



- ① Remote Control Signal Status
- ② Remote Control Battery Level
- ③ FAA Remote ID Status
- ④ Transmission Channel
- ⑤ Mission Waypoint Record
- ⑥ GPS/Speed Mode
- ⑦ Aircraft Signal Status
- ⑧ Aircraft Battery Level
- ⑨ Distance  
Height
- ⑩ Horizontal Speed  
Vertical Speed
- 11 Pan Angle
- 12 Latitude  
Longitude
- 13 Camera Status

## 2.Button Descriptions



## COME HOME

Long press to turn on RTH mode, and short press to exit RTH mode.

## IMPROVED VIDEO

If you want to change the image transmission channel of Xpece-ONE, or if the image transmission channel you are using is interfered with, you can change the channel. The image transmission channel is displayed in the upper left of the remote control screen.



Short press to cycle through Bands 1 – 8, long press to cycle through Channels A

## POWER

Power on: Short press the power button once, then long press and hold it until the remote control vibrates and all the battery indicators light up.

Power off: Short press the power button once, then long press it until all the battery indicators go out.

## MARK WAYPOINT

Long press MARK WAYPOINT for 3 seconds to save the waypoint at that location, short press MARK WAYPOINT will fly to the waypoint.

## VIDEO | PHOTO

Short press to take a photo, long press to record a video.

## GIMBAL CAMERA CONTROL



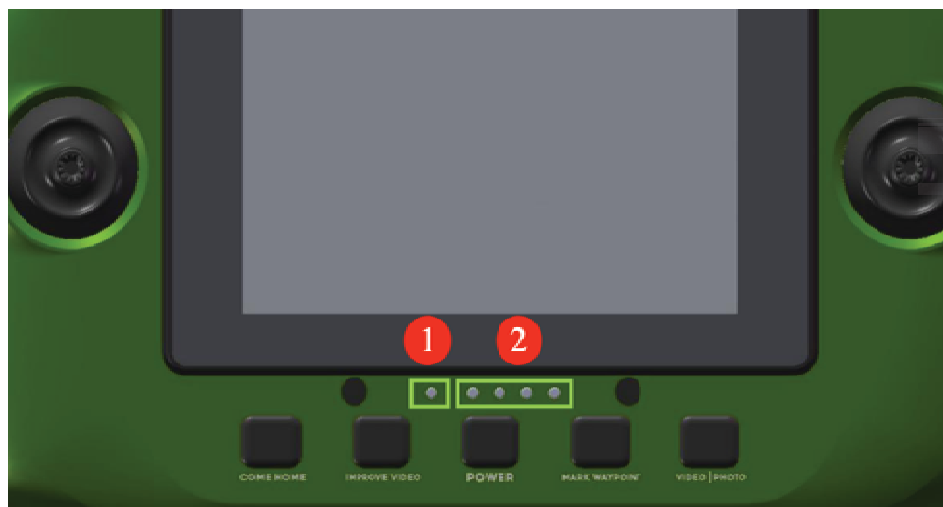
Toggle Up-Up  
Toggle Down-Down

## PAYLOAD CONTROL

Toggle Up-Close  
Toggle Middle-Nothing  
Toggle Down-Open



## 3.Remote Controller Status Indicator



|                                  |                                |
|----------------------------------|--------------------------------|
| ① Connection Status Indicator    | Solid Green-Connected          |
|                                  | Flashing Green - Not Connected |
| ② Battery Level Status Indicator | ■ ■ ■ ■ 75%-100%               |
|                                  | ■ ■ ■ 50%-75%                  |
|                                  | ■ ■ 25%-50%                    |
|                                  | ■ 0%-25%                       |

## 4.Remote Controller Antenna Orientation



## Aircraft Antenna Blind Spot

Due to the nature of the antenna radiation pattern, there is a blind spot about **40°** under the aircraft. When positioned under the blind spot area, the remote controller will experience **signal loss**. If you encounter a signal loss issue when you are near the aircraft, you might be in the blind spot area.



Please avoid being in the blind spot zone to prevent the signal loss issue.

- During take-off, try to fly the aircraft away from you instead of quickly ascending the aircraft into the overhead area near you.
- Same for Return-to-Home/Landing, land the aircraft at a safe distance before you to avoid being in the blind spot area.

## 5. Pairing

The remote controller and the aircraft are paired at the factory before shipping. There is no need to pair them for your first use.

If the aircraft and the remote controller are not able to connect, please try the following steps to pair the aircraft and the remote controller:

1. Power on the remote controller while keeping the aircraft off.
2. Press and hold the **IMPROVED VIDEO** button and **POWER** button for 3 seconds.  
 **The remote control's connection indicator flashes red and green alternately, and voice prompt "Pairing".**
3. Power on the aircraft.
4.  **Ensure to power on the aircraft while the remote controller is prompting (within 10 seconds).**  
The remote controller and the aircraft would pair automatically

## 6. Joystick Calibration

Calibrate the control sticks if:

- The remote controller prompts "Joystick error, calibrate the joystick".
- The aircraft is not able to fly straight.
- In GPS mode, the aircraft is moving in one direction or changing its orientation when there is no input from the remote controller.
- The aircraft is not flying in an intended direction when you are controlling the aircraft.

To calibrate control sticks:

1. Power off the aircraft.
2. Press and hold **COME HOME** button and **POWER** button for 3 seconds.



The remote controller would voice prompt "Calibrate the joystick" .

3. Push both sticks all the way up and rotate about 5 circles, then release both control sticks, the remote controller would voice prompt "Calibration Complete" .

## Gimbal Camera

**⚠ After flying in seawater, rinse the gimbal and camera thoroughly with clean fresh water immediately before the seawater dries.**

**⚠ If seawater or other sediment dries and crystallizes into salt inside the gimbal, rinse all crystals off the camera thoroughly with fresh water before use.**

### 1. Camera Diagram



- ① Shock-absorbing ball
- ② Camera
- ③ Laser light (Undeveloped)

## 2.Storing and Exporting Photos and Videos

### Storing Photos and Videos

- Please insert the MicroSD card into the gimbal camera.
- The camera supports microSD cards with a maximum capacity of 128GB. Since the camera requires fast reading and writing of high-stream video data, please use microSD cards with Class 10 or UHS-1 or above to ensure proper functioning.
- Do not insert or unplug the microSD card during aircraft shooting, as data files may be damaged or lost.
- Once you are done recording, stop recording and save the file. If you turn off the power directly before saving the files, the recording file might be damaged.

### Exporting Photos and Videos

Please remove the microSD card and put it into the reader to retrieve the image data.

## Precautions for low-temperature use

- When the battery is used in a low-temperature environment ( $-10^{\circ}\text{C}$  to  $5^{\circ}\text{C}$ ), the battery capacity and flight time will be drastically reduced. It is recommended to take off when the battery is fully charged. Please fully charge and keep the battery warm before use.
- In a low-temperature environment, it is recommended to preheat the battery to above  $5^{\circ}\text{C}$  before flying, and it is better to preheat it to above  $20^{\circ}\text{C}$ .
- Before flying in a cold environment, insert the battery into the aircraft to warm up for 1 to 2 minutes, and take off after the battery is fully warmed up.

## Storage and Transportation

- **Do not leave both the flight battery and remote controller battery unattended for an excessive period of time (longer than 3 months).** As the battery discharges over time, long storage time without recharge would result in battery over-discharge and cause permanent damage to the battery.
- Keep batteries out of the reach of children and pets.
- Do not leave the battery near heat sources, such as a furnace, heater, or exposure to strong direct sunshine, for example: in cars. The ideal storage temperature is 20°C ~ 28°C.
- Keep the battery in a dry and ventilated environment. Never drop the battery into the water, or store it in places where there is a possibility of water leakage.
- Do not drop, strike, impale, pierce, or manually short-circuit the battery.
- Keep the battery away from metal objects, such as watches, jewelry, and hairpins.

## Disposal

- Dispose of the battery in specific recycling boxes only after a completedischarge.
- DO NOT place the battery in regular trash containers. Strictly follow your local regulations regarding the disposal and recycling of batteries.

## Appendix

### Specifications

| Aircraft  |            |
|---|------------|
| Waterproof Rating:  | IP67       |
| Weight (include battery, propellers, gimbal camera, andpayload release module): | 3200g      |
| Max Take-off Weight:  | 6200g      |
| Wheelbase:  | 580mm      |
| Motor:  | 4110-450KV |



|   |  |
|---|--|
| <b>ESC:</b>   | 40A Four-in-One  |
| <b>Propeller:</b>                                   | #1550 Carbon fiber propeller   |
| <b>Satellite Positioning Systems:</b>               | Gps/ Glonass/ Galileo / BeiDou   |
| <b>Max Ascent Speed:</b>                            | 4m/s   |
| <b>Max Descent Speed:</b>                           | 3m/s   |
| <b>Max Flight Speed:</b>                            | 10m/s (Fast) , 8m/s (Medium), 3m/s (Grandpa)   |
| <b>Max Tilt Angle:</b>                              | Control 25°, Brake 40°   |
| <b>Maximum Rotation Angular Velocity:</b>           | Pitch: 250°/s; Yaw: 150°/s   |
| <b>Max Altitude from Takeoff Point:</b>             | 120m   |
| <b>Max Wind Speed Resistance:</b>                   | 20 m/s   |
| <b>Max Hovering Time:</b>                           | 30 mins (With gimbal camera and payload, no winds, Camera parameters were adjusted to 1080p/30fps, video recording turned off, was measured while hovering at sea level until battery level to 0%. This figure is for reference only. Please pay attention to the display prompts in actual flight.) |
| <b>Max Flight Time:</b>                             | 27 mins (Same conditions as above)   |
| <b>Hovering Precision:</b>                          | ±0.8m (vertical)<br>±0.5m (level)  |
| <b>Max Flight Distance:</b>                         | 2000m  |
| <b>Image Transmission Power:</b>                    | 600mW  |
| <b>Image Transmission Working Frequency:</b>        | 5745 - 5825 MHz  |
| <b>2.4G Wifi Working Frequency:</b>                 | 2412-2462MHz   |
| <b>2.4G Digital Transmission Working Frequency:</b> | 2402-2478 MHz  |
| <b>Transmitter Power (EIRP) :</b>                   | FCC/IC: ≤ 24 dBm<br>CE/SRRC/MIC: ≤ 20 dBm  |
| <b>Working Temperature:</b>                         | -10°C ~ 40°C   |

| Intelligent Flight Battery                   |  |
|--|--|
| Nominal Voltage:                             | 22.2V  |
| Discharge Rate:                              | 10C  |
| Max Charging Current:                        | 10A  |
| Nominal Capacity:                            | 4500 mAh   |
| Type:  | Intelligent 6S LiPo  |
| Energy:                                      | 99.9 Wh  |
| Size:  | 162mm*84mm*55mm  |
| Weight:                                      | 1070g (+/-5g)  |
| Working Temperature:                         | -10°C - 40°C   |
| Charging Time:                               | About 120 mins   |
| Max Charging Power:                          | 126W   |
| Special Function:                            | Overcharge, overcurrent, overvoltage and overheat protection;<br>Differential pressure balance;<br>Real-time voltage, current, capacity, temperature data feedback;<br>24-hour black box data recording, including charging, discharging, static placement time, overcharge times, overdischarge times, etc. |
| Remote Controller                            |  |
| Waterproof Rating:                           | IP66   |
| Transmitter Power (EIRP) :                   | FCC/IC: ≤ 24 dBm<br>CE/SRRC/MIC: ≤ 20 dBm  |
| Display Receiving Frequency:                 | 5745 - 5825 MHz  |
| Real-time Video Transmission:                | AV SD Image  |
| 2.4G Digital Transmission Working Frequency: | 2402-2478 MHz  |
| Nominal Capacity:                            | 2S 2600mAh   |
| Max Using Time:                              | 180 mins   |
| Screen:                                      | 5 inch Resolution:800*480  |

|                         |  |
|-------------------------|--|
| Screen Brightness:      | 1000 cd/m2   |
| Working Temperature:    | -10°C - 40°C   |
| Charging Time:          | 2H   |
| Charging Current:       | 5V/2A-5V/3A  |
| Charger                 |  |
| Input:                  | 100-240V, 50/60Hz  |
| Output:                 | 25.2V-25.6V  |
| Nominal Power:          | 150W   |
| Gimbal Camera           |  |
| Waterproof Rating:      | IP67   |
| Controllable range:     | Pitch: -90° - 0°   |
| Weight:                 | About 120g   |
| Size:                   | 90mm*56mm*54mm   |
| Sensor:                 | AR0230 (2M) 1/2.7  |
| Camera Angle:           | 121°   |
| Image Resolution:       | 1080p 60fps  |
| Video Resolution:       | 1920*1080 30fps  |
| Simulated Image Output: | NTSC(720*480)/PAL(720*576)   |
| Photo Format:           | JPEG   |
| Video Format:           | MP4  |
| Memory Card:            | microSD card with a maximum capacity of 128GB, write speed ≥ 60 MB/s, recommend using Class 10 or above & UHS-1 rating |
| Working Temperature:    | -10°C to 40°C  |
| Payload Release         |  |
| Waterproof Rating:      | IP67   |
| Size:                   | 65.5mm*46mm*32mm   |
| Weight:                 | 70g  |
| Max Load Weight:        | 3kg  |

# Warranty and Aftersales Information

Visit <https://xpece.com/> to learn more about aftersales service policies, repair services, and support.

## Disclaimer and Warning

This product is not a toy and should only be operated by persons over the age of 18.

Please keep it out of reach of children and pay particular attention to the possible scenarios of children unexpectedly.

Be sure to read this document carefully before using the product, to fully understand your legal rights, responsibilities, and safety instructions. Failure to do so may cause property damage, accidents, and personal injury. Once this product is used, it is deemed that you have understood, recognized, and accepted all the terms and conditions of this statement.

The user is responsible for all the consequences of his actions and the use of the product. The user agrees to use the product for his sole & legal purpose and agrees with the terms & conditions of this agreement, and other relevant policies & guidelines that may be specified by XPECE.

Under the maximum permitted by law and Approved circumstances, XPECE accepts no liability for any indirect, punitive, consequential, special, or criminal damages, including the purchase cost, or loss of income due to the loss of use of the aircraft.

**Xpece is exempt from the user's liabilities for damage(s) to person/s or property, or injuries incurred directly or indirectly from the use of this product in the following conditions:**

- Damage or injuries incurred when the user/s are under the influence of alcohol, drugs, or medication.
- Any malfunction caused by operators' failure to follow the guidance of the manual to assemble and set up or operate the aircraft as described and designed.
- Damage or injuries may occur due to failure to study the tutorial videos and the user manual before flying the aircraft.
- Damage or injuries incurred as a result of the use or installation of any unauthorized third-party accessories or counterfeit parts - which were not provided and approved by XPECE.
- Damage or injuries caused by flying the aircraft in areas of magnetic fields & radio interference.
- Damage or injuries caused by flying in a NO-FLY ZONE that is regulated by local laws & rules.
- Damage or injuries including crashes, loss of control, or water ingress caused by abusing or modifying the original aircraft structure.
- Damage or injuries caused by using broken & aging components.

- Damage or injuries caused by continuing to fly the aircraft even if the low battery alarm is activated.
- **Damage or injuries caused by failure to wash the components with fresh water after flying over or near the sea & corrosive waters.**
- Damage or injuries that have occurred when the aircraft has been subjected to the following conditions or situations: collision, fire, explosion, floods, tsunamis, ice, snow, avalanche, flooding, landslide, earthquake, etc.
- Damage or injuries incurred by intentionally dropping or crashing the aircraft into the water from a high altitude, especially water ingress into the aircraft fuselage and gimbal malfunction.
- Damage due to not following the user manual and maintenance manual properly.
- Damage caused by operating the product at a weight greater than the safe takeoff weight, as specified by instruction manuals.
- For any reason, the user cannot retrieve the aircraft for further diagnosis and examination.
- The user is not able or unwilling to provide the flight log to Xpece for diagnosis and examination.
- Any attempt to modify flight log data noticed by Xpece.
- Other damage(s) or injuries that are not Xpece's liability.

## Revision Log

Xpece products are constantly being improved and upgraded, product firmware and user manuals are also keep updating. You can visit <https://xpece.com/> to view and download the latest user guides.

| Version          | Date   | Revisions       |
|------------------|--------|-----------------|
| User Manual V1.0 | 2024.7 | Initial release |