

【Revised on April 24, 2017】

In the news release, which was announced on February 27, 2017, the shipment was to start from May 2017, however, it is now from June, 2017 which is revised in the press release below.

Ricoh announces pre-ordering for the 360-degree, live streaming video camera

*Announced at CES 2017, [RICOH R Development Kit](#) delivers up 24 hours of fully spherical
live streams*

TOKYO and BARCELONA (Mobile World Congress 2017, Hall 8.0 J3), February 27, 2017— Ricoh today announced it is taking pre-orders of the RICOH R Development Kit, featuring the camera capable of delivering up to 24 continuous hours of fully spherical, 360-degree live video streams. Showcased at Mobile World Congress 2017, the camera can be pre-ordered from <http://ricohR.ricoh>, with shipments scheduled to start in **June** 2017. The sales price will be \$499.

Using Ricoh's fully spherical imaging technology, the RICOH R Development Kit can live-stream fully spherical, 360-degree images in 2K resolution at 30 frames per second. Unique to RICOH R technology is the stitching of video within the camera in real time to the Equirectangular Projection Format, which is the standard format for fully spherical images. Video is then output via HDMI® or USB, and—by using an AC power adapter—continuous, live streaming up to 24 hours is possible. The camera records onto a micro SD card, which enables the body to be extremely thin and lightweight.

The RICOH R Development Kit consists of the camera, camera stand, downloadable software development kit (SDK), plus image-control tools and source code. Using the camera's open API and the "RICOH R Console" image-control tool source code available through GitHub, the camera can be controlled via USB, which will enable its use in a variety of environments and industries such as telepresence and computer vision.



RICOH R Development Kit*2

*1. Using AC adaptor

*2. This image is 3D CG for illustrative purposes and may differ from the actual product.

Specifications

Video quality	1920 x 960, Equirectangular Projection Format, 30 fps
Video out connector	Micro HDMI® Type-D, Micro USB
HDMI® video out	Full HD, 59.94i Actual size mode (1920 x 960 + 120), Full HD mode
USB video out*1	UVC 1.5/H.264, 29.97 fps Actual size mode (1920 x 960 + 120), Full HD mode
Audio out	Built-in monaural microphone
Video recording media	MicroSD card up to 32GB
Video file format	MP4
Video recording time*2	Normal mode approx. 30 minutes Extended mode approx. 60 minutes
External power input	USB Micro B
AC adapter	Uses a USB AC adaptor of 5 V/1.5 A or greater
Usage temperature range*3*4*5*6	0 degree Celsius to 40 degrees Celsius*7
External dimensions*8	46 mm (W) x 118 mm (H) x 23 mm (D)
Weight	125g
What's in the box	Stand, carrying case, and USB cable x2

*1. Dedicated driver needs to be installed (Windows® /Mac).

*2. The maximum file size that can be recorded is 4 GB.

*3. Using the stand or a tripod is recommended.

*4. Please be careful when handling the camera directly since the camera will get hot after long hours of usage.

*5. Please do not touch the camera for a long period of time to prevent from getting low temperature burn.

*6. The camera may automatically shut down if it is overheated by certain usage.

*7. 30 degrees Celsius or less for 24-hour non-stop operation.

*8. Including the lens.

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Ricoh is a global technology company that has been transforming the way people work for more than 80 years. Under its corporate tagline – *imagine. change.* – Ricoh continues to empower companies and individuals with services and technologies that inspire innovation, enhance sustainability and boost business growth. These include document management systems, IT services, production print solutions, visual communications systems, digital cameras, and industrial systems.

Headquartered in Tokyo, Ricoh Group operates in approximately 200 countries and regions. In the financial year ending March 2016, Ricoh Group had worldwide sales of 2,209 billion yen (approx. 19.6 billion USD).

For further information, please visit www.ricoh.com

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