

SONY

DSC-RX0M2/B

RX0 II 1" (1.0-type) sensor ultra-compact camera

The RX0 II compresses the high-quality imaging technology from the RX-series into an ultra-compact, robust and waterproof body. The ZEISS® Tessar T* 24mm¹ F4.0 fixed wide-angle lens, paired with the 1" (1.0-type) stacked back-illuminated 15.3MP⁵ Exmor RS™ CMOS image sensor and BIONZ X™ image processor deliver sharp images and incredible 4K video⁸ that can be recorded internally. Steady shots with electronic image stabilization and a convenient LCD that tilts up 180° and down 90° for high and low angles shots – ideal for selfie-shooting and vlogging.



Key Features

1" Stacked back-illuminated Exmor RS™ CMOS Sensor

This large 1" (1.0-type) stacked back illuminated Exmor RS[®] image sensor with BIONZ X™ image processing engine not only enhances efficiency and speed of A/D (analogue to digital) conversion through its stacked structure with more circuit sections; it also realizes super-fast readout speed. Additionally, the back illumination technology increases light collection efficiency and reduces noise in shots taken at up to ISO 12,800.

24mm¹ F4 ZEISS® Tessar T* lens

The 24mm¹ F4 ZEISS® Tessar T* lens delivers high-resolution images with less image distortion in peripheral areas, despite its wide-angle lens design. Improved minimum focusing distance is 7.9" (20cm), optimal for selfies and close-up shots. Employing 6 elements in 6 groups including 6 aspheric elements - this ZEISS® lens intensifies recordings' contrast and sharpness. Furthermore, you can capture improved images and suppress occurrence of ghosts and flare by using an optional hood⁸.

Advanced BIONZ X® image processing engine

The RX0 II premium lens and sensor are complimented by the high-speed Sony BIONZ X[®] image processing engine that powers conversion of light captured by the sensor, rendering photos and movies with natural details, realism, richer tonal gradations and low noise. Internal 4K recording⁸ is now possible due to the performance of BIONZ X which has been increased by a factor of about 1.8 compared to the previous RX0. In addition, face and Eye AF speed have been improved along with increased buffer when shooting multiple images continuously.

Internal 4K movie⁸ with image stabilization

The RX0 II offers 4K (3840x2160) 24p/30p internal movie recording⁸ with electronic image stabilization and full pixel readout with no pixel binning to collect approximately 1.7 times the amount of data required for 4K video. This oversampling reduces the appearance of moiré and jaggies and delivers smooth, high quality 4K footage with exceptional detail and depth. Using the Sony Imaging Edge™ mobile application and Movie Edit add-on app, this footage can be transferred to a smartphone, edited, and shared easily across social networks. Even the image stabilization can be enhanced as the Movie Edit add-on app utilizes gyro information captured while shooting. Uncompressed 4K is also available via HDMI output and compatible recording devices.

Compact robust design

The RX0 II's extra rigid super duralumin body and ultra-compact dimensions make great shots easier to take even in the toughest situations. Weighing in at only 0.30 lb. and measuring a miniscule 2.375" x 1.625" x 1.1875", the RX0II is also waterproof² down to 33 ft (10m) without underwater housing and shockproof³ to impact of drops to the ground from heights up to 6.5 ft. (2m). The highly reliable, robust RX0 II is also crushproof⁴ under weights up to 200kgf / 440 lbf / 2000N.

15.3MP⁵ up to 16fps⁶ continuous shooting

Despite its 15.3MP⁵ high pixel count, the super-high-speed image sensor boosts readout speed to the extent that the camera can achieve continuous shooting up to 16fps⁶. This lets you capture moments of fleeting beauty or facial expressions in an instant.

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Super Slow Motion⁷

Slow motion video can be captured up to 120fps in HD with sound. Super slow motion⁷ at frame rates of up to 960/1000fps is available to transform even the most mundane moment into something spectacular. Slow motion shooting at 480/500fps and 240/250fps maintains fine images at nearly HD quality with the choice of Quality Priority mode. End trigger mode lets you capture the decisive moment in super slow motion starting from two or four seconds before the REC button is pressed.

Advanced video features and mic in jack

Desirable filmic looks are available with Picture Profiles which determine the character of movies by changing basic parameters like chromogenic effects and gradation adjustment. S-Log2 is a proprietary gamma setting from Sony that is invaluable for professionals seeking post-production flexibility, and extends the dynamic range of recording to reduce occurrence of blown-out highlights and black crush. Time code is also included which greatly aids in synchronizing cameras in multi-camera shooting. The RX0 II also features a mini microphone input jack which enhances audio through optional external microphones and a Proxy Recording setting that captures a smaller proxy file for faster sharing and editing.

A creative tool from every angle

Miniature dimensions and all-around versatility maximize your freedom to take and use the RX0 II effortlessly anywhere in creative ways — especially with other RX0 II cameras spread around to shoot from various perspectives. Properly-aligned multiple RX0 II cameras can be used together for creative setups from multi-camera angles, 3D, bullet-time to light-field arrays and even volumetric, thanks to the camera's minimal symmetric design and synchronized connectivity. On its own or as part of a full-scale multi-camera system, the RX0 II can extend imaginations and open eyes to unprecedented recording possibilities.

Wireless multi-control function

Thanks to built-in Wi-Fi, up to five cameras can be controlled with Imaging Edge Mobile ver. 7.1 or later and from 6 up to 50 cameras via an access point with Imaging Edge Mobile ver. 7.2 or later (scheduled in 2019 summer)⁹. Simply download free Imaging Edge Mobile⁹ app to your mobile device for remote control of camera shutter release, movie recording start/stop, and instant receiving of captured footage. Bluetooth is also available and allows remote power on/off operation from your mobile device. Wireless control of up to 100 cameras through an access point and wired Ethernet control using optional CCB-WD1 camera control box accessory (one required per camera).

180° tiltable LCD screen

Even with its ultra-compact body, the RX0 II boasts a tilting LCD screen for easy and convenient framing that tilts up 180° and down 90°. This makes it easy for shooting at different high and low angles as well as selfie shooting when flipped up 180°. When paired with the optional VCT-SGR1 Shooting Grip, the RX0 II's close focusing distance and 180° tilting LCD makes it the ideal camera for vlogging.

Interval recording for time-lapse videos

Time-lapse movies document changes with the passing of time. The RX0 II features built-in interval recording, for time-lapse movie creation, that can be set anywhere between 1 and 60 seconds, with a total number up of shots from 1 to 9999. AE tracking sensitivity can be adjusted to "High", "Mid" or "Low" during interval shooting, allowing for reduced changes in exposure over the shooting interval. The still images shot can then be edited into a time-lapse movie on a computer with the Viewer software from the Imaging Edge software suite. A convenient variable-speed preview function is also provided to get an image, on the camera, of how the finished movie will look.

Anti-distortion shutter of up to 1/32000 sec.

Thanks to the Exmor RS[®] sensor's extremely fast readout, the anti-distortion shutter is capable of speeds up to 1/32000 sec. which minimizes image distortion caused by the rolling shutter phenomenon that can otherwise distort shots of swiftly moving subjects and video panning.

Easy exposure and drive mode control

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Select the best mode for your creative needs with exposure modes that include: Program Auto, Manual Exposure, MR (Memory Recall), Movie Mode (Intelligent Auto), Movie Mode (Program Auto), Movie Mode (Manual Exposure), HFR Mode (Program Auto, Manual Exposure), Intelligent Auto, Superior Auto as well as and drive modes that include: Single, Continuous shooting, Speed priority continuous shooting, Self-timer, Self-timer (cont.), Cont.-bracketing*, Single-bracketing*, White balance bracketing*, DRO bracketing* (*self-timer is available).

Custom key creative convenience

You can program preferred, frequently-used functions on your choice of buttons to best adapt the camera to your shooting style. You'll gain prompt, handy fingertip access to your selection of such settings, for faster, more intuitive camera operation.

Picture Effect for advanced image processing

Create personalized art by applying your choice of Picture Effect modes that adjust camera parameters and apply advanced image processing with real-time previews for most effects. You can choose from 12 modes, including Pop Color, Posterization, and Retro Photo.

Creative Style

Bring out the character of your scene with any of 13 Creative Style settings. The camera adjusts color and other parameters of movie and still images while letting you manually fine-tune the contrast, saturation, and sharpness to achieve the look you desire. Saturation settings are not available when B/W or Sepia mode is selected.

Specifications

Camera	
Aperture	F4.0
Continuous Shooting Speed (max) (Max number of recorded pixels)	Speed Priority Continuous Shooting: approx. 16 fps, Continuous Shooting: approx. 3.5 fps*
Creative Style	Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn Leaves, Black & White, Sepia, Style Box
Drive modes	Single Continuous shooting Speed priority continuous shooting Self-timer Self-timer(cont.) Cont.-bracketing* Single-bracketing* White balance bracketing* DRO bracketing* *Self-Timer is available.
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))
Exposure Compensation	+/- 3.0EV, 1/3EV step
Exposure Control	Yes
Focus Area	Wide (25 points(contrast-detection AF))/ Center/ Flexible Spot (S/M/L)/ Expanded Flexible Spot
Focus Mode	Single-shot AF/ Preset Focus/Manual Focus
Image Control	Contrast / Saturation / Sharpness / Creative Style / Color Space(sRGB / Adobe RGB) / Quality(RAW / RAW&JPEG / Extra fine / Fine / Standard)
Imaging Processor BIONZ™	Yes (BIONZ X)
ISO Sensitivity (Still Image)	Auto (ISO125-12800, selectable with upper / lower limit), 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), Multi-Frame NR:Auto (ISO200-25600), 200/ 400/ 800/ 1600/ 3200/ 6400/ 12800/ 25600* *Achieved by using overlay burst shooting.
Light Metering Mode	Multi-segment/ Center-weighted/ Spot (Standard/ Large)/ Entire Screen Avg./ Highlight
Picture Effect for Movie	Pop Color, Posterization, Retro Photo, Soft High-key, Partial Color, High Contrast Mono.

Picture Effect for Still	Pop Color, Posterization, Retro Photo, Soft High-key, Partial Color, High Contrast Mono., Soft Focus, HDR Painting, Richtone Monochrome, Miniature, Watercolor, Illustration
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
Shooting Mode	Program Auto, Manual Exposure, MR(Memory Recall) (body 3 sets / memory card 4 sets), Movie Mode(Intelligent Auto), Movie Mode(Program Auto), Movie Mode(Manual Exposure), HFR Mode(Program Auto, Manual Exposure), Intelligent Auto, Superior Auto
WB micro adjustment	Yes
White Balance Mode	Auto / Daylight / Shade / Cloudy / Incandescent / Fluor.: Warm White / Fluor.: Cool White / Fluor.: Day White / Fluor.: Daylight / Underwater Auto / C.Temp./Filter / Custom
Camera / Number of Recognized Scene	
Movie	10
Still Image	Superior Auto: 10 / iAuto: 10
Camera2	
AE locked when focus is locked	Yes
Auto Orientation	On only
Camera2/Face Detection	
Mode	Mode: Face Priority inAF(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
Camera2/Focus	
Focusing Type	contrast-detection AF
Camera2	
Metering Sensitivity	EV 0 to 18 (at ISO100 equivalent)
Imaging Sensor	
Effective Picture Resolution	Approx. 15.3 Megapixels
Imaging Sensor	1.0-type (13.2 x 8.8mm) Exmor RS CMOS sensor, aspect ratio 3:2
Pixel Gross	Approx. 21.0 Megapixels
Interface	
Input and Output Terminal	Multi/Micro USB Terminal*, Hi-Speed USB (USB2.0), Micro HDMI, Microphone jack(3.5mm Stereo mini jack) *Supports Micro USB compatible device.
Wi-Fi	Yes(IEEE802.11b/g/n(2.4GHz band))
Bluetooth	Yes (Bluetooth Standard Ver. 4.1 (2.4GHz band))
Interface2/Wi-Fi	
Ctrl with Smartphone	Yes
Send to Smartphone	Yes (Select on This Device / Select on Smartphone)
Lens	
F-number (Maximum Aperture)	F4.0
Focal Length (f =)	f=7.9mm
Focus Range (from the front of the lens)	Approx. 20cm (0.66ft.) to Infinity
Lens Type	ZEISS Tessar T* Lens, 6 elements in 6 groups (6 aspheric elements)
Lens/ Clear Image Zoom	
Movie	4K: Approx. 1.5x / HD: Approx. 2x
Still Image	15M Approx. 2x / 7.7M Approx. 2.8x / 3.8M Approx. 4x / VGA Approx. 13x
Lens/ Digital Zoom	
Movie	Approx. 4x
Still Image	15M Approx. 4x / 7.7M Approx. 5.6x / 3.8M Approx. 8x / VGA Approx. 13x

Lens2	
Color Filter	R,G,B primary color mosaic filters
Scan System	Progressive scan
Menu, Indicator/Function Guide	
Beep	Yes(On/Shtutter/Off)
Histogram Indicator	Yes (On/Off)
Microphone / Speaker	
Built-in Microphone	Stereo
Speaker	Mono
Volume Setting	16 steps
Wind noise reduction	Off / On
Operating Speed	
Continuous Shooting (Maximum number of recoded pixels)	Approx.0.06 sec* *
Shutter Release Time Lag	Approx. 0.006 sec.
Other Functions	
Area Setting	Yes
Clock Function, Setting	Yes
Power Saving	1min / 2min / 5min / 30min
Write Date	On / Off
Optional Accessory Capability	
Tripod Receptacle	Yes
Others	
4K image output	Yes
Digital Level Gauge	Yes (Pitch and roll)
Operating Speed	Start-up Time (Approx. 1.9 sec.) / Shooting Time Lag (Approx. 0.60 sec.) / Shooting Interval (Approx. 0.96 sec.)
Other Playback Function	BRAVIA Sync(Control for HDMI) 9/25-frame index view Slide Show Forward/Rewind (Movie) Delete Protect Rating
Other Shooting Functions	Eye AF, One Push AF, Face Detection, Face Registration ,Grid Line, WB, Bracket, DRO Bracketing, MF Assist, Peaking(High/Mid/Low/Off)(Color:Red/Yellow/Blue/White), Zebra, Marker Display, Audio Level Display, TC/UB, Photographer Name & Copyright, ISO Auto Minimum Shutter Speed, PC Remote Control, Gamma Disp. Assist, Flip, Self-portrait Self-timer, My Menu, Digital Level Gauge
TRILUMINOS Color	Yes
PC Link2	
PlayMemories Home	Yes
Playback	
Maximum Playback Size	Under 15M(4,800 x 3,200)
Playback2	
Auto Orientation (Auto pict rotation in response to camera position in playback)	Yes
Automatic Image Rotation	Yes
Delete	Single / Select / Folder / Date / Group
Index	9 / 25 images
Protect	Select / Folder / Date / Group
Rotate	Yes

Zoom Magnification of Playback Mode	Depends on Image Size
Playback2/Single Image	
Cue, Review (Movie)	Yes
Slow Playback (Movie)	Yes
Playback2/Slide Show	
Movie	Yes
Video Out	4k (HDMI)
Playback2/Slide Show Settings	
Image	All
Interval	1 / 3 / 5 / 10 / 30 sec.
Repeat	On / Off
Power	
Battery System	Rechargeable battery pack NP-BJ1
Power Consumption (Camera mode)	Approx. 1.3W
Power Source	DC3.7V(supplied battery) / DC5.0V(supplied AC Adaptor)
USB Charge/USB Power Supply	Yes (Shooting, Playback)
When shooting actual movie(CIPA)	Approx. 35min.
When shooting continuous movies (CIPA)	Approx. 60min. * <small>*Based on non-stop recording until the limit (29 minutes or 4GB) has been reached, and then continued recording again. Shooting functions such as zoom will not be available.</small>
When shooting still images (CIPA)	Approx. 240shots / Approx. 120min
Power, Others/AC Adaptor (Supplied)	
Output voltage	DC 5.0V, 1500mA
Power Requirements	AC 100V to 240V, 50/60 Hz, 0.2A
Power, Others	
Body Material	Aluminium Face
Operating Temperature	32 F. - 104 degrees F. (0 C. - +40 degrees C.)
Storage Temperature	-4 F. - +131 degrees F. (-20 C. - +55 degrees C)
Power, Others/Supplied Battery	
Capacity for Shooting	2.6Wh(700mAh)
Maximum Voltage	4.2V
Nominal Voltage	3.7V
Print	
Exif Print	Yes
PRINT Image Matching (PIM3)	Yes
Recording	
Color Space (Still)	sRGB, Adobe RGB
DCF/DPOF	DCF/DPOF/EXIF/MPF
Recording Format(Movie)	XAVC S 4K, XAVCS HD, AVCHD format Ver.2.0 compatible
Recording Format(Movie Audio)	XAVC S 4K:LPCM 2ch, XAVC S HD:LPCM 2ch, AVCHD:Dolby Digital(AC-3) 2ch(Dolby Digital Stereo Creator)
Recording Format(Still Image)	JPEG(DCF Ver.2.0,Exif Ver.2.31,MPF Baseline compliant), RAW (Sony ARW 2.3 format)
Still Image Number of recorded pixels (Image Size)	3:2mode: 15M(4,800 x3,200) / 7.7M (3,408x2,272) / 3.8M (2,400x1,600), 4:3mode: 14M (4,272x3,200) / 6.9M (3,024x2,272) / 3.4M (2,128x 1,600) / VGA, 16:9 mode:13M (4,800x2,704) / 6.5M (3,408x 1,920) / 3.2M (2,400x 1,352),1:1 mode:10M (3,200x 3,200) / 5.2M (2,272x2,272) / 2.6M (1,600x1,600)

Video Resolution	<p>NTSC/PAL Selector: (PAL) mode AVCHD: 24M FX(1,920x1,080/50i) / 17M FH(1,920x1,080/50i) XAVC S 4K: 25p 100M(3,840x2,160/25p) / 25p 60M(3,840x2,160/25p) HFR XAVC S HD: 50p 50M(1,920x1,080/50p) / 50p 25M(1,920x1,080/50p) / 25p 50M(1,920x1,080/25p) /25p 25M(1,920x1,080/25p)/ 100p 60M(1,920x1,080/100p) / 100p 100M(1,920x1,080/100p)</p>
	<p>NTSC/PAL Selector: (NTSC) AVCHD: 24M FX(1,920x1,080/60i) / 17M FH(1,920x1,080/60i) 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 60M(1,920x1,080/120p) / 120p 100M(1,920x1,080/120p) NTSC/PAL Selector: (PAL) mode XAVC S HD: 50p 50M(1,920x1,080/250fps), 50p 50M(1,920x1,080/500fps) / 50p 50M(1,920x1,080/1000fps) / 25p 50M(1,920x1,080/250fps) 25p 50M(1,920x1,080/500fps), 25p 50M(1,920x1,080/1000fps) 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)</p>
Recording2/Capacity on a memory card that tested and proven with cameras	
Memory Stick Micro	16GB
microSD Memory Card	128GB
Recording2	
Recording Format	Still Images: JPEG (DCF, Exif, MPF Baseline) compliant, DPOF compatible
Screen	
Adjustable angle	Up by approx. 180degrees, down by approx. 90degrees
Brightness control	Manual(5 steps) / Sunny Weather
Screen Type	1.5type (3.8 cm)(4:3) / 230,400 dots / Clear Photo / TFT LCD
USB	
LUN Settings (Multi/Single)	Multi / Single
Auto (MultiConfiguration)	Yes
Mass Storage	Yes
MTP	Yes
Video Out	
Video Out Mode	NTSC / PAL
Weights and Measurements	
Dimensions (Approx.)	2 3/8 x 1 5/8 in. x 1 7/16 in. (59.0 x 40.5x 35.0 mm) AC Adaptor (supplied): 29/32 in. x 1 1/4 in. x 1 3/4 in (23.0 x 31.6 x 43.3mm)
Weight (Approx.)	4.7 oz (132 g, (Battery and microSD Memory Card are included) 4.1 oz (117 g, Body Only) AC Adaptor: 1.2 oz (34 g)
Accessories	

Supplied Accessories

Rechargeable Battery Pack NP-BJ1
AC Adaptor
Micro USB cable
Wrist Strap
Memory card protector
Instruction Manual

1. 35mm equivalent
 2. Waterproof down to 33 ft (10m) without underwater housing. The minimum focusing distance increases underwater, causing angle of view to narrow.
 3. When dropped onto plywood that is 5cm/2 in. thick from heights up to 6.5ft. Conforms to MIL-STD-810G 516.7 shock test (U.S. Military Standard).
 4. No guarantee is made regarding damage to, malfunction of, or waterproof/dustproof/shockproof/crushproof performance of this camera, depending on conditions and circumstances of use.
 5. Approximate effective megapixels
 6. In Speed Priority Continuous mode. Focus and exposure settings fixed at first shot
 7. Up to 960fps NTSC / 1000fps PAL super slow motion can be recorded. Sound cannot be recorded when shooting slow motion. A Class 10 or higher SDXC or SDHC memory card is required. NTSC/PAL mode is switchable through its menu. Image quality approaches Full HD quality at 240fps NTSC / 250fps PAL in Quality Priority mode.
 8. Supplied as a part of VFA-305R1 Filter Adaptor Kit.
 9. RX0 and RX0 II models cannot be used with radio control at the same time. Control up to five cameras with Imaging Edge Mobile ver. 7.1 or later and from six cameras up to 50 cameras via an access point with Imaging Edge Mobile ver. 7.2 or later (scheduled in 2019 summer), according to Sony's internal testing. Depending on the specifications of the access point, smartphone, and tablet to be used, and the radio wave environment of the installation location, the number of devices that can be connected may change.
 10. Optional Camera Control Box CCB-WD1 is required. When using the CCB-WD1, please update your software to the latest version. (Supported with ver. 2.00 or later.). Up to 100 pairs of DSC-RX0M2 and Camera Control Box can be connected, according to Sony's internal testing.
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