Clock Function,Setting	Yes
Area Setting	Yes
Demo Mode	-
REC Lamp	Yes



NTSC/PAL switchover	Yes
2D (Auto)*17	Yes
HDMI Info. Display	Off/On
Video Out Mode	NTSC / PAL
USB Mass Storage	Yes
USB MTP	Yes
USB LUN Settings (Multi/Single)	Multi / Single
Shutter Release Time Lag	Approx. 0.007 sec.
Continuous Shooting (Maximum number of recorded pixels)*18 *4	Approx.0.06 sec *7

Menu/Interface

Function Guide	Histogram Indicator	Yes(On/Off)
Function Guide	Beep	#Yes(On/Shutter/Off)
NFC	One-touch remote	-
NFC	One-touch sharing	-
Wi-Fi	Ctrl with Smartphone(Single)	Yes
Wi-Fi	Send to Smartphone	#Yes (Select on This Device / Select on Smartphone)
Bluetooth	Location information Link from smartphone	Yes
Multi Interface Shoe	Multi Interface Shoe	-

Supplied Accessories

Rechargeable Battery Pack (NP-BX1)

Type-C USB cable(USB2.0)

Wind Screen

Wind Screen Adaptor

Instruction Manual

*1 At maximum pixel readout.

*2 Optical zoom from the wide side (except RX1 series and RX0).

*3 REI = Recommended Exposure Index

*4 You may not be able to shoot images in Burst mode depending on the Shooting mode.

*5 Continuous shooting speed will be reduced when used together with built-in or external flash.

*6 Speed will be slowing after taking some shots.

*7 Speed will be slowing after taking some shots.

*8 Wi-Fi does not work

*9 For movies, compatible Memory Stick PRO Duo (Mark2), Memory Stick PRO-HG Duo, Memory Stick XC-HG Duo, Memory Stick Micro (Mark2), SD/SDHC/SDXC memory card or microSD/microSDHC/microSDXC card (Class 4 or faster speed is recommended) can be used.

*10 with Adaptor (optional)

*11 The LCD screen is turned on, shooting once every 30 seconds, the zoom is switched alternately between the W and T ends the flash strobes once every two times, the power turns on and off once every ten times.

*12 Continuous shooting is possible for approximately 29 minutes (limited by product specifications, default setting, except DSC-RX0, DSC-RX0M2 and DSC-RX100M7).

*13 Indication recording time, which is defined by repeating the cycle: Power on, start recording, zoom (except DSC-RX1, DSC-RX0 series models), stand-by, power off.



*14 Based on non-stop recording until the limit of continuous shooting has been reached, and then continued recording again. Other operations will not be available.

*15 Models capable of extended-gamut recording and HDMI transmission function for both still images and movies.

*16 Shooting interval of maximum recorded pixels.

*17 This camera can play back only the files recorded by itself.

*18 Speed will be slowing after taking some shots. *without CMOS models