

EX-ZR1000 Specifications

			EX-ZR1000
Number of Effective Pixels			16.1 megapixels (/million)
Image Sensor			1/2.3-inch high-speed CMOS
	Total Pixels		16.79 megapixels (/million)
File Format	Still Images		RAW ^{*1} , JPEG (Exif Ver.2.3), DCF 2.0, DPOF
	Movies		MOV format, H.264/AVC, IMA-ADPCM (stereo)
Built-in Flash Memory (Image Area) ^{*2}			52.2MB
Recording Media			SD Memory Card, SDHC Memory Card, SDXC Memory Card compatible
Number of Recorded Pixels	Still Images		16M (4608 x 3456), 3:2 (4608 x 3072), 16:9 (4608 x 2592), 10M (3648 x 2736), 5M (2560 x 1920), 3M (2048 x 1536), VGA (640 x 480)
	Movies		FHD:1920x1080 (30fps) / HD ^{*3} :1280x720 (15fps/20fps/30fps) / STD: 640x480 (30fps) / HS1000:224 x64 (1000fps) / HS 480 : 224x160 (480fps) / HS 240 : 512x384(240fps) / HS 120 : 640x480 (120fps) /HS 30-240 : 512x384 (30 to 240fps) / HS 30-120 : 640x480 (30 to 120fps)
Recording Capacity (Maximum Image Size Setting)	Still Images (JPEG)	SD Memory Card 16GB ^{*4}	Fine: Approx. 1072 shots Normal: Approx. 1654 shots
	Movies	Recording Time SD Memory Card 16GB ^{*4}	Maximum recording time per file: 29minutes ^{*5*6} Approx. 2 hours 13 minutes (FHD)
Continuous Shooting Speed			30 frames per second / 15 frames per second / 10 frames per second / 5 frames per second / 3 frames per second
Lens	Construction		9 lenses in 8 groups, including aspherical lens
	F-number		F3.0 (W) to F5.9 (T)
	Focal Length	35mm Film	f= 4.24 to 53.0mm Approx. 24 to 300mm
Zoom Ratio			12.5 x optical zoom, 25.0x Multi SR Zoom, 4x digital zoom, 199.3x maximum digital zoom (in combination with HD zoom, VGA size)
Focusing	Focus Type		Contrast Detection Auto Focus
	Focus Modes		Auto, Macro, Super Macro, Infinity, Manual
	AF Area		Intelligent, Spot, Multi, Tracking
	AF assist lamp		Yes
Focus Range ^{*7} (From Lens Surface)	Auto		Approx. 5cm to infinity (W)
	Macro		Approx. 1cm to 50cm (Fifth step from Widest Setting)
	Super Macro		Approx. 1cm to 50cm
	Infinity		Infinity
	Manual		Approx. 5cm to infinity (W)
Exposure	Exposure Metering		Multi pattern, Center Weighted, Spot by imaging element
	Exposure Control		Program AE, Aperture Priority AE, Shutter Speed Priority AE, Manual Exposure
	Exposure Compensation		-2EV to +2EV (in 1/3EV steps)
Shutter			CMOS electronic shutter and mechanical shutter
	Shutter Speed ^{*8}	Auto	1/4 to 1/2000 second
		Premium Auto PRO	4 to 1/4000 second
		Aperture Priority AE	1 to 1/2000 second
		Shutter Speed Priority AE/Manual Focus	15 to 1/2000 second (high-speed continuous shutter: up to 1/25000 second)
Aperture ^{*9}			F3.0 (W) to F7.9 (W) ^{*10}
White Balance			Auto WB, Daylight, Overcast, Shade, Day White FL, Daylight FL, Tungsten, Manual WB
Sensitivity (SOS) ^{*11}	Still Images		Auto, ISO80, ISO100, ISO200, ISO400, ISO800, ISO1600, ISO3200
	Still images (HS Night Shot)		Maximum ISO25600
	Movies		Auto

Self-Timer		10 seconds, 2 seconds, Triple Self-timer
Built-in Flash	Flash Modes	Auto, Flash off, Flash on, Red eye reduction
	Flash Range ^{*12} (ISO Sensitivity : Auto)	Normal : Approx. 0.4 to 4.7m (W), approx. 0.9 to 2.4m (T)
	Flash Lighting Adjustment	+2,+1,0,-1,-2
	Flash Charge Time	Approximately 5 seconds
Recording Functions		Snapshot (Auto mode/ Premium Auto PRO mode), Snapshot by Handsfree, Snapshot by Super resolution technology(Multi Frame), High Speed Continuous shooting, Prerecord(still image), Marco, Super Marco, Self-timer, BEST SHOT, Face Detection, High Speed Movie(with sound only when 30fps of HS30-120 and HS30-240), FHD Movie, STD Movie, ART Movie, Prerecord (movie), YouTube™ Capture Mode, Blurred Background, HDR, HDR-art, Slide Panorama, Wide Shot, Best Selection, HS Night Shot, ART Shot, CMOS shift stabilization, Wind noise cut, ISO High Limit, Double(HDR ART)
Playback Functions		Playback Zoom, Multi-image Screen, Protect, Date & time Edit, Rotate, Re-size, Trimming, Copy, BGM Slideshow, Brightness, White Balance, Lighting, MOTION PRINT, Movie Editing, Continuous Shooting Multi Print, Continuous Shooting Frame Edit(DPOF Printing, Protect, Copy, Delete), Divide Group (Dividing Up a Continuous Shutter Group)
Other Functions		PictBridge, Video Output(NTSC/PAL), Auto Rotate, Create Folder, USB charge, ECO Mode
Monitor Screen		3.0-inch TFT color LCD (Super Clear LCD), 460,800 dots (960 x 480),Tilt(180 degree)
Timekeeping Functions	Date and Time	Recorded with image data
	With Time Stamp Function	Yes
	Auto Calendar	To 2049
	World Time	162 cities in 32 time zones, City name, date, time, daylight saving time
External connection terminal		USB port (Hi-Speed USB compliance, USB charging) / AV output terminal(NTSC/PAL), HDMI™*13 output(Mini)*14
Microphone		Stereo
Speaker		Monaural
Power Requirements		Rechargeable lithium ion battery (NP-130) x 1
Battery Life	Number of Shots*15	Approx. 470 shots
	Continuous Playback (Still Images)	Approx. 5 hours 20 minutes
	Actual Movie Recording Time (FHD Movie) *5	Approx. 1 hours 25 minutes
	Continuous Movie Recording Time(FHD movie) *5	Approx. 2 hours 20 minutes
Dimensions	W×H×D*15	107.5 (W) x 61.5 (H) x 36.7 (D) mm (excluding projections ; 28.0mm at thinnest point)
Weight*15		Approximately 255g (Including Battery and Memory Card*4) · Approximately 215g (Excluding Battery and Memory Card)
Bundled Accessories		Rechargeable Lithium Ion Battery (NP-130), USB-AC Adaptor (AD-C53U), AC Power Cord, USB cable, neck strap, Quick Start Guide

- 1 DNG file format is one type of RAW image file, and it is recommended by Adobe Systems Incorporated for use as a standard image file format.
- 2 Built-in memory capacity after formatting.
- 3 HD movie is available for ART mode only.
- 4 When using SanDisk Corporation 16GB SDHC Memory Card.
- 5 Within limits of memory and battery life.
- 6 Maximum movie size per file is 4GB.
- 7 Using optical zoom causes the focus range to change.
- 8 Depending on user's setting of Camera.
- 9 Using optical zoom causes the aperture to change.
- 10 ND filter is being used.
- 11 SOS: Standard Output Sensitivity.
- 12 Range is affected by optical zoom.
- 13 HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- 14 1080/50i output is not supported for PAL output using an HDMI™.
- 15 In accordance with CIPA (Camera and Imaging Products Association) standards.

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