

DSC-RX10/B

DSC-RX10 Digital Still Camera

Compressed Model Name: DSCRX10/B

UPC: 027242870796

First Customer Ship: 2013-12-01

SRP:

SPPG:

SURE: \$1299.99

Bullets

Short bullets

- 1" 20.2 MP Exmor® R sensor for extreme low-light shots
- Bright F2.8 Zeiss® Vario Sonnar T* Lens (28-200mm)
- Ultra-fast AF thanks to new "BIONZ® X" processing engine
- Selectable click/click-less ring for precise control
- Full HD movies¹ at 60p/24p with full exposure control
- Professional dust/moisture resistant mag-alloy body
- Up to ISO 12800 sensitivity w/ advanced noise reduction
- Sharp 3" multi-angle LCD and bright XGA OLED viewfinder
- Multi-interface Accessory Shoe for system accessories
- Simple connectivity to smartphones via Wi-Fi® or NFC

Marketing

Key Features

Optical brilliance compressed to perfection

Open your eyes. A bright, large-aperture zoom lens, a big, extra-sensitive image sensor and other brilliant features are ready to fire up your passion to create. With the new RX10 — the compact digital camera that puts boundless picture-taking power in your hands and a fresh new outlook in your sights.

Open your outlook across a vast new range

A large F2.8 maximum aperture throughout an expansive 24-200mm (35mm equivalent) zoom range gives you ample opportunity to express your vision. Make a subject stand out — manipulate depth of field to defocus backgrounds for creative effect, as great photographers do. The impeccable Carl Zeiss® Vario-Sonnar T* lens' advanced, compact fixed-lens design optimizes image quality consistently from edge to edge.

More room to zoom at will

Close-up shooting is seamless. No switching to macro mode is needed. Zoom in all the way up to extreme telephoto on a subject as near as 11-inches (30cm) away. The built-in lens makes it more convenient for you to take impressive shots throughout a big range.

More capability now more compact

An advanced aspherical lens (AA lens) reduces diameter and length, and maintains high resolution even at image edges. A new Direct Drive SSM (Super Sonicwave Motor) stops lens movement with spot-on precision. Far-reaching optical flexibility minimizes mechanical dimensions. Precise alignment of the image sensor and lens also perfectly combines diminutive form and outsized performance.

Superior sensitivity makes a clear difference

Containing back-illuminated technology and approximately 4x larger light-sensitive area that other compact DSC (digital still cameras) can't match, Sony's 20.2-megapixel 1.0-inch Exmor R[®] CMOS sensor harnesses light and reduces image noise very efficiently. This, along with high settings of a wide ISO range, allow even photos of dimly lit scenes to look incredibly clear.

New-generation image processing engine, BIONZ[®] X, leads a new world

The groundbreaking new BIONZ[®] X image processing engine not only maximizes picture quality in ways that only a seamlessly unified body and lens design can realize — it also faithfully reproduces textures and details in real time, as seen by the naked eye, with peerless high-speed processing. The experience of shooting and viewing stills and movies expands your senses by depicting true realism with richer tonal gradations and lower image noise than was previously possible. With such a high magnitude of power ready for every situation, BIONZ X naturally leads toward better ways to witness the world in full glory.

Detail reproduction technology

By minimizing digital artifacts that tend to overemphasize hard outlines and rough edges when pictures are reproduced, detail reproduction technology makes images noticeably more lifelike, clean and natural-looking in every detail, texture and dimension.

Diffraction-reducing technology

This maintains outstanding clarity by applying aperture-appropriate filter processing to suppress and compensate for diffraction — a phenomenon that can otherwise limit photographic resolution and cause points of light to appear blurred, especially in images that have been shot using a small aperture (large F-number) setting.

Improved area-specific noise reduction

Now, noise reduction is individually adjusted based on imaging pattern variations, for superior clarity and finer details throughout even images shot in low light.

Quick focusing even at telephoto range

High-speed AF is remarkably smooth thanks to the Direct Drive SSM (Super Sonicwave Motor) with precision-engineered focusing stop positions designed to minimize focusing lens travel distance, which shortens focusing time.

More flexible focus area selection

Choose among three concentric Flexible Spot frames for greater focusing versatility and precision than other cameras' fixed-focus spot frame systems can provide.

Lock-on AF tracks with smart precision

Just press the shutter button halfway to activate¹¹ Lock-on AF. It precisely focuses even on moving subjects by continuously adjusting target frame size based on its recognition of subject characteristics. You can easily stay focused on the main action because this object tracking innovation optimizes autofocus timing. Even when a subject goes out of frame temporarily, tracking resumes at the moment that it is recaptured after re-entering the frame.

New Eye AF on the soul of the subject

Applying advanced detection technology, this new Eye AF function detects and focuses on a subject's eye, even if the subject is facing or looking slightly away from the camera. Then, a blinking green frame appears on that eye in the viewfinder image to indicate the point of focus for the upcoming shot.

More functions broaden creative boundaries

An abundance of powerful higher-performance functions and options are invaluable for capturing moving images of superior resolution and stunning clarity with minimal noise, even while zooming on the action. Plenty of connections make it easy to create an even more versatile production system by hooking up the latest digital recording, monitoring and processing devices to the camera.

Shoot for more in Full HD¹

As Full High Definition (Full HD) movie recording has become a standard of high-performance video recording and playback, Sony advances better ways to take advantage of its potential. Accordingly, the RX10 not only records Full HD movies¹ in the AVCHD Progressive, 1920 x 1080 format — it also lets you select between 60p and 24p shooting modes, for supremely smooth-looking or cinematically expressive movies, respectively. To maintain clear, steady movie shooting results, take advantage of optical image stabilization in Active mode to effectively reduce camera shake.

Ensuring professional-caliber sound and more

The RX10 has plenty of features to realize more of the potential in your movies. To record sound with precision worthy of professional production, connect a high-performance microphone through an input terminal. Monitor pristine stereo sound through premium-quality Sony headphones plugged into the headphone jack. A built-in HDMI® output terminal also accommodates connection of a TV, computer or DVD player/recorder. Audio metering and recording level control are instrumental to keeping soundtracks smooth and consistent. Use the camera's Multi Interface Shoe and an optional XLR Adaptor Kit to hook up external recording, flash and other accessories. It all adds up to a set of professional-class capabilities that is unprecedented among all other compact cameras.

For clean simultaneous signal output

Clear, uncompressed digital movie signal output can be transferred to an external monitor/recorder (connected via the HDMI® terminal) simultaneously in real time from the RX10. The shooting info display can be turned off for even cleaner views of such movies on an external monitor/recorder.

For a truer view of every scene

See spectacular clarity, contrast and detail in every scene, regardless of conditions, on the built-in, bright, high-resolution OLED Tru-Finder™. Four dual-sided aspherical lenses provide a big, approx. 33-degree view angle and maintain excellent edge-to-edge visibility of the electronic viewfinder.

Customizing convenient command

For faster, more intuitive camera operation, you can customize a total of seven buttons by assigning up to 40 types of functions among them. As a result, you will gain more convenient access to your selection of frequently used functions, right at your fingertips.

Thoughtfully designed for effortless operation

The manual ring gives you direct control of certain settings, zooming and focusing, according to the focus mode in use. In addition, before turning the aperture ring to set F-stop, you can turn Aperture Click Switch on for a stepwise feel of assurance, or off for a quiet, smooth feel when setting the aperture. A display panel on top lets you glance at key settings without moving the camera as you look through the viewfinder.

Strong and light enough for anything

Magnesium alloy top and front casings make the RX10 light, solid and robust enough for long, rigorous use by advanced photographers and videographers. The camera's dust- and moisture-resistant design even allows shooting in rugged outdoor environments.

Advanced interface makes it all easy

A new, improved graphical user interface makes access to frequently used functions absolutely effortless. Just press the Fn button to display a list of them.

A flexible rear view covers many angles

An approximately 1,229K-dot tiltable 3.0-inch White Magic™ LCD lets you shoot comfortably from various positions. The display has the flexibility to be tilted within a range of angles extending from about 84 degrees upward to about 45 degrees downward.

Easier contact with smartphones and tablets

Just download the free PlayMemories Mobile app, then instantly connect via Wi-Fi® or NFC (near field communication)* by touching a compatible Android™ smartphone or tablet to the camera. Then, you can remotely control the camera's shutter release from that other mobile device, instantly receive the image on the device and upload transferred images to an SNS site.

PlayMemories Home™

This free, easy-to-use image management software can be installed onto Windows and Mac computers, for downloading photos and movies which can then be viewed, organized, edited, retouched*, printed, burned to disk, shared or uploaded to social networking websites.

TRILUMINOS™ Color - A breathtaking way to relive your fondest memories

Virtually relive moments when you witnessed such nuances as the shades of a shimmering blue sky or a rosy complexion. The RX10 supports Sony TRILUMINOS™ Color for viewing photos* in rich, natural colors on a TRILUMINOS Display™. It can also be connected directly to a 4K monitor via HDMI® cable or Wi-Fi®, and then play back the 4K stills for TV viewing. Extraordinary detail depicted at such high resolution gives 4K images their fresh vibrancy, powerful realism and subtle gradation.

Specifications

Camera	
Camera Type	Cybershot®
Lens Compatibility	Fixed lens
Imaging Sensor	
Imaging Sensor	Exmor R® 1.0" CMOS sensor (13.2 X 8.8mm) (3:2 aspect ratio)
Processor	BIONZ® X image processor
Pixel Gross	20.9M pixels (approx.)
Effective Picture Resolution	20.2M pixels (approx.)
Color Filter System	RGB primary color filters
Recording	
Media Type	Memory Stick Duo, Memory Stick PRO Duo, Memory Stick PRO Duo (High Speed), Memory Stick PRO-HG Duo, Memory Stick XC-HG Duo, Memory Stick Micro®, Memory Stick Micro (Mark2)®, SD Memory Card, SDHC Memory Card (UHS-I), SDXC Memory Card (UHS-I), microSD Memory Card®, microSDHC Memory Card®, microSDXC Memory Card®
Color Space	sRGB, AdobeRGB, xvYCC standard (x.v.Color™ when connected via HDMI® cable) compatible with TRILUMINOS™ color
Still Image Mode	JPEG (Standard, Fine), RAW, RAW+JPEG
Still Image Max Effective Resolution	20.2 Megapixels
Still Image Size 16:9	L: 17M (5472 x 3080) / M: 7.5M (3648 x 2056) / S: 4.2M (2720 x 1528)
Still Image Size 1:1	L: 13M (3648x 3648) / M: 6.5M (2544 x 2544) / S: 3.7M (1920 x 1920)
Still Image Size 3:2	L: 20M (5472 x 3648) / M: 10M (3888 x 2592) / S: 5.0M (2736 x 1824)
Still Image Size 4:3	L: 18M (4864 x 3648) / M: 10M (3648 x 2736) / S: 5.0M (2592 x 1944) / VGA
Panorama Still Image Size	Horizontal wide (12416 x 1856 / 5536 x 2160), Horizontal standard (8192 x 1856 / 3872 x 2160)
Video Format	AVCHD Ver. 2.0 / MP4 (MPEG-4 AVC (H.264))
Video Mode	AVCHD: 28M PS (1920 x 1080, 60p) 24M FX (1920 x 1080, 60i) 17M FH (1920 x 1080, 60i) 24M FX (1920 x 1080, 24p) 17M FH (1920 x 1080, 24p) MP4: 12M (1440 x 1080, 30 fps) 3M VGA (640 x 480, 30 fps)
Video Signal	NTSC color, EIA standards
Audio Format	Dolby Digital (AC-3) / MPEG-4 AAC-LC
Microphone/Speaker	Built-in stereo microphone or ECM-CG50 / XLR-K1M (sold separately)/ Built-in monaural speaker
Still Image Size(Photo Mode)	JPEG (DCF Ver. 2.0, Exif Ver.2.3, MPF Baseline compliant), RAW (Sony ARW 2.3format)
Optics/Lens	
Lens Type	Carl Zeiss® Vario-Sonnar T*, 14 elements in 11 groups (including 7 aspheric elements)
Aperture	F2.8 constant
Optical Zoom	8.3x (Optical Zoom during movie recording)
Digital Zoom	Still Image: 20M approx. 66x / 10M approx. 93x / 5M approx. 133x / VGA approx. 249x (including Optical Zoom) Movie: 66x (including Optical Zoom)

Focal Length (35mm equivalent)	(Still Image 3:2) f = 24-200mm (Still Image 16:9) f = 25-213mm (Still Image 4:3) f = 26-220mm (Still Image 1:1) f = 31-259mm (Movie 16:9) f = 26-212mm (SteadyShot® Standard), f = 29-315mm (SteadyShot Active Mode) (Movie 4:3) f = 31-259mm (SteadyShot Standard), f = 35-386mm (SteadyShot Active Mode)
Aperture Blade	Iris diaphragm (7 blades)
Clear Image Zoom	16.6x (including Optical Zoom)
LCD Display	
LCD Type	3.0" (7.5cm) (4:3) / 1,228,000 dots / Xtra Fine / TFT LCD / Tiltable (up approx. 84 deg., down approx. 43 deg.)
Angle Adjustment	Tilt angle: Up: Approx. 84 degrees; Down: Approx. 43 degrees
Brightness Control	Auto / Manual (5 steps) / Sunny Weather mode
Coverage	100% Field of View
Live View	Continuous Live View
Real-time image adjustment display	Yes (On/Off)
Histogram	Yes (On/off)
Peaking	Yes Level setting: High/Mid/Low/Off Color: White/Red/Yellow
Grid Display	Yes (Rule of Thirds, 4x6 Square, Diagonal 4x6 Square Grids, Off)
Customization	Grid, Histogram display, Digital Level Gauge, Grid Line, Magnified display for playback
Focus Control	
Focus System	Contrast-detect AF
Focus Points	25 points
AF Modes	Single-shot AF (AF-S) / Continuous AF (AF-C) / Direct Manual Focus (DMF) / Manual Focus
Focus Area	Multi point AF (25 points) / Center weighted AF / Flexible spot / Flexible spot (tracking focus) / Flexible spot (face tracking)
Exposure System	
Metering Modes	Multi-segment, Center-weighted, Spot
Exposure Compensation	+/- 3.0 EV, 1/3 EV step
Exposure Settings	(Still) Program Auto (Program shift available), Aperture Priority, Shutter Speed Priority, Manual Exposure, MR (Memory Recall)1, MR2 (Movie) Movie Mode (Program Auto, Aperture Priority, Shutter Speed Priority, Manual Exposure) (Panorama) Scene Selection, AUTO (Intelligent Auto/Superior Auto)
Scene Mode(s)	Portrait, Anti Motion Blur, Sports Action, Macro, Landscape, Sunset, Night Scene, Hand-held Twilight, Night Portrait
D-Range Optimizer	Off, Dynamic Range Optimizer (Auto / Level), Auto High Dynamic Range: Off, Auto exposure difference, Exposure difference level (1.0 - 6.0 EV, 1.0 EV step)
Auto Exposure Lock	Yes (AE Lock button). Can be disabled from menu

ISO	<p>Still Image) Auto (ISO 125 - 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 (Expandable to ISO 80 / 100) Multi Frame NR: Auto (ISO 125 - 25600), 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 256004</p> <p>(Movie) Auto (ISO 125 - 6400 equivalent), 125 / 160 / 200 / 250 / 320 / 400 / 500 / 640 / 800 / 1000 / 1250 / 1600 / 2000 / 2500 / 3200 / 4000 / 5000 / 6400 / 8000 / 10000 / 12800</p>
Creative Style	Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn Leaves, Black White, Sepia, Style Box(Contrast (-3 to +3steps), Saturation(-3 to +3steps), Sharpness(-3 to +3steps)
White Balance Mode	Auto / Daylight / Shade / Cloudy / Incandescent / Fluor (Warm White) / Fluor (Cool White) / Fluor (Day White) / Fluor (Daylight) / Flash / C. Temp., Filter / Custom
Color Temperature	2500 - 9900K with 15-step each Magenta/Green compensation (G7 to M7), Amber/Blue (A7 to B7), Custom
Exposure Bracketing	3 continuous or single shots in 1/3 or 2/3 EV steps
Picture Effect(s)	<p>(Still Image) Toy Camera, Pop Color, Posterization, Retro Photo, Soft High- key, Partial Color, High Contrast Monochrome, Soft Focus, HDR Painting, Rich-tone Monochrome, Miniature, Watercolor, Illustration</p> <p>(Movie) Toy Camera, Pop Color, Posterization, Retro Photo, Soft High-key, Partial Color, High Contrast Monochrome</p>
Drive System	
Drive Mode	Single-shot, Continuous, Speed Priority Continuous, Self-timer (10/2 sec. delay), Self-timer (Cont.), Self-portrait One-person, Self-portrait Two-person, Bracketing
Continuous Shooting Speed	Approx. 10 fps
Self-timer	10 sec. / 2 sec. / Self-portrait One-person/ Self-portrait Two-person/ Self timer Continuous (3 or 5 shots)
Shutter Speeds	Program Auto (1 - 1/32005) / Aperture Priority (8 - 1/32005) / Shutter Priority (30 - 1/32005) / Manual Exposure (Bulb, 30 - 1/3200*4) / iAuto (4 - 1/32005)
Flash	
Flash Type	Built-in, Pop-up Auto
Flash Metering System	Pre-flash TTL
Flash Modes	Flash Mode: Auto / Fill-flash / Slow Sync / Rear Sync / Off
Flash Compensation	±2.0 EV (switchable between 1/3 EV steps)
Flash Coverage	ISO Auto: 3' 3-3/16" to 33' 5" (1.0m to 10.2m) ISO 12800: Up to 66' 11" (Up to 20.4m)
Recycling Time	Approx. 3 sec.
Flash Bracketing	±2.0 EV
Convenience Features	
Media/Battery Indicator	Yes
View Index	Single (with or without shooting information), RGB histogram and highlight/shadow warning, 4/9-frame index view, Enlarged display mode (L: 13.6x, M: 9.9x, S: 6.8x), Auto Review (10/5/2 sec, Off), Image orientation (On/Off), Slideshow, Panorama scrolling, Folder selection (still), Forward/Rewind (movie), Delete, Protect
Advanced Features	
Auto High Dynamic Range	Yes, (Auto Exposure Difference, Exposure difference Level (1-6 EV at 1.0 EV step), off)
Sweep Panorama	Horizontal (Wide/Standard), Vertical (Wide/Standard)
Face Detection	On, Off, Face Registration, Face Selection; maximum eight faces detected

Smile Shutter™ technology	Smile shutter (selectable from 3 steps)
Image Stabilization	(Still Image) Optical (Movie) Active Mode, Optical type with electronic compensation (Anti-rolling)
Priority Setting (for Face Detection)	Yes (eight faces max)
Interface	
Memory Card Slot	Dual compatibility slot: Memory Stick PRO Duo™/Pro-HG Duo™/PRO-HG HX Duo™ media - SD, SDHC and SDXC memory cards
NFC	Yes (NFC Forum Type 3 Tag compatible, One-touch remote, One-touch sharing)
Wi-Fi	Yes
HD Output	HDMI® (Type D micro)
USB Port(s)	USB 2.0 Hi-speed (mass-storage, MTP)
BRAVIA® Sync™	Yes, via HDMI® with compatible BRAVIA® HDTV (link menu)
PhotoTV HD	Yes, with BRAVIA® Sync enabled HDTV and HDMI® cable
Microphone Input	Yes, via MI Shoe + Optional ECM-XYST1M or ECM-CG50
Accessory Shoe	Multi Interface Shoe
Tripod Mount	Yes, 1/4" (20 thread count)
Weights and Measurements	
Dimensions (Approx.)	Approx. 5-1/8 x 3-1/2 x 4-1/8 (129.0 x 88.1 x 102.2 mm) (W/H/D) excluding protrusions
Weight (Approx.)	With battery and Memory Stick PRO Duo Approx. 1 lb. 12.7oz. (813 g)
Weight(Approx) (Main unit only)	Approx. 1 lb. 10.6oz. (755 g)
Power	
Battery Type	InfoLITHIUM® NP-FW50 (7.7V)
Battery Capacity	1080 mAh
Number of Still Images	Approx. 420 images with LCD monitor (CIPA standard)
Power Consumption (In Operation)	Approx. 1.5W
Software	
Supplied Software	Supplied Software: PlayMemories™ Home, Image Data Converter Version 4
Operating System Compatibility	Image Data Converter 4.0: Microsoft Windows® Vista® SP2, Windows® 7 SP1, Windows® 8 (Pentium 4 or faster) Mac OS X (10.6-10.8) (Intel Core Solo/Core Duo/Core 2 Duo or faster) PlayMemories Home: Microsoft Windows® Vista® SP2, Windows® 7 SP1, Windows® 8 (Pentium III 800 MHz or faster; for playing/editing HD movies: Intel Core Duo 1.66 GHz or faster/Intel Core 2 Duo 1.66 GHz or faster; Intel Core 2 Duo 2.26 GHz or faster (AVC HD (FX/FH)) Mac OS X (10.6-10.8) (Intel Core Solo/Core Duo/Core 2 Duo or faster)
Accessories	
Supplied Accessories	Rechargeable Battery Pack NP-FW50 AC Adaptor AC-UB10 Micro USB cable Shoulder Strap Lens cap, Shoe cap Lens Hood Eyepiece Cup Instruction Manual

References

AC-PW20	ECM-CG50	HVL-LEIR1	VCT-MP1	AC-UD11
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AC-UD10

ECM-XYST1M

LCJ-RXE/B

VF-62CPAM

ALC-F49S

Weights & Measurements (PAL)

Model Dimensions: Approx. 5-1/8 x 3-1/2 x 4-1/8 (129.0 x 88.1 x 102.2 mm) (W/H/D) excluding protrusions

Model Weight: With battery and Memory Stick PRO Duo Approx. 1 lb. 12.7oz. (813 g)

Weights & Measurements (SAP)

Package Dimensions: 5.35 x 2.65 x 7.24

Footnotes

1. Records in up to 29 minutes segments.
4. Achieved by using overlay burst shooting.
5. At F8 or greater aperture value. Fastest limit at F2.8 is 1/1600sec.
6. Compatible with BRAVIA® Sync or Theatre Sync™ HDTVs connected via HDMI®.
7. Actual performance varies based on settings, environmental conditions, and usage. Battery capacity decreases over time and use.
8. Requires compatible BRAVIA® HDTV and cable sold separately
9. With Adaptor (not supplied)
10. Files compatible with iMovie® '09 or later on Mac.
11. Shutter button activation of Lock-on AF is only available in AF-C mode

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