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Daytona MiVue M820WD

Daytona Mio MiVue M820WD Motorcycle Drive Recorder User Manual

Comprehensive instructions for installation, operation, and maintenance of your MiVue M820WD.

1. INTRODUCTION

The Daytona Mio MiVue M820WD is a motorcycle drive recorder designed to capture video footage from both the front and rear of your motorcycle. It features advanced functions such as parking surveillance, high-definition recording, and GPS tracking, all housed in a durable, weather-resistant design. This manual provides essential information to help you set up, operate, and maintain your device effectively.



Figure 1: The MiVue M820WD package contents, including the main unit, front and rear cameras, and remote control.

2. KEY FEATURES

- **Front and Rear Full HD Recording:** Equipped with two cameras, each recording in Full HD (1080P) at 58 frames per second, ensuring clear capture of details like license plates.
- **Parking Surveillance Function:** Automatically records events when an impact is detected or changes occur within the camera's field of view while parked. This includes 20 seconds before and after the event.
- **High-Sensitivity Sony STARVIS CMOS Sensor:** Provides bright and clear recordings even in low-light conditions, such as at night.
- **HDR (High Dynamic Range) Function:** Corrects brightness differences, making it effective against strong backlighting and preventing overexposure.
- **SuperMP4 Data Saving:** Records data every second, ensuring that footage is securely saved even in the event of sudden power loss, preventing file corruption.
- **H.265 Codec Support:** Reduces file size by approximately half compared to conventional codecs without compromising video quality, allowing for longer recording times.
- **Built-in GPS:** Automatically records location, date, time, and speed information. This data can be viewed on Google Maps via the smartphone app. Supports 5 types of GPS signals for enhanced accuracy.
- **2x Wi-Fi Transfer Speed:** Enables faster transfer of recorded videos to your smartphone for quick review and sharing.
- **IP67 Dustproof and Waterproof:** The main unit, cameras, remote control, and GPS antenna are all designed to be highly resistant to dust and water, ensuring reliable operation in various weather conditions.
- **G-Sensor:** Detects impacts and automatically saves the corresponding footage to a dedicated folder, preventing overwriting.
- **Time-Lapse Recording:** An optional recording mode that reduces data volume and power consumption, suitable for extended recording periods.



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LOWLIGHT
SENSOR | 
HDR |  | 
58
FPS
1080P | 
LED |  |
| STARVIS™
イメージセンサー | HDR
搭載 | デュアルカメラ
F1.8大口径 | Full HD
58fps | LED信号機
対応 | 衝撃録画
自動ロック |
|  | 
REC P |  | 
SUPER
MP4 | 
2X
WIFI | 
H.265 |
| SuperCap
バックアップ | 駐車監視 | タイムラプス | データ
高速保存 | 2倍速
Wi-Fi | 最新H.265
コーデック |
| 
GPS | 
IP67 |  |  |  | |
| GPS
内蔵 | 防水・防塵
IP67 | スマホ
アプリ | GPX
トラック | 車両電圧の
確認 | |

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3年保証

64G メモリー
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Figure 2: Overview of the MiVue M820WD's primary functions and capabilities.

3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. Ensure the device is mounted in a location that does not obstruct your view or interfere with vehicle operation, adhering to local traffic laws.

3.1. Component Overview

Before installation, verify all included components:

- Main Unit
- Front Camera
- Rear Camera
- GPS Multi-function Controller
- 1.8m Extension Cable
- 12V Power Cable
- Binding Band
- Main Unit Fixing Surface Fastener
- Rubber Tube
- microSD 64GB Card (pre-installed or included separately)

3.2. Main Unit Installation

The main unit should be installed in a secure, concealed location on your motorcycle, such as under the seat or within a fairing, where it is protected from direct impact in case of an accident. Use the provided surface fastener and binding bands for secure mounting.



Figure 3: Examples demonstrating suitable locations for installing the main unit on different motorcycle models.

3.3. Camera Installation

Mount the front and rear cameras using the adhesive mounts. Ensure the camera lenses have a clear, unobstructed view of the road. The cameras are IP67 rated, allowing for external mounting.

- **Front Camera:** Typically mounted near the headlight or on the front fork.
- **Rear Camera:** Typically mounted near the license plate or taillight.

Adjust the camera angle to ensure optimal coverage. The camera housing has a vertical mark to indicate the correct upright orientation for the image. It is recommended to roughly align the camera before final mounting and then fine-

tune using the smartphone app's live view.



Figure 4: Front camera mounting examples on different motorcycle models.

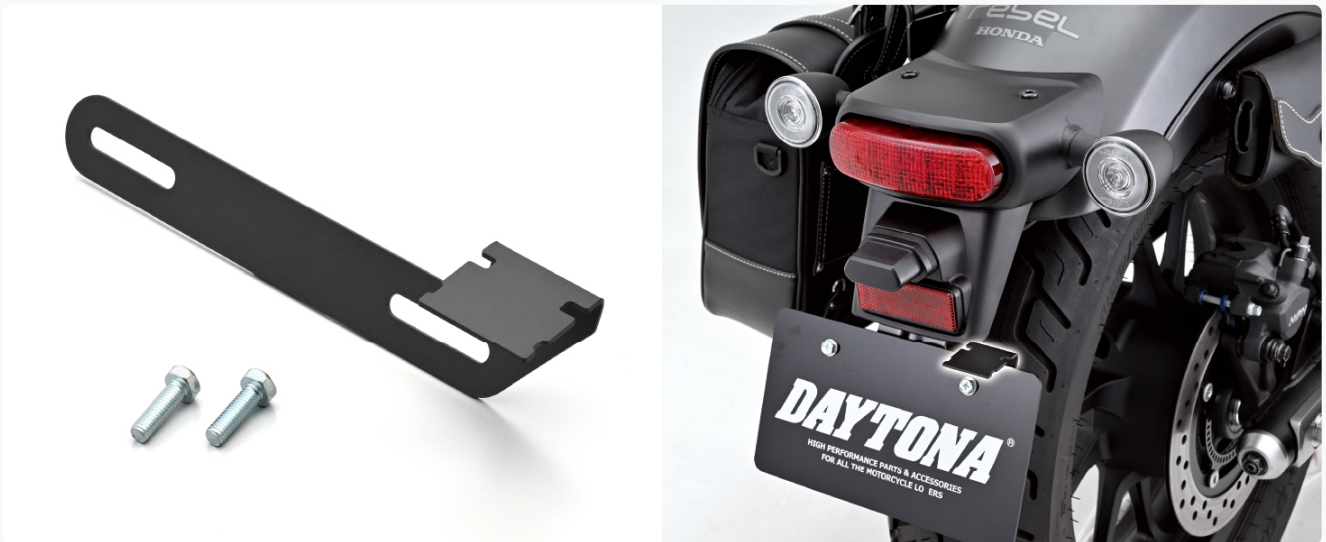


Figure 5: Rear camera mounting examples on different motorcycle models.

3.4. Wiring

Connect the power cable to a 12V power source on your motorcycle. The power cable has a 3-pin connector (B+/ACC/GND). It is recommended to connect the ACC wire to a switched power source that turns on and off with the ignition. Route all cables carefully to avoid interference with moving parts, heat sources, or sharp edges. Use the provided binding bands to secure cables.

The GPS multi-function controller should be mounted in an easily accessible location, such as on the handlebar, for manual recording and status indication.



Figure 6: Assortment of mounting hardware and cables for secure installation.

4. OPERATION

4.1. Automatic Recording

Once powered on, the MiVue M820WD automatically begins continuous loop recording. Older files will be overwritten by new recordings when the microSD card is full, except for event-locked files.

4.2. Parking Surveillance

When the ignition is turned off, the device can enter parking surveillance mode. In this mode, it detects impacts or significant motion changes within the camera's view and records a 20-second clip (10 seconds before and 10 seconds after the event). This feature helps monitor your motorcycle while parked.



Figure 7: The parking surveillance feature records events even when the motorcycle is off.

4.3. Manual Event Recording

Press the button on the GPS multi-function controller to manually trigger an event recording. This will save a segment of video (e.g., 20 seconds before and 20 seconds after the button press) to a protected folder, preventing it from being overwritten.

4.4. Time-Lapse Recording

The time-lapse function allows for extended recording periods by capturing frames at set intervals, reducing file size and power consumption. This is ideal for long tours or monitoring over extended periods.



Figure 8: Time-lapse recording reduces data volume and power consumption for long recordings.

4.5. Smartphone App (MiVue Pro App)

The MiVue Pro App (available on iOS and Android) allows you to:

- View live camera footage.
- Review recorded videos and event footage.
- Adjust device settings, including parking surveillance parameters (ON/OFF, operating time, voltage for battery protection).
- Transfer videos to your smartphone via Wi-Fi (approx. 2x faster than previous models).
- View your driving route on Google Maps with GPS data.
- Update firmware wirelessly.

スペック比較03		MiVue [®] M820WD	MiVue [®] M802WD	MiVue [®] MP30GPS
	Sony STARVIS™	○	—	—
	有効画素数	200万画素		400万画素
カメラ	視野角	フロント / リア 136.6° (水平115.6° 垂直61.6°)		1440P フロント/リア 123.6° (水平105° 垂直56.8°) 1080P フロント/リア 88.8° (水平76.6° 垂直42.4°)
	F値	フロント / リア F1.8		フロント / リア F2.0

Figure 9: The MiVue Pro App provides convenient control and access to recordings from your smartphone.

4.6. PC Software (MiVue Manager)

The MiVue Manager software for PC allows for more detailed analysis of your recordings, including:

- Playback of Full HD videos with speed adjustment.
- Sharing videos to social media.

- Displaying your driving route on Google Maps alongside video playback.
- Organizing recorded videos by type and date.
- Analyzing driving data, including G-force (acceleration) in three axes.

スペック比較04	MiVue® M820WD	MiVue® M802WD	MiVue® MP30GPS
解像度 / フレームレート	1,080p / 58fps 1,080p / 29HDR 1,080p / 29fps	1,080p / 58fps 1,080p / 29fps	1,440p / 29fps 1,080p / 29HDR 1,080p / 58fps
記録メディア	microSD64GB付属 microSDHC 32GB- SDXC 256GB (U1/C10以上)	microSD64GB付属 microSDHC 32GB- SDXC 256GB (U3/C10/V30以上)	microSD64GB付属 microSDHC 32GB- SDXC 256GB (U3/C10/V30以上)

Figure 10: MiVue Manager offers advanced video management and analysis on your computer.

5. MAINTENANCE

5.1. microSD Card Management

The MiVue M820WD supports microSDXC cards up to 256GB. It is recommended to periodically format the microSD card (e.g., once a month) to maintain optimal recording performance and prevent data corruption. This can be done via the smartphone app or the PC software.

To physically access the microSD card, you may need to unscrew a small cover on the main unit. Exercise caution to avoid losing the small screw.



Figure 11: The device supports microSD cards up to 256GB and utilizes H.265 compression.

5.2. Firmware Updates

Keep your device's firmware updated to ensure the latest features and improvements. Firmware updates can be performed wirelessly via the MiVue Pro App.

5.3. Cleaning

Wipe the camera lenses and main unit with a soft, damp cloth to remove dust and dirt. Avoid using abrasive cleaners or solvents that could damage the device.

6. TROUBLESHOOTING

If you encounter issues with your MiVue M820WD, refer to the following common problems and solutions:

- **Device does not power on:**
 - Check all power connections to ensure they are secure.
 - Verify that the motorcycle's battery has sufficient charge.
 - Ensure the ignition is on if connected to an ACC power source.
 - Wait a few seconds after turning on the ignition before starting the engine to allow the drive recorder to initialize.

- **Wi-Fi transfer is slow:**
 - Ensure your smartphone is close to the main unit for a strong Wi-Fi signal.
 - Close other applications on your smartphone that might be using Wi-Fi.
 - Update the MiVue Pro App to the latest version.

- **Recorded video is corrupted or unreadable:**
 - Format the microSD card regularly.
 - Ensure you are using a high-quality microSD card (U1/C10/V30 or higher recommended).
 - If the issue persists, the microSD card may be faulty and require replacement.
 - The SuperMP4 feature is designed to prevent file corruption during power loss, but severe physical damage to the SD card or main unit can still lead to data loss.

- **Camera image is unclear or white:**
 - Clean the camera lens.
 - Check for condensation inside the lens.
 - Ensure the camera is securely mounted and not vibrating excessively.

- **LED traffic lights appear to flicker or are not clearly visible:**
 - This is a known phenomenon due to the high-speed flickering of LED lights and the camera's frame rate. The MiVue M820WD is designed to minimize this effect and is compatible with both East and West Japan LED frequencies.
 - In such cases, assess the situation based on surrounding vehicles and the overall traffic environment.

7. SPECIFICATIONS

Feature	Specification
Brand	Daytona
Model Name	MiVue M820WD
Product Model Number	40860
Product Dimensions (Main Unit)	6.6 x 2.3 x 6.4 cm (Depth x Width x Height)
Item Weight	800 g
Color	Black
Video Capture Resolution	1080p (Full HD)
Frame Rate	58fps (1080p), 29fps (1080p HDR)
Image Sensor	Sony STARVIS CMOS Sensor
Special Features	Parking Monitor, HDR, G-Sensor, GPS, Wi-Fi, Time-Lapse, SuperMP4
Dustproof/Waterproof Rating	IP67 (Main unit, cameras, remote, GPS antenna)
Control Method	App
Mounting Type	Adhesive
Included Components	Main unit, front camera, rear camera, GPS multi-function controller, 1.8m extension cable, 12V power cable, binding band, main unit fixing surface fastener, rubber tube

スペック比較06	MiVue [®] M820WD 	MiVue [®] M802WD 	MiVue [®] MP30GPS 
Gセンサー		衝撃録画・自動ロック機能	
防水性能	IP67 (カメラ・本体・スイッチ)	IP65 (本体)、IP67 (カメラ・スイッチ・コネクター)	IP67 (ケーブル、差し込み口は非防水)
バッテリー	スーパーキャパシター		3200mAh
イベント録画	○	○	○
ファームウェアアップデート	○	○	○

Figure 12: Detailed specifications of the MiVue M820WD.

8. WARRANTY AND SUPPORT

8.1. Warranty Information

The MiVue M820WD comes with a **3-year warranty** from the date of delivery. A delivery receipt or proof of purchase is required for warranty claims. The warranty is limited to use within Japan.

8.2. Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Daytona customer support. Refer to the product packaging or the official Daytona website for the most current contact information.