

Thinkware Q850

Thinkware Q850 Dash Cam User Manual

MODEL: Q850 FRONT & REAR CAMERA SYSTEM

1. INTRODUCTION

Welcome to the user manual for your Thinkware Q850 Dash Cam. This manual provides comprehensive instructions for the installation, operation, and maintenance of your new dash camera system. Please read this manual thoroughly before using the device to ensure proper functionality and to maximize your driving safety and recording experience.

The Thinkware Q850 is a high-performance dash cam system designed to capture clear, detailed footage of your journeys and provide advanced surveillance when parked. Featuring QHD 1440p front recording and 1080p HD rear recording, Super Night Vision, and connected app capabilities, it offers reliable protection and convenience.

2. PRODUCT OVERVIEW

2.1 Package Contents

Ensure all items are present in your package:

- Thinkware Q850 Front Dash Cam
- Thinkware Rear Camera
- Hardwire Power Cable
- Mount (with adhesive tape)
- Micro SD Card (64GB included)
- SD Card Adaptor



Figure 2.1: Thinkware Q850 Dash Cam system components. This image displays the main Q850 front dash cam unit, the smaller rear camera, the hardwire power cable, a 64GB Micro SD card, and a smartphone screen showing the Thinkware Connected app interface.

2.2 Key Features

The Thinkware Q850 Dash Cam system offers a range of advanced features for optimal performance and user experience:

- **QHD 1440p Front & Full HD 1080p Rear Recording:** Captures crisp, clear footage with a wide 125-degree viewing angle.
- **Sony STARVIS Image Sensor:** Ensures superior video quality, especially in low-light conditions.
- **Super Night Vision 2.0:** Enhanced low-light recording capabilities for both driving and parking modes.
- **Built-in Wi-Fi & Bluetooth:** Seamless connectivity with the Thinkware Connected App for remote access and settings management.
- **Advanced Parking Mode:** Includes Time Lapse, Energy Saving, Motion & Impact Detection, and Super Night Vision for 24/7 vehicle surveillance.
- **Built-in GPS:** Records driving location and speed, and provides speed camera alerts.
- **Road Safety Warning System (ADAS):** Features like Forward Collision Warning and Lane Departure Warning.

- **Thermal Self-Protection:** Protects the dash cam from overheating.
- **Dewarping Technology:** Minimizes distortion for a more natural view of the road.

FEATURES AT A GLANCE



2K Front Cam & 1080p HD Rear Cam

Crisp and clear footage



Built-in Wi-Fi

Android & iOS device compatible



Thermal Self Protection

Protects your dash cam from overheating



Super Night Vision 2.0

Quality footage in low-light



Road Safety Warning System

Forward collision, lane and vehicle departure warnings



Energy Saving Parking Mode

Reduce power consumption to record in parking mode



Safety Camera Alert

Receive alerts on the road



Time Lapse In Parking Mode

Footage recorded at 2fps for longer recordings



Figure 2.2: Overview of Thinkware Q850's key features. This infographic highlights features such as 2K Front Cam & 1080p HD Rear Cam, Built-in Wi-Fi, Thermal Self Protection, Super Night Vision 2.0, Road Safety Warning System, Energy Saving Parking Mode, Safety Camera Alert, and Time Lapse In Parking Mode.

2 K FOOTAGE



CAPTURING 4 TIMES MORE CLARITY
THAN HD RESOLUTION

Figure 2.3: Visual comparison of video resolutions. This image demonstrates the clarity difference between QHD (2560x1440), FHD (1920x1080), and HD (1280x720) footage, emphasizing the Q850's superior 2K QHD recording.

3. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your dash cam. It is recommended to have the hardwiring professionally installed to prevent battery drain.

3.1 Mounting the Front Dash Cam

1. Clean the windshield area where the dash cam will be mounted. Ensure it is free of dust and grease.
2. Attach the adhesive mount to the front dash cam.
3. Peel off the protective film from the adhesive tape on the mount.
4. Position the dash cam on the windshield, ideally behind the rearview mirror, ensuring it does not obstruct your view. Press firmly for at least 30 seconds to secure.

3.2 Connecting the Rear Camera

1. Mount the rear camera on the rear windshield using its adhesive mount, ensuring a clear view.
2. Connect the rear camera cable to the dedicated port on the front dash cam.
3. Route the cable neatly along the vehicle's headliner and pillars to avoid interference with driving.

3.3 Power Connection (Hardwiring)

The Q850 includes a hardwire lead for continuous power and parking mode functionality. This connection should be made to your vehicle's fuse box.

- Connect the ACC (Accessory) wire to a fuse that is powered only when the ignition is on.
- Connect the BATT (Battery) wire to a fuse that is continuously powered, even when the ignition is off.
- Connect the GND (Ground) wire to a metal bolt or screw on the vehicle's chassis.
- Plug the hardwire cable into the DC-IN port of the front dash cam.

Warning: Incorrect hardwiring can lead to vehicle battery drain or electrical issues. Professional installation is highly recommended.

3.4 Inserting the SD Card

1. Ensure the dash cam is powered off.
2. Locate the Micro SD card slot on the dash cam.
3. Insert the provided 64GB Micro SD card into the slot until it clicks into place.
4. The dash cam will automatically format the card upon first use or if a new card is inserted.

3.5 Initial Setup via Mobile App

The Thinkware Connected App (available for iOS and Android) is essential for initial setup and accessing advanced features.

1. Download the "Thinkware Connected" app from your device's app store.
2. Turn on the dash cam.
3. Enable Bluetooth on your smartphone and open the Thinkware Connected app.
4. Follow the in-app instructions to pair your dash cam via Bluetooth and then connect via Wi-Fi for full functionality.
5. Through the app, you can adjust settings, view live footage, download recordings, and update firmware.

4. OPERATION

4.1 Recording Modes

The Q850 automatically switches between recording modes based on vehicle status:

- **Continuous Recording:** Activated automatically when the vehicle's ignition is on. Records continuously in 1-minute segments.
- **Event Recording:** Triggered by impacts or sudden braking/acceleration detected by the G-sensor. Footage from 10 seconds before and 10 seconds after the event is saved separately.
- **Manual Recording:** Initiated by pressing the manual recording button on the dash cam. Records a segment of footage (e.g., 20 seconds) for specific incidents.

4.2 Parking Surveillance Mode

When the vehicle's ignition is off, the Q850 automatically enters Parking Surveillance Mode (requires hardwiring).

This mode protects your vehicle 24/7.

- **Motion & Impact Detection:** Records 20-second clips (10s before, 10s after) when motion is detected or an impact occurs.
- **Time Lapse Recording:** Records continuously at 2 frames per second (2fps) to save storage space, then converts to normal speed upon playback.
- **Energy Saving Parking Mode:** The dash cam enters a low-power sleep mode and wakes up to record only when an impact is detected, significantly extending parking surveillance duration.
- **Super Night Vision 2.0 (Parking Mode):** Enhances video brightness in low-light parking environments.

ADVANCED PARKING MODE



Figure 4.1: Visual representation of Advanced Parking Mode features. This image illustrates Time Lapse (2 frames per second), Energy Saving (extends Parking Mode, wakes on impact), Super Night Vision (visible video in low light environments when parked), and Motion & Impact Detection (20-second video, 10s before & 10s after).

SUPER NIGHTVISION 2.0



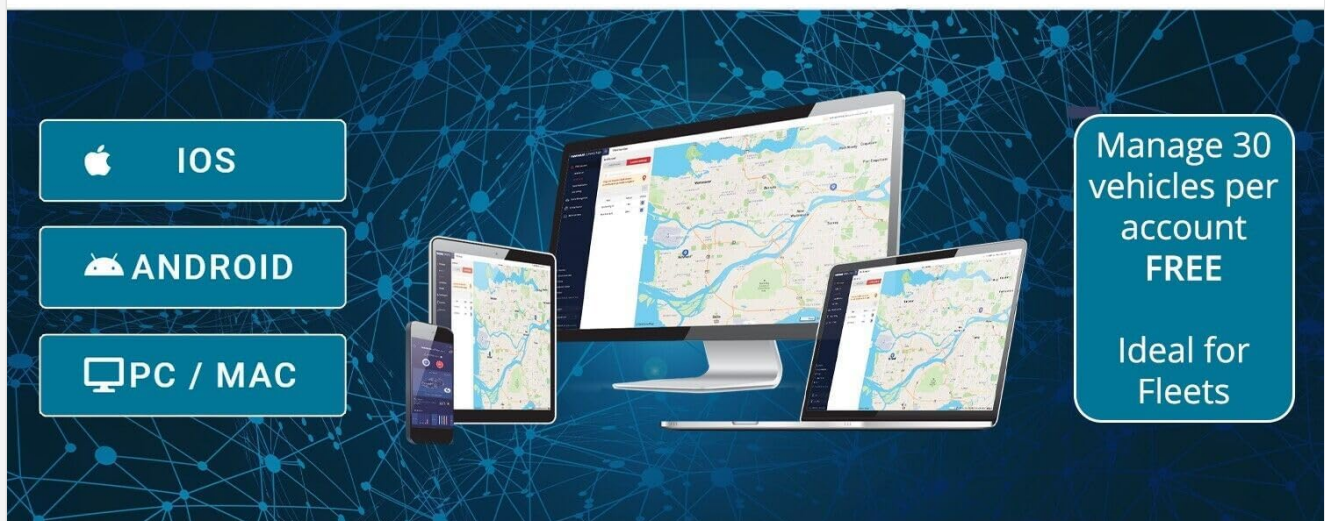
Figure 4.2: Super Night Vision 2.0 in action. This image shows a night scene with "SUPER NIGHT VISION 2.0 ON" overlay, demonstrating improved visibility in dark conditions, ideal for nightly drives and overnight parking.

4.3 Thinkware Connected App Features

The Thinkware Connected App provides real-time access and control over your dash cam via Bluetooth and Wi-Fi/LTE connection (LTE requires a separate data source).

- **Remote Live View:** Monitor your vehicle's surroundings in real-time from anywhere.
- **Impact Notifications:** Receive alerts on your smartphone if an impact is detected while driving or parked.
- **Vehicle Location:** Track your vehicle's current location.
- **Driving History:** Review past routes and driving data.
- **Captured Image of Most Recent Parking:** View a snapshot of the scene when parking mode activates.
- **Send Emergency Message:** Option to send an emergency message with location.

THINKWARE CONNECTED



Strong Impact
Notifications
while Driving



Impact Notifications
when Parked



Send Emergency
Message



Remote
Live View



Vehicle Status &
Driving History



Captured Image of
Most Recent Parking

Figure 4.3: Thinkware Connected App interface and features. This image shows the app running on iOS, Android, PC, and Mac devices, highlighting features such as Strong Impact Notifications while Driving, Impact Notifications when Parked, Send Emergency Message, Remote Live View, Vehicle Status & Driving History, and Captured Image of Most Recent Parking.

THINKWARE CONNECTED



To enable connected features, the dash cam will need access to a data source.

Connecting the dash cam to a mobile hotspot device or a Wi-Fi network with Internet access will consume data.

To easily access this in your vehicle, a SIM card device is recommended. Carrier/Service provider charges may apply.

To connect the dash cam to the internet, use the Thinkware Dash Cam Link App. Once the dash cam is connected to the internet, you can go to the Thinkware CONNECTED app to get access to CONNECTED features.

Figure 4.4: Explanation of data source for Thinkware Connected features. This image clarifies that a mobile hotspot, Wi-Fi network, or SIM card device is needed to enable connected features, and carrier charges may apply.

4.4 Road Safety Warning System (ADAS)

The Q850 includes ADAS features to enhance driving safety:

- **Forward Collision Warning System (FCWS):** Alerts the driver when approaching too close to the vehicle ahead.
- **Lane Departure Warning System (LDWS):** Alerts the driver if the vehicle drifts out of its lane.
- **Front Vehicle Departure Warning (FVDW):** Notifies the driver when the vehicle in front starts to move.

4.5 GPS and Speed Camera Alerts

With built-in GPS, the Q850 provides accurate location and speed data, and offers alerts for speed cameras and red light cameras to help you drive safely and avoid penalties.

5. MAINTENANCE

5.1 SD Card Management

Regular maintenance of the Micro SD card is essential for reliable recording:

- **Formatting:** It is recommended to format the SD card regularly (e.g., once a month) using the Thinkware Connected App or the dash cam itself to prevent data corruption and ensure optimal performance.
- **Lifespan:** SD cards have a limited lifespan due to continuous overwriting. Replace the SD card every 6-12 months, depending on usage, to avoid recording issues. Use only genuine Thinkware or high-endurance dash cam specific SD cards.
- **Removal:** Always power off the dash cam before removing the SD card to prevent data loss or card damage.

5.2 Firmware Updates

Keep your dash cam's firmware updated to ensure the latest features, bug fixes, and performance improvements.

- Firmware updates can be performed via the Thinkware Connected App or by downloading the firmware file from the Thinkware website and manually updating using the SD card.
- Follow the instructions provided with the firmware update carefully.

5.3 Cleaning the Device

Gently wipe the dash cam lens and body with a soft, dry cloth. Do not use harsh chemicals or abrasive materials, as this may damage the device.

6. TROUBLESHOOTING

If you encounter issues with your Thinkware Q850, refer to the following common problems and solutions:

Problem	Possible Cause / Solution
Dash cam does not power on.	Check power cable connection. Ensure vehicle's ignition is on (if not hardwired for parking mode). Verify fuse connections if hardwired.
Recording stops or footage is corrupted.	SD card issue. Format the SD card. Replace the SD card if the issue persists (use high-endurance cards).
Wi-Fi connection fails.	Ensure Wi-Fi is enabled on the dash cam and your smartphone. Restart both devices. Re-pair via Bluetooth first.
Parking mode not activating.	Verify hardwire installation. Ensure the BATT wire is connected to a constant power source. Check parking mode settings in the app.
GPS not working / no speed data.	Ensure the dash cam has a clear view of the sky. It may take a few minutes to acquire a signal.
Dash cam is hot to the touch.	This is normal during operation, especially in warm environments. The Q850 has thermal self-protection. If it overheats excessively and shuts down, ensure it's not exposed to direct sunlight for prolonged periods when parked.

If the problem persists after trying these solutions, please contact Thinkware customer support.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Name	Q850
Front Camera Resolution	QHD (2560x1440p)
Rear Camera Resolution	Full HD (1920x1080p)
Image Sensor	Sony STARVIS
Connectivity	Bluetooth, Wi-Fi
Special Features	Super Night Vision 2.0, Advanced Parking Mode, ADAS, Built-in GPS
Included Components	Dash Cam with Rear Cam, Power Cable, Mount, SD Card Adaptor, Micro SD Card
Mounting Type	Adhesive Mount
Product Dimensions	10.7 x 3 x 6 cm (Front Cam)
Weight	610 g (total package)
Country of Origin	Korea, Republic of

8. WARRANTY AND SUPPORT

Thinkware products are manufactured with high-quality standards. For specific warranty information, please refer to the warranty card included with your product or visit the official Thinkware website. Keep your proof of purchase for warranty claims.






For technical support, firmware updates, or further assistance, please visit the official Thinkware support page or contact their customer service directly. You can often find detailed FAQs and troubleshooting guides on their website.

Thinkware Official Website: www.thinkware.com



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Related Documents - Q850

<p>THINKWARE DASH CAM™ Quick Start Guide</p> <p>ARC</p>	<p>Thinkware Dash Cam ARC Quick Start Guide</p> <p>A concise guide to setting up and using your Thinkware Dash Cam ARC, including powering the device, downloading the companion app, connecting to the app, installing front and rear cameras, and understanding dash cam settings.</p>
<p>THINKWARE DASH CAM™ U3000 使用者指南</p> 	<p>THINKWARE DASH CAM U3000 User Manual</p> <p>Comprehensive user manual for the THINKWARE DASH CAM U3000, covering installation, recording functions, mobile and PC viewer usage, settings, troubleshooting, and specifications. This guide provides detailed instructions for optimal product use and maintenance.</p>
<p>THINKWARE DASH CAM™ U3000 用户手册</p> 	<p>THINKWARE U3000 Dash Cam User Manual</p> <p>Comprehensive user manual for the THINKWARE U3000 Dash Cam, covering installation, features, settings, troubleshooting, and software usage. Learn how to install, operate, and maintain your THINKWARE U3000.</p>
<p>THINKWARE DASH CAM™ U1000^{Plus} User Guide</p> 	<p>THINKWARE DASH CAM U1000 Plus User Guide</p> <p>Comprehensive user guide for the THINKWARE DASH CAM U1000 Plus, covering installation, features, settings, and troubleshooting for this 4K UHD vehicle dash camera.</p>
<p>THINKWARE DASH CAM™ U1000 User Guide</p>  <p>© 2018</p>	<p>THINKWARE U1000 Dash Cam User Guide</p> <p>Comprehensive user guide for the THINKWARE U1000 dash cam, detailing installation, features, settings, mobile and PC connectivity, and troubleshooting for optimal vehicle recording.</p>
<p>THINKWARE DASH CAM™ Q850 User Guide</p> 	<p>THINKWARE Q850 Dash Cam User Guide</p> <p>Comprehensive user guide for the THINKWARE Q850 dash cam, detailing installation, operation, settings, troubleshooting, and firmware updates for optimal performance.</p>

