AZDOME PG17S-R

AZDOME PG17S-R Mirror Dash Cam User Manual

Model: PG17S-R

1. Introduction

The AZDOME PG17S-R is a mirror-type dash camera designed to enhance driving safety and provide reliable recording. This device features a 12-inch touchscreen display, 2.5K front camera, and 1080P rear camera for simultaneous recording. Key functionalities include GPS for location and speed tracking, a supercapacitor for durability, Sony STARVIS sensor for superior low-light performance, Wide Dynamic Range (WDR) technology, G-sensor for emergency event detection, and comprehensive electromagnetic interference (EMI) countermeasures. Please read this manual thoroughly before operating the device to ensure proper installation and usage.

2. Package Contents

Verify that all items listed below are included in your package:

- AZDOME PG17S-R Main Unit (Mirror Dash Cam)
- Rear Camera (with 9-meter extension cable)
- GPS Antenna
- Car Charger (Cigarette Lighter Power Cord)
- 32GB Class10 microSD Card (AZDOME branded)
- Mirror Mounting Bands (x4)
- Wiring Buckle Parts
- User Manual (Japanese)

Image 2.1: Illustration of the AZDOME PG17S-R Mirror Dash Cam and its included accessories, such as the rear camera, GPS antenna, car charger, microSD card, and mounting bands.

3. Setup and Installation

3.1 Important Installation Notes

- Always use the provided AZDOME power cord. Using incompatible power cords from other brands may prevent settings from saving after the engine is restarted.
- Before first use, format the microSD card in the device settings. It is recommended to format the memory card approximately twice a month to maintain optimal performance.

3.2 Main Unit Installation

1. Attach the main unit to your vehicle's existing rearview mirror using the provided rubber mounting bands. Ensure it is securely fastened and does not obstruct your view.
2. Connect the car charger to the main unit's power input and plug it into your vehicle's cigarette lighter socket. Route the cable neatly to avoid interference with driving.

3.3 Rear Camera Installation

1. Mount the rear camera at the back of your vehicle, typically above the license plate or inside the rear window. Use the adhesive mount for secure placement.
2. Connect the rear camera to the main unit using the 9-meter extension cable. Route the cable carefully along the vehicle's interior trim to conceal it and prevent damage.

3.4 GPS Antenna Installation

1. Insert the GPS module plug into the main unit.
2. Attach the GPS antenna securely to your vehicle's dashboard, ensuring it has a clear view of the sky for optimal signal reception.
3. Allow some time for the GPS module to acquire a signal, especially during the first use or after a long period of inactivity.

Image 3.1: Diagram illustrating the installation of the mirror dash cam, showing the main unit attached to the rearview mirror, the rear

camera placement, and cable routing.

Image 3.2: Close-up of the GPS antenna, indicating its connection to the main unit and placement on the dashboard for signal reception.

4. Operating Instructions

4.1 Power On/Off

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

4.2 Touchscreen Operation

The 12-inch display is a touchscreen. Swipe left/right to navigate menus and tap icons to select options or adjust settings such as brightness and camera display angle.

4.3 Recording Modes

The dash cam supports simultaneous front and rear recording in various display modes.

- **Continuous Recording:** The device records continuously when powered on. Footage is saved in segments (e.g., 1, 3, or 5 minutes) and older files are overwritten by new ones when the memory card is full (Loop Recording).
- **Emergency Recording (G-Sensor):** The built-in G-sensor detects sudden impacts or collisions. When an event is detected, the current video segment is automatically locked and saved to a protected folder, preventing it from being overwritten by loop recording.
- **Parking Monitoring:** When the vehicle is parked and the ignition is off, the dash cam can detect impacts and automatically record a short video. This feature requires a hardwire kit (sold separately) for continuous power.

4.4 Display Modes

Press the power button briefly or tap the screen to cycle through the following display modes:

- Rear Camera Full Screen
- Split Screen (Front and Rear Cameras)
- Front Camera Full Screen
- LCD Off (Screen functions as a traditional rearview mirror while recording continues in the background)

Image 4.1: The 12-inch display showing various screen modes, including full-screen front view, full-screen rear view, and split-screen view.

Image 4.2: Visual representation of the four display modes available on the AZDOME PG17S-R, including rear camera, split view, front camera, and screen off.

4.5 GPS Functionality

The integrated GPS module records your vehicle's speed, direction, location, and time data alongside the video footage. This information can be reviewed using the AZDOME Player software on a computer.

- **AZDOME Player:** Download the software from the official AZDOME website (azdome.hk) under 'AZDOME Player & APP' > 'GPS Player'.
- **Pre-configured Settings:** The device is pre-set to GMT+9 for time zone and KM/H for speed units. These options are not available in the device menu.

Image 4.3: A laptop screen displaying the AZDOME Player software, showing video playback with overlaid GPS data including speed, direction, and a map of the driving route.

5. Advanced Features

5.1 High-Resolution Imaging

The AZDOME PG17S-R utilizes a Sony STARVIS sensor and F1.8 aperture lens to deliver clear 2.5K (1440P) front and 1080P rear video. This combination ensures high sensitivity and image quality, particularly in low-light conditions, capturing critical details.

Image 5.1: Comparison of video quality with and without STARVIS technology in a low-light street scene, demonstrating enhanced clarity and detail with STARVIS.

5.2 Wide Dynamic Range (WDR)

WDR technology automatically adjusts exposure to capture balanced images in challenging lighting conditions, such as strong backlighting or tunnels. This prevents overexposure in bright areas and underexposure in dark areas, ensuring important details are visible.

Image 5.2: A comparison showing a license plate with WDR enabled (clear) versus WDR disabled (blurry), highlighting the benefit of WDR in capturing details.

5.3 Supercapacitor Power Supply

The device is equipped with a supercapacitor instead of a traditional lithium battery. This provides enhanced durability and reliability, especially in extreme temperatures (both high and low), reducing the risk of overheating or battery-related issues.

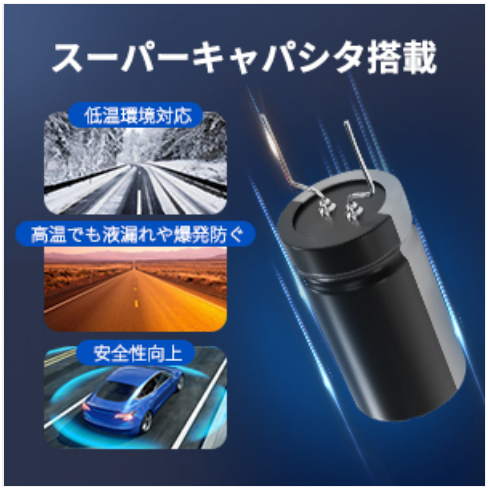


Image 5.3: Graphic illustrating the benefits of a supercapacitor, including resistance to low temperatures, prevention of liquid leakage/explosion at high temperatures, and improved safety.

5.4 EMI Countermeasures

The dash cam and its cables are designed with electromagnetic interference (EMI) countermeasures. This minimizes interference with other electronic devices in your vehicle, such as car navigation systems or digital TV tuners.

Image 5.4: Comparison showing a clear rear view with EMI countermeasures enabled versus a noisy, pixelated view without, indicating effective noise reduction.

5.5 LED Signal Light Compatibility

The device is optimized to record LED traffic signals across Japan by adjusting the frame rate to 27.5fps. This ensures that traffic lights are clearly captured and do not appear to flicker or disappear in recordings, providing reliable evidence in case of an incident.

Image 5.5: A clear image of a green LED traffic light, demonstrating the dash cam's compatibility with LED signals.

6. Maintenance

6.1 MicroSD Card Management

Regular formatting of the microSD card is crucial for optimal performance and to prevent recording errors. It is recommended to format the card approximately twice a month.

6.2 Cleaning the Device

Use a soft, dry cloth to clean the display and camera lenses. Avoid using abrasive cleaners or solvents that could damage the surfaces.

7. Troubleshooting

- **Device does not power on:** Ensure the power cable is securely connected to both the dash cam and the vehicle's power outlet. Verify the vehicle's ignition is on. Check the fuse in the car charger.

- **Settings are not saved:** Confirm you are using the original AZDOME power cord. Incompatible power cords may prevent settings from being retained after the vehicle is turned off.
- **Poor video quality / Blurry images:** Clean the camera lenses. Ensure the protective film has been removed from the lenses. Check if WDR is enabled for challenging lighting conditions. Format the microSD card.
- **GPS signal not acquired:** Ensure the GPS antenna is securely connected and placed on the dashboard with a clear view of the sky. Allow sufficient time for signal acquisition.
- **Interference with other electronics:** The device includes EMI countermeasures. If interference occurs, ensure all cables are properly routed and connected. Contact support if the issue persists.
- **Rear camera image is mirrored or incorrect:** Check the device settings for a mirror image option for the rear camera. Ensure the rear camera is installed correctly.

8. Specifications

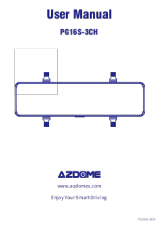
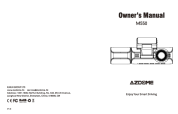
Model	PG17S-R
Screen Size	12 inches (31 cm diagonal)
Front Camera Resolution	2.5K (1440p)
Rear Camera Resolution	1080P
Lens Aperture	F1.8
Sensor	Sony STARVIS CMOS Sensor
Wide Angle	170° (Front), 150° (Rear)
Power Source	Supercapacitor
GPS	Built-in GPS module for speed, location, time data
Recording Features	Continuous Recording, Emergency Recording (G-Sensor), Parking Monitoring, Loop Recording
Display Type	LCD Touchscreen
Mounting Method	Adhesive (Rear Camera), Mirror Mounting Bands (Main Unit)
Special Features	WDR, Night Vision, LED Signal Compatibility (27.5fps), EMI Countermeasures, SuperView Image Processing
Dimensions	30 x 1.8 x 7.2 cm
Weight	1.07 kg

9. Warranty and Support

The AZDOME PG17S-R Mirror Dash Cam comes with a **1-year warranty** from the date of purchase. If you encounter any issues or have questions regarding the product, please do not hesitate to contact AZDOME customer support. Contact information can be found on the last page of your included user manual.
For further assistance, please refer to the official AZDOME website or the contact details provided in your physical

user manual.

Related Documents - PG17S-R

	AZDOME PG17 Pro 4K+2.5K Mirror Dash Cam User Manual An introduction and user manual for the AZDOME PG17 Pro mirror dash cam, detailing its features, installation, specifications, and operation. Learn how to use your 4K+2.5K dash cam for optimal performance.
	AZDOME M01 Max 2 Channel Dash Cam User Manual Comprehensive user manual for the AZDOME M01 Max 2 Channel Dash Cam, detailing specifications, installation, features, and button functions. Includes setup guide and customer service information for optimal vehicle safety.
	AZDOME PG02 Dashcam User Manual Comprehensive user manual for the AZDOME PG02 dashcam, covering installation, features, operation, troubleshooting, and specifications. Includes details on GPS usage, ADAS calibration, firmware updates, and product care.
	AZDOME M550 Pro User Manual - 3-Channel Dash Cam Installation & Operation Guide Comprehensive user manual for the AZDOME M550 Pro 3-channel dash cam, covering installation, operation, specifications, and troubleshooting. Learn how to set up and use your M550 Pro dashcam for optimal driving safety and recording.
	AZDOME PG16S-3CH Dash Cam User Manual Comprehensive user manual for the AZDOME PG16S-3CH dash cam, covering installation, features, system settings, and troubleshooting.
	AZDOME M550 Dash Cam Owner's Manual and Specifications Comprehensive owner's manual for the AZDOME M550 Dash Cam, covering installation, specifications, features like loop recording, motion detection, GPS tracking, Wi-Fi connectivity, and troubleshooting. Learn how to set up and optimize your M550 car camera for smart driving.

[pdf] User Manual

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