

# SONY

## DSC-RX0

### RX0 1" sensor compact Production Camera

With boundless capability contained within a strong, waterproof, miniature body, the RX0 combines cutting-edge imaging performance and rugged, ready-for-anything design for more versatile operation all around, whether on its own or with multi-camera systems and accessories. Shoot freely. View the results as you like. With so much creative shooting freedom at your fingertips, your power to bring your visions to life is limitless.



### Key Features

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#### A creative tool from every angle

Miniature dimensions and all-around versatility maximize your freedom to take and use the RX0 effortlessly anywhere in creative ways — even with other RX0 cameras spread around to shoot from various perspectives. Respective optical axes of multiple RX0 cameras used together can be properly aligned for flexible setups, thanks to the cameras' minimal symmetric design. On its own or as part of a full-scale multi-camera system, the RX0 can extend imaginations and open eyes to unprecedented recording possibilities.

#### 24mm<sup>1</sup> F4 ZEISS® Tessar T\* lens

The 24mm<sup>1</sup> F4 ZEISS® Tessar T\* lens delivers high-resolution images with less image distortion in peripheral areas, despite its wide-angle lens design. 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 hood<sup>8</sup>.

#### 1" Stacked back illuminated Exmor RS™ CMOS Sensor

This large 1" (1.0-type) stacked back illuminated Exmor RS® image sensor with DRAM chip not only enhances efficiency and speed of A/D conversion through its stacked structure with more circuit sections; it also realizes super-fast readout speed - thanks to a DRAM chip integrated into the sensor structure. Additionally, the back illumination technology increases light collection efficiency and reduce noise in shots taken at up to ISO 12,800.

#### BIONZ X® image processor

The RX0's 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.

#### Robust, mobile design for extended shooting

The RX0's extra rigid super duralumin body and ultra-compact dimensions make great shots easier to take even in the toughest situations. Waterproof<sup>2</sup> down to 33 ft (10m) without underwater housing and shockproof<sup>3</sup> to impact of drops to the ground from heights up to 6.5 ft. (2m), the highly reliable, robust RX0 is also crushproof<sup>4</sup> under weights up to 200kgf / 440 lbf / 2000N.

#### Super Slow Motion<sup>7</sup>

Super slow motion<sup>7</sup> 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

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

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## **Up to 16fps<sup>6</sup> continuous shooting**

Despite its 15.3MP<sup>5</sup> high pixel count, the super-high-speed image sensor boosts readout speed to the extent that the camera can achieve continuous shooting up to 16fps<sup>6</sup>. This lets you capture moments of fleeting beauty or facial expressions in an instant.

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

Thanks to the Exmor RS<sup>®</sup> 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.

## **Internal HD with 4k via HDMI output**

The RX0 can capture Full 1080 up to 60p and 720 up to 120p internally while 4K (3840x2160) is supported via HDMI Output. For production flexibility, you can use Clean HDMI output to record uncompressed video to an external recorder in your choice of formats and bitrates, including un-compressed 4K (3840x2160) movie. You also enjoy full pixel readout from the Exmor RS<sup>®</sup> sensor delivering stunning high-precision 4K images with suppressed moiré and jaggies without pixel binning or line skipping. Video recording is not limited to 30 minutes like other compact cameras.

## **Wireless multi-control function**

Thanks to built-in Wi-Fi, up to five cameras can be remotely controlled from a smartphone or tablet. Simply download free PlayMemories 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 more than five cameras through an access point and wired Ethernet control of multiple cameras is under development.

## **Easy exposure and drive mode control**

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).

## **Various accessories for diverse use**

The RX0 is minimal in physical dimensions and design, yet so tremendously versatile that it is wonderfully ingenious in every sense. Yet, the more accessories and other cameras you use it with, the more you can appreciate how thoughtfully every aspect of such a multi-camera system is integrated to accommodate a range of shooting needs and creative ambitions.

## **Preset Focus**

For movie shooting, you can choose MF (manual focus) or PF (preset focus) mode. If you select PF mode, the RX0 automatically focuses on a subject in the range farther than approx. 3' (1m). Also, while the RX0 is in PF mode, if you activate "NEAR" focusing range, the camera automatically focuses on a nearby subject (within approx. 3' (1m) range).

## **MF Assist and Peaking functions refine focus**

To help you fine-tune focus, Manual Focus (MF) Assist magnifies the area you are focusing on to enable more precise adjustment, while Peaking highlights the sharpest or most in-focus area with your choice of color to help determine whether further focusing adjustment is required.

## **LCD monitor and intuitive interface**

The LCD monitor on the back of the compact body lets you easily check settings, angles and composition for shooting, and check images after they are recorded. Operation is intuitive, thanks to the clear, sensible operation menu scheme that this camera shares with RX series cameras.

## **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**

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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	
Electronic Shutter	1/4" - 1/32000
Aperture	F4.0
Continuous Shooting Speed (max) (Max number of recoded pixels)	Speed Priority Continuous Shooting: approx. 16 fps, Continuous Shooting: approx. 5.5 fps*4
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™	BIONZ X
ISO Sensitivity (Movie)	Auto:(ISO125Level-ISO12800Level, 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
ISO Sensitivity (Still Image)	Auto(ISO125-12800, selectable with upper / lower
Light Metering Mode	Multi Pattern Center Weighted Spot
Minimum Illumination (Movie)	Auto: 6lux (Shutter Speed 1/30")
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
<b>Camera / Number of Recognized Scene</b>	
Movie	10
Still Image	Superior Auto: 10 / iAuto: 10
<b>Camera2/Focus</b>	
Focusing Type	Contrast-detection AF
<b>Camera2/Face Detection</b>	
Mode	Off/On(Regist Faces)/On
<b>Camera2</b>	
AE locked when focus is locked	Yes
Auto Control Range	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(ISO125-12800), 200/400/800/1600/3200/6400/12800/25600* *Achieved by using overlay burst shooting.
Metering Sensitivity	EV 0 to 18 (at ISO100 equivalent)
<b>Imaging Sensor</b>	
Effective Picture Resolution	15.3 Megapixels (approx.)
Imaging Sensor	1.0-type (13.2 x 8.8 mm) Exmor RS CMOS sensor, aspect ratio 3:2
Pixel Gross	21.0 Megapixels (approx.)
<b>Interface</b>	
Input and Output Terminal	Multi/Micro USB Terminal*, Hi-Speed USB (USB2.0), Micro HDMI, Microphone jack (3.5mm Stereo mini jack) <small>*Supports Micro USB compatible device.</small>
Wi-Fi	Yes (IEEE802.11b/g/n (2.4GHz band))
Bluetooth	Yes (Bluetooth Standard Ver. 4.1 (2.4GHz band))
<b>Interface2</b>	
Ctrl with Smartphone	Yes
Send to Smartphone	Yes (Select on This Device / Select on Smartphone)
<b>Lens</b>	
35mm format equivalent (Movie16:9)	f=24mm Movie 4K: f=24mm
35mm format equivalent (Still Image1:1)	f=30.7mm
35mm format equivalent (Still Image16:9)	f=25.2mm

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35mm format equivalent (Still Image3:2)	f=24mm
35mm format equivalent (Still Image4:3)	f=26mm
F-number (Maximum Aperture)	F4.0
Focal Length (f = )	f=7.7mm
Focus Range (from the front of the lens)	Approx. 50cm (1.7 ft.) to Infinity
Lens Type	ZEISS Tessar T* Lens, 6 elements in 6 groups (6 aspheric elements)
<b>Lens2</b>	
Color Filter	R,G,B primary color mosaic filters
Scan System	Progressive scan
<b>Menu, Indicator/Function Guide</b>	
Beep	Yes (On/Shutter/Off)
Histogram Indicator	Yes (On/Off)
<b>Microphone / Speaker</b>	
Built-in Microphone	Stereo
Speaker	Mono
Volume Setting	16 steps
Wind noise reduction	Off / On
<b>Operating Speed</b>	
Continuous Shooting (Maximum number of recorded pixels)	Approx.0.06 sec
Shutter Release Time Lag	Approx. 0.005 sec.
<b>Optics/Lens</b>	
Focal Length (35mm equivalent)	(HFR 960fps) f=35 mm (Quality Priority), f=50 mm (Shoot Time Priority) (HFR 480fps) f=24 mm (Quality Priority), f=35 mm (Shoot Time Priority) (HFR 240fps) f=26-75mm (Quality Priority), f=26-75mm (Shoot Time Priority)
<b>Other Functions</b>	
Shock Proof	Yes (2.0m/6.5ft MIL-STD810G C1 Method516.7-Shock)* *Passed MIL-STD810G C1 Method 516.7-Shock test onto 5cm plywood. Depending on use conditions and circumstances, no guarantee is made regarding damage to, malfunction of, or the water-proof performance of this product.
Area Setting	Yes
Clock Function, Setting	Yes
Demo Mode	On / Off
Dust Proof	Yes (IP6X equivalent)
Power Saving	1min / 2min / 5min / 30min
Water Proof	Yes (IPX8 equivalent)
Write Date	On / Off
<b>Optional Accessory Capability</b>	
Tripod Receptacle	Yes
<b>Others</b>	
4K image output	Yes
Operating Speed	Start-up Time (Approx. 1.7 sec.) / Shooting Time Lag (Approx. 0.45 sec.) / Shooting Interval (Approx. 0.69 sec.)
Other Playback Function	BRAVIA Sync (Control for HDMI)/ 9/25-frame index view/ Slide Show/ Forward/ Rewind (Movie)/ Delete/ Protect
Other Shooting Functions	Eye AF / Face Detection / Face Registration / Grid Line / WB Bracket / DRO Bracketing / MF Assist / Peaking / Zebra / Marker Display / Audio Level Display / TC/UB / Photographer Name & Copyright / ISO Auto Minimum / Shutter Speed / PC Remote Control / Gamma Disp. Assist / Flip
TRILUMINOS Color	Yes
<b>Playback</b>	
Maximum Playback Size	Under 15M (4,800 x 3,200)

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<b>Playback2</b>	
Delete	Select / Folder / Date
Index	9 / 25 images
Protect	Select / Folder / Date
Rotate	Yes
Zoom Magnification of Playback Mode	Depends on Image Size
<b>Playback2/Single Image</b>	
Cue, Review (Movie)	Yes
Slow Playback (Movie)	Yes
<b>Playback2/Slide Show</b>	
Movie	Yes
Video Out	4k (HDMI)
<b>Playback2/Slide Show Settings</b>	
Image	All
Interval	1 / 3 / 5 / 10 / 30 sec.
Repeat	On / Off
<b>Power</b>	
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. *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.
When shooting still images (CIPA)	Approx. 240shots / Approx. 120min
<b>Power, Others/AC Adaptor (Supplied)</b>	
Output voltage	DC 5.0V, 1500mA
Power Requirements	AC 100V to 240V, 50/60 Hz, 0.2A
<b>Power, Others</b>	
Operating Temperature	32 degrees F. - 104 degrees F. (0 degrees C. - +40 degrees C.)
Storage Temperature	-4 degrees F. - +140 degrees F. (-20 degrees C. - +60 degrees C.)
<b>Power, Others/Supplied Battery</b>	
Capacity for Shooting	2.6Wh (700mAh)
Maximum Voltage	4.2V
Nominal Voltage	3.7V
<b>Print</b>	
Exif Print	Yes
PRINT Image Matching (PIM3)	Yes
<b>Recording</b>	
Color Space (Still)	sRGB, Adobe RGB
DCF/DPOF	DCF/DPOF/EXIF/MPF
Recording Format(Movie)	XAVC S AVCHD format Ver.2.0 compatible MP4
Recording Format(Movie Audio)	XAVC S:LPCM 2ch AVCHD:Dolby Digital(AC-3) 2ch(Dolby Digital Stereo Creator) MP4:MPEG-4 AAC-LC 2ch
Recording Format(Still Image)	JPEG(DCF Ver.2.0,Exif Ver.2.31.MPF Baseline compliant), RAW (Sony ARW 2.3 format)

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Still Image Number of recorded pixels (Image Size)	3:2mode:15M (4,800x3,200) / 7.7M (3,408x2,272) / 3.8M (2,400x1,600) 4:3mode: 14M(4,272x3,200) / 6.9M (3,024x2,272) / 3.4M (2,128x1,600) / VGA (16:9mode) :13M (4,800x2,704) / 6.5M(3,408x1,920) / 3.2M (2,400x1,352), 1:1 mode:10M(3,200x3,200) / 5.2M(2,272x2,272) / 2.6M(1,600x1,600)
Media Type	Memory Stick Micro Memory Stick Micro (Mark2) microSD Memory Card microSDHC Memory Card microSDXC Memory Card
Still Image Size 16:9	13M (4,800x2,704) / 6.5 M(3,408x1,920) / 3.2 M(2,400x1,352)
Still Image Size 3:2	15M (4,800x3,200) / 7.7 M(3,408x2,272) / 3.8 M(2,400x1,600),
Video Resolution	NTSC/PAL Selector: (PAL) mode AVCHD: PS- 1,920x1,080/ 50p @ 28Mbps FX- 1,920x1,080/ 50i @ 24Mbps FH- 1,920x1,080/ 50i @ 17Mbps FX- 1,920x1,080/ 25p @24 Mbps FH- 1,920x1,080/ 25p @17Mbps XAVC S HD: 1,920x1,080/ 50p @ 50Mbps 1,920x1,080/ 25p @50Mbps 1,920x1,080/ 100p @100Mbps MP4: 1,920x1,080/ 50p @ 28Mbps 1,920x1,080/ 25p @16Mbps 1,280x720/ 25p @6Mbps  (NTSC) AVCHD: PS- 1,920x1,080/ 60p @28Mbps FX- 1,920x1,080/ 60i @24Mbps FH- 1,920x1,080/ 60i @17Mbps FX- 1,920x1,080/ 24p @24 Mbps FH- 1,920x1,080/ 24p @17Mbps XAVC S HD: 1,920x1,080/ 60p @50Mbps 1,920x1,080/ 30p @50Mbps 1,920x1,080/ 24p @50Mbps 1,920x1,080/ 120p @50Mbps MP4: 1,920x1,080/ 60p @28Mbps 1,920x1,080/ 30p @16Mbps 1,280x720/ 30p @6Mbps
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	
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	
2D (Auto)	Off/On

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Video Out Mode	NTSC / PAL
Weights and Measurements	
Dimensions (Approx.)	2 3/8 x 1 5/8 x 1 3/16 in. (59.0 x 40.5 x 29.8 mm) AC Adaptor (supplied): 29/32 x 1 1/4 x 1 3/4 in (23.0 x 31.6 x 43.3 mm)
Weight (Approx.)	3.9oz. (110g) (Battery and microSD Memory Card are included) /3.4oz.( 95g) (Body Only) (CIPA compliant) AC Adaptor (supplied): 1.2 oz (34 g)
Accessories	
Supplied Accessories	Rechargeable Battery Pack NP-BJ1 AC Adaptor AC-UUD12 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. Ver. 6.1 or later is required.

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