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TOPRCBOXS H24-01

TOPRCBOXS H24 Drone User Manual

Model: H24-01

1. INTRODUCTION

Thank you for choosing the TOPRCBOXS H24 Drone. This foldable quadcopter is equipped with a 1080P HD camera, WiFi FPV transmission, and offers a flight time of 26-30 minutes, making it suitable for both adults and children, especially beginners. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting to ensure an optimal user experience.



Image 1.1: The TOPRCBOXS H24 Drone with its remote controller and two rechargeable batteries.

2. SAFETY GUIDELINES

Always prioritize safety when operating the drone. Failure to follow these guidelines may result in injury, damage to property, or legal issues.

- **Read the Manual:** Fully understand all instructions before first flight.
- **Environmental Awareness:** Fly in open areas, away from people, animals, buildings, and obstacles. Avoid flying near airports or restricted airspace.
- **Weather Conditions:** Do not fly in strong winds, rain, snow, or fog.
- **Battery Safety:** Use only original batteries and chargers. Do not overcharge or puncture batteries. Discontinue use if batteries are damaged or swollen.
- **Propeller Safety:** Keep hands, face, and loose clothing away from rotating propellers.
- **Visual Line of Sight:** Always maintain visual line of sight with the drone during flight.
- **Age Recommendation:** This product is recommended for users aged 14 and above.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- H24 Drone (x1)
- Remote Controller (x1)
- Rechargeable Drone Batteries (x2)
- USB Charging Cable (x2)
- Spare Propellers (x4)
- Screwdriver (x1)
- User Manual (x1)



Image 3.1: All components included in the TOPRCBOXS H24 Drone package.

4. SETUP

4.1 Charging Batteries

Before first use, fully charge both drone batteries. Connect the USB charging cable to the battery and a 5V/2A USB power adapter (not included). The charging indicator will show charging status and turn off when fully charged. Charging time is approximately 90-120 minutes per battery.

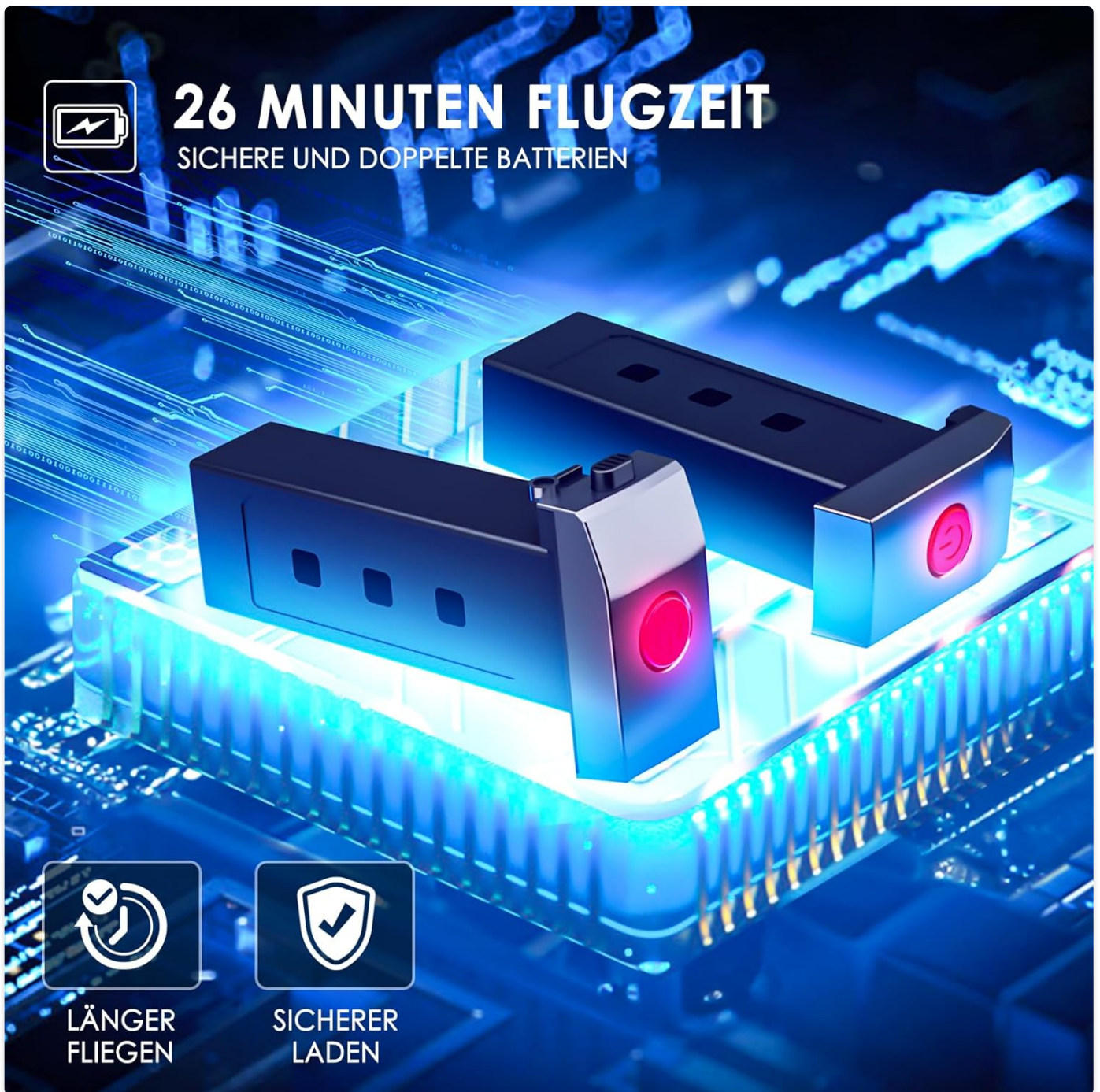


Image 4.1: The drone's dual batteries provide extended flight time and feature safe charging mechanisms.

4.2 Installing Batteries

- **Drone Battery:** Insert the charged battery into the battery compartment on the drone's rear until it clicks into place.
- **Remote Controller Battery:** Open the battery cover on the back of the remote controller and insert 3 x AAA batteries (not included), ensuring correct polarity. Close the cover.

4.3 Unfolding the Drone

Gently unfold the drone's arms until they are fully extended and locked into position. Ensure all four arms are securely unfolded before flight.



TRAGBARES DESIGN



Image 4.2: The H24 Drone features a portable, foldable design for easy transport. Unfolded dimensions: 29x22x5.5cm; Folded dimensions: 13x8.6x5.5cm.

4.4 App Installation (Optional for FPV)

For FPV (First Person View) and advanced features, download the dedicated drone app from your smartphone's app store. Search for "H24 Drone" or scan the QR code provided in the quick start guide (if applicable). Connect your phone to the drone's Wi-Fi network (usually named "H24-XXXXXX") after powering on the drone.

5. OPERATING INSTRUCTIONS

5.1 Pairing the Drone and Remote

1. Place the drone on a flat, level surface.
2. Turn on the drone. The indicator lights will flash.
3. Turn on the remote controller.

4. Push the left joystick (throttle) all the way up, then all the way down. The drone lights will stop flashing and remain solid, indicating successful pairing.

5.2 Gyro Calibration

After pairing, push both joysticks down and to the right simultaneously for 2-3 seconds. The drone lights will flash rapidly and then turn solid, indicating successful calibration. This ensures stable flight.

5.3 Take-off and Landing

- **One-Key Take-off:** Press the One-Key Take-off button (often marked with an arrow pointing up) on the remote. The drone will automatically ascend to a stable hovering height.
- **Manual Take-off:** Slowly push the left joystick (throttle) up to make the drone ascend.
- **One-Key Landing:** Press the One-Key Landing button (often marked with an arrow pointing down) on the remote. The drone will automatically descend and land gently.
- **Manual Landing:** Slowly pull the left joystick (throttle) down to make the drone descend until it lands.



Image 5.1: The One-Key Start feature allows for easy automatic take-off.

5.4 Basic Flight Controls

- **Left Joystick (Throttle/Yaw):** Up/Down for altitude, Left/Right for rotation (yaw).
- **Right Joystick (Pitch/Roll):** Up/Down for forward/backward movement (pitch), Left/Right for left/right sideward movement (roll).

5.5 Advanced Features

The H24 Drone includes several intelligent flight modes for enhanced control and fun:

- **Altitude Hold:** Maintains a stable altitude, making it easier to control the drone for beginners and for taking clear photos/videos.



Image 5.2: The Altitude Hold feature keeps the drone at a consistent height.

- **Headless Mode:** Eliminates the need to adjust the drone's position before flight. The drone's front will always be the direction the pilot is facing, regardless of its actual orientation.



Image 5.3: Headless Mode simplifies flight by removing the need to orient the drone.

- **3 Speed Modes:** Adjust the drone's speed to suit your skill level or flying environment (low, medium, high).



Image 5.4: The drone offers three distinct speed modes for varied flying experiences.

- **3D Flips:** Perform impressive aerial stunts with a single button press. Ensure sufficient altitude before attempting flips.



Image 5.5: Execute exciting 3D flips with ease.

- **Trajectory Flight (App Control):** Draw a flight path on your smartphone screen, and the drone will automatically follow the designated route.

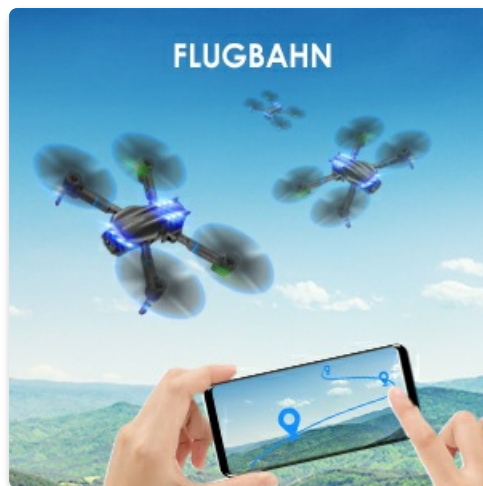


Image 5.6: Plan your drone's flight path using the Trajectory Flight feature in the app.

- **Gravity Sensor Mode (App Control):** Control the drone's movement by tilting your smartphone.
- **Voice Control (App Control):** Command the drone using simple voice commands (e.g., "Forward," "Fly").
- **Gesture Selfies (App Control):** Take photos or videos with specific hand gestures detected by the drone's camera.



LEISTUNGSSTARKE FUNKTIONEN

STÄRKERER ANTRIEBSMOTOR, MACHT DEN FLUG KRAFTVOLLER



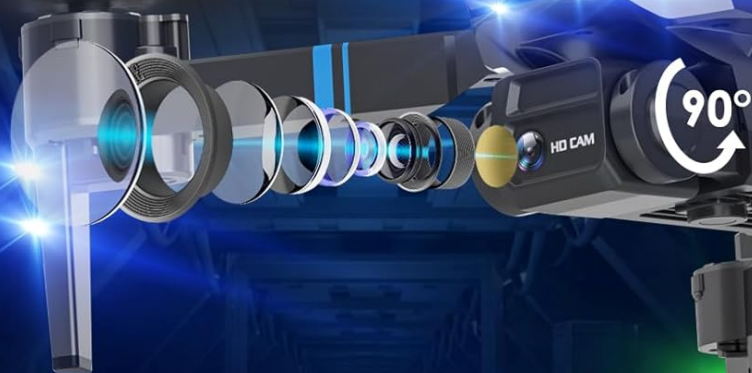
Image 5.7: The drone offers powerful functions including Voice Control, Trajectory Flight, and Gravity Sensor Mode.

5.6 Camera Operation and FPV

The H24 Drone is equipped with a 1080P HD camera that can be adjusted 90 degrees remotely, allowing for versatile aerial photography and videography. Connect to the drone's Wi-Fi via the app to view real-time FPV footage on your smartphone.



HERVORRAGEND 1080P KAMERA



1080P
HD KAMERA

90°
ABGELEGEN VERSTELLBAR

**STABILER SCHWEBEFLUG
EINFACH ZU
FOTOGRAFIEREN**



Image 5.8: The drone features an excellent 1080P HD camera with a 90-degree remotely adjustable lens for stable aerial photography.



OPTISCHE FLUSS POSITIONIERUNG

STABILER SCHWEBEFLUG FÜR EINFACHE AUFNAHMEN



MIT



OHNE



Image 5.9: Optical Flow Positioning ensures stable hovering for easy and clear photo/video capture.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote controller. Do not use water or chemical cleaners.
- **Propeller Replacement:** If propellers are damaged, replace them with spare parts provided. Ensure correct propeller (A or B) is installed on the corresponding motor.
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully charged or completely depleted batteries for extended periods. Charge them to about 50% for long-term storage.
- **Storage:** When not in use, fold the drone and store it in a safe place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired; low battery.	Re-pair drone and remote; charge drone battery; replace remote batteries.
Drone drifts during flight.	Gyro not calibrated; trim settings incorrect.	Perform gyro calibration; adjust trim buttons on remote.
Propellers do not spin.	Drone not armed; obstacle blocking propellers.	Ensure drone is paired and calibrated; check for obstructions.
FPV feed is laggy or disconnected.	Weak Wi-Fi signal; too far from drone.	Ensure strong Wi-Fi connection; fly closer to the drone; reduce interference.
Short flight time.	Battery not fully charged; old battery.	Fully charge battery; consider replacing old batteries.

8. SPECIFICATIONS

Feature	Detail
Brand	TOPRCBOXS
Model Number	H24-01
Dimensions (Unfolded)	29 x 22 x 6 cm
Dimensions (Folded)	13 x 8.6 x 5.5 cm
Item Weight	200 Grams
Camera	1080P HD, 90° Remotely Adjustable
Flight Time	26-30 minutes (per battery, with 2 batteries included)
Transmission	WiFi FPV
Control Distance	Not specified, typically 50-100m for WiFi FPV drones
Batteries Included	Yes (2 drone batteries, remote requires 3xAAA not included)
Remote Control Included	Yes

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided on the product packaging or the official TOPRCBOXS website. Keep your purchase receipt as proof of purchase for any warranty claims.

