Clifton Cameras Product Specification

Ricoh Theta X

Specifications

Exterior/external dimensions	51.7mm (W) × 136.2mm (H) × 29.0mm (21.5mm *1) (D)
Weight	Approx. 170g (Included dedicated battery and SD memory card), Approx. 144g (Body only)
File Size Still Images	11K: 11008 × 5504 (Approx. 60 megapixels)
	5.5K: 5504 × 2752 (Approx. 15 megapixels)
File Size Videos	5.7K: 5760 x 2880 /30fps /120Mbps,64Mbps,32Mbps (*)
	4K: 3840 × 1920 /60fps /120Mbps,64Mbps,32Mbps (*)
	4K: 3840 × 1920 /30fps /100Mbps,54Mbps,32Mbps
	2K: 1920 × 960 /30fps /32Mbps,16Mbps,8Mbps

(*) Available when the wireless LAN is off or when power is supplied via the AC Adaptor K-AC166* (Not included) connected without the battery inserted.

Live Streaming (USB)	4K 3840 × 1920 /30fps /100Mbps *2
	2K: 1920 × 960 /30fps /32Mbps
Microphone	Monoaural
Recording medium	Internal memory: Approx. 46GB
	microSDXC Memory Card (64GB or higher, and conforms to UHS-I interface and Video speed class V30, exFAT format)
Number of photos that can be recorded, time *3	With a Internal memory (Approx. 46GB)
	Still image: (11K) Approx. 4600 photos, (5.5K) Approx. 11500 photos
	Video (time per recording): Max. 5 minutes/Max. 25 minutes *3
	Video (total recording time):
	5.7K/30fps/120Mbps: Approx. 50 minutes
	5.7K/30fps/64Mbps: Approx. 100 minutes
	5.7K/30fps/32Mbps: Approx. 200 minutes
	4K/60fps/120Mbps: Approx. 50 minutes

4K/60fps/64Mbps: Approx. 100 minutes

4K/60fps/32Mbps: Approx. 200 minutes

4K/30fps/100Mbps: Approx. 60 minutes

4K/30fps/54Mbps: Approx. 115 minutes

4K/30fps/32Mbps: Approx. 200 minutes

2K/30fps/32Mbps: Approx. 200 minutes

2K/30fps/16Mbps: Approx. 395 minutes

2K/30fps/8Mbps: Approx. 775 minutes

Compatible accessories	Tripod/stand (includes tripod mount hole)
Included Accessories	Rechargeable battery DB-110, Soft case, USB Cable
Object distance	Approx. 40cm - ∞ (from front of lens)
Shooting mode	Still image, Video: Auto, Shutter Priority, ISO Priority, Manual Live Streaming: Auto
Exposure control mode	Auto, Shutter Priority, ISO Priority, Manual
Exposure compensation	-2.0 to +2.0EV, 1/3EV step
ISO sensitivity	Still image, Video: [AUTO, Shutter Priority] ISO50 to 3200, The Upper Limit settings ISO100 to 3200, [ISO Priority, Manual] ISO50 to 3200
Live Streaming:	ISO50 to 3200
White balance mode	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, Underwater, Color temperature (2500K - 10000K) *4
Shutter speed	Still image: [AUTO] 1/16000 sec. to 1/8 sec (When the camera is determined to be stationary: Up to 1/2 seconds), [Shutter Priority, ISO Priority] 1/16000 sec. to 15 sec. , [Manual] 1/16000 sec. to 60 sec.
	Video: 1/16000 sec. to 1/30 sec.
	Live Streaming: 1/16000 sec. to 1/30 sec.
Shooting Functions	Still image: Noise reduction, HDR Rendering, Continuous shooting, Time shift, Interval shooting, Multi bracket shooting, Self-timer (1～10sec.), My Settings
	Video: Self-timer (1～10sec.), My Settings
Power source	Rechargeable battery DB-110 (1350mAh) *5
Battery life	Still image: Approx. 220 photos *6
	Video:5.7K 30fps Approx. 30 minutes, 4K 30fps Approx. 55 minutes *6
File format	Still image: JPEG (Exif Ver. 2.3.1)

Video: MP4 (Video: MPEG-4 AVC/H.264, Audio: AAC-LC (1ch))

Live Streaming : Video:H.264, Audio: AAC-LC(1ch)

External interface	USB Type-C, USB3.2 gen1
Remote Shutter	Remote Control TR-1
Lens construction	7 Elements in 7 Groups
Lens F number	F2.4
Image Sensor Size	1/2.0 type (×2)
Image Sensor	Effective Pixels Approx. 48 megapixels (×2)
Display Panel	Type: 2.25 inch TFT color LCD, 360×640 dots, Automatic brightness adjustment function
Touch Screen:	Capacitive sensing method
GNSS	GPS, SBAS (WAAS, EGNOS, MSAS, GAGAN), QZSS, A-GPS
Wireless Communications Standard	IEEE802.11 a/b/g/n/ac (2.4GHz/5GHz) *7
	IEEE802.11 b/g/n (2.4GH z Only)
	Bluetooth 5.0
Wireless Communication operating frequency band range	2400MHz to 2483.5MHz
	5150MHz to 5250MHz *7
Wireless LAN using channel	2.4GHz: 1 - 11ch or 1 - 13ch *7
	5GHz: W52 (36 - 48ch, Channel bandwidth 20/40/80MHz）*7
Wireless LAN Protocol	HTTP (Open Spherical Camera API Level2), HTTPS (Plug-in Store, Update firmware)
Usage temperature range	0°C - 40°C
Usage humidity range	90% or less
Storage temperature range	-20°C - 60°C

*1 Excluding lens section.

*2 If the temperature in the camera rises, shooting will end automatically. The maximum shooting time for recording 5.7K/30 fps and 4K/60 fps videos is approx. 10 minutes (at an ambient temperature of 25°C) due to the temperature rise of the camera. The maximum time for streaming 4K/30 fps live streaming is approx 25 minutes (at an ambient temperature of 25°C). The firmware update adds 2K mode, which means that the maximum time for 2K/30 fps live streaming can be distributed for even longer periods of time. If the temperature in the camera rises rapidly due to the surrounding environment or shooting conditions, the shooting time will be even shorter.

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

*4 The Color temperature can be set for Still image or Video mode.

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

*6 The number of photos that can be taken is a guide based on RICOH's measurement method . The actual number differs according to usage conditions.

*7 That differs depending on the region.

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