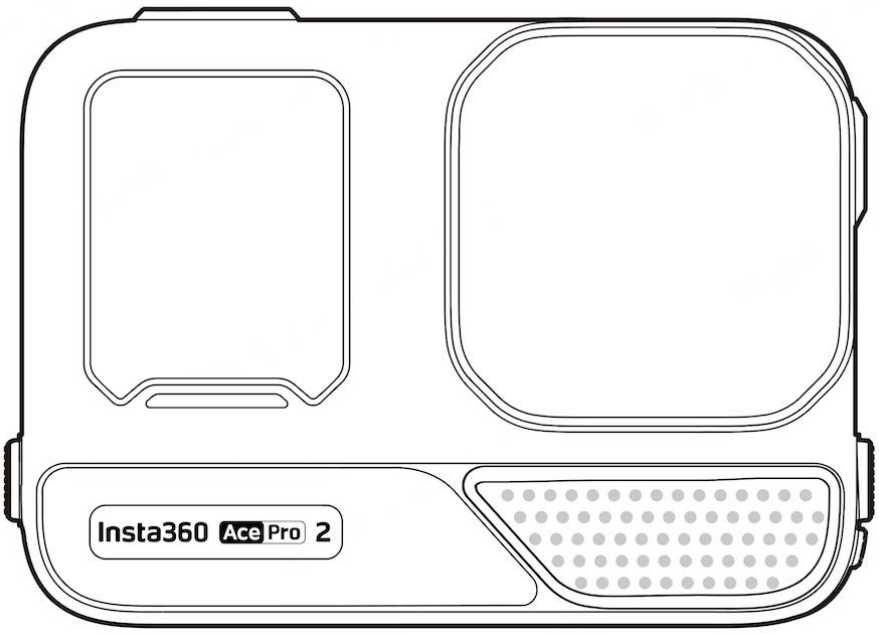
Insta360 Ace Pro 2

CO-ENGINEERED WITH Leica

User Manual



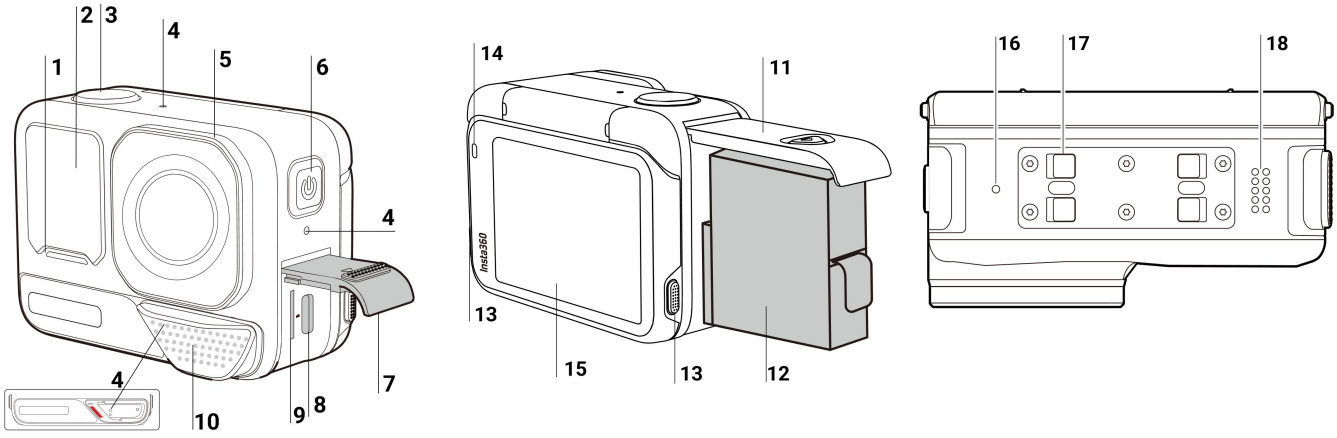
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Product Introduction

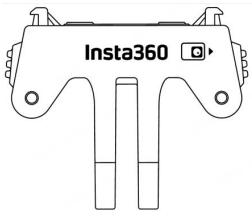
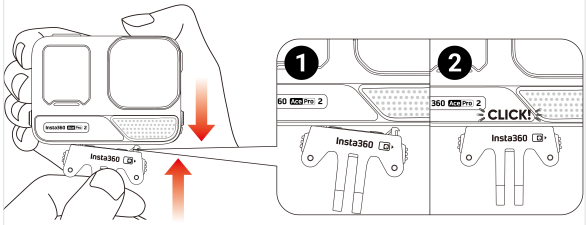
Insta360 Ace Pro 2 Introduction



1. Indicator Light
2. Front Screen
3. Shutter Button
4. Microphone
5. Lens Guard
6. Power Button
7. USB Port Cover
8. USB-C Port
9. MicroSD Card Slot
10. Mic Cap/Wind Guard
11. Battery Cover
12. Battery
13. Release Switch
14. Indicator Light
15. Flip Touchscreen
16. Vent Hole
17. Mounting Latch
18. Speaker

Standard Accessories

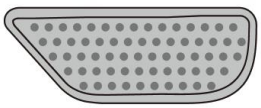
Insta360 Ace Pro 2 includes three in-the-box accessories for flexible shooting wherever you go.

Accessories	Description	Figure
Standard Mount: Secure your camera to any accessory for ultra-stable shots with the universal 2-prong mount. Magnetic design for quick assembly and disassembly. 	**How to Use:** 1. Align the camera lens with the icon on the Standard Mount and attach the mount. 2. Press the Standard Mount against the camera until you hear a click. Then, gently pull away from the camera to ensure it is attached and properly installed. 3. Press and hold the buttons on both sides of the Standard Mount at the same time to remove the camera. 4. The Standard Mount can also be used to connect the camera to 3-prong accessories, such as the Mini 2-in-1 Tripod, Flexible Adhesive Mount and other accessories. **Note:** 1. Ensure the Standard Mount is secure during high-intensity activities and avoid heavy impacts to prevent the camera from falling and getting damaged.	

Wind Guard

Get crystal-clear audio in any situation with the innovative Wind Guard. Professional acoustic foam combined with a metal mesh design reduces wind noise and enhances clarity, ready to snap on and off as needed.

It is recommended for high-speed activities such as motorcycling and mountain biking.



How to Use:

The Wind Guard is installed on Insta360 Ace Pro 2 by default. It can be installed or removed as needed.

Installation:

1. Align the Wind Guard with the diagonal mark on the front of the camera and hold it firmly against the camera.

2. Slide the Wind Guard to the left until it makes a clicking sound. Ensure the red indication mark is fully covered.

Removal:

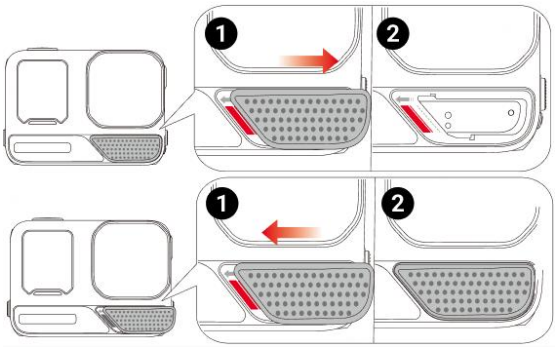
1. Slide the Wind Guard to the right to expose the red indication mark, then remove it.

Notes:

1. Use and store the Wind Guard in dry environments, as dampness can affect sound quality and performance.

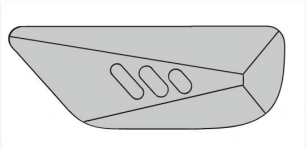
2. To use the camera underwater, remove the Wind Guard and install the included Mic Cap.

3. Attaching and removing the Wind Guard will not affect the waterproofing of the camera itself.



Mic Cap

The removable Mic Cap can replace the Wind Guard for underwater shooting or water sports. Ideal for water sports and diving.



Installation:

1. The Wind Guard is installed by default. Remove the Wind Guard by sliding it to the right to expose the red indication mark, then remove it.

2. Align the Mic Cap with the diagonal mark on the front of the camera and hold it firmly against the camera.

3. Slide the Mic Cap to the left until it makes a clicking sound. Ensure the red indication mark is fully covered.

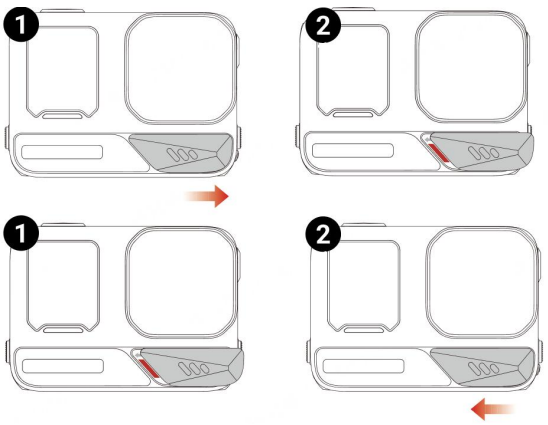
Removal:

1. Slide the Mic Cap to the right to expose the red indication mark, then remove it.

Notes:

1. Use the Mic Cap for underwater or water sports scenes.

2. Attaching and removing the Mic Cap will not affect the waterproofing of the camera itself.



First Use

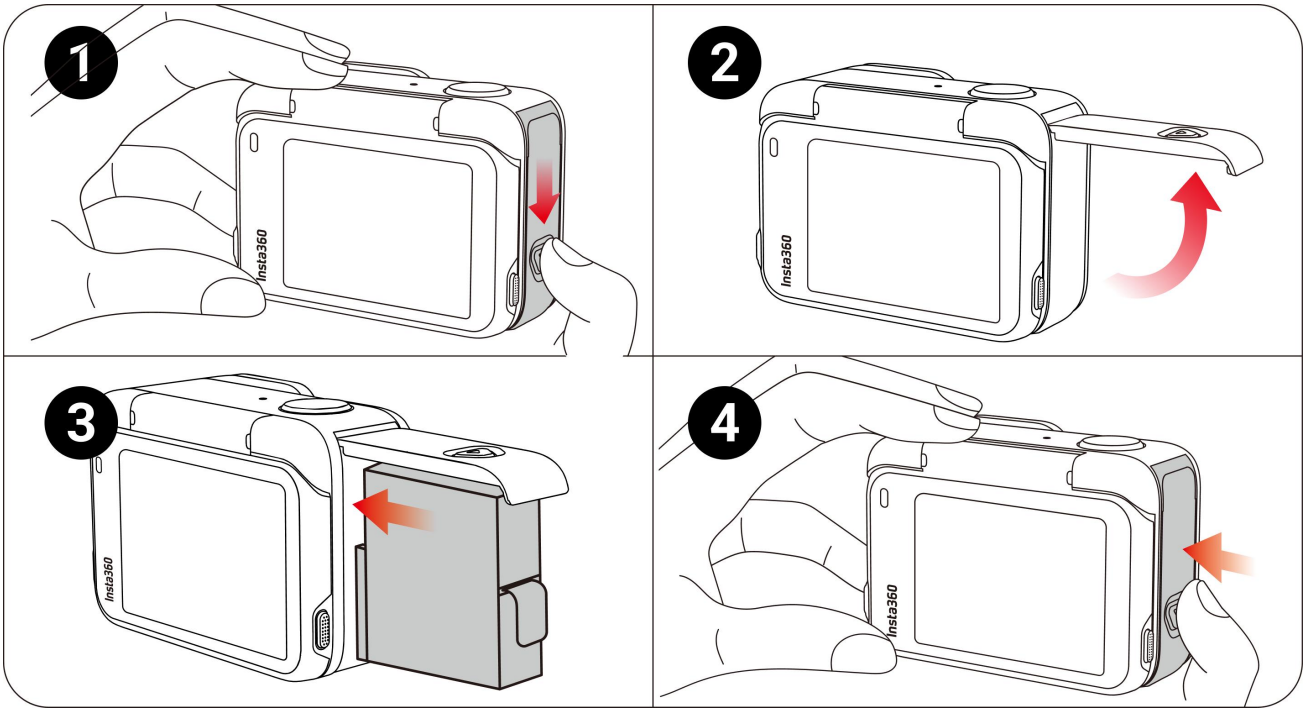
Insert the Battery

(1) Press and hold the latch of the Battery Cover and slide it downwards.

(2) Open the cover outward.

(3) Insert the battery in the direction indicated on the battery.

(4) Close the cover and ensure the yellow indication mark is completely covered to ensure waterproofing is not affected.

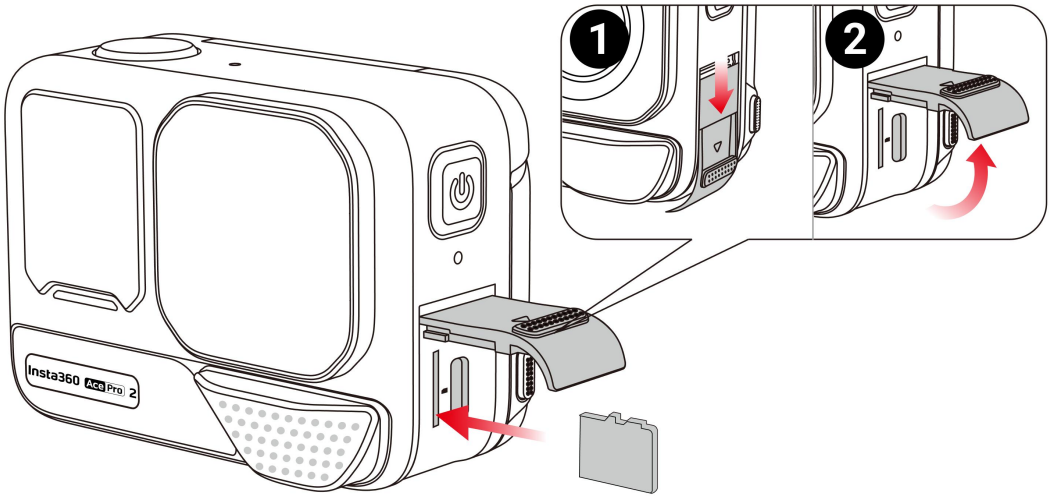


Insert the MicroSD Card

(1) Press and hold the latch of the USB Port Cover and slide it downwards.

(2) Insert the microSD Card in the direction indicated on the card.

(3) Close the cover firmly to ensure waterproofing is not affected.



Note:

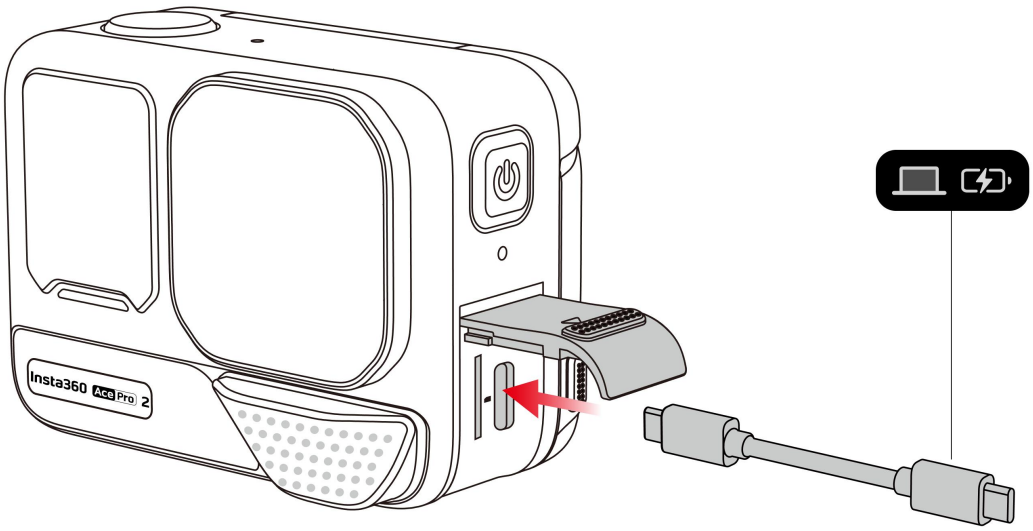
Please use exFAT format microSD/TF cards of speed classes UHS-I and V30 or above to ensure normal recording.

The maximum supported storage space is 1TB.

Charging

Open the camera's USB Port Cover. Use the USB-C charging cable included in the box to connect Insta360 Ace Pro 2 to a USB-C charger.

The Indicator Lights will be solid red when charging and will turn off once the battery is fully charged.



Rapid PD Fast Charging gets your camera to 80% battery in just 18 minutes and fully charges in 47 minutes.

Insta360 Ace Pro 2 Charging Time:

- PD Fast Charging: **47** minutes - 100%

Tested in a lab environment at 77ºF/25°C with a 30W USB-C charger, camera turned off. Charging time may vary under different conditions.

- Normal Charging: **75** minutes - 100%

Tested in a lab environment at 77ºF/25°C with a 15W USB-C charger, camera turned off. Charging time may vary under different conditions.

External Devices

1. You can remove the USB Port Cover to attach external devices. Press and hold the latch of the USB Port Cover and slide it downwards.
2. Open the cover outward and pull it off.
3. After removing the USB Port Cover, you can insert the Quick Reader and external accessories such as microphones.
4. To reinstall the cover, align the hook with the metal bar above the slot compartment, clip it on and close it.

Find Your Serial Number

The serial number is a unique code that can be used to quickly identify your camera. You can find the serial number in the following ways:

1: Product Box

The serial number is on the back of the original product box.



2: Camera Settings

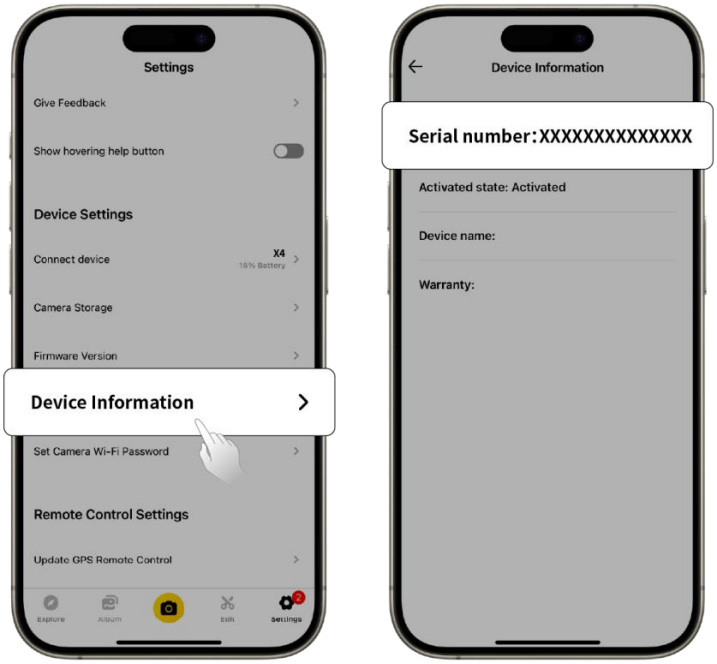
1. Power on your camera.

2. Swipe down on the touchscreen to access the Shortcut Menu, then go to Settings > Camera Info to view the serial number.

3: Insta360 App

1. Connect your camera to the Insta360 app.

2. Enter Settings > Device Information to view the serial number.



4: Insta360 Studio

1. Launch Insta360 Studio on your computer and import any file recorded by the camera.

2. Select the footage, click the info icon on the right side of your screen, select File Properties, and view the serial number.



Activation

You need to activate Insta360 Ace Pro 2 in the Insta360 App before using it for the first time.

Steps:

1. Download the Insta360 App. Alternatively, search "Insta360" in any major app store or scan the QR code on the box.

2. Press the Power Button to turn on Insta360 Ace Pro 2.

3. Enable Wi-Fi and Bluetooth on your smartphone.

4. Open the Insta360 App and click the camera at the bottom of the page. Select the device you want to connect to in the pop-up window, then follow the on-screen instructions to complete the connection. The name of your camera is "Insta360 Ace Pro 2 ******" by default, where ****** is the last six digits of the serial number on the box your Insta360 Ace Pro 2 came in. The first time you connect to Insta360 Ace Pro 2, you will need to confirm the connection on the touchscreen.

5. After successfully connecting the camera, follow the on-screen instructions to activate your camera. The app will prompt you to update the firmware if a new version is available. Please follow the on-screen prompts to update the firmware of Insta360 Ace Pro 2.

Basic Use

Button Instructions:

Power Button



Camera Status	Operation	Description
Powered off	Press once	• Power on camera.
Powered on	Press once	• Switch between different shooting modes or presets. • When recording, press to mark clips as important. You can find marked clips quicker when you are editing. You can customize the Power Button in Settings in the Shortcut Menu. You can choose between functions such as turning the screen on/off, zoom control, etc., when the camera is not shooting and during shooting.
	Long press	• 1 second: Power off. • 5 seconds: Force shutdown.

Shutter Button



Camera Status	Operation	Description
Powered off	Press once	• Start shooting with QuickCapture*. *QuickCapture must be enabled on the camera first.
Powered on	Press once	• During Preview: ◦ Take a photo or start recording a video. ◦ Stop recording. • In other pages: ◦ Return to the preview page to start recording or take a photo.
	Long press	• During recording： ◦ Quickly cancel recording.

Release Switch

Operation	Description
Press the buttons on each side of the flip screen at the same time.	• Change the angle of the touchscreen.

Using the Screen

Front Screen

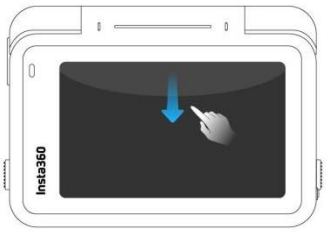
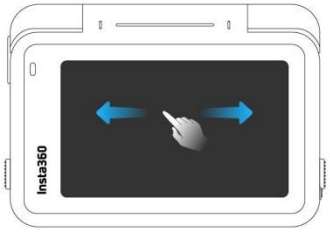
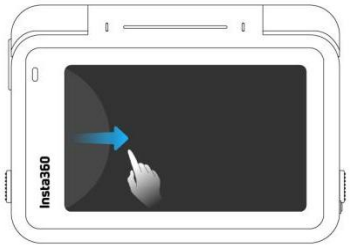
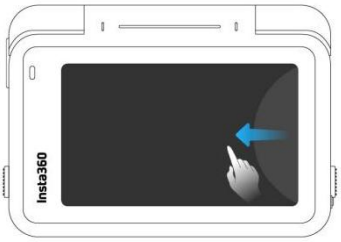
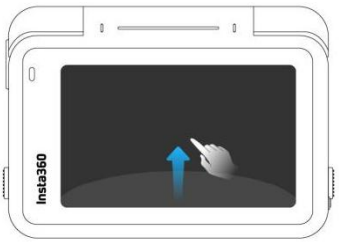


Once the camera is turned on, the front screen will display the following information:

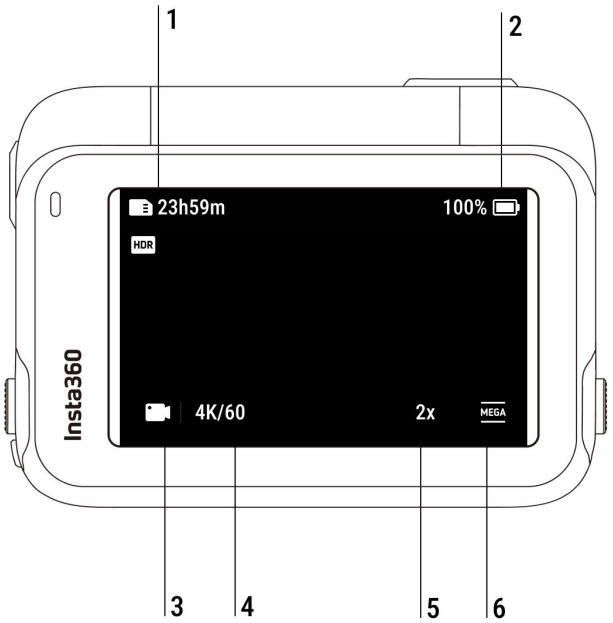
Camera Status	Description
Previewing	Battery, storage capacity, shooting specifications, current shooting mode.
Shooting	Shooting status, i.e., paused, pre-recording, countdown, etc.
Other	Saving footage, connecting to app, firmware update, etc.

Flip Touchscreen

The touchscreen's main display shows the current camera shooting mode. The menu bar shows battery level, storage capacity, and current shooting parameters. By swiping or tapping the screen, you can achieve the following:

		
Tap the screen Hide/show information on the touchscreen.	**Swipe down from the top** Enter the shortcut menu.	**Swipe left and right in the center** Switch shooting mode.
		
Swipe from the left Enter the album page.	**Swipe from the right** Enter the shooting parameter settings.	**Swipe up from the bottom** More shooting parameter settings.

Shooting Interface



1. Storage: Shows the remaining number of photos or the length of video footage that can be stored on the microSD card.

2. Battery Status: Current battery level of Insta360 Ace Pro 2.

3. Shooting Mode: Click the icon and swipe to select a different shooting mode.

4. Shooting Specifications: See the current shooting mode settings.

5. Clarity Zoom: Click the icon or double-tap the screen to zoom in or out 1x or 2x without compromising image quality.

6. Field of View: Change the Field of View.

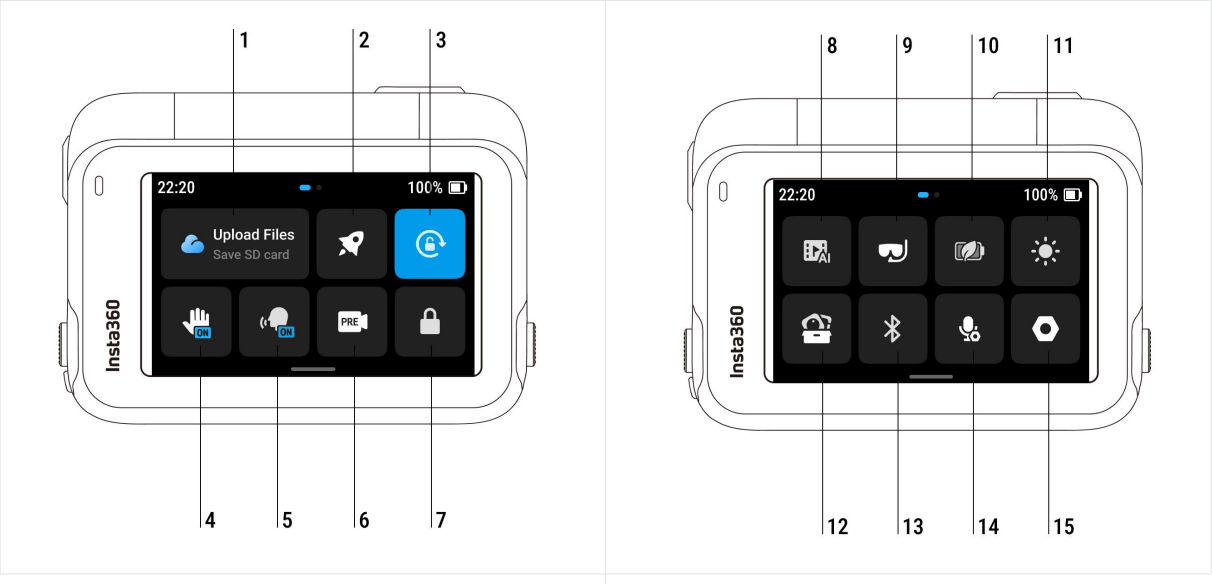
Shooting Mode

Click the icon and swipe or swipe left and right in the center of the screen to select a different shooting mode.

Shooting Mode	Description
Video	Record a video with FlowState Stabilization automatically applied. Active HDR is available up to 4K60fps.
PureVideo	PureVideo improves image quality in low light environments.
FreeFrame Video	Apply FlowState Stabilization and Horizon Lock with adjustable aspect ratio in post via the app or Studio. Active HDR is available up to 4K60fps.
TimeShift	TimeShift video can be used while moving to create a hyperlapse effect.
Timelapse	Suitable for shooting static timelapse videos.
Dashcam	Record continuously and save footage up to a specified amount of storage. Active HDR is available up to 4K30fps.
Loop Recording	Record continuously and save only the last fixed-length segment. Active HDR is available up to 4K60fps.
Slow Motion	Shoot Slow Motion video with a high frame rate.
Starlapse	Shoot and store multiple photos and automatically combine Starlapse effects.
Burst Photo	Take multiple photos in a short space of time.
Interval	The camera automatically takes continuous photos at a specific time interval.
Photo	Take a single photo.

Shortcut Menu

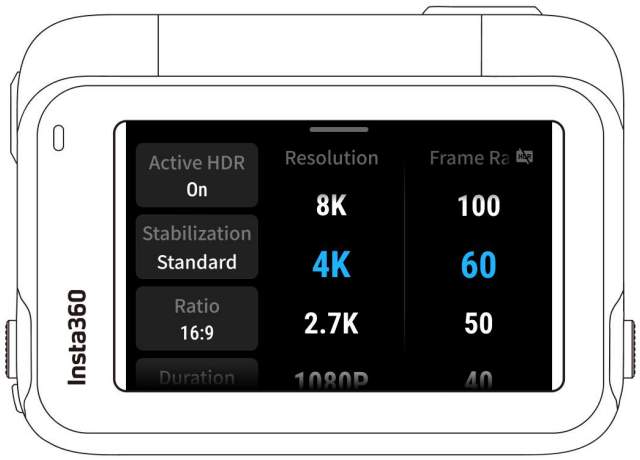
Swipe down on the touchscreen to view the camera settings.



1. Upload files to the cloud: Subscribe to Insta360+ for automatic file backup, online playback, easy sharing, on-the-go editing and convenient cloud export. Availability depends on region; please refer to actual camera display.
2. QuickCapture: Turn on/off. Once enabled, press the Shutter Button when the camera is powered off to turn it on and start recording.
3. Rotation Lock: Turn on/off.
4. Gesture Control: Turn on/off.
5. Voice Control: Turn on/off.
6. Pre-Recording: Turn on/off. Save up to 120 seconds of footage before you press the Shutter Button.
7. Lock Screen: Tap to lock the screen. Swipe on the touchscreen to unlock.
8. AI Highlights Assistant: Turn on/off. The camera finds the best moments from a single video and shows you the highlights to review. Merge them into one video or save each of them as new files. View them on the Album page.
9. Underwater Mode: Turn on/off. Optimizes stabilization and corrects distortion underwater, delivering more realistic and natural footage.
10. Endurance Mode: Turn on/off. Acts as a low-power mode to prolong battery life. Some features and specifications are not available in Endurance Mode, such as Gesture and Voice Control.
11. Adjust Brightness: Slide the bar to adjust the screen brightness.
12. Accessories: Tap to enter accessory settings.
13. Bluetooth Device: Search for and connect a Bluetooth device.
14. Audio Input Device: Select audio input device, adjust gain and switch audio mode (Wind Reduction, Voice Enhancement and Stereo).
15. Settings: Adjust settings such as speaker volume, turn Indicator Lights on/off, customize the Power Button, etc, and enable features such as grid lines, timed capture, and more.

Shooting Specification Settings

Swipe up from the bottom of the touchscreen to view shooting specification settings.



Shooting Mode	Parameters
Video	Active HDR, Stabilization, Ratio, Duration, Resolution, Frame Rate
PureVideo	Stabilization, Ratio, Duration, Resolution, Frame Rate
FreeFrame Video	Active HDR, Ratio, Duration, Resolution, Frame Rate
TimeShift	Stabilization, Ratio, Duration
Timelapse	Resolution, Frame Rate, Stabilization, Ratio, Interval, Shoot length
Dashcam	Active HDR, Loop Space, Time Watermark, Stabilization, Ratio, Resolution, Frame Rate
Loop Recording	Active HDR, Stabilization, Ratio, Loop Duration, Resolution, Frame Rate
Slow Motion	Stabilization, Ratio, Duration, Resolution, Frame Rate
Starlapse	Type, Format, Ratio, Duration, Resolution, Timer
Burst Photo	Burst, Cache, Format, Ratio, Resolution, Timer
Interval	Interval, Format, Ratio, Duration, Resolution, Timer
Photo	Format, Ratio, Resolution, Timer

Shooting Parameter Settings

Swipe left from the right edge of the touchscreen to see the shooting parameter settings.



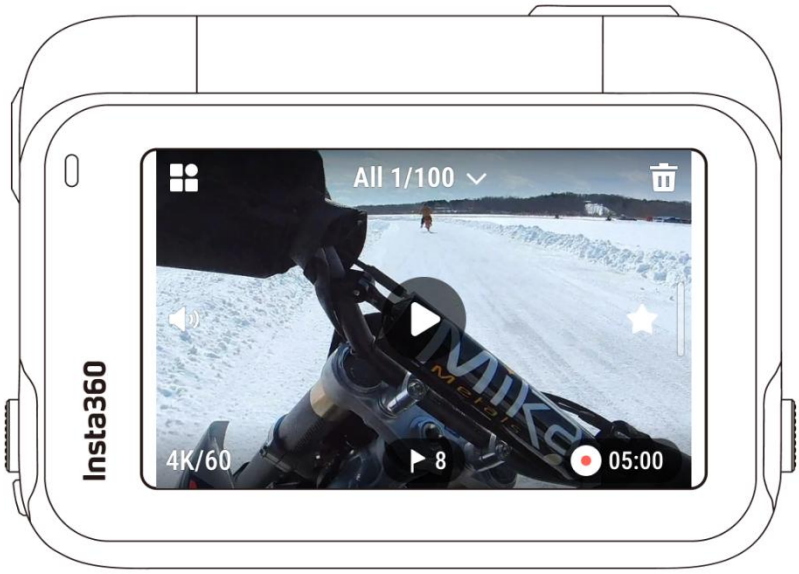


Parameters	Description
Shutter Speed	Controls the time it takes for light to enter the camera. The faster the shutter speed, the clearer the image. Make this higher for dynamic shots and lower for low light conditions.
Sensitivity (ISO)	Reflects how sensitive the sensor is to light. A higher sensitivity means the camera can capture more light for a brighter image.
Exposure Value (EV)	In Auto Mode, you can adjust the EV to help with overexposure or underexposure.
White Balance (WB)	Removes unrealistic colors and tones so colors are accurately captured in the image. A higher white balance produces warmer tones and lower results in cooler tones.
Exposure Preset	It is recommended to use Anti-Flicker for daily scenes for the best image brightness. For action scenes, Jitter Blur Reduction can improve stability, but the image may be darker.
Filter	Add different color tones and effects.
Metering Mode	Face Priority prioritizes the face for brightness. Matrix ensures accurate exposure of the whole image.
I-Log	A professional color profile that captures more detail for more flexible color grading in post-production.
Sharpness	Enhance the contrast at the edges of the image to make blurry videos appear sharper.

Shooting Mode	Parameters	
	Auto	Manual
Video	Filters, EV, Metering Mode, Sharpness, I-Log, Exposure Preset, WB	Filters, Shutter, ISO, EV, Sharpness, I-Log, WB
PureVideo	Filters, EV, Exposure Preset, WB, Metering Mode	
FreeFrame Video	Filters, EV, Metering Mode, Exposure Preset, Sharpness, I-Log, WB	Filters, Shutter, Sharpness, I-Log, ISO, EV, WB
TimeShift	Filters, EV, WB, Sharpness	Filters, Shutter, ISO, EV, WB, Sharpness
Timelapse	Filters, EV, WB, Sharpness	Filters, Shutter, ISO, EV, WB, Sharpness
Dashcam	Filters, EV, Metering Mode, Exposure Preset, Sharpness, I-Log, WB	Filters, Shutter, ISO, EV, WB, Sharpness, I-Log
Loop Recording	Filters, EV, Metering Mode, Exposure Preset, WB, Sharpness, I-Log	Filters, Shutter, ISO, EV, WB, Sharpness, I-Log
Slow Motion	Filters, EV, WB, Sharpness	Filters, Shutter, ISO, EV, WB, Sharpness
Starlapse	WB, EV	Shutter, ISO, EV, WB
Burst Photo	Filters, EV, WB	Filters, Shutter, ISO, EV, WB
Interval	Filters, EV, WB	Filters, Shutter, ISO, EV, WB
Photo	Filters, EV, Metering Mode, WB	Filters, Shutter, ISO, EV, WB

Album Page

Swipe right from the left of the touchscreen to enter the Album page.



Indicator Lights

Insta360 Ace Pro 2 has two LED Indicator Lights, one on the front of the camera and one on the back. Both display the same information. You can turn the Indicator Lights on/off in Settings > General.

Camera Status	Indicator Light Status
Powered on	Solid blue during startup, then solid cyan
Start shooting with QuickCapture	Flashes cyan three times
Standby/standby (charging)/standby (fully charged)	Solid cyan
Power off	Flashes cyan five times
Charging (powered off)	Solid red (turns off when fully charged)
Pre-Recording	Solid cyan
Countdown >1s	Flashes cyan
Countdown≤1s	Flashes cyan five times
U-Disk Mode/Webcam Mode	Solid cyan
Downloading to app	Flashes green
Insufficient storage/backup interrupted/formatting failed	Flashes yellow three times then stops

Quick Reader has no SD card	Solid yellow
Updating firmware	Slowly flashes blue
Low battery	Flashes yellow three times every 5 seconds
Temperature too high	Flashes yellow three times
Insufficient storage/file error/USB error/no SD card	Solid yellow

File Storage

Please use exFAT format microSD/TF cards of speed classes UHS-I and V30 or above. Slow speed may affect recording. The maximum supported storage space is 1TB. Compatibility issues may cause recording to stop.

We recommend using the official microSD cards available on the Insta360 Official Store. If you wish to use another microSD card, the following have also been tested to be compatible with Insta360 Ace Pro 2:

MicroSD Cards	Model Number	Capacity	Speed Class
Sandisk Extreme V30 A1	SDSQXVF-032G-GN6MA	32GB	V30
Sandisk Extreme Pro V30 A1	SDSQXCG-032G-GN6MA	32GB	V30
Sandisk Extreme Pro V30 A1	SDSQXCG-064G-GN6MA	64GB	V30
Sandisk Extreme V30 A1	SDSQXAF-128G-GN6MA	128GB	V30
Sandisk Extreme V30 A2	SDSQXAF-128G-GN6MA	64GB	V30
Sandisk Extreme V30 A2	SDSQXA1-256G-ZN6MA	256GB	V30
Sandisk Extreme Pro V30 A2	SDSQXCZ-1T00-ZN6MA	1TB	V30
Lexar 1066x microSD UHS-I SILVER Series	LMS1066064G-BN	64GB	V30
Lexar 1066x microSD UHS-I SILVER Series	LMS1066128G-BN	128GB	V30
Lexar 1066x microSD UHS-I SILVER Series	LMS1066256G-BN	256GB	V30

Format MicroSD Card

It is recommended to regularly transfer camera files to a phone or computer for backup and format the microSD card via the camera or Insta360 app to avoid any storage issues.

- Format via Insta360 Ace Pro 2:

1. Insert the microSD card into Insta360 Ace Pro 2.

2. Power on Insta360 Ace Pro 2.

3. Swipe down on the touchscreen to enter the Shortcut Menu, tap Settings > SD Card > Format.

- Format via Insta360 app:

1. Connect Insta360 Ace Pro 2 to your phone via the Insta360 app.

2. Enter app Settings > Other Settings > Camera Storage > Format Storage.

Note: When formatting the card by computer, it needs to be in exFAT format, and the allocation unit size should be left as the default setting.

Insta360 App

Connect to the Insta360 app

1. Press the Power Button to turn on the camera.

2. Enable Wi-Fi and Bluetooth on your smartphone.

3. Open the Insta360 app and tap the camera icon at the bottom of the page. Follow the on-screen instructions to activate your camera.

4. If you connect to the Insta360 app for the first time, you need to authorize the connection on the touchscreen or press the Shutter Button.

If you are unable to connect to the app, go to your smartphone's Wi-Fi settings, find your camera, enter the password and return to the app. You can change the camera's Wi-Fi password on the app settings page.

Still can't connect to the Insta360 app?

1. Check if the Insta360 app has permission for the following: network permission, Bluetooth permission, or local network permission.

2. Check if Wi-Fi is enabled on your camera.

3. Make sure the camera is close enough to the phone.

File Transfer

You can download camera files to your phone or computer, then edit and export them using the Insta360 app or Insta360 Studio.

File transfer from camera to phone

Wireless Connection (iOS/Android)

1. Connect the camera to the Insta360 app.

2. Open the app's album page.

3. Tap the top right icon to select the files you want to transfer.

1. Tap the export icon to save it to your phone's album. Do not exit the app or lock your phone while exporting.

2. Tap the download icon to download the footage to the app's gallery.

If your camera can't connect to the Insta360 app, try the following:

1. Update the camera and app to the latest version.

2. Check your phone's Wi-Fi settings to see if it's connected. If not, enter the Wi-Fi password and restart your camera and phone before trying again. If it's still not connecting, forget the camera's Wi-Fi network in your phone settings and attempt to reconnect.

3. Make sure the Insta360 app has GPS and Bluetooth permissions enabled. On Android devices, disable WLAN+ or auto-switch Wi-Fi (if available). On iOS devices, go to system settings, select Insta360, and turn on "Local Network."

File transfer from camera to computer

(Mac/Windows)

1. Use the official USB-C cable to connect the camera to your computer.

2. Power on the camera and select 'U-Disk Mode'. Wait for the computer to recognize the camera drive.

3. Open DCIM > Camera01 folder and copy photos/videos from this folder to your computer.

If your camera can't connect, try the following:

1. Ensure the camera's firmware is up to date.

2. Use the official USB-C cable for transfer, as non-official cables may have compatibility issues.

3. Make sure the camera is powered on.

File transfer from Insta360 app to Mac

iPhone

1. Connect your iPhone to your Mac.

2. In the Finder window on your Mac, select your iPhone.

3. At the top of the Finder window, click Files, then do one of the following:

- Transfer from Mac to iPhone: Create a new folder and name it IMPORT on your desktop. Drag your files to the IMPORT folder and then into the Insta360 app folder on your device.

- Transfer from iPhone to Mac: Click the small triangle beside the Insta360 app to see the DCIM folder, then drag the desired files to a folder on your Mac.

Notes:

- The folder must be named IMPORT with capital letters.
- You may not be able to see the transfer progress. Please wait for it to finish.
- After transferring, restart the Insta360 app on your phone to see the files.

Android

1. Install Android File Transfer on your Mac.

2. Connect your phone to the Mac and open Android File Transfer.

3. Find "data > com.arashivision.insta360akiko > files > Insta360OneR > galleryOriginal".

4. Browse the files and folders on your Android device, then copy and paste or drag them to a folder on your Mac.

File transfer from Insta360 app to Windows PC

iPhone

1. Install iTunes on your Windows PC. Connect your iPhone to your PC, open iTunes, then complete the authorization process according to the instructions.

2. After successful authorization, click the iPhone icon in the top left corner, and the iPhone's files will appear.

3. Click "File Sharing" and choose "Insta360" from the list. Then do one of the following:

- Transfer from iPhone to Windows PC: Find the DCIM folder, then click Save. Choose your desired path and click Save.

- Transfer from Windows PC to iPhone: Create a new folder and name it IMPORT, then copy the photos/videos to the IMPORT folder. Replace the IMPORT folder in the Insta360 app.

Notes:

- The folder must be named IMPORT with capital letters.
- After transferring, restart the Insta360 app on your phone to see the files.

Android

1. Connect your Android phone to your PC. Choose "Manage Files" under "USB Connected" on the phone if required.

2. Click "My Computer/This Computer", find your phone model, and click "Internal Storage".

3. Find "data > com.arashivision.insta360akiko > files > Insta360OneR > galleryOriginal", then do one of the following:

- Transfer from Android to Windows PC: Copy the folder or files to your PC.

- Transfer from Windows PC to Android: Copy files to this folder from your PC.

Editing

You can view and edit your footage in the Insta360 app or Insta360 Studio.

- Insta360 app

Edit Page

1. Connect your camera to the Insta360 app.

2. Head to the Edit page. You can open and edit your material in "Create a Video", or use AI to automatically edit your clips with "Auto Edit". Try out the AI templates, themes and effects with FlashCut and Shot Lab for viral videos in seconds.

Album Page

1. Connect the camera to the Insta360 app.

2. Enter the Album page to view all your clips.

3. Open footage and edit it in the player.

- - Insta360 Studio

1. Download and open Insta360 Studio on your computer from the Insta360 website.

2. Connect your camera or SD card to your PC and import your media.

3. Edit with Studio's extensive tools and library, or use its Abobe Premiere plugin for even more options.

Exclusive Features

Gesture Control

You can control the camera with gestures, perfect for group selfies or noisy environments. Enable Gesture Control on your camera, then give the sign to start/stop recording or take a photo. Swipe down on the touchscreen and turn on Gesture Control.

Keep both your head and hand clearly in frame to activate the feature. Gesture Control can be used while wearing a helmet or gloves.

Gesture	Trigger Control
 Peace Sign	Take photo with countdown timer.
 Palm	Start/stop video recording.

Clarity Zoom

During recording and preview, double-tap the screen or tap the zoom button at the bottom right of the screen to zoom in or out 1x or 2x without compromising image quality. Clarity Zoom is supported in the following modes and specifications:

Shooting Mode	Specifications
Photo/Interval/Burst Photo	12.5MP 9MP
Video	4K (16:9/4:3/2.35:1) @60fps and below 2.7K (16:9/4:3) @60fps and below 1080p (16:9/4:3) @60fps and below
Loop Recording/Dashcam	4K (16:9/4:3) @60fps and below 2.7K (16:9/4:3) @60fps and below 1080p (16:9/4:3) @60fps and below

Pre-Recording

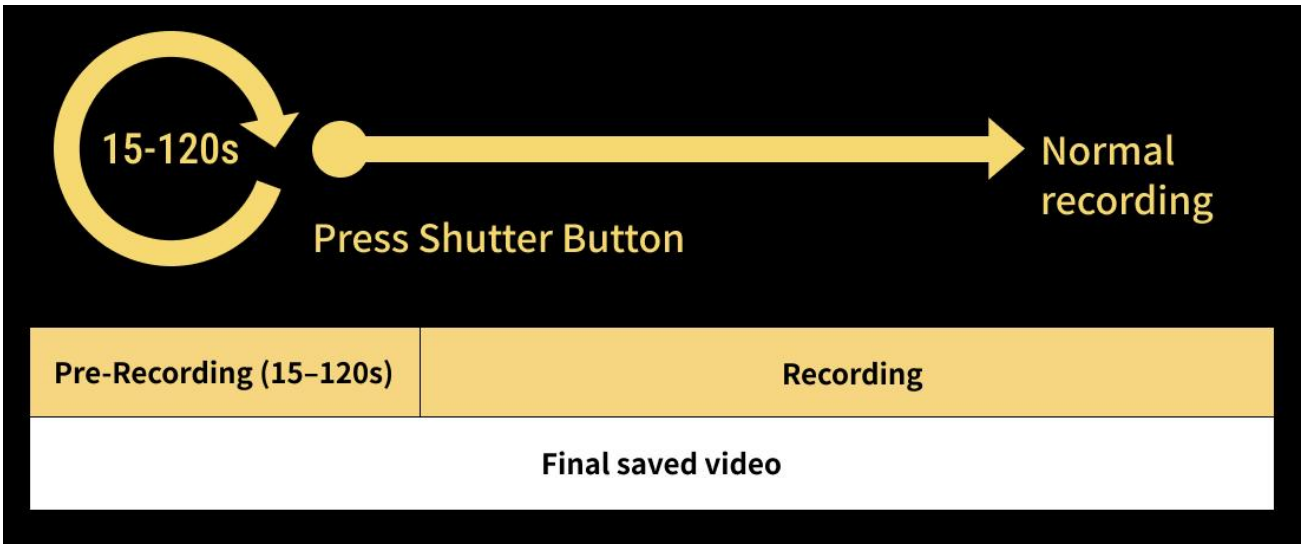
Pre-Recording lets you capture up to 120 seconds of footage before you've even hit the Shutter Button, so you won't miss a second of action.

The following shooting modes and specifications support Pre-Recording:

Shooting Mode	Shooting Specification	Duration(seconds)
Video	4K@120/100	15
	4K@60/50/48	30, 15
	2.7K@120/100	
	1080p@120/100	
	4K@30/25/24	90, 60, 30, 15
	2.7K@60/50/48/30/25/24	
	1440p@60/50/48/30/25/24	120, 90, 60, 30, 15
	1080p@60/50/48/30/25/24	
PureVideo	4K@60/50/48	30, 15
	4K@30/25/24	90, 60, 30, 15
	2.7K@60/50/48/30/25/24	
	1440p@60/50/48/30/25/24	120, 90, 60, 30, 15
	1080p@60/50/48/30/25/24	
FreeFrame Video	4K@60/50/48	30, 15
	4K@30/25/24	90, 60, 30, 15
	2.7K@60/50/48/30/25/24	
	1440p@60/50/48/30/25/24	120, 90, 60, 30, 15
Slow Motion	4K@120/100	15
	2.7K@120/100	30, 15
	1080p@120/100	

Select the shooting mode, swipe down on the screen to enter the Shortcut Menu, tap the "PRE" icon and select a duration. Once enabled, the camera will continuously record, but will only save the set duration to the microSD card once you hit the Shutter Button. For example, if you set Pre-Recording to 15 seconds, but there have been 30 seconds of action before you press the Shutter Button, the final pre-recorded footage will be the last 15 seconds.

You can cancel Pre-Recording at any time. The video will not be saved.
If you press the Shutter Button during Pre-Recording, the camera will start recording normally, and the final video will contain the pre-recorded video and the regular video



Timecode

The camera has a built-in timecode for a smoother workflow when filming with multiple cameras. After recording, you can synchronize multiple video tracks in the edit.

There are three ways to synchronize the timecode:

- Timecode generator: Connect the camera to a timecode generator to synchronize the timecode.
- Insta360 app: Connect the camera to the Insta360 app to automatically calibrate the camera's system time and use it as the timecode.
- Manual synchronization: Manually set the start time on multiple cameras to align the time. Make sure it is the same, then click "Start timecode".

I-Log

Turn on I-Log in the camera's shooting parameters page before recording. After recording, connect the camera to the Insta360 app, go to the Album page, select the file and tap the LUT icon to adjust the color.

Endurance Mode

When using the camera for a long period of time, turn on Endurance Mode in the camera's Shortcut Menu for a longer battery life of up to 3 hours*. When turned on, some features, such as Gesture and Voice Control, are unavailable.

*Tested in 77°F (25°C) lab environment, 1080p24fps video with Active HDR off in Endurance Mode. Battery life may vary under different conditions.

GPS Activity Stats

Use GPS Activity Stats in the Insta360 app to overlay real-time data from your smartphone without any third-party sports equipment.

How to connect:

1. If it's the first time using GPS Activity Stats, connect the camera to the Insta360 app to sync the time from your smartphone.
2. Go to the app's settings page, tap "GPS Activity Stats", and authorize the Insta360 app to access your phone's GPS data.
3. Tap the record button at the bottom of the screen to start recording your GPS data. Keep the app on the GPS Activity Stats page, and the camera can continue recording data without being connected to the app.
4. Swipe the button to the right to stop recording. Tap the top-right corner to view your data.
5. After recording, you can view the footage in the app's Album. Tap the footage to preview it, select the Stats Dashboard icon and the GPS Activity Stats data will be displayed by default.

Notes:

1. You don't need to maintain a Wi-Fi connection once GPS Activity Stats is enabled. The app will continue to record your data as long as the GPS Activity Stats interface is open on the Insta360 app, even if you switch to other apps. Recording will be interrupted if you leave the GPS Activity Stats interface within the Insta360 app.
2. Real-time GPS location is not currently supported.
3. 360º videos are not currently supported.
4. Strong signals in the surrounding environment could interfere with the GPS data and prevent it from being recorded. We recommend shooting in an open outdoor area.
5. GPS Activity Stats does not support the following shooting modes: Timelapse, Starlapse, Dynamic Timelapse, Slow Motion, and Bullet Time.

Stats Dashboard (Garmin/Apple/COROS/IGPSPORT/FIT & GPX Files)

You can also add real-time stats such as speed, elevation, cumulative distance, incline, and motion trajectory to your video from third-party apps and devices when you export. You can overlay data from your Garmin, COROS and IGPSPORT device or Apple Watch and import FIT and GPX files.

Currently, only data from Garmin, Apple, COROS, and IGPSPORT devices are supported, as well as FIT and GPX files. More brands may be added in the future.

Notes:

1. 360º videos are not currently supported.
2. Strong signals in the surrounding environment could interfere with the GPS data and prevent it from being recorded. We recommend shooting in an open outdoor area.
3. Stats Dashboard does not support the following shooting modes: Timelapse, Starlapse, Dynamic Timelapse, Slow Motion, and Bullet Time.

- **Garmin/COROS/IGPSPORT Device**

How to connect:

1. Connect the camera to the Insta360 app, open a video on the app's album page, pause the playback, and click "Stats" in the lower menu.
2. Select your device as the data source.
3. If you have not yet registered or logged into the Insta360 app, you will need to register or log in.
4. Log in to your Garmin/COROS/IGPSPORT account and authorize the Insta360 app.
5. The data will automatically synchronize to the Insta360 app.

Notes:

- For accurate timecodes between the GPS data and the video, it is recommended to connect the camera to the Insta360 app before recording to obtain the timecode from your phone.

- You must upload data from your device to the corresponding app before data can be synchronized to the Insta360 app.
- You can switch between data sources by tapping the icon on the dashboard page.
- Data can be synchronized to multiple devices that are logged into the Insta360 app.
- Garmin Devices: Insta360 Insta360 Ace Pro 2 supports any Garmin device that shares data with Garmin Connect, including cycling odometers and smartwatches.

- **Apple Watch**

How to connect:

1. Connect the camera to the Insta360 app, open a video on the app's album page, pause the playback, and click "Stats" in the lower menu.
2. Select "Apple Health" as the data source.
3. If you have not yet registered or logged into the Insta360 app, you will need to register or log in.
4. Authorize the Insta360 app.
5. Apple Health data will automatically synchronize to the Insta360 app.

Notes:

- The Insta360 app does not support Apple Health on Android devices.
- For accurate timecodes between the GPS data and the video, it is recommended to connect the camera to the Insta360 app before shooting to obtain the timecode from your phone.
- Before recording, you need to start a workout on your Apple Watch and save it to record your exercise data and GPS information. You can also manually add a workout in the Apple Health app to synchronize your data.
- You can switch between data sources by tapping the icon on the dashboard page.

- **FIT & GPX Files**

You can import FIT or GPX files from third-party apps into the Insta360 app in the following two ways:

Share FIT or GPX Files from a Third-Party App to the Insta360 App

If the third-party app supports sharing FIT and GPX files, you can share these files with the Insta360 app. The app will automatically match the data to your videos.

Stay on the Insta360 app's homepage before sharing FIT or GPX files to speed up matching the data.

Save FIT or GPX Files to Your Phone

If saving FIT and GPX files to your phone is supported by the third-party app, you can open the saved files in the Insta360 app via the system's file manager. Alternatively, go to the Stats Dashboard > Data Source > Local Files and choose the file to import. Data will automatically sync to your footage.

Notes:

- Some apps or devices may produce GPX files without timestamps and are therefore incompatible with the Stats Dashboard.
- Due to inconsistent timezone settings across different manufacturers, imported files may show inconsistencies.
- Stay on the Insta360 app's homepage before sharing FIT or GPX files to speed up matching the data.

Maintenance

Firmware Update

Firmware updates will be regularly available for Insta360 Ace Pro 2 to ensure it runs efficiently. Please update to the latest version for optimal results.

Before updating the firmware, ensure Insta360 Ace Pro 2 has at least 20% battery remaining.

- **Update via Insta360 app:**

Connect Insta360 Ace Pro 2 to the Insta360 app. The app will notify you if a new firmware update is available. Follow the on-screen instructions to update the firmware.

If the camera firmware update fails, check the following and try the update again:

1. Ensure the camera is close to your phone.
2. Keep the Insta360 app running, and do not exit or minimize it.
3. Ensure your phone has a strong and stable network connection.

Once the above conditions are confirmed, restart the camera and try the firmware update again. If it still fails, try to update the firmware via a computer.

- Update via Computer

1. Make sure Insta360 Ace Pro 2 is powered on.
2. Connect the camera to the computer using the USB-C cable and select U-Disk Mode.
3. Download the latest firmware version from the official Insta360 website on your computer.
4. Once the computer has recognized Insta360 Ace Pro 2, copy the "Insta360AcePro2FW.bin" file to Insta360 Ace Pro 2's root directory. Do not change the file name.
5. Disconnect Insta360 Ace Pro 2 from the computer. Insta360 Ace Pro 2 will automatically power off. The Indicator Lights will slowly flash blue.
6. Insta360 Ace Pro 2 will automatically restart once the update is complete.

Waterproofing

1. Insta360 Insta360 Ace Pro 2 camera is waterproof up to 39ft (12m) without a Dive Case. For extended underwater use, use the Dive Case. The Dive Case is waterproof to 197ft (60m).
2. Check that the battery compartment is free from dirt or foreign objects. Once the battery is inserted, close the Battery Cover and ensure the yellow indication mark is completely covered to ensure waterproofing is not affected.
3. Ensure the USB Port Cover is free from dirt or foreign objects. Ensure it is completely closed before using the camera underwater.
4. After every use in seawater, soak the camera in fresh water for 15 minutes, gently rinse it with the flip screen open, and then dry it thoroughly with a soft cloth. Wait until it is completely dry before using it again.
5. Insta360 Ace Pro 2 comes with a pre-installed Wind Guard. Removing or installing the Wind Guard and Mic Cap does not affect the camera's waterproofing. Dampness may impact sound quality and noise reduction. Before using the camera on rainy days or for water sports, remove the Wind Guard or replace it with the Mic Cap.

To maintain the waterproofing of Insta360 Ace Pro 2:

- Do not use a hair dryer to dry the camera, as it may affect the microphone and speaker and damage the internal waterproofing ability.
- Avoid operating the camera for extended periods (>1 hour) outside the recommended temperature range (-4°F to 113°F/-20℃ to 45℃) or in humid environments.
- Do not store the camera in high-temperature or high-humidity environments.
- Do not disassemble the camera.
- Avoid entering water at high speeds. Excessive water impact may damage the device.
- Ensure the camera's Battery Cover, USB Port Cover and Lens Cover are installed and securely closed, or the camera will not be waterproof.

Cleaning

1. If there are foreign objects, such as dirt or hair, on the Lens Cover, clean it with clean water or use a lens pen, air blower or cloth.

2. If there are foreign objects, such as dirt or hair, on the lens, use a lens pen, air blower or cloth to clean it.

3. Ensure the Battery and Battery Cover is free of dirt and foreign objects like sand or hair. Clean it with a soft, dry cloth or paper if necessary.

4. Ensure the MicroSD Card Slot is free of dust, dirt and sand to ensure the camera works properly.

Battery Precautions

1. Only use batteries provided by Insta360 designed for Insta360 Ace Pro 2. Insta360 is not responsible for any accidents or failures that occur by using unofficial batteries. If you need to replace the battery, please purchase it from the Insta360 official store.

2. Do not charge the battery immediately after using the camera, as the battery temperature may be too high. It is advised to wait until the battery cools to room temperature before charging. Charging the battery in environments above 104ºF (40°C) or below 32°F (0°C) may lead to battery expansion, leakage, overheating, or battery damage.

3. If the battery is not used for a long time, its performance will be affected.

4. Recharge and discharge the battery every three months to maintain optimal working conditions.

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