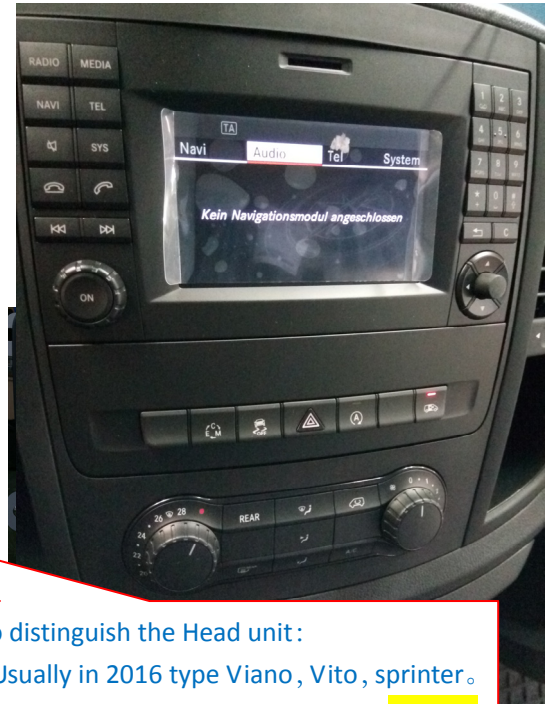


CAM_Benz_SD_2016 installation manual v20160703

Product type:

- CAM-Benz-SD-2016 [just video insertion]
- FN- Benz-SD -2016[with winCE navigation module inside]
- FaN- Benz-SD -2016[with Android navigation module inside]

This interface can insert CVBS or RGB video onto Mercedes W447 screens. Thus reverse video, front camera, navigation and DVR video can be displayed on OEM screen.



How to distinguish the Head unit:

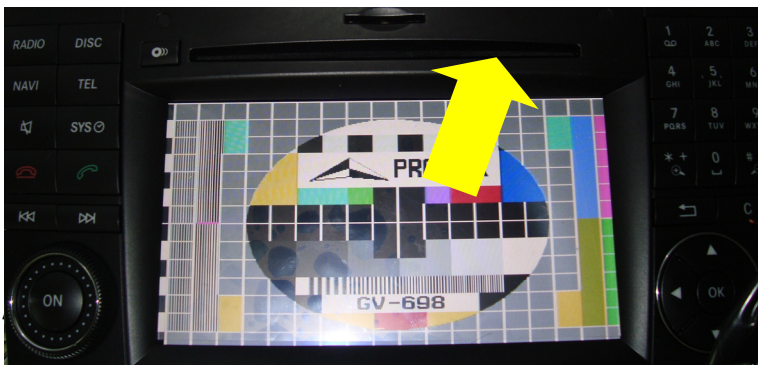
- Usually in 2016 type Viano, Vito, sprinter.
- There is a SD card slot on LCD **without CD-DRIVER.**

Features:

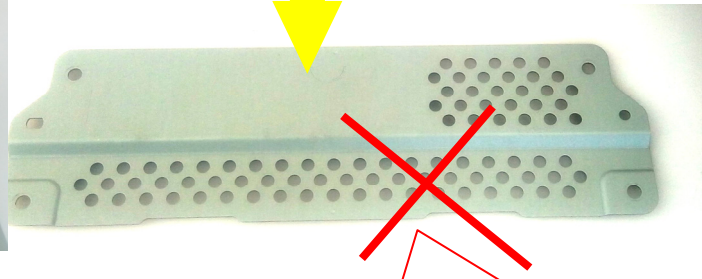
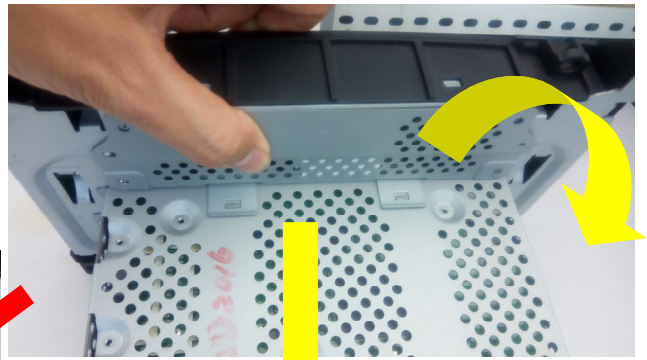
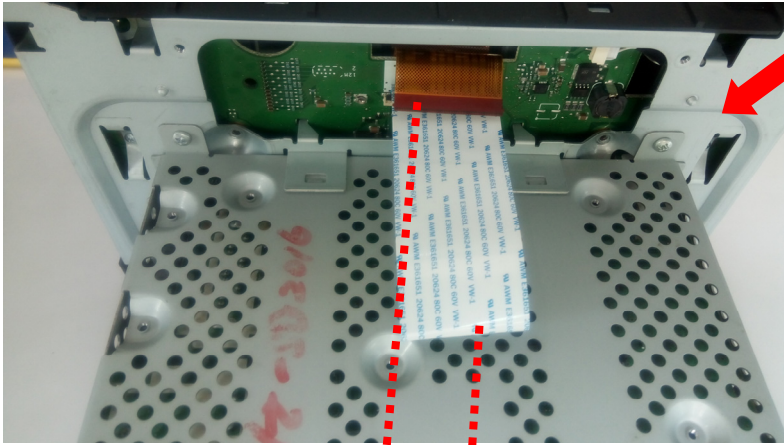
- ✓ Very easy to install although daughter PCB is used: Just remove one metal piece behind the head unit, and replace it with the PCB, and make the ribbon cable go through the PCB then video can be inserted.
- ✓ Exact fit PCB with screws to fix, this solution offers nice reliability.
- ✓ Totally new processing technology from FOSP is offered for very stable picture while switching, both the OEM display data and inserted video are buffered before sending to the display. while other solutions may show shaking picture for 1-second after switching, because the Sync is lost while switching for the LCD display. This is good for reversing many times or 360 bird-view which is switching all the time.
- ✓ CAM-Benz-SD-2016 is designed for camera or bird-viewing, it offers a dedicated trigger wire. And it is very simple to use.
- ✓ Dedicated input and power supply for optional front camera. The customer can also ask for a front + left side +right side camera solution.
- ✓ FaN has internal Android module, it can display navigation on the screen with touch foil added.

Attention:

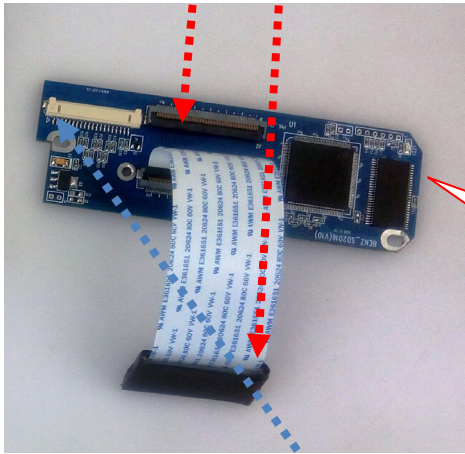
Benz E, S, GL car's also has a SD slot on top of the display since 2009, but **it also has a CD-DRIVER**, please use Fosp's FV-BENZ09 to insert video.



1. Installation:

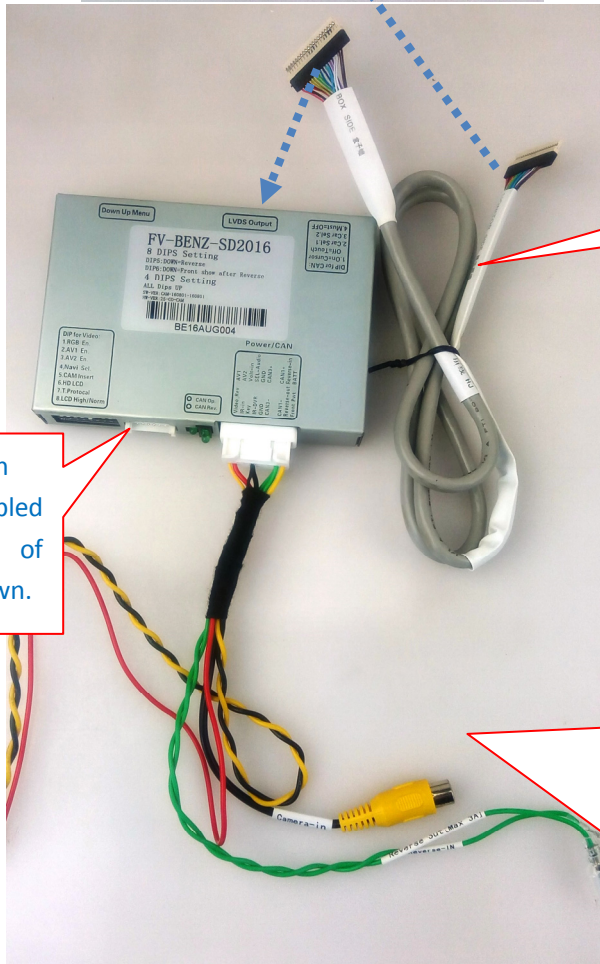


There is such a metal piece behind Head Unit. Remove it and replace with the ext-PCB.



This Ext-PCB has 2 ribbons, one to the socket and one to the OE-ribbon by connection like the arrows here showing.

This ext-PCB can be fixed on the shell nicely with screws.



The interface can be connected to ext-PCB by a cable.

RGB-navigation input, enabled when DIP1 of 8-DIP goes down.

- The yellow RCA-jack is for camera or bird-view cvbs input.
- The green wire marked "Reverse-in" is for reverse video trigger, =12V means the video on yellow jack will be displayed.
- The Reverse-out is for power supply to front camera, when DIP6=Down, front camera is shown 5 seconds after reverse-trigger. And 12V is here.
- Red/Yellow and black: For power supply, the Red/Yellow can be connected to ACC of the car, while Black for GND.◦

2. The 8-DIP and 4-DIP settings:

8-DIP settings:

The DIP5 must be down, and others be up.

The DIP6 is for front camera display:

- when DIP6=Down, front camera will be enable. CVBS of front camera will be displayed 5 seconds after the reverse trigger signal.[the CVBS-video is sent to the right-top corner of the connector.]
- when DIP6=Up, front camera will be disable.

4-DIP settings:

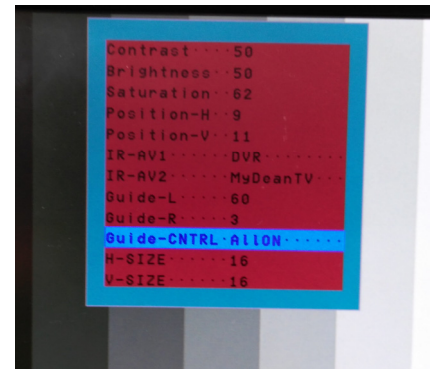
All 4-DIPs should go up.



3. User's manual:

3 keys on the interface box are used to go to the setup menu, and the installer can change the parameters, be sure that the Guideline control should be set to "ALL-OFF":

- All-ON: guide and PDC are both displayed.
- PDC-ON: only PDC is displayed.
- Guide-ON: only guide line displayed.
- ALL-Off: Guideline and PDC will not be displayed.



4. Parameters

No.	name	parameter
1	Av1,, cam video	0.7Vpp with 75 ohm impedance NTSC/PAL/SECAM automatic switch
2	Reverse Control wire	>5V will force into camera mode. All these wires can tolerate 12V for <10 seconds.
3	Normal Power consumption	4.8W
4	Standby current	< 10uA
5	Reverse trigger threshold	>5V trigger
6	Work temperature	-40 ~ +85C