

Sony Cyber-Shot RX100 VII Digital Camera Specification

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Specifications

SENSOR TYPE

1.0"-type (0.52" x 0.35") Exmor RS® CMOS sensor, aspect ratio 3:2

NUMBER OF PIXELS (EFFECTIVE)

Approx. 20.1 Megapixels

Lens

LENS TYPE

ZEISS Vario-Sonnar T* Lens, 15 elements in 12 groups (8 aspheric elements including AA lens)

F-NUMBER (MAXIMUM APERTURE)

F2.8(W)-4.5(T)

ND FILTER

-

FOCAL LENGTH (F=)

f = 9.0-72 mm

ANGLE OF VIEW (35 MM FORMAT EQUIVALENT)

84 deg.-12 deg. 30 min. (24-200 mm)¹⁾²

FOCUS RANGE (FROM THE FRONT OF THE LENS)

AF (W: Approx. 0.27 ft [8 cm] to Infinity, T: Approx. 3.29 ft [100 cm] to Infinity)

OPTICAL ZOOM

8.0x

CLEAR IMAGE ZOOM (STILL IMAGE)

20 M Approx. 16x/10 M Approx. 22x/5.0 M Approx. 32x/VGA Approx. 121x3

CLEAR IMAGE ZOOM (MOVIE)

4K: Approx. 12x / HD: Approx. 16x3



DIGITAL ZOOM (STILL IMAGE)

20 M Approx. 32x/10 M Approx. 44x/5.0 M Approx. 64x/VGA Approx. 121x3

DIGITAL ZOOM (MOVIE)

Approx. 32x3

Screen

SCREEN TYPE

7.5 cm(3.0-type)(4:3)/921,600 dots/Xtra Fine/TFT LCD

ADJUSTABLE ANGLE

Up by approx. 180 degrees, down by approx. 90 degrees

DISPLAY SELECTOR (FINDER/LCD)

Auto/EVF (Manual)/Monitor (Manual)

MS ASSIST MAGNIFICATION

5.3x, 10.7x

TOUCH PANEL

Yes

Viewfinder

SCREEN TYPE/NUMBER OF DOTS

0.39-type electronic viewfinder(OLED), 2,359,296 dots

FIELD COVERAGE

100%

MAGNIFICATION

Approx. 0.59x with 50 mm lens at infinity, -1m-1

(diopter) (35 mm equiv.)

EYE POINT

Approx. 20 mm from the eyepiece, 19.8 mm from the eyepiece frame at -1 m-1

(diopter) (CIPA standard)

DIOPTER ADJUSTMENT

-4.0 to +3.0 m-1

BRIGHTNESS CONTROL



Auto, Manual (5 steps)

Camera

IMAGE PROCESSING ENGINE

Yes (BIONZ X)

STEADYSHOT (STILL IMAGE)

Optical

STEADYSHOT (MOVIE)

Yes (Intelligent Active Mode, Optical type with electronic compensation, Anti Rolling type)

FOCUS TYPE

Fast Hybrid AF (phase-detection AF/contrast-detection AF)

FOCUS MODE

Single-shot AF, Automatic AF, Continuous AF, DMF, Manual Focus

FOCUS AREA

Wide (357 points [phase-detection AF], 425 points[contrast-detection AF]), Zone, Center, Flexible Spot (S/M/L),

Expanded Flexible Spot, Tracking (Wide/Zone/Center/Flexible Spot[S/M/L]/Expanded Flexible Spot)

OBJECT TRACKING

Yes (Tracking)

EYE AF

[Still images] Human (Right/Left Eye Select)/Animal; [Movie] Human (Right/Left Eye Select)

LIGHT METERING MODE

Multi Pattern, Center-Weighted, Spot, Entire Screen Avg, Highlight

EXPOSURE COMPENSATION

+/- 3.0EV, 1/3EV step

ISO SENSITIVITY (STILL IMAGE)(RECOMMENDED EXPOSURE INDEX)

Auto (ISO100-12800, selectable with upper/lower limit),

100/125/160/200/250/320/400/500/640/800/1000/1250/1600/2000/2500/3200/4000/5000/6400/8000/10000/12800

(extendable to ISO64/80), Multi-Frame NR:Auto (ISO100-12800), 100/200/400/800/1600/3200/6400/12800/256004

ISO SENSITIVITY (MOVIE)

Auto: (ISO100–ISO12800 Level, selectable with upper/lower limit),



100/125/160/200/250/320/400/500/640/800/1000/1250/1600/2000/2500/3200/4000/5000/6400/8000/10000/12800

WHITE BALANCE MODES

Auto, Daylight, Shade, Cloudy, Incandescent, Fluor.: Warm White, Fluor.: Cool White, Fluor.: Day White, Fluor.:

Daylight, Flash, Underwater Auto, C.Temp./Filter, Custom

WB MICRO ADJUSTMENT

Yes(G7 to M7,57-step)(A7 to B7,29-step)

SHUTTER SPEED

iAuto (4" - 1/2000)/Program Auto (30" - 1/2000)/Manual (Bulb, 30" - 1/2000)/Aperture Priority (30" - 1/2000)/Shutter

Priority (30" - 1/2000)5

ELECTRONIC SHUTTER

[Single Shooting] iAuto (4" — 1/32000)/Program Auto(30" — 1/32000)/Manual(30" — 1/32000)/Aperture Priority(30"

— 1/32000)/Shutter Priority(30" — 1/32000);, [Continuous Shooting/Single Burst Shooting] 1/8 — 1/32000

APERTURE

iAuto (F2.8/F11 [W])/Program Auto (F2.8/F11 [W])/Manual (F2.8/F11 [W])/Shutter Priority (F2.8/F11 [W])/Aperture

Priority (F2.8/F11 [W])

IMAGE CONTROL

Contrast, Saturation, Sharpness, Creative Style, Color Space (sRGB/Adobe RGB), Quality (RAW/RAW&JPEG [Extra

fine, Fine, Standard]/JPEG [Extra fine, Fine, Standard])

NOISE REDUCTION

Long exposure NR: On/Off, available of shutter speeds longer than 1/3 sec., high ISO NR: Normal/Low/Off, Multi

Frame NR: Auto, ISO 100–25600

DYNAMIC RANGE FUNCTIONS

Off, Dynamic Range Optimizer (Auto/Level 1–5), Auto High Dynamic Range (Auto Exposure Difference, Exposure

difference Level (1.0–6.0EV, 1.0EV step)

SHOOTING MODE

AUTO(Intelligent Auto/Superior Auto), Program Auto, Aperture Priority, Shutter Speed Priority, Manual Exposure,

MR(Memory Recall) [body 3 sets/memory card 4 sets], Movie Mode(Program Auto, Aperture Priority, Shutter Speed

Priority, Manual Exposure), HFR Mode (Program Auto, Aperture Priority, Shutter Speed Priority, Manual Exposure),

Panorama, Scene Selection



SCENE SELECTION

Portrait, Sports Action, Macro, Landscape, Sunset, Night Scene, Handheld Twilight, Night Portrait, Anti Motion Blur,
Pet Mode, Gourmet, Fireworks, High Sensitivity

CONTINUOUS SHOOTING SPEED (MAXIMUM) (WITH MAX. RECORDING PIXELS)

[AUTO/Electronic Shutter] Continuous Shooting Hi: approx. 20fps, Continuous Shooting Mid: approx. 10fps,
Continuous Shooting: approx. 5.0fps, Single Burst Shooting Hi: approx. 90fps6, Single Burst Shooting Mid: approx.
60fps6, Single Burst Shooting Low: approx. 30fps6 [Mechanical Shutter] Continuous Shooting Hi: -, Continuous
Shooting Mid: approx. 10fps, Continuous Shooting: approx. 3.0fps 789

SELF-TIMER

10sec./5sec./2sec/3 or 5 consecutive shots with 10sec. 5sec. or 2sec. delay selectable/Bracketing shots with 10sec.
5sec. or 2sec. delay selectable/Single Burst shots with 10sec. 5sec. or 2sec. delay selectable

DRIVE MODES

Single, Continuous shooting, Single Burst Shooting, Self-timer, Self-timer(cont.), Cont.-bracketing10,
Singlebracketing10, White balance bracketing10, DRO bracketing10

INTERVAL REC

Yes (1–60 sec. interval, 1–9999 shots, AE lock/AE tracking(High/Mid/Low))11

PANORAMA (SHOOTING)

Sweep Panorama

PICTURE EFFECT

[Still Image]:Toy camera, Pop Color, Posterization, Retro Photo, Soft High-key, Partial Color, High Contrast Mono.,
Soft Focus, HDR Painting, Richtone Monochrome, Miniature, Watercolor, Illustration, [Movie]:Toy camera, Pop Color,
Posterization, Retro Photo, Soft High-key, Partial Color, High Contrast Mono.

CREATIVE STYLE

Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn Leaves, Black &
White, Sepia, Style Box

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, Color Mode, Saturation, Color Phase, Color Depth, Detail, Copy, Reset)

NUMBER OF RECOGNIZED SCENES



[Still Image]: Superior Auto: 44 / iAuto: 33, [Movie]: 44

Flash

FLASH MODE

Auto / Flash On / Slow Synchro / Rear Sync / Flash Off

FLASH TYPE

Built-in, manual pop-up

AF ILLUMINATOR

Auto / Off

BRACKETING

Yes

FLASH RANGE

ISO Auto: Approx. 1.31 ft to 19.35 ft (0.4 m to 5.9 m) (W)/Approx. 3.28 ft to 10.17 ft (1.0 m to 3.1 m) (T), ISO12800:

up to Approx. 40.68 ft (12.4 m) (W)/Approx. 22.96 ft (7.0 m) (T)

Recording

COMPATIBLE RECORDING MEDIA

[XAVC S(100Mbps)] SDXC/SDHC Memory Card (UHS-I U3 or higher); [XAVC S(60 Mbps/50 Mbps)] SDXC/SDHC

Memory Card (Class 10 or higher); [AVCHD/Still image] Memory Stick Duo, Memory Stick PRO Duo, Memory Stick

PRO-HG Duo, Memory Stick Micro12, Memory Stick Micro(Mark2)12, SDXC/SDHC/SD Memory Card (Class 4 or

higher), micro SDXC/SDHC/SD Memory Card (Class 4 or higher)12

RECORDING FORMAT

[Still Image]:JPEG(DCF Ver.2.0,Exif Ver.2.31,MPF Baseline compliant), RAW(Sony ARW 2.3 format), [Movie]:XAVC

S, AVCHD format Ver.2.0 compatible

RECORDING FORMAT (MOVIE AUDIO)

XAVC S: LPCM 2ch, AVCHD: Dolby Digital (AC-3) 2ch (Dolby Digital Stereo Creator)

COLOR SPACE (STILL)

sRGB, Adobe® RGB

DCF/DPOF

DCF/DPOF/EXIF/MPF

STILL IMAGE NUMBER OF RECORDED PIXELS (IMAGE SIZE)



3:2 mode: 20 M(5,472x3,648)/10 M(3,888x2,592)/5 M(2,736x1,824), 4:3 mode: 18 M(4,864x3,648)/10 M(3,648x2,736)/5M(2,592x1,944)/VGA, 16:9 mode: 17 M(5,472x3,080)/7.5 M(3,648x2,056)/4.2 M(2,720x1,528), 1:1 mode: 13 M(3,648x3,648)/6.5 M(2,544x2,544)/3.7 M(1,920x1,920), Sweep Panorama: Wide(12,416x1,856/5,536x2,160), Standard(8,192x1,856/3,872x2,160)

MOVIE RECORDING MODE (NTSC)

NTSC/PAL Selector: [NTSC] AVCHD: 24 M FX (1,920x1,080/60i)/17 M FH (1,920x1,080/60i), XAVC S 4K: 30p 100 M (3,840x2,160/30p)/30p 60 M (3,840x2,160/30p)/24p 100 M (3,840x2,160/24p)/24p 60 M (3,840x2,160/24p), XAVC S HD: 60p 50 M (1,920x1,080/60p)/60p 25 M (1,920x1,080/60p)/30p 50 M (1,920x1,080/30p)/30p 16 M (1,920x1,080/30p)/24p 50 M (1,920x1,080/24p)/120p 100 M (1,920x1,080/120p)/120p 60 M (1,920x1,080/120p)

MOVIE RECORDING MODE (PAL)

NTSC/PAL Selector: [PAL] mode AVCHD: 24 M FX (1,920 x 1,080/50i)/17 M FH (1,920 x 1,080/50i), XAVC S 4K: 25p 100 M (3,840 x 2,160/25p)/25p 60 M (3,840 x 2,160/25p), XAVC S HD:50p 50 M (1,920 x 1,080/50p)/50p 25 M (1,920 x 1,080/50p)/25p 50 M (1,920 x 1,080/25p)/25p 16 M (1,920 x 1,080/25p)/100p 100 M (1,920 x 1,080/100p)/100p 60 M (1,920 x 1,080/100p)

HFR

Recording: NTSC/PAL Selector: [PAL] mode XAVC S HD: 50p 50M(1920x1080/250fps), 50p 50M(1920x1080/500fps), 50p 50M(1920x1080/1000fps)/25p 50M(1920x1080/250fps), 25p 50M(1920x1080/500fps), 25p 50M(1920x1080/1000fps), NTSC/PAL Selector: [NTSC] mode XAVC S HD:60p 50M(1,920x1,080/240fps), 60p 50M(1,920x1,080/480fps), 60p 50M(1,920x1,080/960fps)/30p 50M(1,920x1,080/240fps), 30p 50M(1,920x1,080/480fps), 30p 50M(1,920x1,080/960fps)/24p 50M(1,920x1,080/240fps), 24p 50M(1,920x1,080/480fps), 24p 50M(1,920x1,080/960fps) Sensor Readout Number of effective pixels: Quality Priority:240fps/250fps(1,824x1,026),480fps/500fps(1,824x616),960fps/1000fps(1,244x420)/Shoot Time Priority:240fps/250fps(1,824x616),480fps/500fps(1,292x436),960fps/1000fps(912x308)

STILL IMAGE NUMBER OF RECORDED PIXELS (IMAGE SIZE) DURING MOVIE

16:9 mode: 17M (5472x3080)/7.5M (3648x2056)/4.2M (2720x1528)

PROXY RECORDING

Yes (1280 x 720 [Approx. 9 Mbps])

Interface

INPUT AND OUTPUT TERMINALS



Multi/Micro USB Terminal13, High-Speed USB (USB2.0), Micro HDMI, Microphone jack (3.5-mm Stereo mini jack)

NFC

NFC forum Type 3 Tag compatible, One-touch remote, One-touch sharing

WI-FI

Yes(IEEE802.11b/g/n(2.4GHz band))

BLUETOOTH

Yes (Bluetooth Standard Ver. 4.1 (2.4 GHz band))

Power

POWER SOURCE

DC 3.6 V (supplied battery)/DC 5.0 V (supplied AC Adapter)

BATTERY SYSTEM

Rechargeable battery pack (NP-BX1)

POWER CONSUMPTION (CAMERA MODE)

Approx. 2.1W with LCD monitor and approx. 2.3W with viewfinder (CIPA standard)

USB CHARGE/USB POWER SUPPLY

Yes (Shooting, Playback)

BATTERY LIFE(STILL IMAGES)(CIPA)

Monitor:Approx. 260/Approx. 130 min., Monitor (When Auto Monitor off is set to 2 sec):Approx. 310/Approx. 155 min.,

ViewFinder: Approx. 240/Approx. 120 min.14

BATTERY LIFE(MOVIES ACTUAL SHOOTING)(CIPA)

Monitor:Approx. 40 min., ViewFinder: Approx. 40 min.151617

BATTERY LIFE(MOVIES CONTINUOUS SHOOTING)(CIPA)

Monitor:Approx. 70 min., ViewFinder:Approx. 70 min.1516

Others

PLAYMEMORIES CAMERA APPS

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SHOOTING FUNCTIONS

Face Detection, Face Registration, Still Image Recording (during movie recording), Smile shutter, Grid Line, Quick

Navi, Digital Level Gauge (pitch and roll), WB Bracket, DRO Bracketing, MF Assist, Peaking (Display: Off/On) (Level:



High/Mid/Low) (Color: Red/Yellow/Blue/White), Zebra, Marker Display, Audio Rec Level, Audio Level Display, Step

Zoom/Quick Zoom, Self-portrait timer, TC/UB, Copyright Info, ISO Auto Minimum Shutter Speed, PC Remote Control,

Gamma Disp. Assist, [Mov]AF Tracking Sensitivity, [Mov]AF Drive Speed, Set File Name, Touch Shutter/Touch

Focus/Touch Tracking, Touch Pad, My Menu, My Dial

PLAYBACK FUNCTIONS

BRAVIA Sync (Control for HDMI), 9/25-frame index view, Auto Orientation, Slideshow, Forward/Rewind (Movie),

Delete, Protect, Motion Shot Video, Beauty Effect, Photo Capture, Rating, Automatic Image Rotation

TRILUMINOS COLOR

Yes¹⁸

4K IMAGE OUTPUT

Yes

OPERATING TEMPERATURE

0 degrees C. - +40 degrees C. / 32 degrees F. - 104 degrees F.

Print

PRINT

Exif Print, PRINT Image Matching (PIM3)

Size & Weight

DIMENSIONS (W X H X D) (APPROX.)

101.6 x 58.1 x 42.8 mm(4 in. x 58.1 mm x 1 11/16 in.)

WEIGHT (CIPA COMPLIANT)

Approx. 10.7 oz (302 g) (Battery and Memory Card are included) / Approx. 9.8 oz (275 g) (Body Only)

What's In The Box

- Rechargeable Battery Pack (NP-BX1), Micro USB cable, Wrist Strap, Strap Adapter,

Instruction Manual