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› CELLSTAR AL-02R Laser Receiver Instruction Manual (2021 Model)

CELLSTAR AL-02R

CELLSTAR AL-02R Laser Receiver Instruction Manual

Model: AL-02R (2021 Model)

1. INTRODUCTION

The CELLSTAR AL-02R is a high-precision laser receiver designed to detect laser-type speed cameras. This device can function as a standalone unit or integrate with a compatible CELLSTAR safety radar system, enhancing its detection capabilities. It features CELLSTAR's unique Fredelix Lens technology, which significantly reduces false alarms, providing more reliable alerts. The AL-02R offers both LED and audio warnings and supports two reception levels (strong/weak) for optimal performance. This product is manufactured in Japan and comes with a 3-year warranty.

2. SAFETY INFORMATION

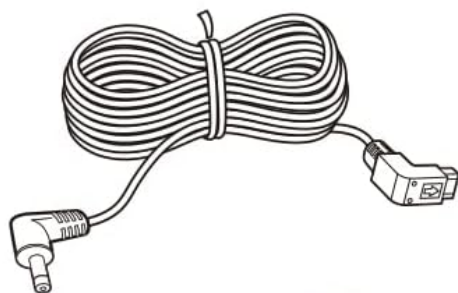
- Read all instructions carefully before installation and operation.
- Ensure the device is securely mounted and does not obstruct the driver's view or interfere with vehicle controls.
- Do not attempt to disassemble or modify the unit. This may void the warranty and cause malfunction.
- Keep the device away from excessive heat, direct sunlight for prolonged periods, and moisture.
- Use only the provided cables and accessories.
- Always adhere to local traffic laws and regulations regarding the use of such devices.

3. PACKAGE CONTENTS

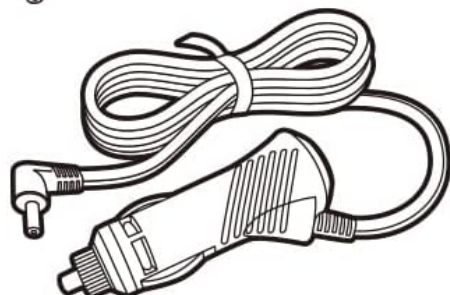
Verify that all the following items are included in your package:

- CELLSTAR AL-02R Laser Receiver Unit
- Safety Radar Connection Cord (3-pole DC plug/3.5m)
- Cigarette Lighter DC Cord (3-pole DC plug/4.5m)
- Double-sided Tape (for direct attachment to main unit)
- Double-sided Tape (for mount base dashboard)
- Double-sided Tape (for rear glass)
- Mount Base
- Ball Joint
- Instruction Manual

■ 付属品 AL-02



■ セーフティレーザー接続コード
(3極DCプラグ/3.5m)



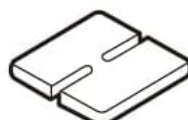
■ シガーライター用DCコード
(3極DCプラグ/4.5m)



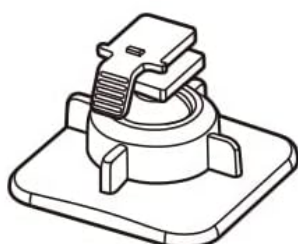
■ 両面テープ
(マウントベース
ダッシュボード用)



■ 両面テープ
(本体直付用)



■ 両面テープ
(リヤガラス用)



■ マウントベース



■ ボールジョイント



■ 取扱説明書

Figure 3.1: Included accessories for the AL-02R. This image displays the main unit, two types of power/connection cables, three types of double-sided adhesive tape for mounting, a mount base, a ball joint, and the instruction manual.

4. SETUP AND INSTALLATION

4.1 Mounting the Unit

The AL-02R can be mounted on the dashboard or other suitable surfaces using the provided mount base and double-sided tape. Ensure the mounting location provides a clear line of sight for laser detection and does not obstruct your view while driving.

1. Clean the mounting surface thoroughly to ensure proper adhesion of the double-sided tape.
2. Attach the appropriate double-sided tape to the mount base.
3. Secure the mount base to your desired location.
4. Attach the AL-02R unit to the mount base using the ball joint, adjusting the angle for optimal detection.

4.2 Power Connection

The AL-02R can be powered in two ways:

1. **Standalone Use:** Connect the dedicated Cigarette Lighter DC Cord (4.5m) to the AL-02R unit and plug it into your vehicle's cigarette lighter socket.
2. **Connection to a Compatible Safety Radar:** Use the Safety Radar Connection Cord (3.5m) to link the AL-02R to a compatible CELLSTAR safety radar system. This allows the safety radar to process the laser detection data.

Note: For rear installation, an optional accessory, the RO-123, is required. The AL-02R cannot be used simultaneously with drive recorder intercommunication functions.

Cellstar®

ご使用中のセーフティレーダーが「レーザー式オービス」対応に!
〔リヤにも設置できる高精度レーザー受信機!〕
※リヤ設置の場合、別売オプションRO-123が必要です。

誤警報を大幅に削減!
※特許出願中
フレデリックスレンズ
受信性能 約2倍アップ!
※従来製品比較
最速・広角レーザー受信!
※業界初 受信レベル(強・弱) 2段階受信^{※2}
※1:当社調べ ※2:特許出願中

LEDと音声で警告!

前方・後方用 レーザー受信機 **レーザー式オービス対応 AL-02R**
単体で使える専用DCコード付属!

このマークが目印!
ドライブレコーダー ↔ セーフティレーダー
相互通信対応機種

対応のセーフティレーダーに接続可能! (専用コード付属)
※ドライブレコーダー相互通信との併用はできません。 ※セーフティレーダーは付いていません。

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Figure 4.1: Overview of AL-02R features and installation. This diagram illustrates how the AL-02R converts an existing safety radar to support laser-type speed cameras, highlights its high-precision laser reception, Fredelix Lens technology for false alarm reduction, LED and audio warnings, and options for front or rear installation (rear requires optional RO-123).

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

Once connected to a power source, the AL-02R will typically power on automatically with your vehicle's ignition. To manually power off, disconnect the power cable or use the power button if available on your connected safety radar system.



Figure 5.1: Top view of the AL-02R unit. This image shows the top surface of the device, featuring the model number AL-02R and the CellStar brand logo.

5.2 Laser Detection and Alerts

When a laser-type speed camera signal is detected, the AL-02R will provide alerts through:

- **LED Indicator:** A visual alert will be displayed on the unit's LED.
- **Audio Warning:** An audible alert will sound to notify the driver.

The Fredelix Lens technology helps to filter out non-threat laser signals, reducing unnecessary warnings.

5.3 Reception Levels

The AL-02R supports two reception levels: Strong and Weak. These levels determine the sensitivity of the laser detection. Refer to your connected safety radar's manual or the AL-02R's specific settings (if standalone) for information on how to adjust these levels, if applicable.



Figure 5.2: Angled view of the AL-02R. This image provides a perspective of the device, emphasizing the front lens area responsible for laser detection.

6. MAINTENANCE

- **Cleaning:** Gently wipe the exterior of the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the laser reception lens is kept clean and free from dust or smudges for optimal performance.
- **Storage:** If storing the device for an extended period, disconnect it from power and store it in a cool, dry place away from direct sunlight.
- **Cable Inspection:** Periodically check all cables for any signs of wear or damage. Replace damaged cables immediately.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cable not connected properly; Vehicle's power outlet is faulty.	Check power cable connection. Test the power outlet with another device.
No laser detection	Unit is not positioned correctly; Lens is obstructed or dirty; No laser signals present.	Adjust unit's angle for clear line of sight. Clean the lens. Ensure you are in an area where laser signals might be present.
Frequent false alarms	High sensitivity setting; Interference from other devices.	If adjustable, try lowering the reception sensitivity. Ensure no other electronic devices are causing interference.
No audio alert	Volume is too low or muted (if connected to safety radar); Internal fault.	Check volume settings on the connected safety radar. If standalone, and no sound, contact support.

8. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Brand	CELLSTAR
Model Number	AL-02R
Compatible Devices	Safety Radar Systems
Frequency Band	34.7 GHz
Power Source Type	Power cord type (DC 12V)
Display Type	LED
Product Weight	18 grams
Warranty	3 years
Origin	Made in Japan

9. WARRANTY AND SUPPORT

9.1 Product Warranty

The CELLSTAR AL-02R Laser Receiver comes with a**3-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact CELLSTAR customer support. Refer to the official CELLSTAR website or the contact information provided with your product packaging for the most up-to-date support details.

Note: The warranty does not cover damage caused by improper installation, misuse, accidents, unauthorized repairs, or natural disasters.

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Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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