

# SONY

## DSC-RX100M4

Inside the compact RX100 IV is the world's first 1-inch stacked back-side illuminated Exmor RS<sup>®</sup> CMOS sensor<sup>1</sup> — a remarkable advance in image shooting possibilities. Use it to reveal the wonders of up to 40x super slow motion<sup>3</sup>, super-high-speed 1/32000 sec. Anti-Distortion Shutter, and handy 4K movies<sup>2</sup>. Now Explore super-speed imaging beyond human vision..

### Key Features

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#### **World's first 20.1 MP 1" Exmor RS<sup>®</sup> stacked back illuminated CMOS sensor<sup>1</sup>**

Introducing the world's first<sup>1</sup> 1" (1.0-type) stacked CMOS image sensor with DRAM chip and a blazingly fast shutter speed of up to 1/32000. This new Exmor RS<sup>®</sup> sensor not only enhances efficiency and speed of A/D conversion through its stacked structure with more circuit sections; it also realizes over five times faster readout speed of the previous RX100 III - thanks to a DRAM chip integrated into the sensor structure. This processing speed allows for stunning 20.1-megapixels at up to 16fps continuous shooting, breathtaking 4k movie and super slow-motion HFR (High Frame Rate) recording of up to 960fps (40x) movie clips - not to mention remarkable low-light low-noise capability.

#### **High resolution Clip-4K movie with direct pixel readout and no pixel binning**

The compact - pocket-size RX100 IV features Clip 4K: short video of up to 5 minute 4K movie recording directly to SD memory card\* - ideal for everyday casual use. High quality 4k is achieved by the 1" Exmor RS<sup>®</sup> CMOS sensor with full pixel readout and no line skipping or pixel binning - resulting in images that exhibit higher resolution and less moire and jaggies than typical 4K movies. Moreover, the XAVC S<sup>™</sup> format is incorporated to maximize high-bitrate shooting up to 100 Mbps for professional quality video.

#### **Super slow-motion movie<sup>3</sup> HFR (High frame rate) up to 960 fps (40x)**

See the unseen with superspeed HFR (High Frame Rate). The RX100 IV can capture super slow motion HFR movie<sup>3</sup> at up to 40x slower than real time. You can chose from 960fps, 480fps or 240fps to playback in XAVC S at 1920 x 1080, in either 60p, 30p or 24p<sup>4</sup>. Choose between "quality priority" (2 sec.) and "shoot time priority" (4 sec.). There's also an option to set "start trigger" or "end trigger" which will start capturing movie before or after you press the movie rec. button so you can time those split-second moments perfectly.

#### **Super-speed Anti-Distortion Shutter at max. 1/32000 sec. up to 14fps**

Thanks to dramatically accelerated sensor readout, shutter speeds of up to 1/32000 sec. minimize distortion caused by rolling shutter phenomenon. This new blazing-fast - Anti-Distortion Shutter system — can capture shots of swiftly moving subjects without altering their shape as conventional CMOS sensors tend to do. Additionally, the super high speed shutter gives you freedom to shoot photos with defocused backgrounds by using large aperture settings under very bright lighting conditions. This is achieved by a combination of 1/32000 super high speed shutter and built-in ND filter that allows photos to be shot in extremely bright light at a maximum of EV19 with a fully open F-number aperture setting.

#### **Bright F1.8- F2.8 ZEISS<sup>®</sup> Vario-Sonnar T\* lens (24-70mm)**

The RX100 IV features a large aperture F1.8-2.8 ZEISS<sup>®</sup> Vario-Sonnar T\* lens with 24-70mm zoom (35mm equivalent). The lens is perfect for portraits and macro shots with beautiful defocused backgrounds (bokeh). Two aspherical lens elements are incorporated into the design to improve sharpness while the premium multi-layered T\* coating also dramatically reduces ghost and flare caused by light reflection.

#### **Fast Intelligent AF thanks to the new Exmor RS<sup>®</sup> CMOS sensor**

With Fast Intelligent AF, the RX100 IV can capture those decisive moments and fleeting opportunities much faster than previous models. It incorporates an autofocus system that enables high-speed, high-precision contrast detection, thanks to Sony's proprietary algorithm and the new Exmor RS<sup>®</sup> CMOS sensor.

#### **Retractable XGA OLED Tru-Finer<sup>™</sup> electronic viewfinder w/ZEISS<sup>®</sup> T\* coating**

View every scene in rich detail with the bright and retractable XGA OLED Tru-Finer<sup>™</sup> electronic viewfinder (EVF) with high resolution equivalent to approx. 2,359k-dots. The viewfinder faithfully displays what will appear in your recording, including the effects of your camera settings, so you can accurately frame your image, focus and monitor the results. The ZEISS<sup>®</sup> T\* coating enhances clarity and reduces flare and reflection in the eyepiece optics.

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## Simple connectivity to smartphones via Wi-Fi® and NFC™ - control, shoot and share

Thanks to built-in Wi-Fi®, you can easily connect to a compatible iOS or Android™ smartphone or tablet with the free PlayMemories™ Mobile App. From there you can control your camera, preview and frame using your mobile device and trigger the camera shutter or movie button. Then instantly transfer a photo or MP4 movie to your device. NFC™ (Near Field Communication) provides “one-touch connection” convenience to Android™ smartphones and tablets with NFC. Simply touch devices to connect. Setting up your mobile device is as simple as downloading a free PlayMemories Mobile app ([www.sony.net/pmm/](http://www.sony.net/pmm/)).

## Personalize your camera with PlayMemories™ Camera Apps<sup>5</sup>.

Add new features to your RX100 IV with PlayMemories™ Camera Apps<sup>5</sup>. Find apps to fit your shooting style - with everything from time lapse to motion shot and more. Use apps that shoot, share and save photos to your smartphone using Wi-Fi®, making it easy to post photos directly to your favorite social media site or backup images to the cloud without connecting to a computer.

## Dual record of 16.8MP photos while shooting movie w/ auto settings

The new Exmor RS® sensor's heightened processing speed enables the RX100 IV to capture high-precision still images up to 16.8MP without pixel binning while recording a movie. You have the option of pressing the shutter release button during movie review, or using the smart Auto Dual Rec function for taking stills automatically while shooting a movie. This function utilizes Sony's advanced Face Detection technology and 11 composition patterns to capture still images. Furthermore, you can choose from 'High', 'Standard' or 'Low' frequency, according to your preferences.

## Enhanced pro-video functions and NTCS/ PAL switchable

The RX100 IV includes professional movie functions such as; Picture Profile, S-Log2/S-Gamut, TC/UB (time code / user bit), Rec Control, Dual Video Recording, marker display function, etc. that have typically been available only in professional-use camcorders. You also have the choice of region setting between NTSC and PAL movie frame rates.

## Selfie-ready multi-angle 3 Xtra Fine™ LCD studying

Selfies have never been easier with a beautiful 3" (1,229k dots) Xtra Fine™ LCD Display that rotates in multiple angles. This also makes it easy to photograph over crowds or low to capture pets eye to eye by swinging up approx. 180° and down approx. 45°. Easily scroll through menus and preview life thanks to WhiteMagic™ technology that dramatically increases visibility in bright daylight. The large display delivers brilliant-quality still images and movies while enabling easy focusing operation.

## Built-in ND filter for wider-ranging photographic expression

Realize a wider range of photographic expression with built-in 1/8 (3 EV stops) ND filter that allows the use of wider aperture for defocused backgrounds even in bright daylight.

## HDMI® clear output for uncompressed video recordings\*

Clean, uncompressed digital movie signal output can be transferred to an external monitor/recorder connected to the RX100 IV via the HDMI® terminal. The RX100 IV can record video simultaneously to internal media and uncompressed video to the external recorder in real time.

## Comfortable control ring for manual operation

A unique control ring around the lens works in combination with an intuitive, display interface for meticulous SLR-type control over settings that satisfies even the most fastidious users. The control ring can be assigned to adjust various features (at various values) from basics like zooming and aperture to creative functions like Picture Effect. Moreover, it turns smoothly and seamlessly, allowing quiet, click-free usage while shooting movies including a new step-zoom function that enables instant selection of commonly used focal lengths.

## Specifications

Imaging Sensor	
Imaging Sensor	1.0-type (13.2mm x 8.8mm) Exmor RS CMOS sensor, aspect ratio 3:2
Pixel Gross	Approx. 21.0 Megapixels
Effective Picture Resolution	Approx. 20.1 Megapixels
Recording	
Color Space	sRGB, Adobe RGB
Still Image Max Effective Resolution	Approx. 20.1 Megapixels
Still Image Size 16:9	L: 17M(5,472x3,080) / M: 7.5M(3,648x2,056) / S: 4.2M(2,720x1,528)
Still Image Size 1:1	L:13M(3,648x3,648) / M: 6.5M(2,544x2,544) / S: 3.7M(1,920x1,920)

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Still Image Size 3:2	L: 20M(5,472×3,648) / M: 10M(3,888×2,592) / S: 5M(2,736×1,824)
Still Image Size 4:3	L: 18M(4,864×3,648) / M: 10M(3,648×2,736) / S: 5M(2,592×1,944) / VGA
Panorama Still Image Size	Wide(12,416×1,856/5,536×2,160), Standard(8,192×1,856/3,872×2,160)
Video Format	XAVC S AVCHD format Ver.2.0 compatible MP4
Video Mode	AVCHD: 28M PS(1,920×1,080/50p) / 24M FX(1,920×1,080/50i) / 17M FH(1,920×1,080/50i) / 24M FX(1,920×1,080/25p) / 17M FH(1,920×1,080/25p)  XAVC S 4K: 25p 100M(3,840×2,160/25p) / 25p 60M(3,840×2,160/25p), XAVC S HD:50p 50M(1,920×1,080/50p) / 25p 50M(1,920×1,080/25p) / 100p 100M(1,920×1,080/100p) / 100p 60M(1,920×1,080/100p)  MP4: 28M(1,920×1,080/50p) / 16M(1,920×1,080/25p) / 6M(1,280×720/25p),
Audio Format	XAVC S: LPCM 2ch AVCHD:Dolby Digital(AC-3) 2ch(Dolby Digital Stereo Creator) MP4: MPEG-4 AAC-LC 2ch
Microphone/Speaker	Stereo / mono
Still Image File Format	JPEG(DCF Ver.2.0,Exif Ver.2.3,MPF Baseline compliant), RAW (Sony ARW 2.3 format)
<b>Optics/Lens</b>	
Lens Type	ZEISS Vario-Sonnar T* Lens, 10 elements in 9 groups (9 aspheric elements including AA lens)
Aperture	iAuto(F1.8/F11(W)) / Program Auto(F1.8/F11(W)) / Manual(F1.8/F11(W)) / Shutter Priority(F1.8/F11(W)) / Aperture Priority(F1.8/F11(W))
Optical Zoom	2.9x(Optical Zoom during movie recording)
Digital Zoom	Still Image: 20M Approx.11x / 10M Approx.16x / 5.0M Approx.23x / VGA Approx.44x Movie: Digital Zoom Approx.11
Focal Length (35mm equivalent)	(Still Image 3:2) f=24-70mm (Still Image 4:3) f=25-73mm (Still Image 16:9) f=26-76mm (Still Image 1:1) f=30.5-89mm (Movie 16:9)f=25.5-74mm(SteadyShot Standard), f=30-86mm(SteadyShot Active), f=33.5-95mm(SteadyShot Intelligent Active) (Movie 4k16:9) f=28-80mm(SteadyShot Standard)
<b>Viewfinder</b>	
Type	0.39-type electronic viewfinder(OLED), 2,359,296dots
Diopter Adjustment	-4.0 to +3.0m-1
Magnification	Approx. 0.59x with 50mm lens at infinity, -1m-1(diopter) (35mm equiv.)
<b>LCD Display</b>	
LCD Type	7.5cm (3.0type) (4:3) / 1,228,800 dots / Xtra Fine / TFT LCD
Brightness Control	Manual(5 steps) / Sunny Weather
Histogram	Yes(On/Off)
<b>Exposure System</b>	
Metering Modes	Multi Pattern,Center Weighted,Spot
Metering Sensitivity	EV 0 to 24 (at ISO100 equivalent)
Exposure Compensation	+/- 3.0EV, 1/3EV step
ISO	Auto(ISO125-12800, selectable with upper / lower
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
<b>Drive System</b>	
Drive Mode	Single, Continuous shooting, Speed priority continuous shooting, Self-timer, Self-timer(cont.), Cont.-bracketing *7, Single-bracketing *7, White balance bracketing *7, DRO bracketing *7

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Continuous Shooting Speed	approx. 14 fps, Continuous Shooting: approx. 5 fps *6
<b>Flash</b>	
Flash Modes	Auto / Flash On / Slow Synchro / Rear Sync / Flash Off
<b>Convenience Features</b>	
Red-Eye Reduction	On / Off
<b>Advanced Features</b>	
Anti Motion Blur	Yes
Sweep Panorama	Sweep Panorama
Face Detection	Yes
Wi-Fi	Yes
<b>Interface</b>	
NFC	NFC forum Type 3 Tag compatible, One-touch remote, One-touch sharing
Wi-Fi	Yes(IEEE802.11b/g/n(2.4GHz band))
<b>Weights and Measurements</b>	
Dimensions (Approx.)	W x H x D: 50mm x 22mm x 54mm (2 in. x 7/8 in. x 2 1/4 in.)
Weight (Approx.)	Approx. 298g (10.5oz.)(Battery and Memory Stick Duo are included)
Weight(Approx) (Main unit only)	Approx. 271g (9.6oz.)(Body Only)
<b>Power</b>	
Battery Type	DC3.6V (supplied battery) / DC5.0V (supplied AC adaptor)
Number of Still Images	Approx. 280 / Approx. 140min.
Supplied Battery Charger	Yes (Shooting, Playback)
Power Consumption (in Operation)	Approx. 1.9W with LCD monitor and approx. 2.3W with viewfinder(CIPA standard)
Power Requirements	AC 100V to 240V, 50/60 Hz, 70mA
<b>Accessories</b>	
Supplied Accessories	Rechargeable Battery Pack NP-BX1 AC AdaptorAC-UB10C/UB10D Micro USB cable Wrist Strap strap adapter Instruction Manual

\*1 At the time of June 2015 press release, based on Sony research.

\*2 Records in up to 29 minute segments.

\*3 Sound cannot be recorded when shooting slow motion. An SDXC memory card of Class 10 or higher is required.

\*4 In NTSC mode. Frame rate is 1000/500/250fps and recording format is 50/25p in PAL mode.

\*5 PlayMemories camera apps require download with existing Sony Entertainment Network account. Download available in all countries/areas where Sony Entertainment Network is available.

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