Specification

RICOH THETA Z1 51GB / RICOH THETA Z1

Release date	RICOH THETA Z1 51GB： 5/2021 RICOH THETA Z1： 5/2019
Exterior/external dimensions	48mm (W) × 132.5mm (H) × 29.7mm (24mm^{*9}) (D)
Weight]	Approx. 182 g
Still image resolution	6720x3360
Video resolution/frame rate/bit rate	4K 3840×1920/29.97fps/56Mbps 2K 1920×960/29.97fps/16Mbps
Live streaming resolution/frame rate (USB)	4K， H264: 3840×1920/29.97fps/120Mbps 2K， H264: 1920×960/29.97fps/42Mbps
Microphone	4ch
Internal memory/Number of photos that can be recorded, time [*2]	RICOH THETA Z1 51GB: Approx. 51GB Still image: RAW+ Approx. 900 photos, JPEG Approx. 6350 photos Video (time per recording): Max. 5 minutes/25 minutes[*3*4] Video (total recording time): (4K, H.264) approx. 110 minutes (2K, H.264) approx. 360 minutes RICOH THETA Z1: Approx. 19GB Still image: RAW+ Approx. 350 photos, JPEG Approx. 2400 photos Video (time per recording): Max. 5 minutes/25 minutes[*3*4] Video (total recording time): (4K, H.264) approx. 40 minutes (2K, H.264) approx. 130 minutes

Compatible accessories	Tripod/stand (includes tripod mount hole)
Bundled items	Soft case and USB cable
Object distance	Approx. 40cm - ∞ (from front of lens)
Shooting mode	Still image/video: Auto, Aperture priority, Shutter priority, ISO priority, Manual[*3] Live streaming: Auto
Exposure control mode	Program AE, Aperture priority AE, Shutter priority AE, ISO priority AE, Manual
Exposure compensation	Still image/Video: Manual compensation(-2.0 to +2.0 EV, 1/3 EV steps)[*3]
ISO sensitivity (standard output sensitivity)	Still image/video: (Auto) ISO 80 to 6400 (Can set upper limit) ISO 200 to 6400 (Manual mode) ISO 80 to 6400 [*3] Live streaming: ISO 80 to 6400
White balance mode	Still image/Video: Auto, Outdoor, Shade, Cloudy, Incandescent light 1, Incandescent light 2, Daylight color fluorescent light, Natural white fluorescent light, White fluorescent light, Light bulb color fluorescent light, Color temperature settings (2500 to 10000 K)[*3] Live streaming: Auto
Shutter speed	Still image: (Auto) 1/25000 to 1/8 seconds, (shutter priority mode) 1/25000 to 15 seconds [*1] (Manual mode) 1/25000 to 60 seconds [*1] Video: (Auto) 1/25000 to 1/30 seconds (Shutter priority, Manual) 1/25000 to 1/30 seconds[*3] Live streaming: (Auto) 1/25000 to 1/30 seconds
Shooting functions	Still image: Noise reduction, DR compensation, HDR rendering, Handheld HDR, Interval shooting, Interval composite shooting, Multi-bracketing shooting, Self-timer (2 to 10 seconds), My Settings Video: Self-timer (2 to 10 seconds), My Settings
Power source	Lithium ion battery (built-in) [*7]
Battery life	Still image: Approx. 300 photos [*8] Video: Approx. 60 minutes [*8]
Recording file format	Still image: RAW(DNG)[*2], JPEG(Exif Ver2.3) Video: MP4 (Image: MPEG-4 AVC/H.264, Audio: AAC-LC (mono) + Linear PCM (4ch spatial audio)) Live streaming: Image: H.264, Audio: Linear PCM(4ch)
External interface	USB Type-C:USB3.0

Remote release	CA-3-compatible
Lens configuration	14 elements in 10 groups
Lens_F value	F2.1, 3.5, 5.6
Image sensor_size	1.0-inch type (x2)
Effective pixels]	Approx. 20 megapixels (x2)
Output pixels	approx. 23 megapixels
Wireless compliance standard	IEEE802.11 a/b/g/n/ac (2.4GHz/5GHz)[*5] IEEE802.11 b/g/n (2.4GHz only) Bluetooth 4.2
Wireless supported channels	2.4 GHz: 1 to 11ch or 1 to 13ch [*6] 5 GHz: W52 (36 to 48ch, channel bandwidth 20/40/80 MHz supported) [*5]
Wireless communication protocol (WLAN)	HTTP (Open Spherical Camera API v2 compatible)
Wireless communication protocol (Bluetooth)	GATT(Generic Attribute Profile)
Usage temperature range	0°C - 40°C
Usage humidity range	90% or less
Storage temperature range	-20°C - 60°C

*1 The number of photos and time are guides only. The actual number differs according to the photography conditions.

*2 Only possible for simultaneous recording of RAW and JPEG.

*3 A smartphone is required to change modes or configure manual settings.

*4 Automatic shut down if the internal temperature increases.

*5 RICOH THETA Z1 OTHER COUNTORIES(L85612/EDP CODE: 910776 /RIM CODE: S0910776/JAN CODE: 4961311935442/UPC CODE: 026649107771) does not support 5GHz

*6 RICOH THETA Z1 US (L85614/EDP CODE: 910778 /RIM CODE: S0910778/JAN CODE: 4961311935466/UPC CODE: 026649107788) RICOH THETA Z1 TWN (L85613/EDP CODE: 910777 /RIM CODE: S0910777/JAN CODE: 4961311935459/UPC CODE: 026649107771) supports 1 to 11ch.

*7 Charge the battery by connecting it to a PC using the supplied USB cable.

*8 The number of photos that can be taken is a guide based on RICOH's measurement method. This will differ depending on the usage conditions.

*9 Excluding lens section.

■Specifications and the design may change without prior notice.

■Specifications are current as of February 2019.