Hiturbo GM-100A

Hiturbo Drone User Manual

Model: GM-100A

1. Introduction

Thank you for purchasing the Hiturbo GM-100A Drone. This drone is designed for beginners and adults, featuring a 1080P camera, foldable design, and intelligent flight modes such as voice control, gesture selfie, altitude hold, and 3D flips. Please read this manual thoroughly before operating the drone to ensure safe and optimal performance. Keep this manual for future reference.

2. Safety Precautions

- This product is suitable for users aged 14 and over.
- Always operate the drone in open areas, away from people, animals, buildings, and obstacles.
- Do not fly the drone in strong winds or adverse weather conditions.
- Ensure all batteries are fully charged before each flight.
- Keep fingers and loose clothing away from rotating propellers.
- Never attempt to modify or disassemble the drone or its components.
- Follow all local regulations and laws regarding drone operation.
- In case of a crash, inspect the drone for damage before attempting another flight.

3. Package Contents

Verify that all items listed below are included in your package:



This image displays the complete package contents, including the foldable drone, remote control, two batteries, and a portable carrying case. Additional accessories like propeller guards, spare blades, a screwdriver, and a USB charging cable are also included.

Item	Quantity
Drone	1
Drone Battery	2
Remote Control	1
Main Blades A	1 set
Main Blades B	1 set

Item	Quantity
Protection Ring	4
User Manual	1
USB Charging Cable	1
Screwdriver	1

4. Product Overview

4.1 Drone Components



The Hiturbo drone features a sleek, foldable design for portability. It includes four propellers, a 1080P adjustable camera at the front, and bright LED lights for visibility. The drone's arms can be folded inward for compact storage.

4.2 Remote Control Layout



The remote control is ergonomically designed with dual joysticks for flight control. It includes dedicated buttons for one-key start/landing, headless mode, photo/video capture, speed adjustment, and emergency stop. A phone clamp is integrated at the top to hold your smartphone for FPV viewing and app control.

5. Setup

5.1 Charging Batteries

1. Connect the drone battery to the USB charging cable.
2. Plug the USB cable into a USB power adapter (not included) or a computer USB port.
3. The charging indicator light will show the charging status. Ensure batteries are fully charged (approximately 90 minutes per battery) before first use.
4. The remote control uses standard AAA batteries (not included). Insert them according to the polarity markings.

5.2 Installing Batteries

1. **Drone Battery:** Carefully insert the charged drone battery into the battery compartment on the drone until it clicks into place.
2. **Remote Control Batteries:** Open the battery cover on the back of the remote control and insert the required AAA batteries, observing the correct polarity. Close the cover securely.

5.3 Attaching Propeller Guards

1. For added safety, attach the four propeller guards to the drone's arms. Align the guard with the designated slots and gently push until it snaps into place.

5.4 App Installation and Connection

1. Download the "Hiturbo FPV" app from your smartphone's app store.
2. Ensure your phone's Wi-Fi is enabled.
3. Power on the drone. The drone's Wi-Fi signal will become available.
4. On your smartphone, go to Wi-Fi settings and connect to the network named "Hiturbo_XXX".
5. Open the "Hiturbo FPV" app. Grant camera permissions when prompted to view the drone's camera feed.

6. Operating Instructions

6.1 Pairing and Calibration

1. Place the drone on a flat, level surface.
2. Turn on the drone. The indicator lights will flash.
3. Short press the power button on the remote control to turn it on. The remote and drone will automatically connect.
4. To calibrate the gyroscope (recommended before each flight and after a crash): Simultaneously push both joysticks on the remote control to the lower-left or lower-right 45° position until the drone's lights stop flashing. This process takes approximately 2 seconds and improves flight stability.

6.2 Basic Flight Controls



This image highlights key features for beginners: One Key Start/Landing, Headless Mode, and Altitude Hold, simplifying the flight experience.

1. **One Key Takeoff/Landing:** Press the one-touch takeoff button on the remote control to automatically lift off or land.
2. **Altitude Hold:** The drone will maintain its current altitude, making it easier to control direction.
3. **Directional Control:** Use the right joystick to move the drone forward, backward, left, or right. Use the left joystick to control altitude (up/down) and rotation (left/right).
4. **Speed Adjustment:** Press the speed switch key on the remote to cycle through different flight speeds (e.g., First gear, Second gear, Third gear).
5. **Fine-Tuning:** If the quadcopter drifts in one direction, use the trimming buttons on the remote control (forward/backward trimming, left/right trimming) to correct its flight path.

6.3 Advanced Flight Features

1. **3D Flips:** Press the 360° flip button on the remote control, then move the right joystick in the desired direction to

perform a flip.

2. **Headless Mode:** Short press the Headless Mode button. In this mode, the drone's orientation is relative to the pilot, regardless of the drone's front direction.
3. **Gesture Control:**



This visual demonstrates how to use hand gestures for taking photos and videos, adding an interactive element to drone operation.

   - To take a photo: Make a specific hand gesture (e.g., "V" sign) towards the drone's camera.
   - To start/stop video recording: Make another specific hand gesture (e.g., open palm) towards the drone's camera.

4. **Voice Control:**



This image illustrates the voice control feature, allowing users to command the drone with simple spoken instructions such as "Fly" or "Forward."

Ensure the remote control is disconnected from the drone and the drone is connected to the app individually to use voice control. Use commands like "Fly," "Land," "Forward," "Backward," "Left," "Right," "Photo," and "Record."

5. **Trajectory Flight:** Within the "Hiturbo FPV" app, you can draw a flight path on your screen, and the drone will follow it automatically.
6. **Auto Return:** Long press the Auto Return button on the remote control to make the drone fly back towards its takeoff point.

6.4 Camera Operation



This visual demonstrates the drone's 1080P camera and FPV (First Person View) transmission, showing the control range of 328 feet and transmission range of 164 feet.

1. **Taking Photos:** Short press the photo button on the remote control or use the gesture control feature.
2. **Recording Videos:** Long press the video button on the remote control or use the gesture control feature.
3. **Adjusting Camera Angle:** The camera can be manually adjusted to see what's in front of the drone or aimed down.
4. **Viewing Feed:** Connect your smartphone to the drone's Wi-Fi and open the "Hiturbo FPV" app to view the live camera feed.

7. Maintenance

7.1 Cleaning

1. Wipe the drone and remote control with a clean, dry cloth after each use.
2. Remove any debris from the propellers and motors.

7.2 Propeller Replacement

1. If a propeller is damaged, use the provided screwdriver to carefully remove the screw holding it in place.
2. Replace with a new propeller, ensuring you use the correct type (A or B) as indicated on the drone's arms and the propellers themselves.
3. Secure the new propeller with the screw.

7.3 Battery Care

1. Store batteries in a cool, dry place away from direct sunlight.
2. Do not overcharge or over-discharge batteries.
3. If not used for an extended period, charge the batteries to about 50% capacity before storing.

8. Troubleshooting

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired; low battery; out of range.	Ensure drone and remote are on and paired. Charge batteries. Fly within 328 ft control range.
Drone drifts during flight.	Not calibrated; strong wind.	Perform gyroscope calibration. Avoid flying in windy conditions. Use fine-tuning buttons.
No camera feed on app.	Not connected to drone Wi-Fi; app permissions not granted.	Connect to "Hiturbo_XXX" Wi-Fi. Allow camera permissions for the app in phone settings.
Short flight time.	Battery not fully charged; frequent flips/high speed.	Fully charge batteries (90 mins). Reduce aggressive maneuvers to extend flight time.
Voice control/trajectory flight not working.	Remote control connected to drone.	Disconnect remote control from drone. Connect drone with the app individually for these functions.

9. Specifications

Feature	Detail
Brand	Hiturbo
Model Number	GM-100A
Model Name	S20
Color	Grey & Blue
Material	Plastic
Product Dimensions (Folded)	5.5"L x 3.3"W x 2"H
Item Weight	146 Grams (5.1 ounces)

Feature	Detail
Camera Resolution	1080p (Video Capture: 1920x1080 Pixels, Still: 1080 Pixels)
Video Capture Format	MP4
Supported Image Format	JPEG
Connectivity Technology	Wi-Fi
Control Type	Remote Control, Voice Control
Maximum Control Range	328 feet (approx. 0.1 km)
Maximum FPV Transmission Range	164 feet (approx. 0.05 km)
Batteries	2 x Lithium Polymer (included)
Flight Time per Battery	Approx. 12 minutes
Skill Level	Beginner
Special Features	360 Degree Flip, Altitude Hold, Headless Mode, One Key Start/Landing, Gesture Selfie, Voice Control, Trajectory Flight

10. Warranty and Support

Hiturbo is committed to providing excellent customer service. This product comes with quality warranty services. Our customer support team is available 24 hours a day to provide technical assistance and address any inquiries you may have. Please do not hesitate to contact us if you encounter any issues or have questions regarding your drone.

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