







A camera that shoots 360-degree spherical images in high-quality in a single shot.

	ART. CODE	EAN
RICOH THETA Z1	910774	0026649107740

Achieving 360-degree images in 23MP resolution

- The camera is equipped with a 1.0-inch back-illuminated CMOS image sensor
- A multi-level aperture mechanism is newly equipped, allowing users to set the F-number to one of the three levels of F2.1, F3.5, and F5.6
- ISO6400 high-sensitivity shots
- Can shoot using a high shutter speed of up to 1/25000 seconds

New type of lens unit

- The lens unit uses Ricoh's original tri-fold structure technology, allowing for a slim body of just 24mm*2 despite the large image sensor
- A multi-level aperture mechanism is newly equipped, allowing users to set the F-number to one of the three levels of F2.1, F3.5, and F5.6

New image processing algorithm

- Renewed the image processing algorithm achieved to get low- and high-sensitivity, low-noise, and high-resolution images
- Dynamic Range (DR) compensation
- Multi-bracket shooting
- Support for RAW file format

New shooting modes to suit the scene

- HDR Rendering
- Interval Composite shooting

Intuitive main body user interface

- 0.93-inch organic EL (OLED) monitor that displays shooting information in the lower part of the main body
- New function (Fn) button
- Shooting settings from a smartphone can be saved as My Settings in the camera

High-quality 4K 360-degree videos

- The camera has 3-axis rotational stabilization while shooting videos to show superior image stabilization
- using the latest image stabilization technology
- 4-channel microphone that supports 360-degree spatial audio recording

Optional Accessories

LENS CAP TL-2	30278 026649759468
SEMI-HARD CASE TS-2	39892 027075183513
STRAP ATTACHMENT AT-1	38371 027075301030
EXTENSION ADAPTER TE-1	37861 027075300385





Semi-hard Case TS-2

Lens Cap TL-2

RICOH THETA Z1

CAMERA TYPE

TYPF

Full Spherical Camera

SENSOR

1 inch x 2 TYPE

PIXELS Effective: approx. 20 megapixels Still image, Video: AUTO (ISO80 to 6400, The Upper Limit settinngs), Manual SENSITIVITY

(ISO80 to 6400) *3

Live Streaming: AUTO (ISO80 to 6400) MOTION BLUR REDUCTION

WHITE BALANCE

3-axis rotational stabilization while shooting videos Still image, Video: Auto, outdoor, shade, cloudy, incandescent lamp 1, incandescent lamp 2, daylight color fluorescent lamp, natural white fluorescent lamp, white fluorescent lamp, light bulb color fluorescent lamp, Color temperature (2500K - 10000K) *3

Live Streaming : Auto

NOISE REDUCTION Automatic function

FILE FORMATS

Still image: RAW (DNG) *2, JPEG (Exif Ver. 2.3) STILL RECORDED PIXELS RAW: 7296 x 3648Px, JPEG: 6720 x 3360Px JPEG: Output pixel count equivalent to approx. 23MP

Approx. 19GB

STORAGE MEDIA BUILT-IN MEMORY NUMBER OF PHOTOS THAT

CAN BE RECORDED, TIME*1 Still image: RAW+ approx. 350 photos, JPEG approx. 2400 photos

LENS ANGLE OF VIEW 360° Full Sperical APERTURE F2.1, F3.5, F5.6 CONSTRUCTION 14 elements in 10 groups Approx. 40cm - ∞ (from front of lens) **OBJECT DISTANCE**

AUTO FOCUS SYSTEM

EXPOSURE CONTROL

METERING SYSTEM SHUTTER SPEED

Integral

Fixed fokus

(AUTO) 1/25000 sec. to 1/8 sec. Still image:

(Shutter Priority) 1/25000 sec. to 1/8 sec. *3 (Manual):1/25000 sec. to 60 sec. *3 Video:

(AUTO)1/25000 sec. to 1/30 sec. (Shutter Priority, Manual) 1/25000 sec. to 1/30 sec. *3

Live Streaming: (AUTO)1/25000 sec. to 1/30 sec.

EV COMPENSATION Still image, Video: -2.0 to +2.0EV, 1/3EV step *3

EXPOSURE CONTROL Program AE, Aperture Priority AE, ISO Priority AE, Shutter Priority AE, Manual

SELF TIMER A smartphone with a dedicated app is required to change modes or configure

manual settings

CAPTURE SETTING

A smartphone is required to change modes or configure manual settings

STATUS DISPLAY

OLED Panel: 0.93 inch Organic light emitting display Panel, 128 x 36 dots, Automatic brightness adjustment function

SHOOTING FEATURES

Still image, Video: Auto, Aperture priority, Shutter priority, ISO priority, Manual *3 Live Streaming: Auto

SHOOTING FUNCTIONS Still image: Noise reduction, DR compensation, HDR Rendering, Interval shooting, Interval Composite shooting, Multi bracket shooting, Self-timer

(2, 5, 10sec.), MY Settings

Video: Self-timer (2, 5, 10sec.), MY Settings

MOVIE

AUDIO

Video: MP4 (Video: MPEG-4 AVC/H.264 FILE FORMAT

Live Streaming: Video: H.264, Audio: Linear PCM (4ch) NUMBER OF RECORDED PIXELS 4K: 3840×1920 / 29.97fps / 56Mbps 2K: 1920×960 / 29.97fps / 16Mbps

4ch Spacial audio Video: AAC-LC (monaural) + Linear PCM

Live Streaming: Linear PCM (4ch)
Video (time per recording): Max. 5minutes/Max. 25 minutes *3 *4

TIME THAT CAN BE RECORDED Video (total recording): Mass. Jiminutes/Max. 25 Illinities 3 3 4 4 Video (total recording time): (4K) Approx. 40 minutes, (2K) approx. 130 minutes 4K: 3840×1920 / 29.97fps / 120Mbps 2K: 1920×960 / 29.97fps / 42Mbps

LIVE STREAMING (USB)

SPECIAL

OPERATING TEMPERATURE STORAGE TEMPERATURE OPERATING HUMIDITY

-10°C (14°F) to 40°C (104°F)

-20°C to 60°C 90% or less

CAMERA OPERATION SYSTEM
"RICOH THETA"-APP

Some Functions could be controlled directly by the new Fn-Function Button and the new OLED Display. It is required to use a smartphone with dedicated "THETA+" App. This is working like a remote control. Herewith lot of settings could be controlled, e.g.: ISO, Shutter Speed, Manual Setting, Shooting Mode, Wihte Ballance, EV-Compensation; With this App could be also GPS signal synchronized with image file.

A lot of edit functions are available with the app "THETA+". E.g. different still

picture animation could be done or video files could be edited

theta360.com" is the main webpage for product support, up-load portal and

information center

MOBILE COMMUNICATION

WIRELESS LAN

"THETA+"-APP

WEBSITE

IEEE802.11 a/b/g/n/ac (2.4GHz/5GHz) *5 IEEE802.11 b/g/n (2.4GH z Only) STANDARDS

FREQUENCY 2400MHz - 2483.5MHz, 5150MHz - 5250MHz *5

USING CHANNEL

2.4GHz:1 - 11ch or 1 - 13ch *5 5GHz:W52 (36 - 48ch, Channel bandwidth 20/40/80MHz) *5 PROTOCOL

HTTP (Open Spherical Camera API v2)

BLUETOOTH®

STANDARDS Rluetooth 4.2

PROFILE Bluetooth low energy technology using Profile: GATT (Generic Attribute Profile)

POWER SUPPLY

POWER SOURCE Lithium ion battery (built in) *6 BATTERY LIFE

Still image: Approx. 300 photos *7 Video:Approx. 60 minutes *7

INTERFACES

USB Type-C, USB3.0

DIMENSIONS & WEIGHT

DIMENSIONS WEIGHT

48mm (W) x 132.5mm (H) x 29.7mm (24mm *8) (D)

SYSTEM REQUIREMENTS

For operating the camera a smartphone with a dedicated App is required

Windows® 7, Windows® 8.1, Windows® 10 MAC Mac OS X 10.10, 10.11, 10.12, 10.13, 10.14

- *1 The number of photos and time are guides only. The actual number differs according to the photography conditions.
- Only RAW and JPEG can be recorded simultaneously.

 A smartphone is required to change modes or configure manual settings.
- Automatic shut down if the internal temperature increases. That differs depending on the region.
- Charge the battery by connecting it to a PC using the supplied USB cable. The number of photos that can be taken is a quide based on RICOH's
- measurement method . The actual number differs according to usage conditions
- Excluding lens section.



