

CELLSTAR CS-91FH

CELLSTAR CS-91FH Drive Recorder User Manual

Model: CS-91FH

1. INTRODUCTION

This user manual provides detailed instructions for the installation, operation, and maintenance of your CELLSTAR CS-91FH Drive Recorder. Please read this manual thoroughly before using the product to ensure proper and safe operation.

The CELLSTAR CS-91FH is a high-performance front and rear dual-camera drive recorder designed to capture clear video footage of your journeys and provide advanced safety driving support features.

2. KEY FEATURES

- **Front and Rear Full HD Recording:** Simultaneously records high-quality video from both front and rear cameras (2 million pixels each).
- **Tailgating Countermeasure:** Equipped with a rear-end catch function that detects close proximity from the rear vehicle and triggers warnings and event recording.
- **Advanced GPS Support:** Compatible with Quasi-Zenith Satellite Michibiki's "Sub-meter class positioning augmentation service" and disaster/crisis management notification service for precise location data and advance warnings of dangerous areas.
- **2.4-inch Touch Panel:** Intuitive control and live view display.
- **Ultra-Fast GPS:** Ensures quick and accurate GPS signal acquisition.
- **Night Vision Ver.3:** Records clear images with reduced noise even in dark environments like night driving or tunnels, and through tinted glass.
- **STARVIS IMX327 Sensor:** Utilizes Sony's STARVIS technology for high sensitivity and high image quality across visible and near-infrared light.
- **HDR (High Dynamic Range):** Reduces whiteout and black crush in scenes with drastic brightness changes.
- **Made in Japan:** Produced in CELLSTAR's domestic factories, ensuring high quality and reliability.
- **3-Year Manufacturer Warranty:** Provides extended peace of mind (for products sold and shipped by Amazon.co.jp).

CELLSTAR®

JAPAN QUALITY

安心 安全

セルスターは
自社「三重工場」一貫生産で
すべてのドライバーに
「安心」と「安全」をお届けします。

**自社工場
一貫生産**

確かな品質
日本製

充実の
アフター
サービス

3年保証

前方と後方を 高画質録画!

NEW! “煽り運転”
対策に最適!

安全運転支援機能
後方キャッチ機能
搭載

事故時補償制度
対象製品

JO RC ドライブ
レコーダー
協議会

本体カメラ + 別体カメラ

Full HD 200万画素カメラ | HDR [ハイダイナミックレンジ] 搭載

NEW! ナイトビジョン Ver.3 ※当社従来品と比べて
明るさが向上しています。

STARVIS 業界初 IMX327 搭載

本体カメラ (前方用)
フロントガラス、またはダッシュボードに
取り付けて前方を高画質録画!

後方まで余裕で届く、9.0m接続コードが付属

別体カメラ (後方用)
リアガラスに取り付けて後方を高画質録画!

ドライブレコーダー CS-91FH

すぐ使える!
大容量 32GB
(クラス10) 付属

2.4インチ
タッチパネル
液晶

超速
GPS 採用

高精度な自車位置測定
受信衛星81基

みちびき + GPS + グロナス + ガリレオ
※2019年7月現在稼働機より(一部稼働禁止衛星を除く)

準天頂衛星「みちびき」の
「サブメーター級測位補強サービス」に対応

GPSデータ件数10種
39,000件以上

PCとmicroSDカードで毎月
最新GPSデータに更新可能 **無料**

NEW! 「災害通報」を
表示

microSD
メンテナンスフリー
※特許出願中

パーキングモード
LED信号対応

安全運転支援機能
3つの録画モード

VCA
クラスA
適合品

Figure 2.1: The CELLSTAR CS-91FH drive recorder displaying simultaneous front and rear camera views on its 2.4-inch screen. The main unit is shown with its display, and a separate rear camera is also visible.

3. PACKAGE CONTENTS

Before installation, please verify that all items listed below are included in your package:

■ 梱包内容 CS-91FH



☐ ドライブレコーダー本体



☐ 別体カメラ



☐ DCコード(3極DCプラグ)

☐ マウントベース①(本体用)



☐ カメラ
接続コード



☐ マウントベース②
(別体カメラ用)



☐ 両面テープ
(ガラス用)①



☐ ボールジョイント①
(ダッシュボード、リアトレイ用)



☐ 両面テープ(ガラス用)②



☐ ボールジョイント②
(ダッシュボード、リアトレイ用)



☐ 両面テープ(ダッシュボード、
リアトレイ用)①



☐ コード
クリップ×5



☐ 両面テープ(ダッシュボード、
リアトレイ用)②



☐ 32GB microSDカード クラス10/SDHC規格準拠
(専用ビューアソフト入り) ※SDカード変換アダプタ・SDカードケース付



☐ 脱脂クリーナー



☐ 取扱説明書



Figure 3.1: Illustrated list of all components included with the CS-91FH drive recorder. This includes the main drive recorder unit, separate rear camera, DC power cord, camera connection cord, mount bases (for main unit and separate camera), ball joints, double-sided tapes (for glass and dashboard/rear tray), cable clips, a 32GB microSD card (Class 10/SDHC compliant) with adapter and case, degreasing cleaner, and the instruction manual.

- Drive Recorder Main Unit
- Separate Camera (Rear)
- DC Cord (3-pole DC plug)
- Mount Base ① (for Main Unit)
- Mount Base ② (for Separate Camera)
- Camera Connection Cord

- Double-sided Tape (for Glass) ①
- Double-sided Tape (for Glass) ②
- Ball Joint ① (for Dashboard, Rear Tray)
- Ball Joint ② (for Dashboard, Rear Tray)
- Double-sided Tape (for Dashboard, Rear Tray) ①
- Double-sided Tape (for Dashboard, Rear Tray) ②
- Cable Clips × 5
- 32GB microSD Card (Class 10/SDHC compliant, with dedicated viewer software, SD card conversion adapter, and SD card case)
- Degreasing Cleaner
- Instruction Manual

4. SETUP AND INSTALLATION

4.1 Choosing an Installation Location

Select a location on your windshield that does not obstruct the driver's view and allows for a clear recording angle. For the rear camera, choose a spot on the rear window that provides an unobstructed view of the road behind.

4.2 Attaching the Main Unit and Separate Camera

1. Clean the chosen installation area on the windshield and rear window thoroughly with the provided degreasing cleaner. Ensure the surface is dry before proceeding.
2. Attach the appropriate double-sided tape to the mount bases.
3. Securely attach the main unit mount base to the front windshield and the separate camera mount base to the rear window. Apply firm pressure for several seconds to ensure strong adhesion.
4. Attach the main unit and separate camera to their respective mount bases.



Figure 4.1: The main unit of the CELLSTAR CS-91FH drive recorder (larger, rectangular) and its separate rear camera (smaller, square). Both units are black with the "CellStar" logo. The main unit features a front-facing lens and a display screen on the back, while the rear camera has a single lens.

4.3 Wiring

1. Connect the camera connection cord from the main unit to the separate camera. Route the cable neatly along the vehicle's interior trim, using the provided cable clips to secure it.
2. Connect the DC cord to the main unit and plug the other end into your vehicle's cigarette lighter socket.
3. Ensure all cables are securely connected and do not interfere with driving controls or airbags.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

The device will automatically power on and begin recording when the vehicle's ignition is turned on. It will power off automatically when the ignition is turned off.

5.2 Basic Recording

Once powered on, the CS-91FH will automatically start continuous recording. The recording status will be indicated on the display screen.

5.3 Event Recording (Impact Detection)

In the event of an impact or sudden braking, the device's G-sensor will detect the event and automatically save the

corresponding video footage to a separate folder on the microSD card, preventing it from being overwritten by continuous recording.

5.4 Parking Surveillance Mode

The CS-91FH supports parking surveillance. When the vehicle is parked and the ignition is off, the device can continue to monitor for impacts or motion, recording events to protect your vehicle. This feature may require a constant power supply (sold separately or professional installation).

5.5 Menu Navigation and Settings

Use the 2.4-inch touch panel to navigate through the menu options. You can adjust settings such as video resolution, recording duration, G-sensor sensitivity, parking surveillance mode, and GPS notification preferences.



Figure 5.1: The rear view of the CELLSTAR CS-91FH drive recorder, highlighting its 2.4-inch display. The screen shows a split view of the front and rear camera feeds, along with on-screen controls for recording (REC), menu, and settings. Indicators for 2CAM, GPS, and VCI are also visible.

5.6 GPS Notification Function

The device provides audio and visual warnings for dangerous areas, such as accident-prone spots or speed camera locations, based on its GPS data. Data updates for this function are free.

For detailed information on specific menu options and advanced features, please refer to the full instruction manual provided in the package or download it from the official CELLSTAR website.

6. MAINTENANCE

6.1 microSD Card Management

The microSD card is a consumable item and has a limited lifespan. It is recommended to format the microSD card regularly (e.g., once a month) using the device's menu option or a computer to maintain optimal performance and prevent data corruption. Replace the microSD card if you experience frequent recording errors or data loss.

6.2 Cleaning the Device

Wipe the device's exterior and camera lenses with a soft, dry cloth. Do not use abrasive cleaners or solvents, as they may damage the device. Ensure the lenses are clean for clear recording.

6.3 Firmware Updates

Periodically check the CELLSTAR official website for firmware updates. Keeping your device's firmware up-to-date ensures optimal performance and access to new features.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	No power supply; loose connection.	Check the DC cord connection to the device and the vehicle's cigarette lighter socket. Ensure the vehicle's ignition is on.
Recording stops or errors occur.	MicroSD card full or corrupted; incompatible microSD card.	Format the microSD card. If the problem persists, try a new, compatible microSD card (Class 10/SDHC or higher recommended).
Video quality is poor or blurry.	Camera lens is dirty; protective film still on lens; improper installation angle.	Clean the camera lenses. Remove any protective film. Adjust the camera angle for a clear view.
GPS signal not acquired.	Vehicle is in an area with poor GPS reception (e.g., tunnel, underground parking); GPS antenna obstructed.	Move the vehicle to an open area. Ensure the GPS antenna (if external) is not obstructed. Allow time for signal acquisition.
Date and time are incorrect.	GPS not connected or time zone settings incorrect.	Ensure GPS is active. Manually set the date and time in the device settings if GPS time synchronization is not working.

8. SPECIFICATIONS

Feature	Specification
Model Name	CS-91FH
Manufacturer	CELLSTAR
Product Dimensions (Main Unit)	93(W) × 25(D) × 80(H) mm
Product Dimensions (Separate Camera)	34.5(W) × 16(D) × 62(H) mm
Weight	120 g
Camera Resolution	2 Million Pixels (Front & Rear)
Video Capture Resolution	Full HD (1080p)
Display	2.4-inch Touch Panel

Feature	Specification
GPS	Built-in GPS, Ultra-Fast GPS, Michibiki (QZSS) compatible
Special Features	Built-in GPS, Internal Memory, Night Vision, HDR, Parking Surveillance, Safety Driving Support, GPS Notification Function
Included Storage	32GB microSD Card
Mounting Type	Adhesive Mount
Color	Black

機能	CS-72FH	CS-91FH	CSD-790FHG
			
カメラ（位置・数）	前後2カメラ	前後2カメラ	前後2カメラ
カメラ画素数	前方：200万画素 後方：100万画素	前方：200万画素 後方：200万画素	前方：200万画素 後方：100万画素
カメラ画質（FullHD/WQHD）	前方：FullHD 後方：HD	FullHD	前方：FullHD 後方：HD
STARVIS有無	○(前方のみ)	○	○(前方のみ)
HDR/WDR	HDR	HDR	HDR
画角(視野角)	前方：水平115.8° 垂直60.2° 対角141.8° 後方：水平107° 垂直59° 対角127°	前方：水平119° 垂直62° 対角147° 後方：水平114° 垂直61° 対角141°	前方：水平115.8° 垂直60.2° 対角141.8° 後方：水平107° 垂直59° 対角127°
F値	本体カメラ：F2.0 リヤ・別体カメラ：F2.0	本体カメラ：F2.0 リヤ・別体カメラ：F2.0	本体カメラ：F2.0 リヤ・別体カメラ：F2.0
モニターサイズ	2.4インチ	2.4インチ	2.4インチ
フレームレート	30fps	30fps	30fps
駐車監視機能	○(要オプション)	○(要オプション)	○(要オプション)
安全運転支援機能	—	○	○
GPS機能	○	○	○
後続車接近お知らせ機能	—	○	—
先行車発信お知らせ機能	—	○	○
先行車接近お知らせ機能	—	○	○
車線逸脱お知らせ機能	—	○	○
WiFi機能	—	—	—
容量	32GB	32GB	16GB
定期フォーマット (メンテナンスフリー)	○	○	○
製品保証期間	3年	3年	3年
GPSお知らせ機能	○(データ更新無料)	○(データ更新無料)	○(データ更新無料)
対応車種	12/24V車	12/24V車	12/24V車
レーダー探知機相互通信	—	—	—

Figure 8.1: Technical drawing showing the precise dimensions of the CELLSTAR CS-91FH main drive recorder unit (93mm width, 51mm height) and the separate camera (34.5mm width, 34.5mm height).

9. WARRANTY AND SUPPORT

9.1 Manufacturer Warranty

The CELLSTAR CS-91FH Drive Recorder comes with a 3-year manufacturer's warranty. This warranty applies to products sold and shipped by Amazon.co.jp. 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 contact information provided in the original instruction manual or on the official CELLSTAR website.

You can also visit the official CELLSTAR brand store on Amazon for more information:[CELLSTAR Amazon Store](#)

For information regarding the Japan Drive Recorder Council (JDRC) and related services, you may visit:[JDRC Official Website](#)

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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

Answered questions about this manual

How do I change the language from Japanese to English on the CELLSTAR CS-91FH drive recorder?

Based on the available documentation for the CELLSTAR CS-91FH, this product is manufactured specifically for the Japanese domestic market ("Made in Japan"). Most Cellstar drive recorders designed for the Japanese market do not include...

[Read full answer](#)

