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# Installation Manual Video Interface for Mercedes W213(E-Class)



## Specification

Compatible car model : 2016 Mercedes Benz New E-Class

Components : Interface \* 1ea

#### Multimedia interface input/output spec

Input : Analog RGB\*1, A/V\*1, CVBS(Rear view camera)\*1 CVBS(Front camera)\*1 Output : To LCD\*1

#### **Power Spec**

Input power : 8VDC ~ 18VDC Consumption : 5WATT

#### Switch input mode

- Skip External video sources : Able to skip or display input videos by switching Dip switches
- Able to switch videos by the remote, button switch and OEM button
- Able to detect the rear view camera by CAN

### Features

Control external video sources(DVD,DTV) via Multi Media Touch Adjust external videos screen position Check the improved Screen Display (User Friendly Interface) Switch modes via original OEM button Supply power from an interface to rear view camera (Back up camera)

Assist your parking via Dynamic PAS(Parking Assistance System)

### Product Exterior



## Components











POWER \* 1ea

CAN IN/OUT \* 1ea

RGB(Q-ROI)\* 1ea

RGB \* 1ea

IR OUT \* 1ea





AV \* 1ea





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IR \* 1ea





Uart Touch \* 1ea





TOUCH IN\* 1ea

\* 1ea Remote \* 1ea support@car-solutions.com

• DIP SWITCH



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\* ON : DOWN / OFF : UP

PIN	Function	Dip S/W	
1	RGB INPUT	OFF : RGB DISPLAY ON : Skipping RGB Mode	
2	AV1 MODE	OFF : AV1 DISPLAY ON : Skipping AV1 Mode	
3	AV2 MODE	OFF : AV2 DISPLAY ON : Skipping AV2 Mode	
4	AV3 MODE	OFF : AV3 DISPLAY ON : Skipping AV3 Mode	
5	MONITOR SIZE	OFF : 12.3inch ON : 8.4inch	
6	CAR MODEL	OFF : Others ON : Analog gauge 12.3 inch (USA Ver)	
7	REAR CAMERA	OFF : OEM REAR CAMERA ON : EXTERNAL REAR CAMERA	
8		N. C (OFF)	

\* Please make sure to disconnect the power cable of the interface and reconnect the power cable again to apply the dip switch setting whenever changing DIP switch. Otherwise, DIP switch setting will not be applied.

### REMOTE CONTROL SETTING

PIP	KEY	FUNCTION		
D	POWER & PIP	NO USE		
	MENU	Activating FACTORY MENU		
	OK	Making a selection, changing image display		
		Moving upward		
	•	Moving downward		
	•	Moving leftward (If you press this button 2 seconds long, you cai access the factory mode.)		
	►	Moving rightward (If you press this button 2 seconds long, you can		

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# Factory setting



#### Adjust a current screen position and size

H-POSITION : Move display horizontally V-POSITION : Move display vertically H-SIZE(NAVI) : Adjust the size of navigation display horizontally

Menu of FACTORY			
IMAGE	PAS TYPE		
PARK	PAS SETUP	L	
UTIL1	REAR TYPE	L	
UTIL2	SAFE ENABLE	L	
INFO	RADAR ENABLE	L	
	F-CAM ENABLE		
		L	
MENU to	Return SEL to Select/Save		

#### Adjust rear view camera setting.

- PAS TYPE : Select type of parking guide line
  - NOT USED : No use parking guide line
  - PAS ON : Selecting Dynamic parking guide line
  - PAS OFF : Selecting fixed parking guide line

PAS SETUP : Adjusting the position of the parking guide line



<H-POSITION>



**<V-POSITION>** 

REAR TYPE : Choose rear camera recognition.

- CAN : By connecting to "CAN" cable of the car gear, changing to rear camera mode when shifting into reverse. (Connect "CAN" cable of the power cable to the "CAN" cable of the car gear.)
- LAMP : By connecting to the rear lamp of the car, switch to rear camera mode when shifting into rear. (Connect "Rear-C" cable of the power cable to the rear lamp of the car.)

SAFE ENABLE : If it is enable, HDMI, RGB, and A/V mode doesn't show up while driving. (Default : OFF)

RADAR ENABLE : Setting up parking distance alarm sensor. (ON/OFF)

F-CAM ENABLE : Front camera setting - OEM CAMERA : Select OEM front camera

- EXT CAMERA : Select aftermarket front camera

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## Factory setting



#### Navigation & Car model setting up

NAVI MODEL : Choose RGB navigation AVOUT SELECT : Selecting background sound through car AUX. FACTORY RESET : Reset FACTORY setting

Menu of FACTORY			
IMAGE PARK UTIL1 UTIL2 INFO	I-DRV I I-DRV ( IR MEM CALIBR	REMOTE CONTROL IORY PATE	
MENU to Return SEL to Select/Save			

#### Other options setting up

I-DRV REMOTE : Able to use remote control on DVD, DTV by selecting "User" after IR memory registered. (Default, User) I-DRV CONTROL : Selecting whether or not to use touch function IR MEMORY : Enter Remote values of DTV, DVD \*\* Refer to IR manual for IR settings

CALIBRATE : Activate Touch calibration

Menu of FACTORY				
IMAGE	SYSTEM VERSION			
PARK				
UTIL1	(MAIN -130723)			
UTIL2	(TRIP -130723)			
INFO				
MENU to Return SEL to Select/Save				

#### Able to check the version of product

## How to use OEM buttons

\* Able to switch the modes or activate the function



%BACK(HOME) button on the wheel: Long press : Switch mode Short press : Back to OEM mode



#### \* NAVI button Long press : Switch mode Short press: Back to OEM mode



\* BACK button Long press: Switch mode Short press: Back to OEM mode

### How to use OEM buttons



#### 1. Image size setting

Monitor	Joy shuttle Direction	Mode	Pushing Joy shuttle	Mode	
12.3inch	Ţ	Rear, Front Camera mode	Short	Full Screen → OEM CAM+AFTERMARKET CAM	
8inch		Rear, Front Camera mode	Short	Full Screen → OEM CAM+AFTERMARKET CAM	

#### 2. DVD, DTV OSD control

( OSD control remote will appear if the joy shuttle is moved to the left for a short time in DVD, DTV mode)

Monitor	Direction	Mode	Pushing Joy shuttle	Movement
12.3inch/ 8inch		DVD DTV	Short	UP,DOWN,LEFT,RIGHT
	ſ		Long	Select



## LVDS IN/OUT connection

OUT



adapter

ala

Find the beige color connector behind the command

12.3inch monitor command



8.4inch monitor command

Remove the right wire from the beige color connector and connect it to QDIS adapter

Then, connect QDIS adapter to LVDS out of the interface



Connect the supplied LVDS IN wire to the right side of beige color connector.

Then, another side of connector shall be connected to the LVDS IN of the interface



# CAN Connection

#### \* CAN IN/OUT connection

- Find a bunch of wires from the command behind the monitor as shown below



Find a bunch of cables from the command behind



Connect the OEM connector to the supplied CAN IN/OUT



Remove the black connector marked with a red circle



Put the black connector cover onto the supplied CAN IN/OUT cable



Take away the black connector cover



Reconnect the supplied cable where the black connector was removed.

# B+ / GND connection



GROUND

\* Connect the black ground wire of the supplied power cable to the brown OEM wire

• B+

\* Connect the red B+ wire of the supplied power cable to the orange/blue OEM wire

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