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Ameta DR-ATM10B

Ameta Morpho Drone User Manual

Model: DR-ATM10B | Brand: Ameta

1. INTRODUCTION

The Ameta Morpho Drone (Model DR-ATM10B) is a compact and user-friendly quadcopter designed for beginners and young pilots. It features a 1080P HD camera for capturing aerial photos and videos, real-time First Person View (FPV) transmission, and 32 vibrant RGB lights with multiple effects. Built with durability in mind, it includes propeller guards and a loss prevention buzzer for enhanced safety and ease of use. This manual provides comprehensive instructions for safe operation, setup, and maintenance of your Ameta Morpho Drone.



Image 1.1: Ameta Morpho Drone with its main accessories.

2. SAFETY GUIDELINES

- Always operate the drone in open, clear areas, away from people, animals, and obstacles.
- Ensure the drone is fully charged before each flight.
- Do not fly the drone in strong winds or adverse weather conditions.
- Keep fingers and hair away from rotating propellers.
- Adult supervision is recommended for users under 14 years of age.
- Avoid flying near airports, restricted airspace, or private property.
- If the drone flies out of range, use the built-in buzzer to locate it.

3. PACKAGE CONTENTS

Verify that all components are present in your package:

- Ameta Morpho Drone
- Remote Controller
- Modular Batteries (x2)
- Spare Propellers
- USB Charging Cable
- Propeller Removal Tool
- User Manual

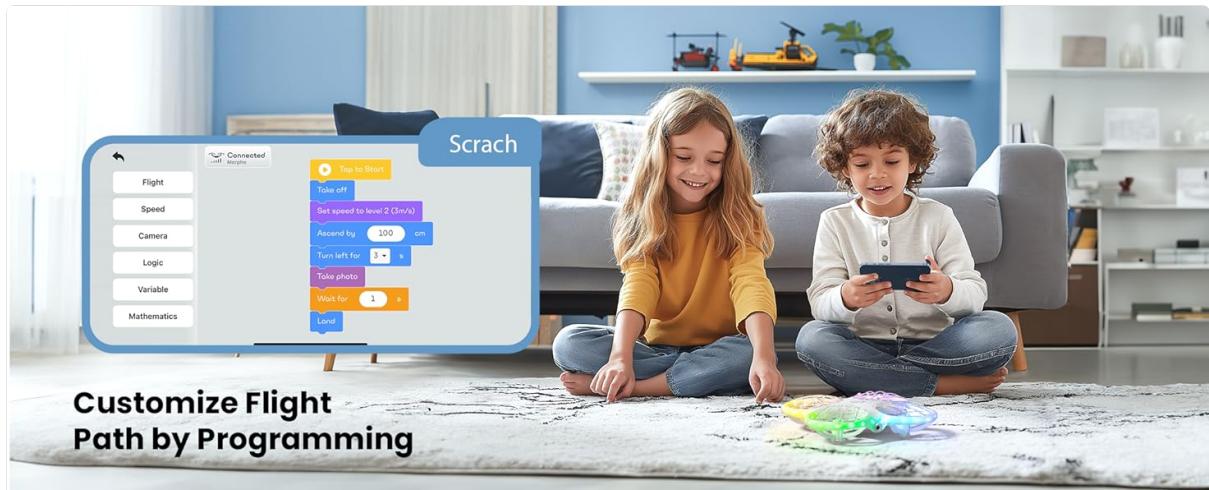


Image 3.1: Complete package contents of the Ameta Morpho Drone.

4. SETUP

4.1. Battery Installation and Charging

1. Insert the modular batteries into the drone's battery compartment until they click securely into place.
2. Use the provided USB charging cable to charge the batteries. The indicator light on the cable will show charging status (e.g., red for charging, green for fully charged).
3. For the remote controller, install 3 AAA batteries (not included) into its battery compartment.

4.2. Drone and Controller Pairing

1. Place the drone on a flat, horizontal surface.
2. Press and hold the power button on the drone until its indicator lights begin to flash.
3. Turn on the remote controller. The controller will automatically pair with the drone. A solid light on both the drone and controller indicates successful pairing.

5. OPERATING INSTRUCTIONS

5.1. Basic Flight Controls

- **One-Click Takeoff/Landing:** Press the dedicated button on the controller for automatic takeoff or

landing.

- **Altitude Hold:** The drone maintains a stable altitude, allowing for easier control and smoother footage.
- **Headless Mode:** In this mode, the drone's orientation is relative to the pilot, simplifying flight control regardless of the drone's front direction.
- **Speed Adjustment:** The drone offers multiple speed settings (e.g., low, medium, high) to suit different skill levels and environments.

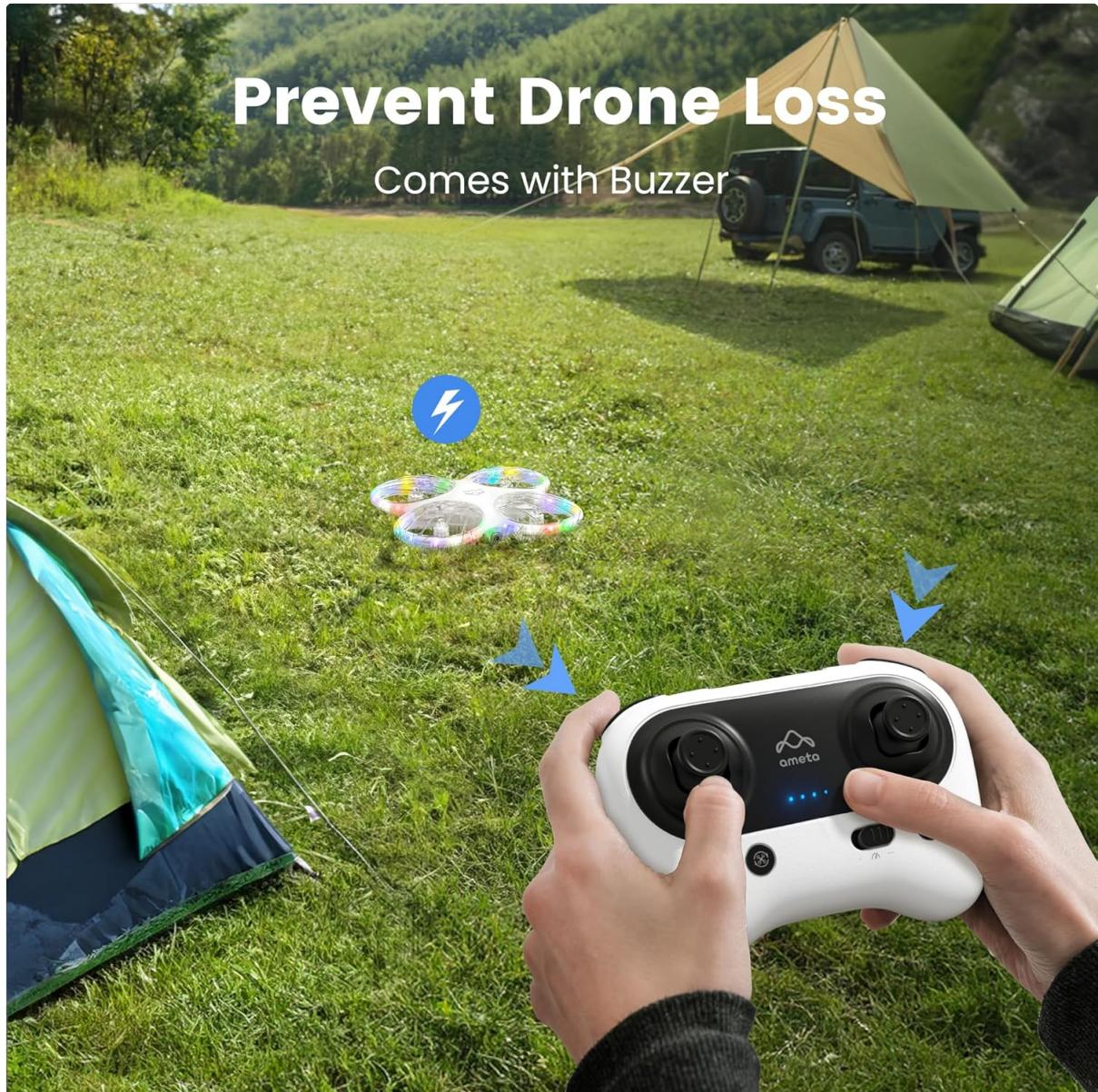


Image 5.1: Beginner-friendly features like one-key takeoff, altitude hold, and headless mode.

5.2. Advanced Flight Features

- **3D Flips:** Execute impressive 360-degree flips with a press of a button and a joystick movement.
- **Circle Fly:** The drone can perform circular flight patterns, adding dynamic movement to your aerial displays.

Optical Flow Positioning

Experience Stability Control and Smooth Videos



※ Textured ground and brightness help improve optical flow stabilization effect!

Image 5.2: The drone executing 3D flips and circular flight patterns.

5.3. Optical Flow Positioning

The drone utilizes optical flow positioning for enhanced stability, especially during indoor flights. This technology helps the drone maintain its position accurately, contributing to smoother control and clearer video capture.

Enjoy an 18-minute Flight

Two Batteries Included

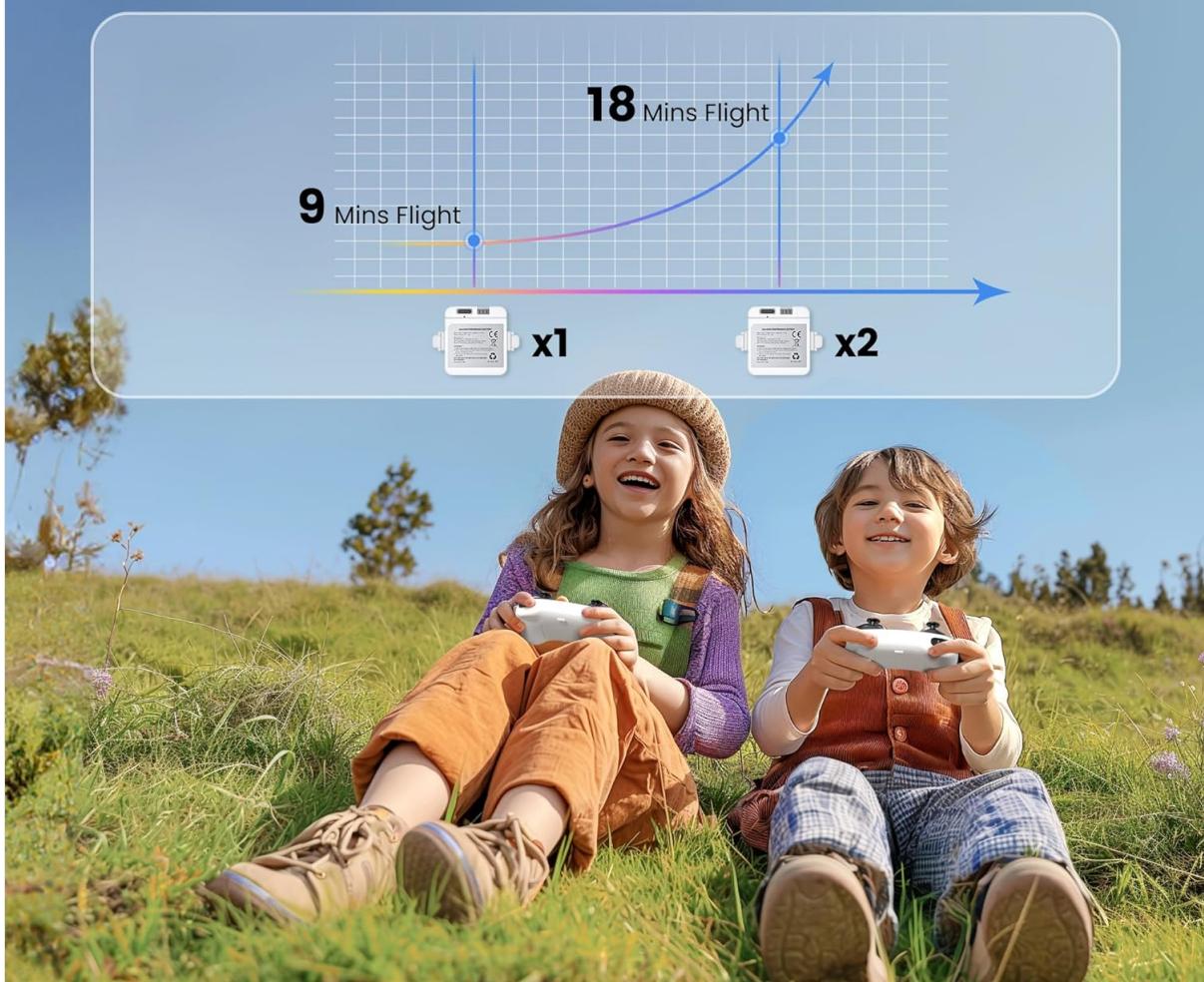


Image 5.3: Optical flow positioning ensures stable hovering.

5.4. Loss Prevention Buzzer

Should the drone fly out of sight or range, a built-in buzzer can be activated via the controller to help locate it, minimizing the risk of loss.

Ideal Gift for Friends & Family



Image 5.4: The remote controller features a button to activate the drone's loss prevention buzzer.

6. CAMERA OPERATION

The Ameta Morpho Drone is equipped with an 80° 1080P HD camera, allowing you to capture clear photos and videos from an aerial perspective. Utilize the companion app for real-time FPV (First Person View) transmission directly to your smartphone, enabling you to see what the drone sees as it flies.

- **Photo Capture:** Use the app or a designated button on the controller to take still images.
- **Video Recording:** Start and stop video recording via the app or controller.
- **FPV Transmission:** Connect your smartphone to the drone's Wi-Fi network to view live footage.



Support One-click Switching of Lighting Modes

Built in 32 RGB Lights with 6 Lighting Modes



Image 6.1: The drone's 1080P HD camera for capturing high-definition media.

7. STEM LEARNING MODULE

The Ameta companion app integrates a simple STEM (Science, Technology, Engineering, and Mathematics) module. This feature allows users, particularly children, to engage in basic coding by combining flying modules, offering an educational approach to understanding drone technology and programming principles.

Capture Family Time

1080P FHD FPV Camera & Real-time Transmission



1080P
Camera FHD



Image 7.1: The Ameta app's STEM module for programming flight paths.

8. RGB LIGHTS

The drone features 32 RGB lights with 6 dazzling effects, creating a visually engaging experience during flight. These lights enhance visibility and add an element of fun, especially when flying in low-light conditions.

Doing Tricks

3D Flips Circle Fly

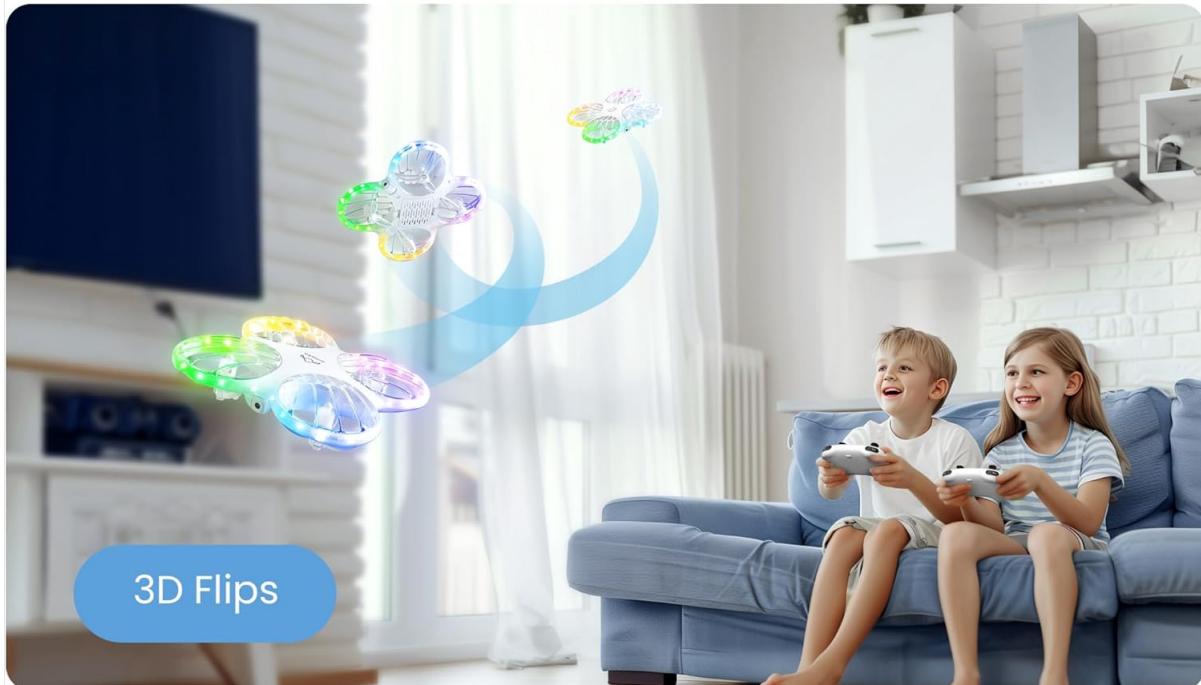
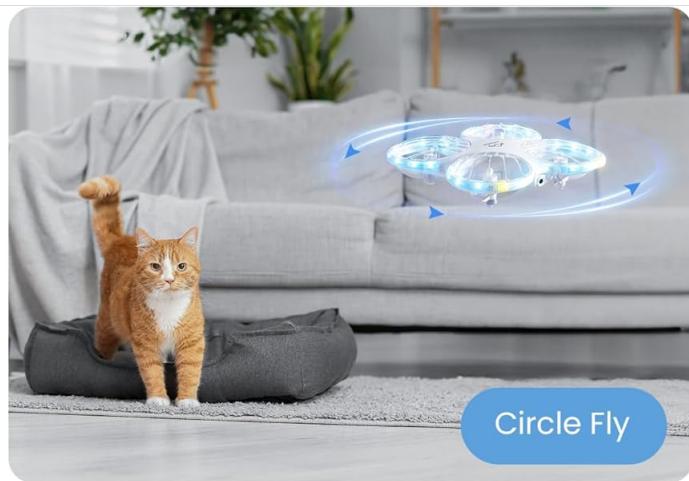


Image 8.1: The drone showcasing its multiple RGB lighting modes.

9. MAINTENANCE

9.1. Propeller Replacement

In case of damage, replace propellers using the provided tool and spare parts. Ensure correct orientation (A and B markings) for optimal flight performance.

9.2. Battery Care

To prolong battery life, avoid overcharging or fully discharging the batteries. Store them in a cool, dry place when not in use.

9.3. Cleaning

Gently wipe the drone with a soft, dry cloth to remove dust and debris. Avoid using liquids or harsh chemicals.

10. TROUBLESHOOTING

- Drone Drifts:** Calibrate the gyroscope as per the instructions in the app or manual. Check for damaged propellers.
- No Power:** Ensure batteries are fully charged and correctly installed in both the drone and controller.
- Loss of Connection:** Re-pair the drone and controller. Ensure no strong interference sources are nearby.
- Buzzer Not Working:** Check battery levels. Ensure the drone is within operational range for the buzzer to function effectively.

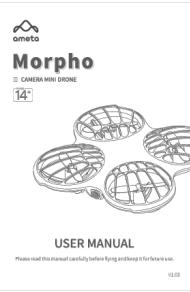
11. SPECIFICATIONS

Feature	Detail
Brand	Ameta
Model Name	Morpho
Item Model Number	DR-ATM10B
Product Dimensions	13.8 x 13.4 x 3.4 cm
Item Weight	72 g
Batteries	2 Lithium Ion batteries (included)
Camera	1080P HD, 80° FOV
Special Features	Speed Adjustment, FPV, 32 RGB Lights, Optical Flow Positioning, Loss Buzzer, STEM Learning Module
Flight Time	Up to 18 minutes (with 2 batteries)
Age Range (Description)	14 years and above (with parental supervision for younger users)
Country of Origin	China

12. WARRANTY AND SUPPORT

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

Related Documents - DR-ATM10B

 <p>S50 Lite Beginner GPS Drone 14"  USER MANUAL Please read this manual carefully before flying and keep it for future use. Model No: DR-ATS50G</p>	<p>Ametra S50 Lite Beginner GPS Drone User Manual Comprehensive user manual for the Ameta S50 Lite Beginner GPS Drone (Model DR-ATS50G), covering setup, flight controls, features, safety guidelines, and technical specifications.</p>
 <p>Morpho CAMERA MINI DRONE 14"  USER MANUAL Please read this manual carefully before flying and keep it for future use. Model No: DR-ATM10B</p>	<p>Ametra Morpho Drone User Manual - Operation and Safety Guide Comprehensive user manual for the Ameta Morpho drone, covering safety precautions, product overview, specifications, flight operations, maintenance, and troubleshooting. Learn how to operate your Ameta Morpho drone safely and effectively.</p>
 <p>S20 Lite Beginner Drone 14"  USER MANUAL Please read this manual carefully before flying and keep it for future use. Model No: DR-ATM10B</p>	<p>Ametra S20 Lite Beginner Drone User Manual This user manual provides comprehensive instructions for operating the Ameta S20 Lite Beginner Drone. It covers essential safety guidelines, setup procedures, flight controls, camera functions, specifications, and regulatory compliance information.</p>
 <p>S20 Lite Beginner Drone 14"  USER MANUAL Please read this manual carefully before flying and keep it for future use. Model No: DR-ATM10B</p>	<p>Ametra S20 Lite Beginner Drone User Manual Comprehensive user manual for the Ameta S20 Lite beginner drone, covering setup, flight controls, safety guidelines, and specifications. Learn how to operate your drone safely and effectively.</p>



[Ameta S50 Lite Beginner GPS Drone User Manual](#)

Comprehensive user manual for the Ameta S50 Lite Beginner GPS Drone (Model No. DR-ATS50G), covering safety guidelines, product overview, setup, flight controls, camera functions, technical specifications, and regulatory information.



[Ameta S20 Pro Beginner GPS Drone User Manual](#)

Comprehensive user manual for the Ameta S20 Pro Beginner GPS Drone (Model: DR-ATS21G), covering safety guidelines, product features, setup, flight operations, and specifications.