

Ameta S20 Lite / Morpho (ASIN: B0DTPHD5Q4)

Ameta S20 Lite & Morpho Drones User Manual

Model: S20 Lite / Morpho (ASIN: B0DTPHD5Q4)

1. PRODUCT OVERVIEW

The Ameta S20 Lite and Morpho Drones are advanced yet user-friendly aerial vehicles designed for both adults and kids. The S20 Lite offers 4K UHD camera capabilities for stunning aerial photography, while the Morpho drone features a 1080P HD FPV camera and cool LED lights, making it ideal for beginners and recreational flying. Both models are equipped with features like optical flow positioning, one-key take-off/landing, altitude hold, and headless mode to ensure a stable and enjoyable flight experience.



An overview of both drone models: the sleek grey Ameta S20 Lite and the colorful, light-up Ameta Morpho.

2. SAFETY INFORMATION

Always prioritize safety when operating your drone. Failure to follow these guidelines may result in injury or damage.

- **Read the Manual:** Fully understand all instructions before first flight.
- **Check Local Regulations:** Be aware of and comply with all local drone flying laws and restrictions.
- **Maintain Visual Line of Sight:** Always keep the drone within your sight.
- **Avoid Obstacles:** Do not fly near people, animals, buildings, or trees.
- **Weather Conditions:** Do not fly in strong winds, rain, or other adverse weather.
- **Battery Safety:** Use only original batteries and chargers. Do not overcharge or puncture batteries.
- **Propeller Safety:** Keep hands and face clear of rotating propellers.
- **Age Recommendation:** The Morpho drone is suitable for kids, but adult supervision is recommended. The S20 Lite is designed for adults.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Ameta S20 Lite Drone (if applicable)
- Ameta Morpho Drone (if applicable)
- Remote Controller
- Rechargeable Flight Batteries (x2)
- USB Charging Cable
- Spare Propellers
- Screwdriver (for propeller installation)
- User Manual
- Carrying Case (for Morpho model)



The Ameta S20 Lite drone, its remote controller with phone holder, two flight batteries, and spare propellers.



The Ameta Morpho drone, its remote controller with phone holder, two flight batteries, spare propellers, and a carrying case.

4. SETUP GUIDE

4.1 Charging Batteries

Fully charge both the drone flight batteries and the remote controller battery before first use. Use the provided USB charging cable.

- Connect the charging cable to the battery and a USB power source (e.g., computer USB port, USB wall adapter).
- Charging indicator lights will show charging status (refer to battery specific indicators).
- Charging typically takes 60-90 minutes per battery.

Dual Battery Extend Flight Time

36 =
18*2
Mins



Two rechargeable drone batteries, illustrating how they provide an extended total flight time of 36 minutes (18 minutes per battery).

4.2 Installing Propellers

Ensure propellers are installed correctly on the corresponding motor shafts. Each propeller is marked (A or B) and must match the motor's marking.

1. Identify the 'A' and 'B' markings on the propellers and drone motor arms.
2. Attach the 'A' propellers to the 'A' motor shafts and 'B' propellers to the 'B' motor shafts.
3. Secure them with the provided screws using the screwdriver.

4.3 Remote Controller Setup

- Install 3x AAA batteries (not included) into the remote controller's battery compartment.
- Extend the phone holder on the controller and securely place your smartphone.

4.4 App Installation & Connection

Download the official Ameta drone app from your smartphone's app store (iOS/Android).

1. Power on the drone and the remote controller.
2. On your smartphone, connect to the drone's Wi-Fi network (usually named 'Ameta_XXXXXX').
3. Open the Ameta app. The app should automatically connect to the drone, displaying the FPV feed.

4.5 Calibration

Perform a compass and gyroscope calibration before each flight, especially in a new environment.

- Follow the on-screen instructions in the app or refer to the quick start guide for specific calibration gestures.
- Ensure the drone is on a flat, level surface during calibration.

5. OPERATING INSTRUCTIONS

5.1 Basic Flight Controls

- **One-Key Take-off/Landing:** Press the dedicated button on the controller or in the app to automatically take off or land.
- **Altitude Hold:** The drone will automatically maintain its current altitude, allowing for stable hovering.
- **Headless Mode:** In headless mode, the drone's orientation is relative to the pilot, simplifying controls regardless of the drone's front direction.
- **Speed Modes:** Switch between different speed modes (low, medium, high) to suit your skill level and environment.

5.2 Camera Operation

Both S20 Lite (4K UHD) and Morpho (1080P HD) drones allow for capturing photos and videos.

4K UHD Camera with 90° Remotely Adjustable

Capture Life from Above with UHD Technology



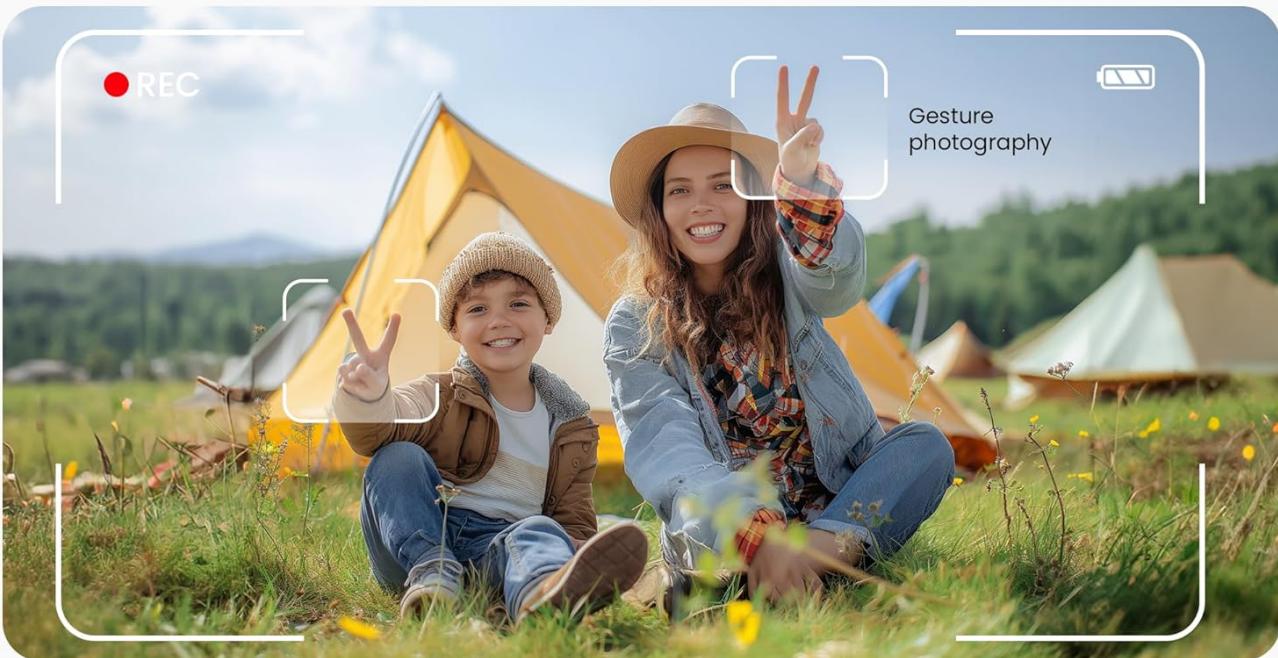
A close-up view of the Ameta S20 Lite's 4K UHD camera, featuring 90-degree remote adjustability for versatile aerial photography.

Capture Family Time

1080P FHD FPV Camera & Real-time Transmission



1080P
Camera FHD



A detailed view of the Ameta Morpho drone's 1080P FHD FPV camera, designed for real-time video transmission and capturing family moments.

- Photo/Video Button:** Use the dedicated buttons on the remote controller or in the app to take photos or start/stop video recording.
- FPV (First Person View):** The 5G FPV transmission provides a smooth, real-time video feed to your smartphone, immersing you in the flight experience.
- Gesture Photography:** Certain gestures can trigger photo or video capture (refer to app instructions for specific gestures).

5.3 Special Features (Morpho Drone)

- LED Lighting Modes:** The Morpho drone features 32 built-in RGB lights with 6 different lighting modes. Press the light button on the controller to cycle through modes.



Support One-click Switching of Lighting Modes

Built in 32 RGB Lights with 6 Lighting Modes



The Ameta Morpho drone showcasing its built-in 32 RGB lights with various lighting modes, switchable with one click.

- **Programming Flight Ways:** Use the intuitive programming interface in the app to customize flight paths and sequences. This feature is excellent for learning basic coding concepts.

Customize Flight Ways with Programming



A screenshot of the mobile application interface demonstrating how users can customize flight paths using a visual programming (Scratch-like) method for the Ameta Morpho drone.

5.4 Find My Drone Function

In case of accidental loss, the built-in buzzer and 'Find My Drone' function in the app can help you locate your drone quickly.

Enjoy an 18-minute Flight

Two Batteries Included



Two children enjoying flying their Ameta drones, illustrating the extended 18-minute flight time provided by two included batteries (9 minutes per battery).

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your drone.

- Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens after each flight. Avoid using harsh chemicals.
- Propeller Replacement:** Inspect propellers regularly for damage (cracks, bends). Replace any damaged propellers immediately using the spare parts provided.
- Battery Care:** Store batteries in a cool, dry place. Do not fully discharge batteries before storing for extended periods. Charge them to about 50-60% for long-term storage.
- Storage:** When not in use, store the drone and its components in a safe, dry place, preferably in its original packaging or a dedicated carrying case.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Drone does not power on	Low battery; Battery not inserted correctly	Charge battery; Reinsert battery firmly
Drone cannot connect to controller/app	Incorrect pairing; Wi-Fi issue; Interference	Ensure drone and controller are on; Re-pair according to manual; Check Wi-Fi connection; Move to an open area
Drone drifts during flight	Not calibrated; Uneven propellers; Wind	Perform calibration; Check/replace propellers; Fly in calm conditions
Poor camera feed/lag	Weak Wi-Fi signal; Interference; Distance	Ensure strong Wi-Fi connection; Reduce distance between drone and phone; Avoid areas with high signal interference
Short flight time	Battery not fully charged; Old battery; Aggressive flying	Fully charge batteries; Consider replacing old batteries; Fly more conservatively

8. SPECIFICATIONS

- Brand:** Ameta
- Model:** S20 Lite / Morpho
- ASIN:** B0DTPHD5Q4
- Camera (S20 Lite):** 4K UHD, 90° Remotely Adjustable
- Camera (Morpho):** 1080P HD FPV
- FPV Transmission:** 5G Wi-Fi
- Flight Time:** Up to 18 minutes per battery (36 minutes total with 2 batteries)
- Control Distance:** Varies by environment (refer to app for real-time signal strength)
- Special Features:** Optical Flow Positioning, One-Key Take-off/Landing, Altitude Hold, Headless Mode, Speed Modes, Find My Drone, LED Lights (Morpho), Programming Flight (Morpho)
- First Available:** January 22, 2025

9. WARRANTY AND SUPPORT

Ameta products are designed for quality and reliability. For warranty information, product support, or to purchase replacement parts, please visit the official Ameta store on Amazon or contact Ameta customer service directly through the contact information provided with your purchase documentation.

You can visit the Ameta Store at <https://www.amazon.com/stores/Ameta/page/EDE04FD1-3F01-4FA4-8864-6934DB7B46D8>

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