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AlienRider M2PRO-201

AlienRider M2PRO-201 Motorcycle Smart System User Manual

Comprehensive Guide for Installation, Operation, and Maintenance

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your AlienRider M2PRO-201 Motorcycle Smart System. This system integrates advanced features such as wireless CarPlay/Android Auto, a 1080P HD dashcam, rear-view streaming, and comprehensive blind spot detection to enhance your riding experience and safety. Please read this manual thoroughly before using the product to ensure proper function and to prevent damage.



Figure 1.1: AlienRider M2PRO-201 Main Unit, Cameras, and Wired Controller. This image displays the primary components of the AlienRider M2PRO-201 system, including the central display unit, two external cameras, and a compact wired controller.

2. SAFETY INFORMATION

Always prioritize safety when installing and operating electronic devices on your motorcycle. Improper installation or use can lead to accidents or damage to the device and motorcycle.

- Ensure the device is securely mounted and does not obstruct your view or interfere with motorcycle controls.
- All wiring should be properly routed and secured to prevent entanglement, chafing, or interference with moving parts.
- Avoid operating the device or making significant setting changes while riding. Perform adjustments only when the motorcycle is safely stopped.
- The system is IP68 waterproof; however, avoid submerging it or exposing it to high-pressure water jets.
- Consult a professional motorcycle technician if you are unsure about any installation steps.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package. If any items are missing or damaged, please contact customer support.

- AlienRider M2PRO-201 Host Unit (Display)
- Front Camera (1080P HD)

- Rear Camera (1080P HD)
- Wired Controller
- Power Cable
- Camera Extension Cables
- Mounting Brackets and Hardware
- User Manual

Note: Optional accessories such as TPMS sensors or radar units may be included depending on your specific package.

4. PRODUCT OVERVIEW

The AlienRider M2PRO-201 is a comprehensive smart system designed for motorcycles, integrating navigation, recording, and safety features into a single unit.

4.1 Key Features

- **High-Brightness IPS Touchscreen:** A 1200-nit, 1440x720 resolution display ensures clear visibility even in direct sunlight.
- **Wireless CarPlay & Android Auto:** Seamless integration with your smartphone for navigation, music, and communication.
- **1080P HD Dual Dashcam:** Front and rear cameras record high-definition video with starlight-level night vision, loop recording, and G-sensor incident detection.
- **Blind Spot Detection (BSD):** Utilizes 77G mmWave radar to monitor blind spots and provide warnings for approaching vehicles.
- **Lane Change Assist (LCA):** Alerts you to vehicles in adjacent lanes during lane changes.
- **Rear Collision Warning (RCW):** Provides warnings for rapidly approaching vehicles from the rear.
- **IP68 Waterproof Design:** Ensures durability and performance in various weather conditions.
- **Real-Time TPMS (Optional):** Monitors tire pressure and temperature with alerts for abnormalities.



Figure 4.1: AlienRider M2PRO-201 System Settings Interface. This image shows the main screen of the device with various icons representing different settings and functions, such as record resolution, date and time, screen saver, language, and connection options.

5. SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of the M2PRO-201 system. Follow these steps carefully.

5.1 Mounting the Host Unit

1. Choose a suitable location on your motorcycle's handlebars or dashboard that provides a clear view of the screen without obstructing your riding view or controls.
2. Attach the mounting bracket to the host unit.
3. Securely fasten the bracket to your chosen location using the provided hardware. Ensure it is stable and does not vibrate excessively.

5.2 Installing Cameras

1. **Front Camera:** Mount the front camera in a position that provides an unobstructed view of the road ahead, typically near the headlight or front fender.

2. **Rear Camera:** Mount the rear camera to capture a clear view of the road behind, usually near the license plate or rear fender.
3. Ensure both cameras are securely fastened and their lenses are clean and free from obstructions.

5.3 Connecting the Wired Controller

The wired controller allows for easy access to key functions while riding.

1. Mount the wired controller on your handlebars within easy reach.
2. Connect the controller cable to the designated port on the host unit.



Figure 5.1: Wired Controller Functions. This diagram illustrates how the wired controller connects to the main unit and allows switching between the rear camera view, home page, and current interface with a single button click.

5.4 Wiring Diagram

Follow the wiring diagram carefully to connect the power, cameras, and other components to the host unit. Ensure all connections are secure and waterproof.

- Connect the **ACC (Red)** wire to a switched 12V power source on your motorcycle.
- Connect the **Power Positive Pole (Yellow)** wire to a constant 12V power source.
- Connect the **Negative Pole of Power Supply (Black)** wire to the motorcycle's ground.
- Connect the Front Camera to the **Front camera interface (4Pin)**.

- Connect the Rear Camera to the **Rear camera interface (4Pin)**.
- Connect the Wired Controller to the **Button interface (4Pin)**.
- If applicable, connect the Radar unit to its designated port.

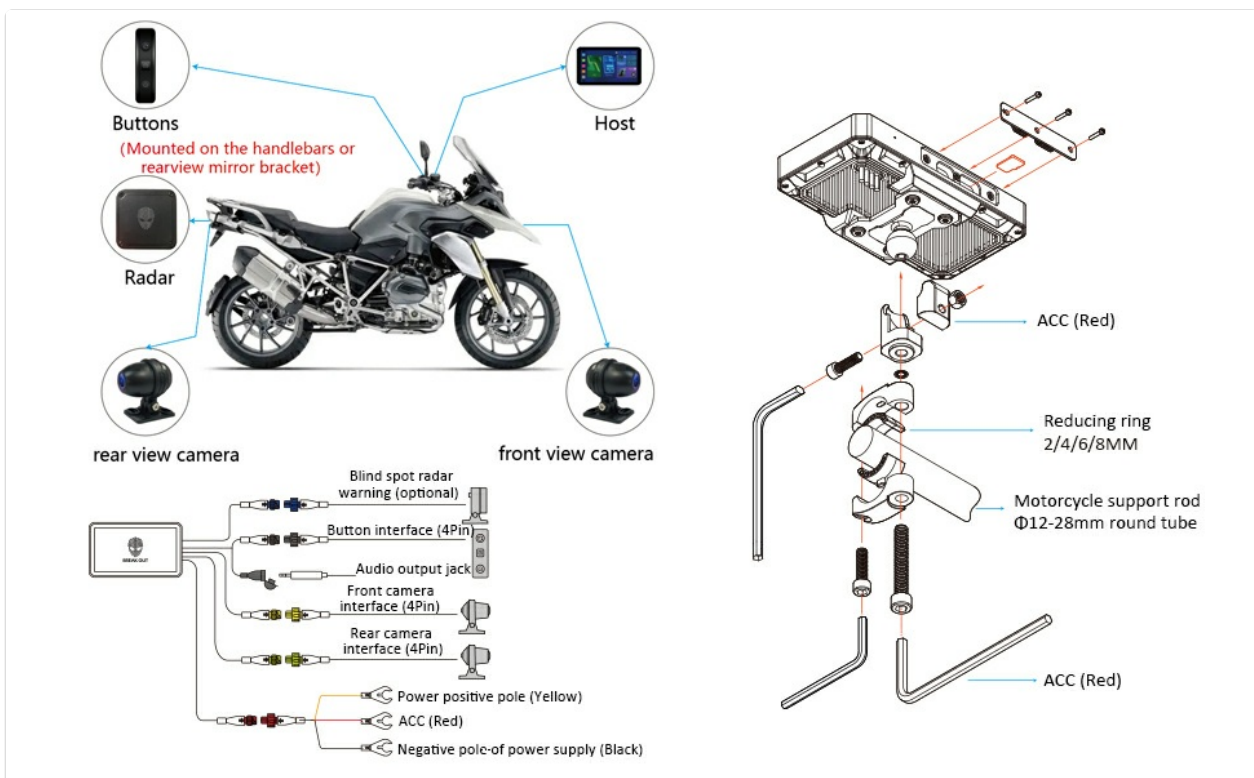


Figure 5.2: Installation and Wiring Diagram. This detailed diagram illustrates the placement of the host unit, front and rear cameras, radar (if included), and wired controller on a motorcycle, along with the necessary electrical connections for each component.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

- The system will automatically power on when the motorcycle ignition is turned on (ACC power).
- To power off, turn off the motorcycle ignition. The system will save recordings and shut down automatically.

6.2 Navigating the Interface

The M2PRO-201 features a touch-sensitive IPS display. Swipe and tap to navigate through menus and select functions. The main screen typically displays navigation, dashcam view, and connectivity options.

6.3 Wireless CarPlay / Android Auto

1. Ensure Bluetooth and Wi-Fi are enabled on your smartphone.
2. On the M2PRO-201, select the CarPlay or Android Auto icon.
3. Follow the on-screen prompts to pair your phone via Bluetooth.
4. Once paired, the system will automatically establish a Wi-Fi connection for CarPlay or Android Auto functionality.

6.4 Dashcam Operation

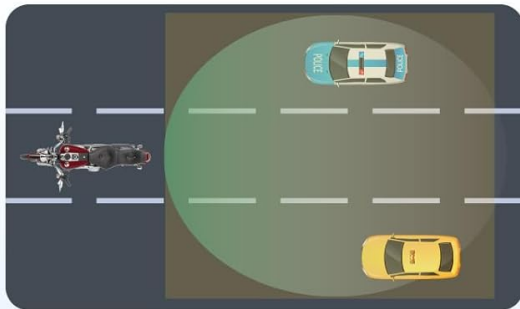
- **Automatic Recording:** The dashcam automatically begins recording when the system powers on.
- **Loop Recording:** Older footage is overwritten by new recordings when the storage card is full. Important videos can be locked to prevent overwriting.
- **G-Sensor:** In the event of a sudden impact or collision, the G-sensor automatically locks the current video segment to prevent it from being overwritten.
- **Playback:** Access recorded videos through the 'Playback' or 'DVR' option on the main interface.

6.5 Blind Spot Detection (BSD) System

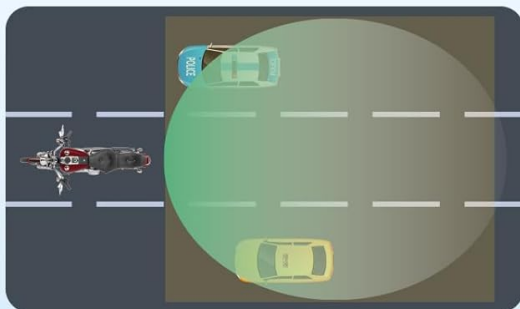
The 77G mmWave radar continuously monitors your blind spots and provides visual and audible warnings.

- **BSD (Blind Spot Detection):** Warns of vehicles in your blind spots.
- **LCA (Lane Change Assist):** Provides an alert if a vehicle is detected in your blind spot when you signal a lane change.
- **RCW (Rear Collision Warning):** Alerts you to vehicles approaching rapidly from the rear.

Blind Spot Radar Warning System



BSD Blind Spot Detection System



LCA Lane Change Assist Warning



RCW Rear-end Collision Warning



Figure 6.1: Blind Spot Radar Warning System Visuals. This image displays three scenarios: BSD (Blind Spot Detection), LCA (Lane Change Assist), and RCW (Rear-end Collision Warning), showing how the system visually alerts the rider to potential hazards on the screen.



Figure 6.2: Blind Spot Warning Levels. This diagram illustrates the two levels of warnings: a first-level (yellow pop-up) for a vehicle approaching at a long distance in the rear blind spot, and a second-level (red pop-up with rear view switch) for a target vehicle approaching quickly at a close distance.

6.6 TPMS (Tire Pressure Monitoring System) - Optional

If your package includes TPMS sensors, the system will display real-time tire pressure and temperature. Alerts will be triggered if values fall outside preset safe ranges.

1. Install the TPMS sensors according to their separate instructions.
2. On the M2PRO-201, navigate to the TPMS section.
3. Pair the sensors with the system as prompted.
4. Monitor tire data and respond to any alerts promptly.



It supports multiple data displays and can set individual warning values for each tire. When the warning value is reached, a prompt message will pop up regardless of the interface. And the internal tire pressure sensor is available.

External tpms optional

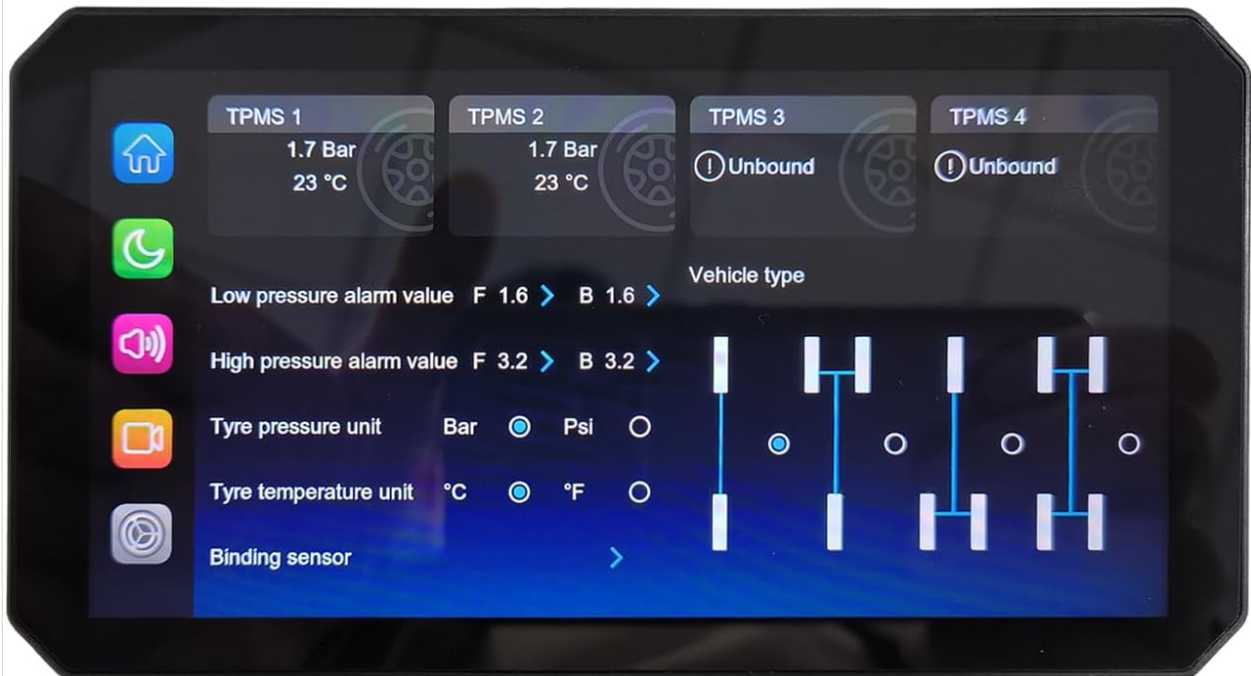


Figure 6.3: TPMS Display Interface. This image shows the system's screen displaying real-time data for up to four tires, including pressure and temperature, along with settings for alarm values and tire pressure units.

7. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the display and camera lenses. Avoid abrasive cleaners or solvents.
- **Firmware Updates:** Periodically check the manufacturer's website for firmware updates to ensure optimal performance and access to new features.
- **Storage Card:** Format the storage card regularly (e.g., monthly) to maintain optimal recording performance. Back up important videos before formatting.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
System does not power on.	Incorrect power connection; Blown fuse.	Check power wiring (ACC, positive, negative). Verify motorcycle fuse.
No camera display.	Camera cable loose or damaged; Camera faulty.	Ensure camera cables are securely connected. Test with another camera if available.
CarPlay/Android Auto not connecting.	Bluetooth/Wi-Fi off on phone; Pairing issue.	Ensure phone's Bluetooth/Wi-Fi is on. Forget device and re-pair. Restart phone and system.
Poor video quality.	Dirty camera lens; Incorrect resolution setting; Faulty SD card.	Clean camera lenses. Check video resolution settings. Format or replace SD card.
Blind Spot Detection not working.	Radar unit obstructed or disconnected; System setting disabled.	Check radar unit for obstructions and secure connection. Verify BSD settings in the menu.

9. SPECIFICATIONS

Feature	Specification
Model Name	M2PRO-201 (M2PRO-Series)
Display	6.1 Inches IPS Touchscreen, 1200-nit brightness
Video Capture Resolution	1080p (Front & Rear)
Connectivity Technology	Bluetooth, Wi-Fi (for CarPlay/Android Auto)
Special Feature	IP68 Waterproof, G-Sensor, Loop Recording, Starlight Night Vision
Blind Spot Detection	77G mmWave Radar (BSD, LCA, RCW)
Mounting Type	Dashboard Mount / Handlebar Mount
Item Weight	4.05 pounds (approximate, for Host+Cameras package)
Manufacturer	AlienRider

10. WARRANTY AND SUPPORT

The AlienRider M2PRO-201 Motorcycle Smart System comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official AlienRider website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact AlienRider customer service through their official website or the contact information provided with your purchase.

Please retain your proof of purchase for warranty purposes.

