RICOH
imagine. change.

ADVANTAGES

- Spherical 360° photos and videos in one single shot
- 1/2.3 CMOS sensor (x2), 14 MP
- Full HD Video
- F2.0 bright lens
- Preview/ Streaming
- 8 GB internal storage
- High speed Wi-Fi transfer
- Easy viewing of images and videos by swiping and pinching in the app on your smartphone
- Sharing on social networks, dedicated websites or Google Maps and Google +TM via your smartphone
- Special editing app for editing shot spherical images (THETA +)
- Possibility to create original RICOH THETA apps via API/SDK

RICOH THETA S

Colour	Art. Nr.	EAN
RICOH THETA S BLACK	910720	0026649107207

INCLUDED ACCESSORIES

USB CABLE
SOFT CASE

OPTIONAL ACCESSORIES

STRAP ADAPTER SILVER FOR RICOH THETA - 910711
STRAP ADAPTER GREY FOR RICOH THETA - 910712
STRAP ADAPTER GREEN FOR RICOH THETA - 910713
STRAP ADAPTER BLUE FOR RICOH THETA - 910714
STRAP ADAPTER ORANGE FOR RICOH THETA - 910715

HARDCASE TH-1 - 910717
Hard case to protect RICOH THETA against water droplets and dust.
(Please note, this case is not waterproof).

SOFT CASE TS-1 WHITE - 910718
SOFT CASE TS-1 BLACK - 910719
Keep your RICOH THETA safe. This will give the lens extra protection in a sleek and stylish case. Available in both black and white.

Type	Spherical camera
Image sensor effective pixels	Approx. 14 megapixels
Image sensor size	1/2.3 (x2)
File size	Still image: L 5376x2688, M 2048x1024 Video: L 1920x1080/30fps/16Mbps, M 1280x720/15fps/6Mbps Live streaming (USB): 1280x720/15fps Live streaming (HDMI): L 1920x1080/30fps, M 1280x720/30fps, S 720x480/30fps *Switch automatically to adjust to connected display
Lens construction	7 elements in 6 groups
Aperture	F2.0
ISO sensitivity	Still image: ISO 100 to 1600, Video: ISO 100 to 1600
Object distance	Approx. 10cm - ∞ (from front of lens)
Shooting mode	Still image: Auto, manual, Live streaming Auto, shutter priority, ISO priority *5, Video: Auto
Exposure control mode	Auto
Exposure compensation	Still image: Manual compensation (-2.0 - +2.0EV, 1/3EV step) *5
ISO sensitivity (standard output sensitivity)	Still image: ISO 100 to 1600, Video: ISO 100 to 1600, Live Streaming: ISO 100 to 1600
White balance mode	Still image: Auto, outdoors, shade, cloudy, incandescent lamp 1, incandescent lamp 2, daylight color fluorescent lamp, natural white fluorescent lamp, white fluorescent lamp, light bulb color fluorescent lamp*5, Video: Auto, Live Streaming: Auto
Shutter speed	Still image: 1/6400 sec. to 1/8 sec. Still image(Manual):1/6400 sec. to 60 sec. Video(L): 1/8000 sec. to 1/30 sec. Video(M): 1/8000 sec. to 1/15 sec. Live streaming (USB): 1/8000 to 1/15 second Live streaming (HDMI): 1/8000 to 1/30 second
Recording medium	Internal memory: Approx. 8GB
Number of photos that can be recorded, time *1	Still image: Approx. 1600(L), Approx. 9000(M), Video (time per recording): Max. 25 minutes or Upper limit 4GB of the file size *6, Video (total recording time): Approx. 65 minutes(L), Approx. 175 minutes(M)
Power source	Lithium-ion battery (built in) *2
Battery life	Approx. 260 photos *3
Image file format	Still image: JPEG (Exif Ver. 2.3), DCF2.0 compliant, Video: MP4 (Video: MPEG-4 AVC/H.264, Audio: AAC) Live streaming (USB): Motion JPEG
External interface	microUSB: USB2.0, HDMI-Micro (Type-D)
Exterior/external dimensions	44mm (W) x 130mm (H) x 22.9mm (17.9 mm *4) (D)
Weight	Approx. 125g
Usage temperature range	0°C - 40°C
Usage humidity range	90% or less
Storage temperature range	-20°C - 60°C
Communications protocol	HTTP (Open Spherical Camera API*7 compatible)

*1 The number of photos and recording times are guides only.
   The actual number differs according to the photography conditions.
*2 Charge the battery by connecting it to a PC using the supplied USB cable.
*3 The number of photos that can be taken is a guide based on RICOH's measurement
   method (wireless on, one photo taken every 30 seconds and transferred to smartphone).
   The actual number differs according to usage conditions.
*4 Excluding lens section.
*5 A smartphone is required to change modes or configure manual settings.
*6 Automatic shut down if the internal temperature increases.
*7 Google Developers Web Site https://developers.google.com/open-spherical-camera/

NEW RICOH THETA S
CAPTURING 360-DEGREE IMAGES OR VIDEOS IN ONE SHOT*

The RICOH THETA S the latest must have gadget for those who want to capture 360° spherical scenes. The camera features extra-high resolution, fully spherical photos and videos captured in one simple shot, a live preview function and even greater compatibility with social media platforms.

The RICOH THETA S captures high-resolution spherical images of up to nearly 14 megapixels. It can also record spherical video in full HD (1920 x 1080*1 pixels at 30fps) with a maximum recording time of 25 minutes. These enhanced quality images are achieved by an enlarged image sensor and fast F2.0 lenses which allow more light through RICOH's proprietary ultra-small twin-lens folded-optical system. Superior image processing technology and bulb mode for long exposures produce spherical still images with less visual static, even in low-light situations.

Spherical images can be uploaded to theta360.com, shared via Facebook™, Twitter™ and Tumblr, and posted to Google Maps™, Google+™ and YouTube™360°Channel. The application program interface (API) for RICOH THETA S is based on the Google-supported Open Spherical Camera API for compatibility with Google's services.

Coinciding with the launch of the RICOH THETA S, Google Maps today introduced a new Google Street View™ app that allows you to capture and publish your photo spheres instantly to Google Maps for people all over the world to explore. The app also offers the ability to shoot photo spheres and to connect to spherical cameras. This new capability to connect to spherical cameras makes it easier than ever to create Google Street View experiences.

The new RICOH THETA S app for smartphones and tablets can be used to configure settings and instantly view spherical photos and video via wirelessly connected devices. An improved Wi-Fi® module now transfers data four times faster than its predecessor.

The RICOH THETA S also boasts an updated design and user interface. Usability has been improved with an elegant but practical sure-grip black rubber coating and handy face-mounted LED mode indicator. Internal memory has been increased to 8GB.

* The first consumer product that allows the entire area around the user to be captured in one shot, instead of simply taking horizontal panoramas or semi-spherical shots. (As of October 2013. Ricoh research)

** Upload to sharing sites is up to 5MB ≒ 6 seconds (1280 x 720)

Main Features

Spherical stills
It allows users to capture the area all around them in one shot. Images are then transferred to a smartphone via Wi-Fi where the user can change the size, shape and composition with simple fingertip operations using a free dedicated app. Users can also change the RICOH THETA S shooting setup by a smartphone which is connected through Wi-Fi. Images can be uploaded to the theta360.com dedicated website, and can also be shared on social media sites such as Facebook, Twitter and Tumblr, as well as Microsoft®'s Photosynth®. Spherical images can also be posted to Google™ Maps and Google+™.

Spherical videos
One of the key enhancements of the RICOH THETA S is that the user can now shoot up to 25 minutes of video. After shooting, seamless spherical videos can be enjoyed using the video creation tool* in the dedicated app. The image size, shape and composition can be changed by simple touchscreen operation. Videos can be uploaded to the theta360.com dedicated website, and can also be shared on social media sites such as Facebook™, Twitter™ and Tumblr, and posted to Google Maps™, Google+™ and YouTube™360°Channel. (Up to 5MB).

* RICOH THETA for Windows/Mac (https://theta360.com/en/support/download/)
In order to view the videos, RICOH THETA for Windows/Mac is required to convert the videos that are shot separately.
Video conversion performance varies depending on your computer environment (OpenGL technology).
See theta360.com for details.

Increased communication speed
Wi-Fi transfer speeds have been increased by a maximum of 4x compared to the previous version. Users can enjoy smooth image transfer with multiple files.

API/SDK (beta version)
API/SDK is available for users who wnat to develop their own original apps on theta360.com site. You can now create your own RICOH THETA S apps, creating custom layouts for settings and operations.

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Note: Designs and specifications are subject to change without notice.

RICOH THETA S supports: