

Insta360 One RS Technical Specifications

	4K Boost Lens	360 Lens	1-Inch Wide Angle Lens
Aperture	F2.4	F2.0	F3.2
35mm Equiv. Focal Length	16mm	7.2mm	14.4mm
Photo Resolution	8000x6000 (4:3) 8000x4500 (16:9) 4000x3000 (4:3) 4000x2250 (16:9)	6080x3040 (2:1)	5312x3552 (3:2) 5312x2988 (16:9)
Video Resolution	6016x2560@25/24fps (under 6K Widescreen Mode) 4000x3000@24/25/30fps, 3840x2160@24/25/30/50/60fps, 2720x1530@24/25/30/60/100fps, 1920x1080@24/25/30/60/120/200fps	5760x2880@30/25/24fps, 3840x1920@50/30fps, 3008x1504@100fps	5472x2328@30/25/24fps (under Widescreen Mode) 5312x2988@24/25/30fps, 3840x2160@24/25/30/50/60fps, 2720x1530@24/25/30/60fps, 1920x1080@24/25/30/60/120fps
Photo Format	· jpg · RAW (dng) (RAW files require software on PC/Mac to export.)	· insp · RAW (dng) (RAW files require software on PC/Mac to export.)	· jpg · RAW (dng) (RAW files require software on PC/Mac to export.)
Video Format	· mp4 (For files prefixed with "PRO_", please import into app/Studio to adjust aspect ratio and apply Post FlowState stabilization)	· insv (can be exported via App or Studio)	· mp4 (For files prefixed with "PRO_", please import into app/Studio to adjust aspect ratio and apply Post FlowState stabilization)
Photo Modes	Standard, HDR, Interval, Night Shot, Starlapse, Burst, PureShot	Standard, HDR, Interval, Night Shot, Starlapse, Burst, PureShot	Standard, HDR, Interval, Night Shot, Starlapse, Burst, PureShot
Video Modes	Standard Video, Slow Motion, Active HDR, Timelapse, TimeShift, Loop Recording, 6K Widescreen FlowState (in-camera stabilization) Post FlowState (in-app stabilization)	Standard Video, HDR, Timelapse, TimeShift, Bullet Time, Loop Recording	Standard Video, Slow Motion, Timelapse, TimeShift, Loop Recording, Widescreen FlowState (in-camera stabilization) Post FlowState (in-app stabilization)
Color Profiles	Standard, Vivid, LOG	Standard, Vivid, LOG	Standard, Vivid, LOG
Weight	125.3g	135.3g	163g
Dimensions (W x H x D)	70.1x49.1x32.6mm	70.1x49.1x43mm	78.7x55.7x47.2mm
Run Time	75 minutes *Tested in lab environment under 4K@60fps FlowState mode	82 minutes *Tested in lab environment under 5.7K@30fps mode	84 minutes *Tested in lab environment under 5.3K@30fps Post FlowState mode
Video Bitrate	100Mbps	100Mbps	100Mbps
Gyroscope	6-axis Gyroscope	6-axis Gyroscope	6-axis Gyroscope

Compatible Devices	<p>iOS Devices: Compatible with iOS mobile devices with chips A11 or above and iOS version 11.0 or above, including iPhone SE 2, iPhone 8, iPhone 8 Plus, iPhone XR, iPhone XS, iPhone XS Max, iPhone X, iPhone 11, iPhone 11 Pro, iPhone 11 Pro Max, iPhone 12, iPhone 12 Pro, iPhone 12 Pro Max, iPhone 12 mini, iPhone 13, iPhone 13 Pro, iPhone 13 Pro Max, iPhone 13 mini, iPad Air (2020), iPad Pro and newer iPad models.</p> <p>Android Devices: Compatible with Android mobile devices that meet the following capabilities, including:</p> <ul style="list-style-type: none"> • Android devices with Kirin 980 and above chips, including Huawei Mate 20, P30 or newer models. • Android devices with Snapdragon 845 and above chips, including Samsung Galaxy S9, Xiaomi Mi 8 or newer models. • Android devices with Exynos 9810 and above chips, including Samsung Galaxy S9, S9+, Note9 and newer models. • Android devices with Tensor chips, including Google Pixel 6. <p>Note: 1. Devices that do not meet the above requirements may still be able to use the app to control the camera, however, performance of some processor-intensive and AI-powered features may be sub-optimal.</p>		
Live Streaming	–	360 Live, Reframe Live (streamer sets a fixed perspective)	–
Exposure Value	±4EV		
ISO Range	Photo: 100-6400 Video: 100-6400	Photo: 100-3200 Video: 100-3200	Photo: 100-3200 Video: 100-3200
Shutter Speed	Photo: 1/8000 - 120s Video: 1/8000 - to the limit of frames per second		
White Balance	2000K-10000K		
Audio Modes	• Wind Reduction • Directional Enhancement • Stereo	• Wind Reduction • Stereo	• Wind Reduction • Directional Enhancement • Stereo
Audio Format	48 kHz, AAC		
Bluetooth	BLE5.0		
Wi-Fi	5 GHz (Standard range of approximately 20 meters, max transmission speed of 20MB/s)		
MicroSD Card	exFAT formatted microSD cards with the UHS-I bus interface and Video Speed Class V30 rating (exactly this class, neither higher or lower) with a max storage of 1TB are recommended.		
Battery Capacity	1445mAh		
Charging Method	Type-C USB		
Charging Time	60 minutes (powered off)		
Operating Temperature	-4°F to 104°F (-20°C to 40°C)		