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eSynic ESYAM689

eSynic Universal USB-C Dash Cam Hardwire Kit Instruction Manual

MODEL: ESYAM689

Brand: eSynic

Introduction

This manual provides detailed instructions for the installation and operation of your eSynic Universal USB-C Dash Cam Hardwire Kit. This kit is designed to provide a reliable and continuous power supply to your USB-C dash cam or other car devices, enabling features such as 24-hour parking surveillance and low voltage protection. Please read this manual thoroughly before installation and use to ensure proper function and safety.

What's in the Box

Carefully unpack all components and ensure everything listed below is present:

- 1 x Type C USB Dash Cam Hardwire Kit (11.5ft / 3.5m length)
- 2 x Mini ACS Add-A-Circuit Fuse Holder
- 2 x ATO ACU Add-A-Circuit Fuse Holder
- 2 x Micro2 Add-A-Circuit Fuse Holder
- 2 x Mini/LP ACN Add-A-Circuit Fuse Holder
- 1 x Crowbar (Pry Tool)
- 1 x Fuse Clamp
- 4 x Cable Ties
- 5 x Adhesive Fixed Clips



Image: All components included in the eSync Hardwire Kit.

Installation Guide

Proper installation is crucial for the optimal performance and safety of your hardwire kit. If you are unsure about any steps, consult a professional auto electrician.

Safety Precautions

- Always disconnect the vehicle's battery before working on electrical systems.
- Ensure all connections are secure to prevent short circuits.
- Use the correct fuse type and rating for your vehicle and device.
- Route cables carefully to avoid interference with vehicle controls or moving parts.

Wiring Connections

The hardwire kit features a 3-wire connection system:

- **Red Wire (ACC):** Connects to a fuse slot that is only powered when the vehicle's ignition is on (Accessory power).
- **Yellow Wire (BAT+):** Connects to a fuse slot that provides continuous power, even when the vehicle is off (Battery power).
- **Black Wire (GND-):** Connects to a metal bolt or screw on the vehicle's chassis for a secure ground connection.



Image: Wiring diagram for the hardwire kit.

Step-by-Step Installation

1. **Find the Correct Fuse Slots:** Locate your vehicle's fuse box (typically under the dashboard, in the engine bay, or in the trunk). Using a circuit tester (not included), identify one fuse slot that provides power only when the ignition is on (for the Red ACC wire) and another fuse slot that provides continuous power (for the Yellow BAT+ wire). Refer to your vehicle's owner's manual for fuse box diagrams.
2. **Connect the Wires:** Select the appropriate add-a-circuit fuse holder for your vehicle's fuse type. Insert an existing fuse from your chosen slot into the lower slot of the add-a-circuit. Insert a new fuse (of the correct rating for your dash cam) into the upper slot of the add-a-circuit. Connect the Red ACC wire to the add-a-circuit for the ignition-switched fuse slot, and the Yellow BAT+ wire to the add-a-circuit for the continuous

power fuse slot. Plug the add-a-circuits into their respective fuse slots.

3. **Grounding the Kit:** Locate a metal bolt or screw on the vehicle's chassis that is free of paint or rust. Securely attach the Black GND- wire's ring terminal to this grounding point.
4. **Route the Cable:** Carefully route the USB-C cable from the hardwire kit's main unit to your dash cam, tucking it behind trim panels using the included pry tool and adhesive clips for a clean installation.
5. **Connect to Dash Cam:** Plug the USB-C connector into your dash cam.
6. **Test the System:** Reconnect your vehicle's battery. Start the engine to ensure the dash cam powers on. Turn off the engine and remove the key to verify the dash cam switches to parking mode (if supported by your dash cam) or powers off correctly.



Image: Visual guide for simple installation steps.



Image: Detailed hardwire kit installation steps.

Included Fuse Adapters

The kit includes various fuse adapter types to ensure compatibility with most vehicles:

- Mini ACS
- ATO ACU
- Micro2
- Mini/LP ACN

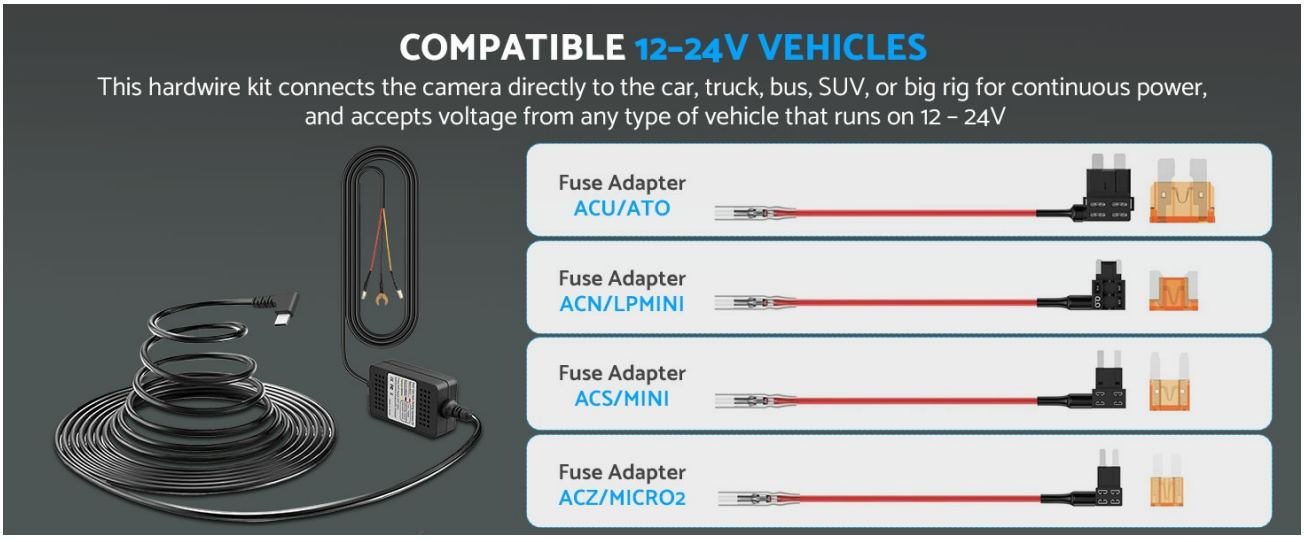


Image: Various fuse adapter types for vehicle compatibility.

Installation Video Guide

Your browser does not support the video tag.

Video: An official eSynic video demonstrating the installation and features of the USB-C Dash Cam Hardwire Kit.

Operating Features

The eSynic hardwire kit enhances your dash cam's functionality with the following features:

24/7 Parking Surveillance

By connecting directly to the vehicle's battery (via the Yellow BAT+ wire), the hardwire kit provides continuous

power to your dash cam, enabling 24-hour parking monitoring. This allows your dash cam to record events even when the vehicle is turned off, offering enhanced security against theft or vandalism.



Image: Illustrating 24/7 parking surveillance for car security.

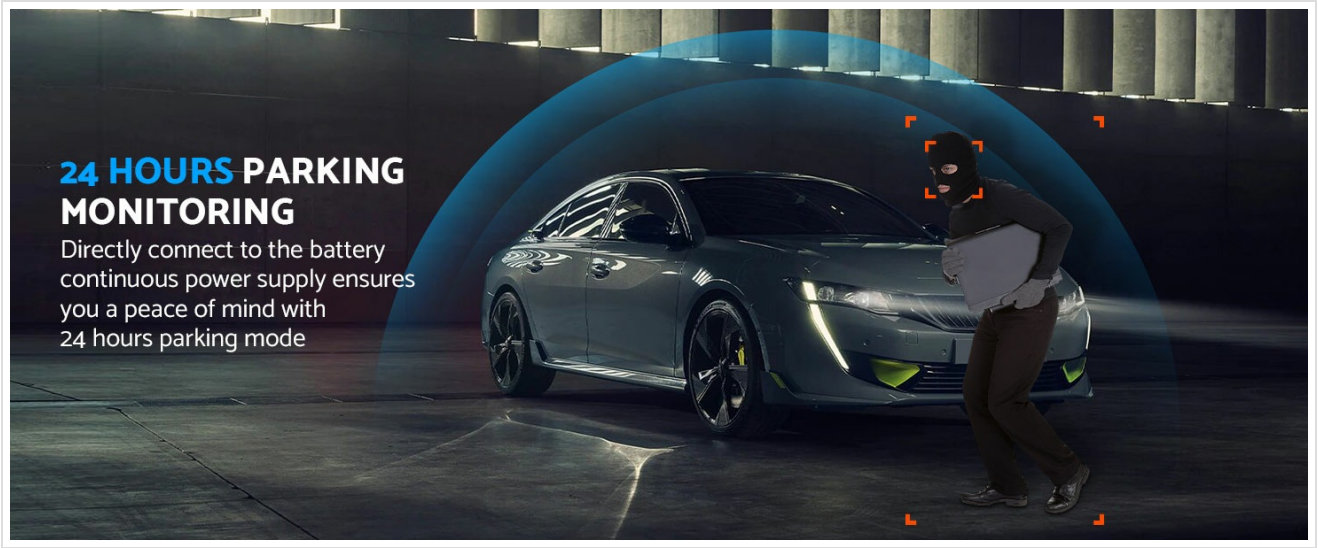


Image: 24-hour parking monitoring in action.

ACC Auto-Switch Mode

The kit intelligently detects the vehicle's ignition status. When the engine is started, it switches the dash cam to normal recording mode. When the engine is turned off, it transitions the dash cam into parking mode (if supported by the dash cam), ensuring seamless operation without manual intervention.

Smart Low Voltage Protection

To prevent your vehicle's battery from draining, the hardwire kit includes a smart low voltage cutoff feature. It continuously monitors the battery voltage and automatically cuts off power to the dash cam if the voltage drops below a safe threshold (11.8V for 12V systems, 23.8V for 24V systems). This ensures enough power remains to start your vehicle.



Image: Dash cam with low voltage protection system.

Image: Low voltage protection and ACC linkage in operation.

Compatibility

The eSynic hardwire kit is designed for broad compatibility:

- **USB-C Devices:** Compatible with 95% of new dash cams, GPS navigators, radar detectors, and other car devices that use a USB-C power input.
- **Vehicle Voltage:** Works with both 12V (cars, SUVs) and 24V (trucks, large vehicles) electrical systems.
- **Output:** Provides a stable 5V output with a maximum current of 3A.



Image: High compatibility with various USB-C car devices.

Specifications

Model Name	USB C Dash Cam Hardwire Kit-AM689
Input Voltage	DC 12V-24V
Output Voltage	5V

Output Current	3A (Max)
Cable Length	11.5ft (3.5m)
Connector Type	USB-C
Low Voltage Cutoff (12V)	11.8V
Low Voltage Cutoff (24V)	23.8V
Product Dimensions	7.8 x 1.57 x 5.5 inches
Item Weight	7.8 ounces

Maintenance

The eSynic hardwire kit is designed for durability and requires minimal maintenance. However, regular checks can ensure its longevity and optimal performance:

- **Cable Inspection:** Periodically check all visible cables for any signs of wear, fraying, or damage. Ensure they are securely tucked away and not exposed to excessive heat or sharp edges.
- **Connection Check:** Ensure all wire connections (ACC, BAT+, GND) remain tight and free from corrosion.
- **Fuse Integrity:** If your dash cam experiences power issues, check the fuses in the add-a-circuit holders. Replace any blown fuses with new ones of the correct rating.
- **Cleanliness:** Keep the hardwire kit's main unit free from dust and debris.

Troubleshooting

If you encounter issues with your eSynic hardwire kit, refer to the following common problems and solutions:

- **Dash Cam Not Powering On:**
  - Check all wire connections (Red, Yellow, Black) for tightness and proper placement.
  - Verify that the fuse taps are correctly inserted into the fuse box and that the fuses are not blown.
  - Ensure the vehicle's battery is not completely drained, triggering the low voltage protection.
  - Confirm the USB-C connector is fully inserted into the dash cam.
- **Dash Cam Not Entering Parking Mode:**
  - Ensure the Yellow BAT+ wire is connected to a continuous power source.
  - Verify that your dash cam itself supports parking mode and that it is enabled in the dash cam's settings.
  - Check if the Red ACC wire is correctly connected to an ignition-switched fuse.
- **Vehicle Battery Drains Quickly:**
  - The hardwire kit has built-in low voltage protection. If the battery drains, it might be due to an underlying issue with the vehicle's battery or charging system, or excessive power draw from other accessories.
  - Ensure the low voltage cutoff thresholds are functioning as expected.
  - If the issue persists, consult a vehicle technician.
- **Intermittent Power to Dash Cam:**
  - Check for loose connections at the fuse box, ground point, or the USB-C port.

- Inspect the hardwire cable for any damage.

Warranty and Support

For warranty information, technical support, or any questions not covered in this manual, please contact eSynic customer service. Refer to the product packaging or the eSynic official website for contact details.

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.

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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.

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