VIOFO MT1

VIOFO MT1 Motorcycle Dash Cam User Manual

Model: MT1

1. Introduction and Overview

The VIOFO MT1 Motorcycle Dash Cam is a high-performance, dual-channel recording system designed specifically for motorcycles. It captures clear 1080P video from both front and rear perspectives with a wide 170-degree angle, ensuring comprehensive coverage of your rides. Equipped with advanced features like built-in WiFi, GPS logging, G-Sensor for emergency recording, and automatic power management, the MT1 provides reliable and convenient video evidence and ride data.

This manual provides detailed instructions on the installation, operation, and maintenance of your VIOFO MT1 dash cam, helping you maximize its functionality and ensure optimal performance.



Figure 1.1: VIOFO MT1 Motorcycle Dash Cam and included accessories.

2. What's in the Box

Upon unboxing your VIOFO MT1 Motorcycle Dash Cam, please verify that all the following components are included:

- Main Unit
- Front Camera
- Rear Camera
- Remote Control
- GPS Module
- Metal Mount
- Plastic Mount
- Power Cable (with ACC detection)
- Card Reader Adapter
- 3M Stickers

- Dual Lock Velcro
- VIOFO 32GB microSD Card



Figure 2.1: Detailed packing list of the VIOFO MT1 Motorcycle Dash Cam.

3. Key Features

- **Dual Channel 1080P Recording with 170° Wide Angle:** Captures crystal-clear 1080P video at 30 frames per second from both front and rear cameras. The 170-degree super wide-angle lens minimizes blind spots, ensuring comprehensive road coverage.



Figure 3.1: Dual 170-degree wide-angle coverage for front and rear recording.

- **Sony STARVIS Sensor for Enhanced Night Vision:**Equipped with Sony STARVIS sensors, the MT1 delivers bright and clear images with rich detail, even in low-light conditions, providing superior night vision compared to standard sensors.



Figure 3.2: Improved night vision with Sony STARVIS Image Sensor.

- **IP66 Water & Dust Resistant:** Designed with effective IP66 class protection, the MT1 dash cam and its lenses are resistant to water and dust, ensuring reliable performance in various weather conditions, including heavy rain.

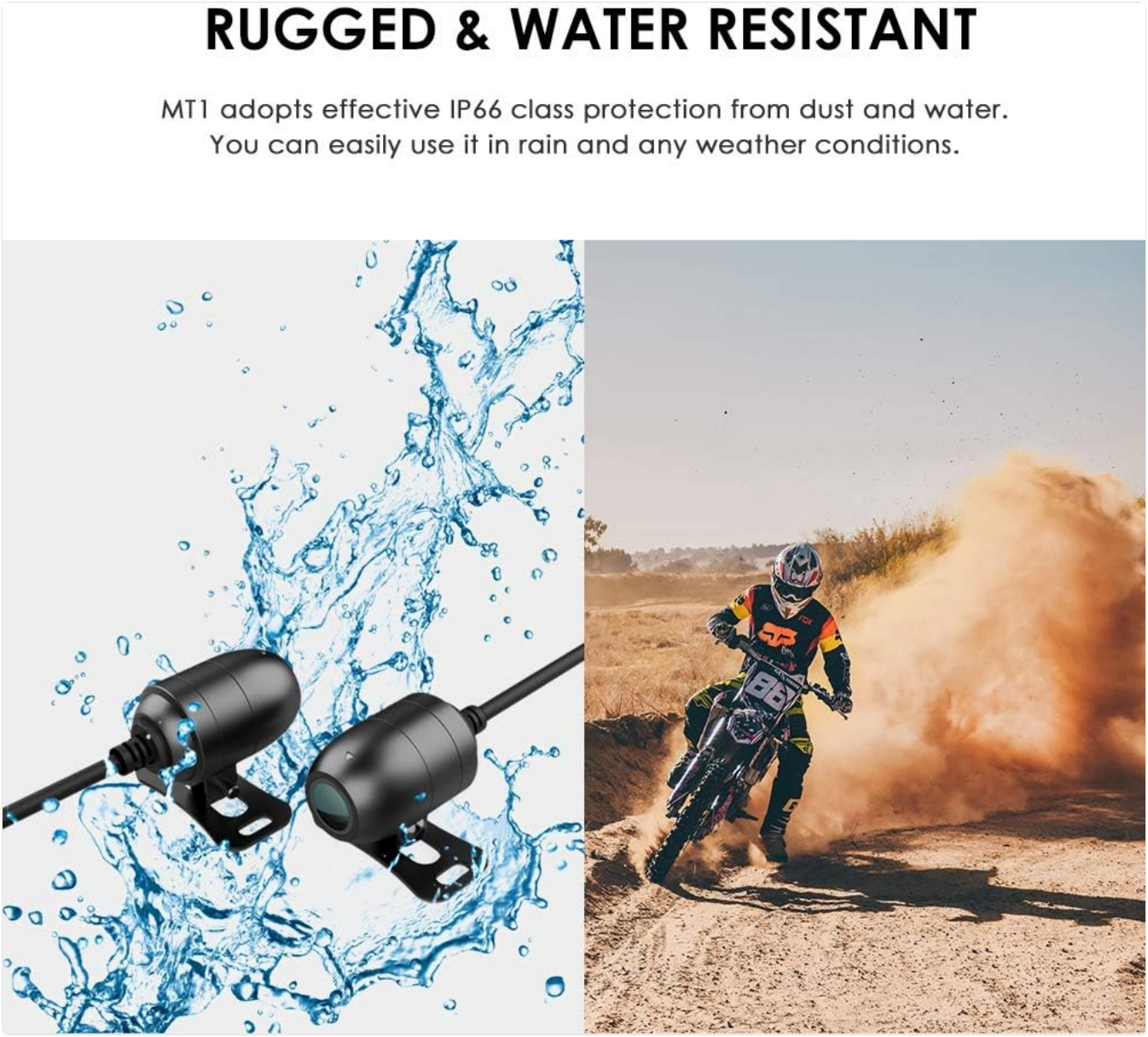


Figure 3.3: Rugged and water-resistant design for all-weather use.

- **Built-in Wi-Fi & GPS:** Connect to the VIOFO APP via Wi-Fi to easily view real-time video, check GPS routes, download videos, and adjust settings directly from your smartphone. The GPS function logs current speed and location, and automatically corrects time by synchronizing with satellites.



Figure 3.4: Wi-Fi connectivity for app control and data access.

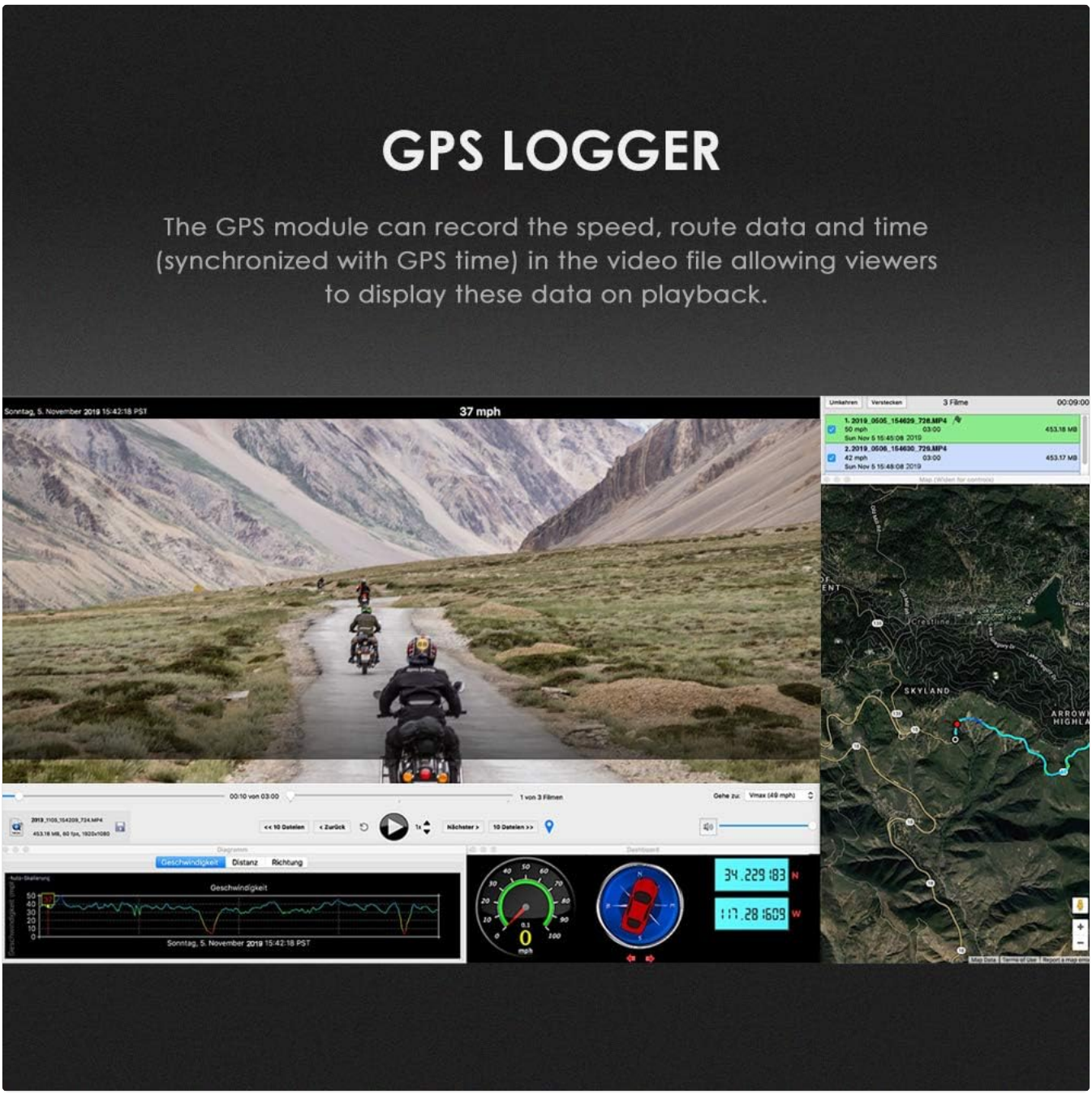


Figure 3.5: GPS module for logging speed, route, and time data.

- **Remote Control & Auto Turn On/Off:** The included remote control allows for manual emergency recording and Wi-Fi connection control. It also features a built-in microphone for audio recording. The MT1's power cable includes an ACC detection function, enabling the dash cam to automatically start recording when the engine is on and stop when the engine is off.



Figure 3.6: Remote control for convenient operation.



Figure 3.7: Automatic power on/off with engine status.

- **Additional Features:** Clear night vision, special stealth design, emergency recording (G-sensor), loop recording, super capacitor for enhanced durability, WDR (Wide Dynamic Range), and support for up to 256GB memory cards.

4. Setup and Installation

Proper installation is crucial for the optimal performance and longevity of your VIOFO MT1 dash cam. It is recommended to have the installation performed by a qualified technician if you are not comfortable with motorcycle electrical systems.

4.1. Component Placement

- **Main Unit:** Choose a secure, dry location, ideally protected from direct elements. Consider areas under the seat or within the fairing.
- **Front and Rear Cameras:** Mount the cameras using the provided metal or plastic mounts and 3M stickers. Ensure a clear, unobstructed view of the road. The cameras are waterproof (IP66).

- **GPS Module:** Place the GPS module in a location with a clear view of the sky for optimal signal reception.
- **Remote Control:** Mount the remote control in an easily accessible location on your handlebars or dashboard for quick access to emergency recording and Wi-Fi functions.

4.2. Wiring and Connections

Connect all components to the main unit using the provided cables. The power cable features ACC detection, which allows the dash cam to automatically power on and off with your motorcycle's ignition. Ensure all connections are secure and routed safely away from moving parts or heat sources.



Figure 4.1: Cable connections and lengths for VIOFO MT1 components.

4.3. Memory Card Insertion

Insert the provided 32GB microSD card into the main unit's designated slot. Ensure the card is inserted correctly until it clicks into place. It is recommended to format the memory card periodically to maintain optimal recording performance.

5. Operating Instructions

5.1. Power On/Off

The VIOFO MT1 is designed for automatic operation. Once properly wired with ACC detection, the dash cam will automatically power on and begin recording when your motorcycle's ignition is turned on. It will automatically power off when the ignition is turned off.

5.2. Recording Modes

- **Loop Recording:** The dash cam continuously records video in short segments (e.g., 1, 3, or 5 minutes). When the memory card is full, the oldest unlocked files are overwritten.
- **Emergency Recording (G-Sensor):** In the event of a sudden impact or collision, the built-in G-Sensor will automatically lock the current video segment, preventing it from being overwritten by loop recording.
- **Manual Emergency Recording:** Press the button on the remote control to manually trigger an emergency recording, locking the current video segment.

5.3. Wi-Fi Connection and App Usage

To access live view, review footage, download files, or change settings, connect your smartphone to the MT1's Wi-Fi network using the VIOFO App (available for iOS and Android). Refer to the app's instructions for detailed usage.

5.4. GPS Data Logging

The integrated GPS module records your speed, location, and route data. This information is embedded in the video files and can be viewed during playback using the VIOFO App or compatible desktop software.

6. Maintenance

- **Memory Card Formatting:** Regularly format the microSD card (at least once a month) using the VIOFO App or the dash cam's settings to prevent data corruption and ensure smooth recording.
- **Lens Cleaning:** Gently clean the camera lenses with a soft, lint-free cloth to remove dust or smudges that may affect video clarity. Avoid abrasive materials.
- **Firmware Updates:** Check the official VIOFO website periodically for firmware updates. Keeping your dash cam's firmware up-to-date ensures optimal performance, bug fixes, and new features.
- **Secure Mounting:** Periodically check that all mounts and cables are securely fastened to prevent vibration or dislodgement during rides.

7. Troubleshooting

If you encounter issues with your VIOFO MT1 dash cam, refer to the following common troubleshooting tips:

- **Dash Cam Not Powering On:**
  - Check all power cable connections to ensure they are secure.
  - Verify that the motorcycle's ignition is on and providing power to the ACC line.
  - Ensure the power cable fuse is intact.
- **Not Recording / Recording Errors:**
  - Format the microSD card.
  - Ensure the microSD card is properly inserted.
  - Try a different, high-quality microSD card (UHS-I, Class 10 or higher, specifically designed for dash cams).
  - Check for available space on the card.
- **Wi-Fi Connection Issues:**
  - Ensure the Wi-Fi function is enabled on the dash cam (via remote control or app if accessible).
  - Restart both the dash cam and your smartphone.
  - Ensure you are within close proximity to the dash cam.
- **Poor Video Quality:**
  - Clean the camera lenses.
  - Ensure cameras are securely mounted and not vibrating.
  - Check video resolution settings in the VIOFO App.
- **GPS Not Working:**
  - Ensure the GPS module is connected correctly.
  - Verify the GPS module is placed in an open area with a clear view of the sky.
  - Check GPS settings in the VIOFO App.

For further assistance, please contact VIOFO customer support.

8. Specifications

Specification	Detail
Model Name	MT1
Video Capture Resolution	1080p (Dual Channel)
Angle of View	170 Degrees
Connectivity Technology	Wi-Fi
Special Feature	Loop Recording, G-Sensor, GPS, WDR, Super Capacitor
Water & Dust Resistance	IP66
Supported Memory Card	Up to 256GB microSD (32GB included)
Power Source	12V DC (ACC detection)
Item Weight	2.09 pounds
Product Dimensions	4.09 x 0.87 x 2.93 inches
Batteries	1 Lithium Metal battery required (for remote control)

9. Warranty and Support

The VIOFO MT1 Motorcycle Dash Cam comes with a one-year warranty from the date of purchase, covering manufacturing defects. Please retain your proof of purchase for warranty claims.
For technical support, troubleshooting assistance, or warranty inquiries, please visit the official VIOFO website or contact their customer service department. You can find more information and products at the VIOFO Store.

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