SONY
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DSC-RX1R/B

Professional compact digital camera

Specifications

Camera	
Camera Type	Cybershot®
Lens Compatibility	Fixed lens
Imaging Sensor	
Imaging Sensor	35mm full-frame (35.8mm x 23.9mm) Exmor® CMOS Sensor, aspect ratio 3:2
Processor	BIONZ® image processor
Pixel Gross	24.7M pixels (approx.)
Effective Picture Resolution	24.3M pixels (approx.)
Color Filter System	RGB primary color filters
Recording	
Media Type	Memory Stick PRO Duo™/Pro-HG Duo™ media; SD, SDHC and SDXC memory card
Color Space	sRGB standard (with sYCC gamut) and Adobe RGB standard compatible with TRILUMINOS™ Color
Still Image Mode	JPEG (Standard, Fine, Extra Fine), RAW, RAW+JPEG
Still Image Max Effective Resolution	24.3 Megapixels
Still Image Size 16:9	L:20M (6000 x 3376) / M: 8.7M (3936 x 2216) / S: 3.9M (2640 x 1488)
Still Image Size 3:2	L: 24M (6000 x 400) / M: 10M (3936 x 2624) / S: 4.6M (2640 x 1760)
Panorama Still Image Size	Horizontal Standard (8192 x 1856 / 3872 x 2160), Horizontal Wide (12416 x 1856 / 5536 x 2160) 3D Sweep Panorama: N/A
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
Still Image File Format	JPEG (DCF Ver. 2.0, Exif Ver.2.3, MPF Baseline compliant), RAW (Sony ARW 2.3 format)
Wind Noise Reduction	Yes (On/Off)
Optics/Lens	
Lens Type	Carl Zeiss® Vario-Sonnar T* lens, 8 elements in 7 groups (3 aspheric elements including AA lenses)
Aperture	F2.0 - 22
Aperture (Max.)	F2.0
Aperture (Min.)	F22
Digital Zoom	Still Image: 24M approx. 4x / 10M approx. 6.1x / 4.6M approx. 9.1x Movie: Approx. 4x

Focal Length (35mm equivalent)	(Still Image 3:2) f=35mm (Still Image 16:9) f=37mm (Still Image 4:3) f=48mm (Movie 4:3) f=48mm (SteadyShot® On), f-37mm (SteadyShot Off) (Movie 16:9) f=44mm (SteadyShot® On), f=45mm (SteadyShot Off)
Aperture Blade	Iris diaphragm (9 blades)
Clear Image Zoom	2x
LCD Display	
LCD Type	3.0" (7.5cm) (4:3) / 1,229,000 dots / Xtra Fine / TFT LCD
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
Metering Sensitivity	EV 0 to 20 (at ISO100 equivalent)
Exposure Compensation	+/- 3.0 EV, 1/3 EV step
Exposure Settings	(Still) Superior Auto, Intelligent Auto, Program Auto (Program shift available), Shutter Priority, Aperture Priority, Manual, Scene Selection, Movie, Sweep Panorama (Movie) Program Auto, Aperture Priority, Shutter Priority, Manual
Scene Mode(s)	Hand-Held Twilight, Landscape, Night Portrait, Night Scene, Portrait, Sports Action, Sunset
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	(Still Image) ISO 100-25600 (1/3 EV step, expandable to ISO 50/64/80) Auto ISO 100 - 25600, selectable with upper / lower limit Multi Frame NR: Auto (ISO 100-25600, selectable with upper/lower limit), 100-102400 (1 EV step)
Creative Style	Autumn Leaves, Black & White, Clear, Deep, Landscape, Light, Neutral, Night Scene, Portrait, Sepia, Standard, Sunset, Vivid 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
ISO Sensitivity (Movie)	(Movie) Auto ISO: 100 - 3200 equivalent, ISO 100-6400 equivalent (1/3 EV step)

Picture Effect(s)	(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 (Movie) Toy Camera, Pop Color, Posterization, Retro Photo, Soft High-key, Partial Color, High Contrast Monochrome

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, (with 10 sec. delay; 3/5 exposures), Bracketing
Continuous Shooting Speed	Speed Priority Continuous mode: Approx. 5 fps, Continuous mode: Approx. 2.5 fps (AF-S)
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 (30 - 1/4000*)/ Aperture Priority (30 - 1/4000*)/ Shutter Priority (30 - 1/4000*)/ Manual (Bulb, 30 - 1/4000*)(*Maximum speed at F5.6 or greater aperture value. Maximum speed at F2.0 is 1/2000 sec.)
Burst Buffer	JPEG Standard (22 shots) JPEG Fine (16 shots) JPeG Extra Fine (24 shots) RAW (15 shots) RAW+JPEG (12 shots)

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 Wireless (using compatible external flash)
Flash Compensation	±2.0 EV (switchable between 1/3 EV steps)
Flash Coverage	ISO Auto: 1' to 49' 2" (0.30m to 15.0m) (W) / 1' 9" – 18' 8" (0.55m to 5.7m) (T) ISO 12800: Up to 98' 5" (30.0m) (W) / 37' (11.3m) (T)
Recycling Time	Approx. 3 sec.
Guide Number	6 (in meters at ISO 100)
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 (10/5/2sec, 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 card
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, MI Shoe + Optional ECM-XYST1M Stereo Microphone

Remote Commander	Yes, via RM-VPR1
Accessory Shoe	Multi Interface Shoe
DC IN	Yes, via AC-UB10 AC charger and USB cable
Tripod Mount	Yes (1/4" diameter, 20 threads per inch)

Weights and Measurements

Dimensions (Approx.)	4-1/2" × 2-5/8" × 2-3/4" (113.3 x 65.4 x 69.6 mm) (W/H/D) excluding protrusions
Weight (Approx.)	With battery and Memory Stick PRO Duo Approx. 17 oz. (482 g)
Weight(Approx) (Main unit only)	Approx. 16 oz. (453 g)

Power

Battery Type	InfoLITHIUM® NP-BX1 (3.6V)
Battery Capacity	1080 mAh
Number of Still Images	Up to 270 images with LCD monitor (Standard Quality, CIPA standard)
Power Consumption (in Operation)	Approx. 2.0W

Software

Supplied Software	Supplied Software: PlayMemories Home, Image Data Converter Version 4 (via software download from camera)
Operating System Compatibility	PlayMemories Home: Windows® XP SP3, Windows Vista® SP2, Windows®7 SP1, Windows®8 (PlayMemories Home is not Mac compatible); PlayMemories Online Uploader: Windows XP SP3, Windows Vista® SP2, Windows®7 SP1, Windows® 8, Mac OS X (v10.5- v10.8); Image Data Converter Version 4.2: Windows® XP SP3,Windows Vista® SP2,Windows®7 SP1,Windows®8, Mac OS X (v10.5- v10.8)

Service and Warranty Information

Limited Warranty Term	1 Year Parts & Labor

Accessories

Supplied Accessories	Rechargeable Battery Pack (NP-BX1) AC Adaptor (AC-UD11) Micro USB cable Shoulder strap Lens cap Shoe cap Cleaning Cloth Instruction Manual