



Manuals.plus /

- › **AiM Sportline** /
- › SOLO2 DL GPS Lap Timer and Dash Logger User Manual

## AiM Sportline X47SOLO2DL01U0

# SOLO2 DL GPS Lap Timer and Dash Logger User Manual

Brand: AiM Sportline

## INTRODUCTION

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The AiM SOLO2 DL is an advanced GPS lap timer and dash logger designed for motorsport applications. It provides precise lap timing, real-time data display, and comprehensive data logging capabilities. With its integrated track database and OBD2 data connection, the SOLO2 DL offers extensive information from your vehicle's Engine Control Unit (ECU) with a single cable connection. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device.

## INITIAL SETUP

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To begin using your SOLO2 DL, ensure it is properly connected and configured. The device can connect to your vehicle's ECU via the included OBD2 Data Connection Cable to acquire a wide range of vehicle parameters.

### Connecting to Your Vehicle

1. Locate the OBD2 port in your vehicle. This is typically found under the dashboard on the driver's side.
2. Connect the OBD2 Data Connection Cable to the SOLO2 DL device and then to your vehicle's OBD2 port. This connection also provides power to the device and charges its internal battery.

### Software Configuration (Race Studio 3)

The SOLO2 DL requires the Race Studio 3 configuration software for advanced setup and data analysis. This software allows you to:

- Define custom screens and data displays.
- Select and configure data channels from your ECU.
- Utilize the ECU Driver Builder to create custom protocols if your ECU is not in the existing database.

Refer to the Race Studio 3 software manual for detailed instructions on configuration and data management.



This image displays the front view of the AiM SOLO2 DL device. It features a monochrome LCD screen showing 'SAT B', 'RPM 10752', and 'KMH 196'. On the left and right sides of the screen, there are vertical arrays of colored LED shift lights. Below the screen are four silver control buttons, with the AiM logo on one of them. Two connectors are visible at the bottom edge of the device.

## OPERATING YOUR SOLO2 DL

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The SOLO2 DL is designed for intuitive operation during track sessions. Its primary functions include precise GPS-based lap timing and comprehensive data logging.

### Lap Timing

The device automatically detects the track from its integrated database and starts timing laps as you cross the start/finish line. Real-time lap times and split times are displayed on the screen.

### Data Logging and Display

The SOLO2 DL logs various data points, including GPS position, speed, and vehicle parameters from the OBD2 connection (e.g., RPM, KMH). The configurable display allows you to customize which data is shown on screen during your session, providing immediate feedback on your performance.

### Post-Session Analysis

After your session, connect the SOLO2 DL to your computer and use the Race Studio 3 software for in-depth analysis of your logged data. This powerful tool helps you review lap performance, identify areas for improvement, and compare data across multiple sessions.

## CARE AND MAINTENANCE

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Proper care ensures the longevity and optimal performance of your SOLO2 DL.

## Battery Management

The SOLO2 DL has an internal battery with an approximate life of 5 hours. For extended use, it is recommended to keep the device connected to a power source, such as the vehicle's OBD2 port or a cigarette lighter power cable, which also charges the device.

## Cleaning and Storage

- Clean the device with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- Ensure all ports are free from dust and debris before connecting cables.

## TROUBLESHOOTING COMMON ISSUES

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This section addresses some common issues you might encounter with your SOLO2 DL.

Problem	Possible Cause / Solution
Device does not turn on or turns off immediately after unplugging.	This indicates a potential battery issue. Ensure the device is fully charged. If the problem persists, the internal battery may need service. Contact AiM Sportline support.
Device not showing lap times or acquiring data.	<ul style="list-style-type: none"><li>• Verify GPS signal strength (indicated on screen).</li><li>• Ensure the device is properly mounted with a clear view of the sky.</li><li>• Check OBD2 cable connection to both the device and the vehicle.</li><li>• Confirm that the correct track is selected or recognized by the device.</li><li>• Review Race Studio 3 configuration for data channel setup.</li></ul>
Difficulty with Race Studio 3 software setup or data analysis.	<ul style="list-style-type: none"><li>• Refer to the comprehensive Race Studio 3 software manual.</li><li>• Explore online tutorials and resources provided by AiM Sportline.</li><li>• Consider attending official training sessions if available for advanced usage.</li></ul>

## TECHNICAL SPECIFICATIONS

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Feature	Detail
Model	X47SOLO2DL01U0
Manufacturer	AiM Sportline
Item Weight	1.8 pounds
Product Dimensions	13 x 10 x 9 inches
Connectivity Technology	OBD2
Special Features	Integrated track database, Configurable display, Inertial platform, OBD connectivity
Included Components	OBD2 Data Connection Cable, OBDII connector
Battery Life	Approximately 5 Hours
Vehicle Service Type	Car

## WARRANTY AND CUSTOMER SUPPORT

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For warranty information, technical assistance, or any issues not covered in this manual, please contact AiM Sportline customer support. Keep your purchase receipt and product model number (X47SOLO2DL01U0) readily available when contacting support. Additional resources, including software updates and detailed documentation for Race Studio 3, can typically be found on the official AiM Sportline website.

