

CELLSTAR CS-81WQH

CELLSTAR Drive Recorder CS-81WQH User Manual

MODEL: CS-81WQH

Brand: CELLSTAR

1. INTRODUCTION

This manual provides detailed instructions for the proper use and maintenance of your CELLSTAR CS-81WQH Drive Recorder. The CS-81WQH is a high-performance front-facing drive recorder featuring WQHD (3.7 million pixels) ultra-high image quality, HDR, STARVIS technology, and a 2.4-inch display. It includes advanced functions such as parking surveillance, safety driving support, and a GPS notification system with free data updates. Designed and manufactured in Japan, this product comes with a 3-year warranty.

The device records vehicle position and speed using ultra-fast GPS. Its unique microSD card maintenance-free system prevents file fragmentation and reduces error rates, eliminating the need for periodic formatting. Night Vision capability ensures clear recordings even in low-light conditions like nighttime or tunnels.



Figure 1: Front view of the CELLSTAR CS-81WQH Drive Recorder. This image shows the compact, black device with the lens prominently displayed on the right side and the 'CellStar' logo at the top.

2. FEATURES

The CELLSTAR CS-81WQH Drive Recorder is equipped with several key features to enhance your driving safety and recording experience:

- **WQHD Ultra-High Image Quality:** Records at 3.7 million pixels, surpassing Full HD for clearer video.
- **Quick Recording Button:** A one-touch button to save specific scenes into a separate folder, preventing overwriting.
- **GPS Notification Function:** Provides alerts for dangerous areas using a database of over 39,000 GPS data points across 10 types.
- **Micro SD Card Maintenance-Free:** Proprietary system ensures stable recording by preventing file fragmentation, eliminating the need for periodic formatting.
- **Night Vision:** Equipped with STARVIS technology for clear recording in low-light conditions, such as at night or in tunnels.
- **Parking Surveillance Function:** Monitors your vehicle while parked (optional accessories may be required).

- **Safety Driving Support Function:** Assists drivers with various alerts.

Figure 2: This image highlights the key features of the CS-81WQH, including its 3.7 million pixel WQHD recording, 2.4-inch touch panel, GPS notification function with over 39,000 data points, microSD maintenance-free system, Night Vision, and 3-year warranty. It also mentions the product's 'Japan Quality' and domestic production.

3. PACKAGE CONTENTS

Please verify that all the following items are included in your product package:

- Drive Recorder Main Unit
- Mount Base
- Ball Joint
- DC Cord (3-pole DC plug)
- Double-sided Tape (for front glass and dashboard)
- 32GB microSD Card (Class 10/SDHC compliant, with dedicated viewer software)
- Cord Clips x 5
- Degreasing Cleaner
- User Manual



Figure 3: This diagram illustrates all the components included in the CS-81WQH package, such as the main unit, mount base, ball joint, DC cord, double-sided tape, 32GB microSD card, cord clips, degreasing cleaner, and user manual.

4. SETUP

4.1 Mounting the Drive Recorder

1. Choose a location on your windshield that does not obstruct your view and allows the camera to capture a clear view of the road ahead. Ensure the area is clean and dry.
2. Use the provided degreasing cleaner to thoroughly clean the chosen mounting surface on the windshield.
3. Attach the mount base to the drive recorder using the ball joint.
4. Peel off the protective film from the double-sided tape on the mount base.
5. Firmly press the mount base onto the cleaned windshield surface for at least 30 seconds. For dashboard mounting, use the appropriate double-sided tape.
6. Adjust the camera angle to ensure the road ahead is centered in the display.

4.2 Power Connection

1. Insert the 32GB microSD card into the microSD card slot on the drive recorder.
2. Connect the DC cord (3-pole DC plug) to the power input port on the drive recorder.
3. Plug the other end of the DC cord into your vehicle's cigarette lighter socket or a compatible 12V/24V power outlet.
4. Use the provided cord clips to neatly route the power cable along the edge of the windshield or dashboard, ensuring it does not interfere with driving controls or airbags.
5. Once the vehicle's ignition is turned on, the drive recorder should power on automatically and begin recording.

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

The CS-81WQH typically starts recording automatically when the vehicle's ignition is turned on. The 2.4-inch display will show the live camera view and recording status indicators.



Figure 4: Rear view of the CELLSTAR CS-81WQH, showing the 2.4-inch display with live recording footage, menu options, and status icons like 'REC' and GPS signal. The quick recording button is visible on the right side of the screen.

5.2 Quick Recording

To save a specific moment or event that you wish to preserve, use the Quick Recording button. This feature saves the current recording segment into a separate folder, preventing it from being overwritten by continuous loop recording.

- During recording, simply touch the designated Quick Recording button on the screen.
- The recorded segment will be stored in a dedicated folder.
- The on-screen button can be toggled between visible and hidden modes.
- Note: If the maximum storage capacity for quick recordings is exceeded, older data will be automatically deleted sequentially.



Figure 5: This image displays the device screen with the 'Quick Recording' button highlighted, indicating its function to save footage to a separate folder with a single touch.

5.3 Parking Surveillance Function

The parking surveillance function allows the drive recorder to monitor your vehicle even when parked. This feature requires an optional constant power supply cable (e.g., GDO-10) to function correctly.

- When the vehicle's ignition is turned off, the device enters parking surveillance mode.

- It records events triggered by motion detection or impact detection.
- The sensitivity of motion and impact detection can be adjusted in the settings menu.

5.4 GPS Notification Function

The built-in GPS provides location and speed data, and also enables the GPS notification function to alert you to various driving hazards.

- The device contains a database of over 39,000 GPS data points across 10 types of dangerous areas.
- When approaching a registered point, the device will provide audio and visual warnings.
- GPS data updates are available free of charge. For more information on GPS data and safety driving support, please refer to the [Japan Drive Recorder Council website](#).

6. MAINTENANCE

6.1 MicroSD Card

The CS-81WQH features a proprietary microSD card maintenance-free system. This system optimizes file management to prevent fragmentation and reduce error rates, meaning you do not need to perform periodic formatting of the microSD card.

- Ensure the microSD card is securely inserted before operation.
- If you experience any recording issues, try removing and reinserting the card.
- While periodic formatting is not required, if you wish to clear all data or resolve persistent issues, you can format the card via the device's menu settings.

6.2 General Care

- Keep the device clean by wiping it with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- Ensure the camera lens is clean and free from dust or smudges for optimal recording quality.
- Avoid exposing the device to extreme temperatures or direct sunlight for prolonged periods when not in use.

7. TROUBLESHOOTING

If you encounter any issues with your CS-81WQH Drive Recorder, please refer to the following common troubleshooting steps:

- **Device does not power on:** Check the power cable connection to both the device and the vehicle's power outlet. Ensure the vehicle's ignition is on. Test the power outlet with another device if possible.
- **Recording issues (e.g., blurry footage, no recording):** Ensure the microSD card is properly inserted. Check if the lens is clean. Verify that the card is not full (though the maintenance-free system should manage this, a very old or faulty card might cause issues).
- **GPS signal not acquired:** Ensure the device has a clear view of the sky. Avoid mounting locations that might block GPS signals (e.g., under metallic tinting). It may take a few minutes to acquire a signal after startup.
- **Quick recording button unresponsive:** Ensure the device is actively recording. Check if the touch screen is clean and free from obstructions.
- **Parking surveillance not working:** Verify that the optional constant power supply cable is correctly installed and connected. Check the parking surveillance settings in the device menu.

- **Unexpected warnings or alerts:** Review the safety driving support settings in the menu. Adjust sensitivity levels if warnings are too frequent or inaccurate.

If the problem persists after attempting these steps, please contact CELLSTAR customer support for further assistance.

8. SPECIFICATIONS

The following table details the technical specifications for the CELLSTAR CS-81WQH Drive Recorder:

Feature	Specification
Brand	CELLSTAR
Model Name	CS-81WQH
Product Dimensions (D x W x H)	2.33 x 8.4 x 5.1 cm (0.92 x 3.31 x 2.01 inches)
Weight	100 g (0.22 lbs)
Video Capture Resolution	WQHD (3.7 Million Pixels / 1440p)
Display Size	2.4 inches
Special Features	Built-in GPS, Internal Memory, Night Vision (STARVIS), HDR
Mounting Type	Adhesive Mount
Color	Black
Control Method	Touch
Included Components	DC Cigarette Cord, 32GB microSD Card, Mount Base Set, User Manual, Double-sided Tape
Compatible Vehicle Type	Car
Power Supply Voltage	12V/24V
Warranty	3 Years



Figure 6: This table provides a comparison of various CELLSTAR drive recorder models, including the CS-81WQH, detailing specifications such as camera pixels, video quality, HDR/STARVIS presence, monitor size, frame rate, and included features like parking surveillance and GPS.

9. WARRANTY AND SUPPORT

9.1 Product Warranty

The CELLSTAR CS-81WQH Drive Recorder 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 contact information provided in the product packaging or on the official CELLSTAR website.