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ATOTOEXCEL AC-HN9FR

ATOTOEXCEL AC-HN9FR AHD 1080p Front Dash Camera User Manual

Model: AC-HN9FR

1. Product Overview

The ATOTOEXCEL AC-HN9FR is an AHD 1080p front dash camera designed to record your driving journey with high clarity. It features 30 frames per second recording, Starlight Night Vision for low-light conditions, Wide Dynamic Range (WDR) for balanced exposure, and a 136-degree wide-angle lens to capture a broad view of the road. Integrated G-Sensor, Parking Monitoring, Loop Recording, and GPS Tracking Playback functionalities ensure comprehensive coverage and evidence protection. This camera is specifically designed for compatibility with ATOTO V10 and S8 GEN4 series car stereos.



Image: The ATOTOEXCEL AC-HN9FR front dash camera, highlighting its key features including 1080p resolution, starlight night vision, WDR, 136° wide angle, loop recording, and automatic recording start.

2. Package Contents

Please check the package for the following items:

- AC-HN9FR Front Dash Camera (x1)
- Adapter Cable (x1)
- Cable Frame (x1)
- Extension Cable (3.5m / 11.5ft) (x1)
- Online Manual Guide Page (x1)



Image: All components included in the AC-HN9FR package: the front dash camera, a 3.5m extension cable, cable frames, and an adapter cable.

3. Setup and Installation

Follow these steps to install your ATOTOEXCEL AC-HN9FR Front Dash Camera:

1. **Choose Mounting Location:** Select a suitable position on your front windshield, typically near the rearview mirror, ensuring it does not obstruct your view. The camera is designed for ceiling mounting.
2. **Clean Surface:** Ensure the mounting surface on the windshield is clean and dry for secure adhesion.
3. **Attach Camera:** Securely attach the dash camera to the chosen location using its mounting mechanism.
4. **Connect Adapter Cable:** Connect the adapter cable to the dash camera.
5. **Route Extension Cable:** Carefully route the 3.5m extension cable from the dash camera to your compatible

ATOTO V10 or S8 GEN4 series car stereo. Use the provided cable frames to neatly secure the cable along the vehicle's interior trim.

6. **Connect to Car Stereo:** Plug the extension cable into the designated port on your ATOTO car stereo.
7. **Power On:** Once connected, the dash camera will power on automatically with your car stereo.



Image: An illustration demonstrating the simple installation process of the AC-HN9FR front dash camera, including the camera unit, extension cable, adapter cable, and cable frames.

4. Operating Instructions

The AC-HN9FR dash camera operates in conjunction with your ATOTO V10 or S8 GEN4 series car stereo. Key functions are managed through the stereo interface.

4.1. AHD 1080p 30fps Recording

The camera automatically begins recording in AHD 1080p resolution at 30 frames per second when your car stereo powers on. This ensures clear and smooth capture of road conditions, traffic signs, and vehicle distances. AHD transmission technology maintains stable image quality even in changing light conditions.



Image: A visual comparison demonstrating the clear and smooth recording quality of AHD 1080p at 30fps, capturing fine details of the road ahead.

4.2. 136° Wide Angle View

The 136-degree wide-angle lens captures a broad perspective of the road, including adjacent lanes. This helps reduce blind spots and provides comprehensive coverage for various driving scenarios such as merging, lane changes, and waiting at intersections.



Image: An overhead view illustrating the 136-degree wide-angle coverage of the dash camera, showing how it captures multiple lanes and reduces blind spots.

4.3. Starlight Night Vision

Equipped with Starlight Level Night Vision, the camera provides bright and clear recordings even in extremely dark environments. It enhances image brightness and balance in low-light scenes, ensuring that vehicles, pedestrians, and road signs are clearly visible in night recordings.

4.4. WDR (Wide Dynamic Range)

The WDR function automatically adjusts exposure to produce natural-looking images in scenes with high contrast, such as driving against strong sunlight, exiting tunnels, or recording at night with bright headlights. It prevents overexposure (whiteout) and underexposure (blackout), ensuring details like road signs and license plates are always clearly recorded.



Image: A split image demonstrating the effectiveness of Starlight Night Vision in dark conditions and WDR in high-contrast lighting, showing improved clarity and detail.

4.5. Emergency Recording Lock (G-Sensor)

When connected to a V10 series car stereo, the built-in G-Sensor detects sudden impacts or collisions. Upon detection, the camera automatically locks the current recording segment, preventing it from being overwritten by loop recording. This ensures critical footage is preserved as evidence in case of an incident.



Image: An illustration showing the G-Sensor detecting an impact and automatically locking the recording to protect important footage from being overwritten.

4.6. Loop Recording

The camera supports continuous loop recording. When the memory card (up to 256GB) or external HDD (up to 2TB, when used with V10 series) reaches its full capacity, the oldest unlocked files are automatically overwritten to make space for new recordings. Emergency locked files are protected and will not be overwritten.



Image: A graphic illustrating the loop recording function and support for large storage capacities, including 256GB memory cards and 2TB external hard drives, ensuring continuous recording.

4.7. Parking Monitoring

When the car stereo enters sleep mode, the dash camera can continue to monitor and record events around your parked vehicle. This feature provides surveillance for potential incidents while your vehicle is unattended.

4.8. GPS Tracking Playback

In conjunction with your ATOTO car stereo, the GPS functionality allows for playback of recorded footage synchronized with your driving route. You can review your travel path and specific moments on a map displayed on the car stereo screen.



Image: A visual representation of parking monitoring, showing the camera recording around a parked car, and GPS tracking playback, displaying a driving route on the car stereo screen.

5. Maintenance

- **Clean the Lens:** Regularly clean the camera lens with a soft, lint-free cloth to ensure clear recordings. Avoid abrasive materials that could scratch the lens.
- **Check Connections:** Periodically inspect all cable connections to ensure they are secure and free from damage.
- **Format Memory Card:** To maintain optimal recording performance and prevent data corruption, it is recommended to format the memory card every few weeks or months, depending on usage. Back up any important files before formatting.
- **Software Updates:** Check the ATOTO website or your car stereo's system settings for any available firmware updates for the dash camera to ensure the best performance and latest features.

6. Troubleshooting

Problem	Possible Cause	Solution
Camera not powering on.	Loose cable connection; car stereo not powered on; incompatible stereo.	Ensure all cables are securely connected. Verify your ATOTO V10 or S8 GEN4 series car stereo is powered on. Confirm compatibility with your car stereo model.
No recording or recording errors.	Memory card full or corrupted; incorrect memory card; loop recording disabled.	Format the memory card (back up important files first). Ensure you are using a compatible memory card (up to 256GB). Check loop recording settings on your car stereo.
Unclear or blurry image.	Dirty lens; protective film still on lens; camera not focused.	Clean the camera lens. Remove any protective film. Ensure the camera is securely mounted and not vibrating.
G-Sensor not triggering emergency recording.	G-Sensor sensitivity setting too low; not connected to compatible V10 series stereo.	Adjust G-Sensor sensitivity settings on your ATOTO car stereo. Confirm connection to a V10 series car stereo.

7. Specifications

Feature	Detail
Brand	ATOTOEXCEL
Model	AC-HN9FR
Video Capture Resolution	AHD 1080P @ 30fps
Wide Angle	136°
Special Features	WDR (Wide Dynamic Range), Starlight Level Night Vision, Loop Recording, Automatic Recording Start
Connectivity Technology	Powerline
Mounting Type	Ceiling Mount
Color	Black
Product Dimensions (D x W x H)	65mm x 40mm x 60mm
Placement	Front
Max Memory Capacity	256 GB (Memory Card), 2 TB (External HDD with V10 series)
Compatible Vehicle Type	V10 Series equipped vehicles

8. Compatibility

The ATOTOEXCEL AC-HN9FR Front Dash Camera is exclusively designed for use with ATOTO V10 and S8 GEN4 series Android car stereos. It is **not compatible** with ATOTO X10, S8 (non-GEN4), A5, A6 PF/PP, F7, PND series, or car stereos from other manufacturers.

9. Warranty and Support

Your ATOTOEXCEL AC-HN9FR Front Dash Camera comes with a**12-month care period** from the date of purchase. For detailed support information, please refer to the included guide in your package. ATOTOEXCEL offers prompt support with a 24-hour weekday system. A multilingual online manual is also available for your convenience.
For further assistance, please visit the official ATOTOEXCEL support website or contact their customer service as indicated in your product documentation.

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