



Clifton Cameras Product Specification

Insta360 Ace Pro 8K Action Camera

Specifications

Sensor Size:	1/1.3"
Aperture:	F2.6
35mm Equivalent Focal Length:	16mm
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, Starlapse
Color Profiles:	Standard, Vivid, Flat
Video Coding:	H.265 & H.264
Max. Video Bitrate:	170Mbps
Exposure Value:	±4EVs
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
Mics:	3
Color:	Black
Storage:	No built-in storage. Supports microSD cards up to 1 TB.
Use Environment:	-20°C to 40°C
Waterproof Without Dive Case:	10m
With Dive Case:	60m
Bluetooth:	BLE 5.2



Wi-Fi: 2.4GHz, 5GHz

802.11 a/b/g/n/ac

Gyroscope: [1] 6-axis gyroscope

Video Resolution:

Video:

- 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)

Battery Capacity: 1650mAh

Charging Time: 46min (30W fast charging adapter) or 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.

Charging Method: Type-C



Weight: 179.8g 176.8g

Dimensions (W x H x D): 71.9mmx52.15mmx38.5mm

Compatibility:

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.