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NAV-TV NTV-KIT477

MB-Sprinter CAM - Back-up Camera Interface

Model: NTV-KIT477 | **Brand:** NAV-TV

1. Introduction

The NAV-TV MB-Sprinter CAM interface is designed to integrate an aftermarket rear-view camera with the factory display screen in Mercedes Sprinter vehicles. This system provides a clear view of the area behind the vehicle when reversing, enhancing safety and convenience. Additionally, it offers the option for a forced camera view through an external toggle switch (not included).

Important: This module is VIN-locked and can only be used with one vehicle at a time. Once installed and activated, it cannot be transferred to another vehicle.

2. Safety Information

Please read all instructions carefully before installation and operation. Failure to follow these guidelines may result in damage to the product, vehicle, or personal injury.

- **Professional Installation Recommended:** Due to the complexity of vehicle electronics, professional installation by a qualified technician is highly recommended.
- **Disconnect Power:** Always disconnect the vehicle's battery before beginning any electrical installation to prevent short circuits and damage.
- **Vehicle Compatibility:** Ensure this product is compatible with your specific Mercedes Sprinter model and year before installation.
- **Wiring:** Ensure all wiring connections are secure and properly insulated to prevent electrical hazards.
- **Camera View:** The backup camera is an aid and should not replace direct observation of surroundings. Always check mirrors and physically look before backing up.

3. Product Overview and Package Contents

The MB-Sprinter CAM kit includes the main interface module and various wiring harnesses necessary for integration with your vehicle's factory system.



Figure 3.1: Contents of the MB-Sprinter CAM kit. This image displays the central MB Sprinter CAM module, several specialized wiring harnesses with various connectors (including an OBD-II style connector labeled NTV-HARDB1), a USB cable, and RCA video input/output cables, all essential for the system's installation and function.

Package Contents:

- MB-Sprinter CAM Interface Module
- Vehicle-Specific Wiring Harnesses
- USB Programming Cable
- RCA Video Input/Output Cables

4. Compatibility

This interface is specifically designed for Mercedes Sprinter vans. It allows the integration of an aftermarket backup camera with the factory LCD screen.



Figure 4.1: Compatibility overview for the MB-Sprinter CAM. The image illustrates a Mercedes Sprinter dashboard with the factory LCD displaying a backup camera feed, confirming the product's function. Below, two Mercedes Sprinter vans are shown, emphasizing the product's compatibility with 2014 and up Sprinter models.

5. Installation and Setup

5.1 General Notes

- Ensure the vehicle's ignition is OFF and the battery is disconnected before starting installation.
- Refer to your vehicle's service manual for instructions on safely removing dashboard components to access the factory head unit.
- The module locks to the vehicle's VIN upon first power-up. Ensure it is installed in the intended vehicle.

5.2 Installation Steps (General)

1. **Access Head Unit:** Carefully remove the necessary trim panels and components to gain access to the rear of the factory head unit/display.
2. **Connect Interface Module:** Connect the vehicle-specific wiring harnesses from the MB-Sprinter CAM module in-line with the factory wiring at the head unit. Ensure all connections are secure.
3. **Connect Aftermarket Camera:** Connect the video output from your aftermarket backup camera to the designated RCA input on the MB-Sprinter CAM harness.
4. **Optional Forced Camera Switch:** If desired, connect an external toggle switch (not included) to the designated wires on the harness to enable manual activation of the camera view. Refer to the detailed wiring diagram provided with the product for specific connections.
5. **Secure Module and Wiring:** Mount the MB-Sprinter CAM module in a secure location behind the dashboard, away from heat and moisture. Route all wiring neatly and secure it to prevent rattles or interference.
6. **Reconnect Battery and Test:** Reconnect the vehicle's battery. Turn on the ignition and test the backup camera functionality. Ensure the image appears correctly when shifting into reverse. Test the optional forced camera switch if installed.
7. **Reassemble Dashboard:** Once functionality is confirmed, carefully reassemble all dashboard components.

6. Operation

Once installed, the MB-Sprinter CAM interface operates seamlessly with your vehicle's factory system.

- **Automatic Activation:** When the vehicle is shifted into reverse gear, the aftermarket backup camera image will automatically display on the factory screen.
- **Forced Camera View (Optional):** If an external toggle switch is connected, activating this switch will force the backup camera image to display on the screen, regardless of the gear selection. This can be useful for monitoring towed items or checking the rear view while driving forward.
- **Return to Normal Display:** The camera view will automatically revert to the normal factory display when the vehicle is taken out of reverse, or when the forced camera switch is deactivated.

7. Maintenance

The MB-Sprinter CAM interface is designed for long-term, maintenance-free operation. However, general care for your vehicle's electronics applies:

- Keep the module and wiring free from excessive moisture and extreme temperatures.
- Ensure all connections remain secure over time.
- Regularly clean your backup camera lens to ensure a clear image.

8. Troubleshooting

If you encounter issues with your MB-Sprinter CAM interface, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No camera image when in reverse.	Loose wiring connection, incorrect camera input, faulty camera, module not powered.	Check all wiring connections to the module and camera. Verify camera is functioning independently. Ensure module is receiving power.
Image is distorted or flickering.	Poor video signal, ground loop interference, faulty camera or cable.	Check video cable for damage. Ensure proper grounding. Test with a different camera if possible.
Forced camera view not working.	Toggle switch not connected correctly, faulty switch.	Verify wiring to the toggle switch. Test the switch for continuity.
Module not recognized by vehicle.	Incorrect installation, VIN lock issue.	Double-check all harness connections. Ensure the module was installed in the correct vehicle for VIN locking. Contact NAV-TV support if issue persists.

9. Specifications

Feature	Detail
Model Number	NTV-KIT477
Brand	NAV-TV

Feature	Detail
Compatible Devices	Monitor (Factory Mercedes Sprinter Display)
Installation Type	Surface Mount (Module)
Item Weight	1 pounds
Package Dimensions	6.5 x 4.5 x 2.5 inches
UPC	616909359387
First Available	December 29, 2015

10. Warranty Information

For detailed warranty information regarding your NAV-TV MB-Sprinter CAM interface, please refer to the official NAV-TV website or the warranty card included with your product. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase. Keep your proof of purchase for warranty claims.

11. Customer Support

If you require technical assistance, have questions about installation, or need to troubleshoot an issue not covered in this manual, please contact NAV-TV customer support. Visit the official NAV-TV website for contact information, including phone numbers and email support.
NAV-TV Official Website: www.navtv.com

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