HYTOBP P17 PRO

HYTOBP P17 PRO GPS Drone User Manual

Model: P17 PRO | Brand: HYTOBP

1. Introduction

Thank you for choosing the HYTOBP P17 PRO GPS Drone. This manual provides essential information for the safe operation, setup, and maintenance of your drone. Please read this manual thoroughly before your first flight to ensure proper usage and to maximize your flying experience. This drone features a 4K camera, 5G WiFi real-time transmission, obstacle avoidance, and powerful brushless motors.

2. Safety Guidelines

- **Read the Manual:** Always read the entire manual before operating the drone.
- **Environmental Conditions:** Fly in open areas, away from people, buildings, and obstacles. Avoid flying in strong winds (above Level 5), rain, or snow.
- **Battery Safety:** Use only original batteries and chargers. Do not overcharge or puncture batteries. Discontinue use if batteries are damaged or swollen.
- **Line of Sight:** Maintain visual line of sight with the drone at all times.
- **Age Restriction:** This product is intended for adults.
- **Local Regulations:** Be aware of and comply with all local drone flying regulations and restrictions.
- **Obstacle Avoidance:** While the drone has obstacle avoidance, it is not foolproof. Always exercise caution and manual control.

3. Package Contents

Verify that all items are present in your package:

- 1x HYTOBP P17 PRO Drone
- 1x Remote Controller
- 3x Flight Batteries
- 1x Storage Case
- 1x Screwdriver
- 4x Spare Propellers

- 1x USB Charging Cable
- 2x User Manuals



Figure 3.1: Included Package Contents

4. Drone Overview

Familiarize yourself with the main components of your HYTOBP P17 PRO drone.



Figure 4.1: HYTOBP P17 PRO Drone in Flight

- **4K Camera:** High-resolution camera with 120° FOV and 90° adjustable lens for capturing photos and videos.
- **GPS Module:** Enables precise positioning, intelligent flight modes, and automatic return functions.
- **Brushless Motors:** Provide powerful, efficient, and quiet flight performance with enhanced durability.
- **Obstacle Avoidance Sensors:** Detect obstacles within a 10-meter range to enhance flight safety.
- **LED Lights:** Indicate drone status and aid in visibility.
- **Foldable Arms:** Allow for compact storage and portability.



Figure 4.2: 4K Camera Features



Figure 4.3: Brushless Motors for Enhanced Performance

5. Remote Controller Overview

Understand the functions of the remote controller buttons and joysticks.



Figure 5.1: Remote Controller with Smartphone Display

- **Left Joystick:** Controls altitude (up/down) and rotation (yaw left/right).
- **Right Joystick:** Controls forward/backward and left/right movement.
- **Takeoff/Landing Button:** One-key takeoff and landing.
- **Return to Home (RTH) Button:** Initiates automatic return to the takeoff point.
- **Speed Switch:** Adjusts flight speed (low/medium/high).
- **Photo/Video Button:** Captures photos or starts/stops video recording.
- **Gimbal Adjustment Wheel:** Adjusts the camera's vertical angle.
- **LCD Display:** Shows flight distance, battery status, and other telemetry data.

6. Setup

6.1 Battery Installation & Charging

1. **Charge Batteries:** Fully charge all three flight batteries using the provided USB charging cable before first use. Connect the USB cable to a 5V/2A adapter (not included). The indicator light on the battery will change when fully charged.
2. **Install Battery:** Insert a charged battery into the drone's battery compartment until it clicks into place.
3. **Remote Controller Batteries:** Install 3x AA batteries (not included) into the remote controller.



Figure 6.1: Charging the Flight Batteries

6.2 Propeller Installation

Ensure propellers are correctly installed. Match propeller types (A and B) to the corresponding motor arms as indicated on the drone.

1. Use the provided screwdriver to attach the propellers.
2. Ensure each propeller is securely fastened.

6.3 Unfolding the Drone

Carefully unfold the drone arms before flight.

1. Gently pull out the front arms until they lock into position.
2. Then, pull out the rear arms until they lock.



Figure 6.2: Folded Drone for Portability

7. Operation

7.1 Power On/Off

- **Drone:** Press and hold the power button on the drone for 2 seconds until the indicator lights turn on.
- **Remote Controller:** Press the power button on the remote controller.
- **Power Off:** Repeat the power-on steps to turn off both devices.

7.2 Pairing the Drone and Remote

1. Place the drone on a flat, open surface.
2. Power on the drone, then the remote controller.
3. The drone's indicator lights will flash rapidly, indicating it is searching for a signal.
4. Push the left joystick up then down. The remote will beep, and the drone lights will become solid, indicating successful

pairing.

7.3 GPS Signal Acquisition & Calibration

For stable flight and intelligent features, ensure GPS signal acquisition and calibration are completed outdoors.

1. After pairing, wait for the drone to acquire GPS signals. The GPS indicator on the remote's LCD will show signal strength.
2. **Gyro Calibration:** Push both joysticks to the bottom-left corner simultaneously until the drone lights flash. Release joysticks.
3. **Compass Calibration:** Push both joysticks to the top-right corner simultaneously. The drone lights will flash slowly. Rotate the drone horizontally 360 degrees until the lights change. Then, rotate the drone vertically 360 degrees with the camera facing down until the lights become solid.

7.4 Takeoff and Landing

- **One-Key Takeoff:** Press the takeoff/landing button once. The drone will automatically ascend to a safe height and hover.
- **Manual Takeoff:** Push both joysticks to the bottom-outer corners to start the motors. Then, push the left joystick up to ascend.
- **One-Key Landing:** Press the takeoff/landing button once. The drone will automatically descend and land.
- **Emergency Stop:** In an emergency, press and hold the takeoff/landing button for 3 seconds to stop the motors.

7.5 Basic Flight Controls

- **Ascend/Descend:** Push the left joystick up/down.
- **Forward/Backward:** Push the right joystick up/down.
- **Turn Left/Right (Yaw):** Push the left joystick left/right.
- **Fly Left/Right (Strafe):** Push the right joystick left/right.

7.6 Camera Operation

- **Take Photo:** Press the Photo button on the remote controller.
- **Record Video:** Press the Video button on the remote controller to start recording. Press again to stop.
- **Adjust Camera Angle:** Use the gimbal adjustment wheel on the remote to tilt the camera up or down (90° range).

7.7 Intelligent Flight Modes

The P17 PRO drone offers several intelligent flight modes for enhanced flying and photography.

- **GPS Return to Home (RTH):** The drone will automatically return to its takeoff point if the battery is low, signal is lost, or the RTH button is pressed.



Figure 7.1: Intelligent GPS Function and Auto Return

Note: Ensure GPS mode is active when flying outdoors for accurate RTH functionality. The drone also records its flight path, allowing you to locate it if lost.

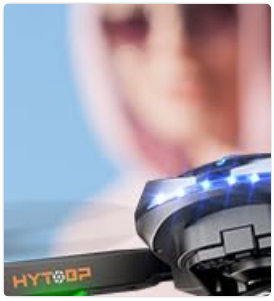


Figure 7.2: Drone Location Tracking via GPS

- **Obstacle Avoidance:** The drone can detect obstacles up to 10 meters away, enhancing flight safety.



Figure 7.3: Obstacle Avoidance in Action

- **Trajectory Flight:** Draw a path on the app interface, and the drone will follow it automatically.



Figure 7.4: Trajectory Flight Mode

- **Orbital Flight:** The drone will circle around a designated point of interest.



Figure 7.5: Orbital Flight Mode

- **Destination Flight:** Set specific waypoints on the map, and the drone will fly to each point.



Figure 7.6: Destination Flight Mode

- **Gesture Control:** Use specific hand gestures to trigger photo or video recording.



Figure 7.7: Gesture Recognition for Photo/Video

7.8 5G WiFi Real-time Transmission

Connect your smartphone to the drone's 5G WiFi network to view real-time footage and access advanced flight controls via the dedicated app.

- Download the HYTOBP drone app from your smartphone's app store.
- Turn on the drone and your smartphone's WiFi.
- Connect to the drone's WiFi network (usually named 'HYTOBP-XXXXXX').
- Open the app to see the live camera feed and control options.



Figure 7.8: 5G WiFi Real-time Transmission

8. Maintenance

8.1 Battery Care

- Always fully charge batteries before use.
- Do not leave batteries unattended while charging.
- Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures.
- If not used for an extended period, charge and discharge batteries periodically to maintain their health.

8.2 Propeller Replacement

- Inspect propellers for damage (cracks, bends) before each flight.
- If a propeller is damaged, replace it immediately with a spare propeller of the correct type (A or B).
- Use the provided screwdriver to remove and install propellers. Ensure they are securely fastened.

8.3 Cleaning and Storage

- Clean the drone with a soft, dry cloth after each use. Avoid using water or solvents.
- Store the drone in its original storage case or a similar protective container to prevent damage.
- Remove batteries from the drone and remote controller if storing for long periods.

9. Troubleshooting

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired; low remote battery; out of range.	Re-pair drone and remote; replace remote batteries; fly within range.
Drone drifts during flight.	Gyro not calibrated; strong wind.	Perform gyro calibration; avoid flying in strong winds.
Poor camera image quality.	Lens dirty; insufficient light; 5G WiFi interference.	Clean lens; fly in well-lit conditions; ensure strong 5G WiFi connection.

Problem	Possible Cause	Solution
GPS functions not working.	No GPS signal; flying indoors.	Fly outdoors in an open area; wait for sufficient GPS satellites to connect.
Short flight time.	Battery not fully charged; old battery; aggressive flying.	Ensure full charge; consider replacing old batteries; fly more conservatively.

10. Specifications

Feature	Detail
Model Name	P17 PRO
Brand	HYTOBP
Color	Black
Camera Resolution	4K (3840x2160)
Video Capture Format	MP4
Image Format	JPEG
Connectivity Technology	5G Wi-Fi
Remote Control Technology	Wi-Fi
Control Type	Remote Control
Optical Sensor Technology	Infrared, Optical Flow
Obstacle Avoidance Range	Up to 10 meters
Weight	< 249g (No registration required in some regions)
Batteries Included	Yes (3 rechargeable batteries)

11. Warranty and Support

HYTOBP is committed to providing high-quality products and satisfactory after-sales service. For any issues or questions regarding your P17 PRO drone, please contact our customer support team. Refer to the warranty card included in your package for specific warranty terms and conditions.
For further assistance, please visit the official HYTOBP website or contact your retailer.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question