

# Insta360 Luna Ultra

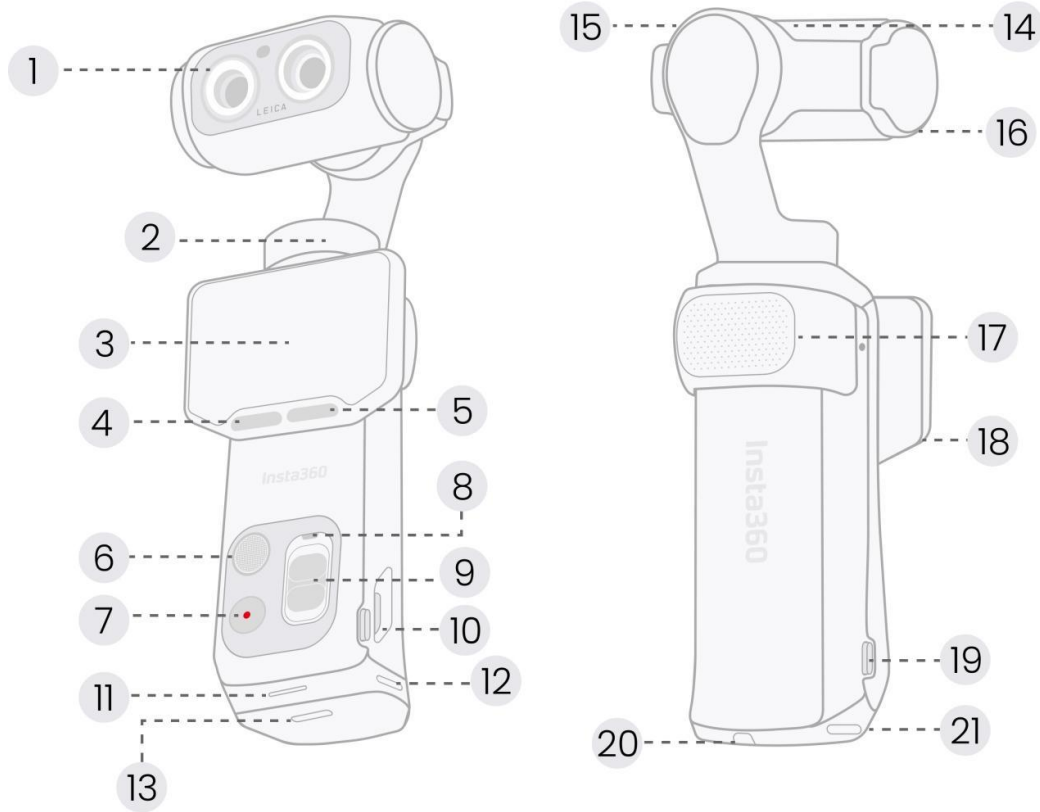
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## User Manual



# 1. Product Overview

## Luna Ultra Introduction



- |                          |                                   |
|--------------------------|-----------------------------------|
| 1. Lens                  | 12. Mounting Latch                |
| 2. Pan Axis Motor        | 13. USB-C Port                    |
| 3. Touchscreen           | 14. Ventilation Area              |
| 4. Custom Button (Left)  | 15. Roll Axis Motor               |
| 5. Custom Button (Right) | 16. Tilt Axis Motor               |
| 6. Joystick              | 17. Wind Guard                    |
| 7. Shutter Button        | 18. Detachable Touchscreen Remote |
| 8. Indicator Light       | 19. Release Button                |
| 9. Zoom Slider           | 20. Lanyard Hole                  |
| 10. microSD Card Slot    | 21. Mounting Latch                |
| 11. Speaker              |                                   |



Do not manually adjust the gimbal axis motors while the device is powered off. If an axis lock accidentally disengages and the gimbal rotates out of position, turn the device on, then turn it off again. The system will automatically return the gimbal to its default position.

## Standard Accessories

Please check the items inside the box based on the specific model and bundle version you purchased:

Items	Standard Bundle	Creator Bundle
Insta360 Luna Ultra	●	●
Protective Cover	●	●
Wind Guard	●	●
Wrist Strap	●	●
1/4" Thread Handle	●	●
Carry Bag		●
Battery Handle		●
Insta360 Mic Pro (TX)		●
Wide-Angle Lens		●

### Symbol Descriptions:

● Indicates that the item is included in this package. A blank space indicates that the item is not included in this package.

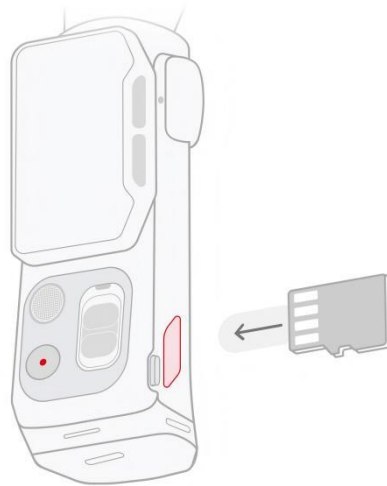
## 2. First-Time Use

### Storage Space

The device features **47GB** of built-in storage, allowing you to shoot directly out of the box. Users can also choose to insert a microSD card to expand the storage.

#### Installing an SD Card

1. Lift open the protective soft cover of the card slot.
2. Insert the microSD card into the slot in the direction shown.



### Powering On/Off and Activating Your Camera

You must activate the product via the Insta360 app before using it for the first time.

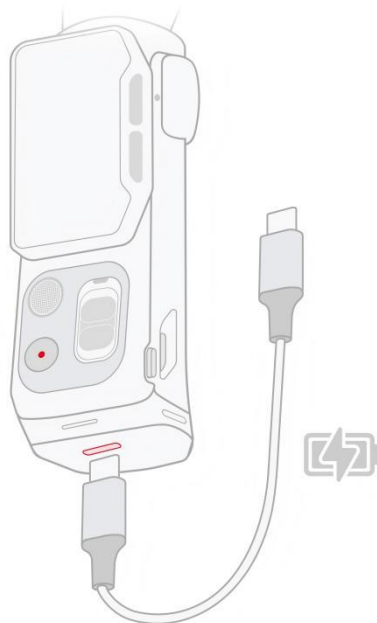
1. When the camera is powered off, you can turn on the device in two ways: 1) Rotate the screen to a horizontal position; 2) Press and hold the Shutter Button for 1s, which does not require rotating the screen.
2. Enable Bluetooth and Wi-Fi on your phone, then open the Insta360 app.
3. Follow the on-screen prompts in the app to search for and connect to

your device. Once connected, follow the guide on the interface to complete the activation steps.

4. When the touchscreen displays the shooting page (Home Page), rotating the screen to a vertical position will trigger power-off. When other pages are displayed, it will only change the orientation of the interface.

## Charging

- **Charging Method:** Use the included USB-C cable for charging. The device supports PD, QC, and DCP fast charging, with a maximum supported power of 15V/3A.
- **Status Checking:**
  - **Standby State:** The indicator light stays solid green. Users can check the respective battery levels and charging progress of the camera body and the detachable touchscreen remote via the icons in the top right corner of the shooting page.
  - **Powered-Off State:** When the charging cable is plugged in, the screen will display the charging progress for both the camera body and the detachable touchscreen remote. If the screen is off, tap once to display the charging progress.



## Storage

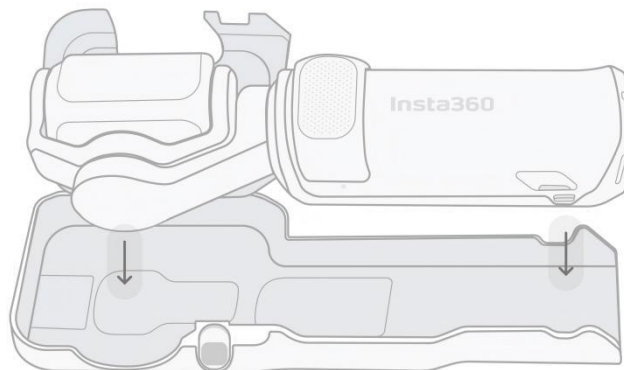
When the camera is not in use, it can be stored directly into the standard protective cover after powering off. Proper storage effectively protects the gimbal lens and the screen.

### Steps:

1. Power off the device and wait for the gimbal to fully rotate and retract into place. Avoid forcing the gimbal to prevent motor overload or damage.
2. Press the buckle to unlock and open the lens protective cover.
3. Place the camera into the protective cover with the screen facing inward toward the cover. As the button area protrudes slightly, please pay attention during insertion to avoid collision between the screen edges and the structure of the protective cover.
4. Fasten and lock the lens protective cover back in place.

### Notes:

- Do not squeeze the gimbal during storage to avoid mechanical damage.
- If you want to start the camera and shoot more quickly, you can use the sliding protective case (sold separately).



### 3. Basic Use

#### Buttons

Button	Operation	Function
Shutter Button	Short press	Take a photo and start/stop recording video.
	Long press	When powered off: Quickly power on and enter shooting mode. When powered on: Power off.
Joystick	Toggle up/down or left/right	Control the gimbal movement in the tilt or pan direction.
	Short press	Start/Cancel Deep Tracking.
	Long press	Enable single-person or group tracking based on the number of people in front of the camera.
	Double click	Recenter the gimbal.
	Triple click	Flip the gimbal.
Zoom Slider	Push and hold	Smoothly zoom in or out of the image. The maximum magnification is 12×.
	Quick push	Switch focal lengths.
Custom Button	Short press	Flip the gimbal 180° (default.)

(Left)	Double press	360 Panorama (default.)
	Long press	Press and rotate the screen to turn on the device, and the gimbal will automatically face the selfie direction.
Custom Button (Right)	Short press	Switch filters (default.)
	Double click	Recenter the gimbal (default.)

## Indicator Light

The indicator light is located on the front of the device, displaying the current status of the device through different colors and blinking frequencies:

### Basic

Status	Indicator Status
<b>Standby</b>	Solid green
<b>Powering Off</b>	Flashing red (fast)
<b>Recording</b>	Flashing red (slow)
<b>Countdown Shooting</b>	Flashing green
<b>Firmware Upgrade</b>	Flashing green (slow)

## Power and Charging

Status	Camera Indicator Status	Battery Handle Indicator Status
<b>Camera Charging</b>	Solid orange	Solid orange
<b>Camera Charging Completed</b>	Off	Solid green
<b>Handle battery level: High</b>	No indicator	Solid green
<b>Handle battery level: Medium</b>	No indicator	Solid yellow
<b>Handle battery level: Low</b>	No indicator	Solid red
<b>Handle battery depleted</b>	No indicator	Flashing red (fast)

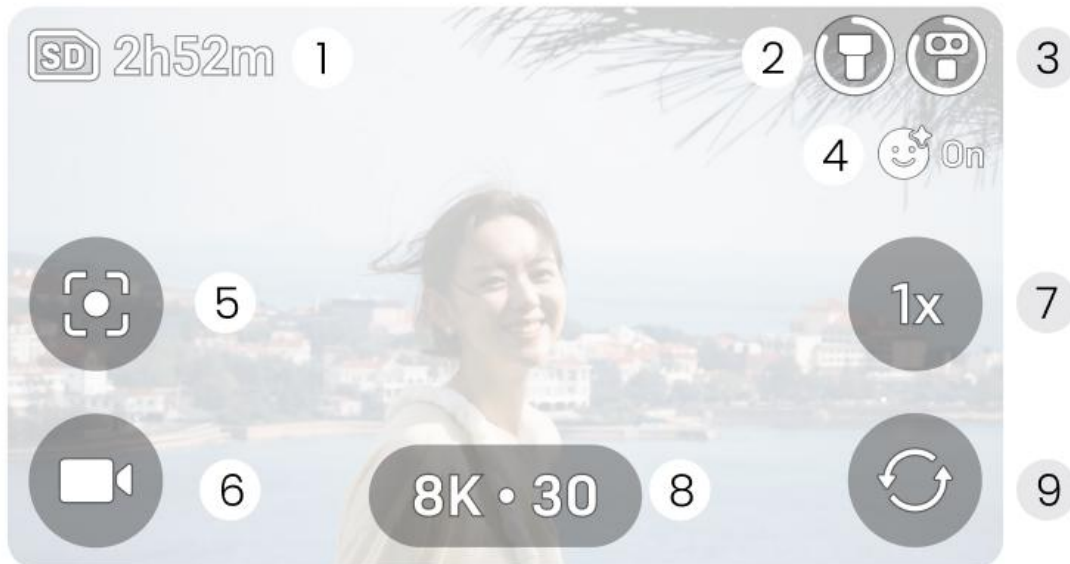
## Abnormal Status and Troubleshooting

Device	Issue	Indicator Status
<b>Camera</b>	<b>Storage/USB/Gimbal Abnormality</b>	Solid yellow
	<b>High/low temperature alert/Recording stopped due to insufficient microSD card write speed</b>	Flashing yellow 3 times
	<b>Battery too low/Charging abnormality</b>	Flashing yellow 3 times (repeated intermittently)
<b>Battery Handle</b>	<b>Battery depleted</b>	Flashing red

## Touchscreen Operation

The device is equipped with a highly sensitive touchscreen. On the shooting Home Page, you can configure various settings by tapping and swiping.

### Shooting Interface



1. Storage: Shows the remaining recording time and photo capacity for current storage device.
2. Touchscreen remote battery status.
3. Gimbal camera battery status.
4. Image settings.
5. Auto Tracking.
6. Shooting mode: tap to change.
7. Focal lengths: Tap to change or press and hold for continuous zoom.
8. Shooting specifications.
9. Flip gimbal 180°.

### Home Page Interactivity

- **Tap the screen:** Select a focus point or tap a feature icon.

- **Double-tap the screen:** Enable the "Auto Tracking" feature; the device will automatically lock onto and track the selected target. Tap anywhere on the screen to cancel.
- **Swipe in the center area of the screen:** Change shooting modes.
- **Rotate the screen:** Switch between landscape or portrait shooting (requires auto orientation to be enabled in settings.)
- **Swipe from the edges of the screen:** Enter the corresponding interface depending on the swipe direction.

## Swipe Down from the Top: Shortcut Menu

- **Storage Management (Swipe to the left):** Select internal storage or an external microSD card as the storage location, or format the storage space.
- **Screen Brightness:** Manually adjust the display brightness, or enable auto adjustment.
- **Prompt Sound:** Manually adjust the volume of prompt sounds or select mute.
- **Shooting Orientation:** Select Landscape, Portrait, or Auto Orientation.
- **Settings:** View the serial number, configure custom buttons, Wi-Fi settings, app connection, video bitrate, gimbal calibration, zoom speed, etc.
- **Gimbal Mode:** Select the appropriate gimbal mode for different scenarios to provide stable camera movement and a locked field of view. For detailed descriptions, please refer to the "Gimbal Modes" section.
- **Audio Settings:** Select the audio recording device (choose between built-in microphone or an external audio device), enable/disable built-in audio sync, and configure sound effects.
- **Quick Capture:** Configure the wake-up action for quick capture when the camera is powered off. Options include "Rotate the screen" and "Slide down the case" (requires the sliding protective case). Once enabled, users can quickly power on and shoot using the last used mode.
- **Wireless Mic:** Add external audio recording devices such as the Insta360 Mic Pro and configure audio settings. It supports connecting up to

two wireless microphones to the camera simultaneously.

- **Custom Button Settings:** Configure the custom buttons.
- **Accessories:** Connect and configure Bluetooth accessories.
- **Gesture Control:** Control camera operations by recognizing different gestures.

## Swipe Up from the Bottom—Shooting Specifications

Swipe to adjust the aspect ratio, clarity, and smoothness of the current shoot.

- **Aspect Ratio:** Adjust the frame aspect ratio to suit different compositions or playback devices.
  - **Landscape (When screen is horizontal):** Default is 16:9, switchable to 2.35:1 or 1:1. (Portrait ratios cannot be selected in this state.)
  - **Portrait (When screen is vertical):** Default is 9:16, switchable to 1:1.
  - **Auto-Adaptive:** Enable auto orientation in shortcut menu, and the ratios available in shooting parameters will change based on the physical state of the screen.
- **Resolution:** Adjust image quality. Higher resolutions provide richer details, while lower resolutions can extend recording time and save storage space.
- **Frame Rate:** Adjust the number of frames per second. High frame rates deliver smoother footage, making them ideal for post-producing slow-motion (overcranked) videos, while low frame rates save storage space.

Swipe to adjust the aspect ratio, clarity, and smoothness of the current shoot.

### How to Lock Portrait Shooting?

If you want to shoot portrait footage:

- **Method 1:** Press the Shutter Button to power on the camera while the screen is vertical.

- **Method 2:** Enter the shortcut menu and set the "Screen Rotation Operation" to "Keep Powered On".

## Swipe Right from the Left Edge: Album

Browse recorded videos and photos, with support for deleting, adding to favorites, and sending to your phone.

## Swipe Left from the Right Edge: Image Settings

The camera provides two adjustment modes—Basic and Pro—to suit different usage needs:

- **Basic Mode:** Ideal for getting started quickly with simple operations. It mainly provides frequently used adjustments such as Beauty Mode effects, Filters, and Exposure, making it convenient for quick everyday shooting.
- **Pro Mode:** Ideal for experienced users, providing more advanced adjustment options. These include Color Modes (Standard, Dolby Vision, 10-bit I-Log), White Balance, Saturation, Sharpness, Contrast, etc., allowing for finer image control and greater post-production flexibility.

Feature	Description
Beauty Mode	Intelligent in-camera face recognition with adjustable tone and smoothing levels, so you can fine-tune your look.
Filters	Select different color profiles and filters, and adjust their intensity (Leica color profiles do not support intensity adjustment.)
Color Modes	Select between Standard, Dolby Vision, and 10-bit I-Log (provides wider color-grading space for captured footage, requiring post-production color grading.)

Exposure	<p>In Basic Mode: Adjust the exposure.</p> <p>In Pro Mode: Adjust the exposure, ISO, and shutter speed to handle overexposed or underexposed scenes. Additionally, some parameters can be set to auto while others are manual for highly efficient adjustments.</p>
White Balance	Resolves color reproduction and color tone processing issues. Choose between a fixed color temperature or Auto White Balance (AWB).
Metering Mode	Face Priority prioritizes the face for brightness. Matrix ensures accurate exposure of the whole image.
Focus Mode	Select the camera's focus mechanism to suit different scenarios. Options include AF-C, AF-S, and Product Showcase.
Breathing Compensation	Minimizes changes in image magnification when focusing at different distances, delivering smoother and more natural focus transitions.

Adjustable parameters vary depending on the shooting mode.

## 4. Using Luna Ultra

### Selecting a Shooting Mode

#### Selecting a Mode

1. Tap the shooting mode button in the bottom left corner of the shooting page to enter the shooting mode switching page. You can also swipe left or right in the center of the screen to enter the switching page.
2. On the mode selection page, swipe left or right, or use the two custom buttons below the screen to change modes.
3. After selecting a shooting mode, tap the corresponding icon on the screen or wait a few seconds to complete the selection and return to the shooting page.

#### Shooting Modes

Shooting Mode	Description
Video	Standard video.
PureVideo	Ideal for low-light and nighttime shooting, delivering cleaner image quality with reduced noise.
Slow Motion	Shoot Slow Motion video with a high frame rate.
Timelapse	When camera is stationary, capture stunning time-lapse videos of sunrises, sunsets, and cityscapes.
TimeShift	With the camera in motion, create dynamic hyperlapse videos as you walk, cycle, and explore.
Panorama	Capture multiple photos and stitch them together to

	create either a 360 Panorama, or a 200MP Scenic Panorama.
Photo	Take a single photo. You can choose to capture 3-second Live Photos (Live Photos do not support UltraPhoto).

## Gimbal Modes

The device is equipped with a 3-axis mechanical gimbal that offers various gimbal modes to suit different shooting needs. Switching modes allows you to quickly adapt to handheld walking, sports tracking, or creative angles.

### Available Gimbal Modes

- **Roll Lock:** Keeps the frame level. Ideal for daily vlogs.
- **Roll & Tilt Lock:** Keeps the frame level and tilt fixed. Ideal for dolly and pan shots.
- **FPV:** Follows handle movement in all directions. Ideal for creative shots.
- **FPV-V:** The gimbal freely follows the handle in all directions. When recentered, the camera stays perpendicular to the handle.

## Switching Modes

Swipe down from the top edge of the touchscreen to enter the shortcut menu, then tap Gimbal Mode to switch modes. After switching to a different mode, the gimbal will automatically center itself.

## Speed Settings

Tap the icon in the top right corner of the Gimbal Mode page to configure the gimbal follow speed (only effective during recording) and joystick speed. Three options are available: Slow, Medium, and Fast.

- **Slow:** Best for shooting slow-moving landscapes or stationary subjects, delivering stable and smooth footage.

- Medium: Best for casual walking, travel vlogs, or everyday shooting.
- Fast: Best for capturing sports events, running pets, or quick transitions, and other action scenes.

## Auto Tracking and Smart Framing

### Auto Tracking

In modes that support tracking, you can enable tracking using any of the following methods:

- **Method 1:** Via Joystick. On the shooting page, push in the joystick. The system will automatically identify and lock onto the best subject in the frame to start tracking.
- **Method 2:** Via Touchscreen Double-Tap. Double-tap the subject you want to track on the screen to start tracking directly.
- **Method 3:** Via Feature Icon. Tap the tracking icon on the left side of the screen to perform the following actions:
  - **Single-Tap Selection:** Directly tap a pre-detected subject in the frame. If a pre-detected frame appears and is not tapped, the system will automatically track the identified subject after a 5-second countdown.
  - **Manual Selection:** Press and drag on the screen to draw a box around one or more subjects. (This method supports free tracking for any object that has not been pre-detected.)
  - **Auto-Tracking:** Once enabled, the camera detects trackable subjects in the frame in real time, including people, cats, and dogs. When the shutter button is pressed or tracking is triggered, the system automatically selects the largest subject closest to the center of the frame as the tracking target and begins auto-tracking. This is ideal for scenarios such as outdoor solo selfies. It is recommended to avoid overly crowded environments while shooting to ensure accurate tracking.

## Notes on Canceling and Losing Tracking Subjects

- **Manual Exit:** When tracking, single-tap anywhere on the screen to cancel.
- **Subject Lost:** If the subject is obstructed or leaves the frame, the box will turn yellow as the system attempts to reacquire it. In this state, the system applies different auto-cancel strategies based on the type of tracked subject:
  - For human subjects: The system will continue searching for the subject and will never automatically cancel tracking.
  - For pet subjects: If the subject is not reacquired within 10 seconds, the box will disappear and tracking will automatically cancel.
  - For other subjects: If the subject is not reacquired within 5 seconds, the box will disappear and tracking will automatically cancel.

## Smart Framing

Tap the icon to preset your framing position using a 3×3 grid.

### Customize Framing

While tracking, tap the Smart Framing button on the left side of the screen. You can then tap the screen or toggle the joystick to select a composition point, ensuring the tracked subject always remains positioned at that specific point.

### Tips:

- Tracking performance may be limited in environments with rapid movement, obstructed subjects, or extremely low light.

## Shot Lab

The Shot Lab is the camera's built-in center for camera movement inspiration. Through the Shot Lab, you can quickly apply preset shooting templates and explore inspirational examples of different shooting styles.

## Operation Method

1. In the shooting mode switching page, tap the Shot Lab icon in the top right corner.
2. Select the camera movement you want to use.
3. Select a shot template and the camera will automatically perform the movement.

## Using the Touchscreen Remote

The device includes a detachable touchscreen remote that can also function as a standalone remote controller and microphone. This allows for long-distance previewing, parameter adjustment, and shooting control, making it ideal for scenes where you need to be away from the camera. It supports HD image transmission up to 20m. Before use, ensure the remote has sufficient battery and is within the effective connection range of the camera.

## Detaching/Attaching the Touchscreen Remote

1. Press and hold the release buttons on both sides of the touchscreen remote, and gently pull it outward to detach it.
2. Once detached, the remote maintains communication with the camera via a wireless connection, providing a real-time live preview.
3. Use the touchscreen or physical buttons on the remote to operate the camera (such as switching modes, adjusting exposure, or starting/stopping recording).
4. After shooting, reattach the remote to the camera body.

## Using as a Wireless Microphone

The remote features a built-in microphone at the top and can also be used as a wireless microphone.



## Connecting an External Microphone

For more professional audio recording, you can connect a wireless microphone (such as Insta360 Mic Pro). A wireless microphone can significantly improve vocal clarity and ambient audio quality, making it ideal for scenarios like interviews and vlogging. The device supports up to two wireless microphones. The following instructions use Mic Pro as an example.

## Connecting the Receiver via an Adapter

1. Attach a USB-C adapter to the Mic Pro receiver and insert it into the USB-C port at the bottom of the camera.
2. The camera will automatically detect and switch to the external microphone input. Under Audio Settings, the recording device will update to External Microphone.

## Connecting the Transmitter via Bluetooth

1. Swipe down to enter the shortcut menu.
2. You can pair the wireless microphone through either of the two entry points: **Accessories** or **Wireless Mic**.
3. Triple-press the power button on the transmitter to enter pairing mode

and complete the pairing process.

For more detailed instructions on using Mic Pro, please refer to the Mic Pro User Manual.

## Transferring Media Files

After shooting, you can transfer files from the camera to your phone or computer in various ways for easy editing and sharing.

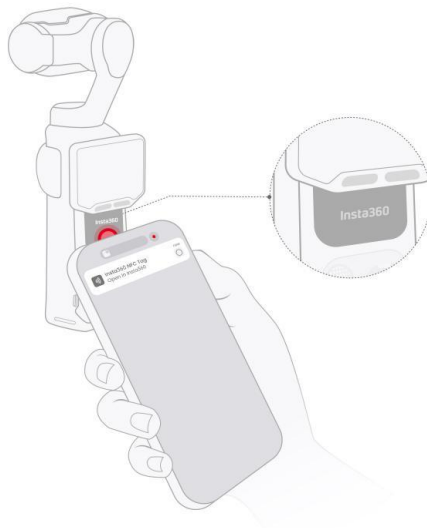
### Transferring to a Phone

#### Via the Insta360 App

1. Open the Insta360 app and connect the camera (ensure Wi-Fi and Bluetooth are turned on).
2. Go to the **Album** page in the app and select the files you want to transfer.
3. Tap export or download to save them to your phone's system album or the app's media gallery.

#### Tap & Transfer

1. Turn on NFC on your phone. (Note: The NFC detection area varies by device; please check your phone before use.)
2. Place your phone close to the NFC area below the camera screen.
3. The Insta360 app will automatically launch and transfer the files.



**Note:** Feature compatibility and the location of the phone's NFC area vary depending on the phone model.

### Via USB-C Cable

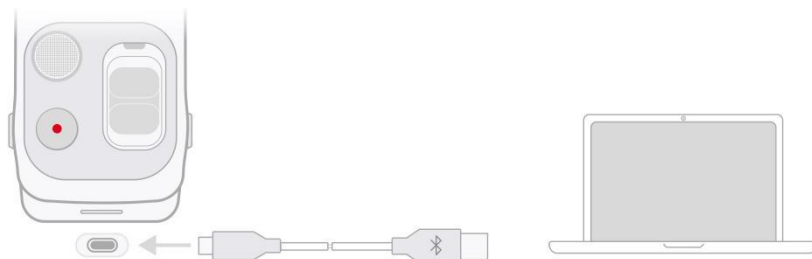
1. Connect the camera to your phone using a USB-C cable.
2. A connection mode menu will pop up on the camera screen; select File Transfer.
3. Locate the camera storage in your phone's file manager, then copy the desired files to your phone.

**Note:** For iPhone, this feature only supports iPhone 15 and later models equipped with a USB-C port.

## Transferring to a Computer

### Via USB-C Cable

1. Connect the camera directly to your computer using a USB-C cable.
2. A mode selection menu will automatically pop up on the camera screen; select File Transfer.
3. The computer will recognize the camera as a removable storage device.
4. Open the camera folder and copy the desired photo and video files to your computer's local hard drive.



### Via microSD Card

1. If a microSD card is used for storage, power off the camera and

remove the microSD card.

2. Insert the microSD card into your computer (a card reader may be required depending on your computer's ports).
3. Copy the files directly to your computer.

**Tips:**

- It is recommended to power off the camera before removing the microSD card to prevent file corruption.
- Ensure the memory card is safely ejected from the computer before physical removal.

## 5. Using the Insta360 App

### Download

#### Scan QR Code on Device

When powering on the device for the first time, you can scan the QR code on the camera screen to download the app (if the QR code does not appear in your current language, please visit the official website to download it).

#### Downloading from the Website

Go to the official Insta360 website. Click Downloads to download the app.

### Connecting the Device

1. Power on the device.
2. Turn on Wi-Fi and Bluetooth on your phone.
3. Open the Insta360 app, tap the camera icon on the homepage to connect the device, and follow the on-screen prompts.

\*For the first-time connection, you need to tap on the camera screen to confirm authorization.

#### **Can't connect the camera to the Insta360 app? Try the following troubleshooting steps:**

1. Ensure both the camera firmware and the app are updated to the latest versions, and that the Insta360 app has been granted the following permissions: network, Bluetooth, and local network.
2. Go to your phone's system settings to check if the Wi-Fi is connected.
  - If not connected, enter the Wi-Fi password, then restart both the camera and your phone before trying again.
  - If the connection still fails, go to the Wi-Fi settings page on your phone, find the camera's Wi-Fi network, forget this network and try

connecting again.

3. Confirm that GPS and Bluetooth permissions have been enabled for the Insta360 app in your phone settings.
  - For Android users: Ensure that options like WLAN+ or Auto-Switch Wi-Fi are turned off (if available in your settings).
  - For iOS users: Go to your phone's system settings, locate Insta360, and check if Local Network permission is enabled.
4. Place the device close to your phone.

## Auto Edit

Import your media, and the AI will automatically select templates, music, and transitions to generate a creative masterpiece with a single tap. The app also supports directly creating a 3-photo Live Frame Collage.

### Operation Instructions

1. Power on the device, open the Insta360 app, and connect the device.
2. Tap the Edit page and select Auto Edit.
3. Select three or more media clips.
4. Wait for the app to analyze the video scenes and generate the video.
5. You can manually choose other templates or adjust the duration.
6. Export the video.