

Specs

Insta360 Ace Pro
CO-ENGINEERED WITH 



Sensor Size

1/1.3"

Aperture

F2.6

35mm Equivalent Focal Length

16mm

Video Resolution

Video (Active HDR enabled when shooting up to 4K30fps)
8K (16:9) : 7680x4320@24fps
8K (2.35:1) : 7680x3272@24fps
4K (4:3) : 4032x3024@60/50/48/30/25/24fps
4K (16:9) : 3840x2160@120/100/60/50/48/30/25/24fps
2.7K (4:3) : 2688x2016@60/50/48/30/25/24fps
2.7K (16:9) : 2688x1520@120/100/60/50/48/30/25/24fps
1440P (4:3) : 1920x1440@60/50/48/30/25/24fps
1080P (16:9) : 1920x1080@240/200/120/100/60/50/48/30/25/24fps

FreeFrame
4K (4:3) : 4032x3024@60/50/48/30/25/24fps

PureVideo
4K(16:9): 3840x2160@30/25/24fps
2.7K(16:9): 2688x1520@30/25/24fps
1080P(16:9): 1920x1080@30/25/24fps

Slow Motion
4K(16:9): 3840x2160@120/100fps
2.7K(16:9): 2688x1520@120/100fps
1080P(16:9): 1920x1080@240/200/120/100fps

Photo Resolution

48MP (8064x6048)
36MP (8064x4536)
12MP (4032x3024)
9MP (4032x2264)

Video Format

MP4

Photo Format

JPG
DNG RAW (can be exported via app or Studio)

Video Modes

Video (with built-in Active HDR), FreeFrame Video, PureVideo, Slow Motion, Starlapse, Timelapse, TimeShift, Pre-Recording, Loop Recording

Photo Modes

Photo, HDR Photo, Interval, Burst Photo

Color Profiles

Standard, Vivid, Flat

Video Coding

H.265 & H.264

Max. Video Bitrate

170Mbps

Exposure Value

±4EV

ISO Range

100-6400

Shutter Speed

Photo: 1/8000 - 120s
Video: 1/8000 - to the limit of frames per second

White Balance

Auto, 2000-10000K

Audio Modes

Wind Reduction, Stereo, Direction Focus

Audio Format

48 kHz, 16-bit, AAC

Weight

179.8g

Dimensions (W x H x D)

71.9mmx52.15mmx38.5mm

Storage

No built-in storage. Supports microSD cards up to 1 TB.

Mics

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Battery Capacity

1650mAh

Charging Time

46min (30W fast charging adapter)
63min: 5V/3A

Run Time

100 mins
* Tested in a laboratory environment at 25°C with AI Highlights Assistant off, recording 4K@30fps Active HDR video. Battery life may vary under different conditions.

Use Environment

-4°F to 104°F (-20°C to 40°C)

Waterproof

Without Dive Case: 33ft (10m)
With Dive Case: 197ft (60m)

Bluetooth

BLE 5.2

Wi-Fi

2.4GHz, 5GHz
802.11 a/b/g/n/ac

USB

Type-C

Gyroscope

6-axis gyroscope

Color

Black

Compatible Devices

iOS Devices:
Compatible with iOS mobile devices with chips A12 or above and iOS version 12.0 or above, including iPhone XS, iPhone XS Max, 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, iPhone 14, iPhone 14 Plus, iPhone 14 Pro, iPhone 14 Pro Max, iPhone 15, iPhone 15 Plus, iPhone 15 Pro, iPhone 15 Pro Max, iPad Air (2020), iPad Pro and newer iPad models.

Android Devices:
Compatible with Android mobile devices that meet the following capabilities, including:

• Android devices with Kirin 990 and above chips, including Huawei Mate 30, P40 or newer models.

• Android devices with Snapdragon 855 and above chips, including Samsung Galaxy S10, Xiaomi Mi 9 or newer models.

• Android devices with Exynos 2200 and above chips, including Samsung Galaxy S22, S22 Ultra and newer models.
(The system should be Android 10.0 or above, or HarmonyOS 2.0.0 or above)

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.

2. After testing, phones equipped with Qualcomm SDM765 5G chips have poor hardware decoding capabilities and are not supported for use, such as OPPO Reno 3 5G.

3. App installation requires a mobile phone with a 64-bit system. A 32-bit system does not support app installation.

4. The following devices support using the AI Selfie Stick Eraser feature:
* iOS:

iPhone: iPhone 12 or later, iPhone SE (3rd edition).
iPad: 12.9" iPad Pro (4th edition and above), 11" iPad Pro (2nd edition and above), iPad 8, iPad 9, iPad mini 6, iPad Air 4, iPad Air 5.

* Android: Snapdragon 865 and above, MediaTek Dimensity 8100 and above, Samsung Exynos 2200.

* Other devices: Please check via App -> Settings -> Performance Mode.