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Instruction Manual MB2019-NTG6.0-TC2 with PAS for Mercedes Benz

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1. Main spec.

- 1. Input Spec. (MULTI VIDEO INTERFACE)
 - 1 x Digital RGB Input (Navigation System output)
 - 2 x A/V Input (External video source).
 - 1 x CVBS(REAR CAMERA) Input. (Rear camera source)
 - 1 x CVBS(FRONT CAMERA) Input. (Front camera source)
 - 1 x Analog RGB Input (Navigation System output)
 - 1 x LVDS Input. (Car Command System)
 - 1 x Capacitive Touch Screen
- 2. Output Spec.
 - 1 x LCD Output (LCD Operation)
 - 1 x Resistive Touch
- 3. Power Spec.
 - Input Power : 8VDC ~ 24VDC
 - Consumption Power : 12Watt, Max
- 4. Switch Input mode
 - By OEM button

1-1. Features

- Easy installation with Plug&Play power/LVDS cable
- Display dynamic PAS(Parking assistance system) with PDC

2. Diagram



3. Components



4. Exterior



1. Dip Switch

* ON : DOWN , OFF : UP

NO.	Function	Selection	
1	NAVI	ON : Skipping NAVI OFF : Display	
2	DVB-T	ON : Skipping Video OFF : Display	
3	DVD	ON : Skipping Video OFF : Display	
4,5	N.C		
6		ON : A-Class, Sprinter 8" OFF : A-Class, Sprinter 12.3"	
7	Car model	ON : A-Class 12.3" OFF : A-Class8", Sprinter8" 12.3"	
8	2	ON : A-Class 8" OFF : A-Class12.3" Srpinter8",12.3"	
* Example)		
678	A class 8″ Model	Sprinter 8" Model	



A class 12.3" Model



Sprinter 12.3" Model

2. Touch Control

- Touch calibration



Touch OEM screen in any mode more than 7sec. For calibration

(This function can be activated only one time after switching mode)

- DVB-T/DVD Control

Press Touch (Anywhere)



DVB-T



DVD support@car-solutions.com





3. Original button

- Switching mode



<Steering wheel>



1. Long Press: Switching mode 2. Short Press: Switching to OEM directly

/ NAVI :

4. OSD Key board



- ① MENU : Activating OSD Menu
- ② SEL : Selection
- ③ Up : Moving upward / increasing value

④ Down : Moving downward / decreasing value

5. OSD Menu

※ Control the menu below by Original button

MENU	Config		NAVI
Config Option Image Screen Parking	NAVI-RGB DVB-T(DMB) DVD RESET	CASTIT Default	

Config - NAVI-RGB : Setup for the type of NAVI Config - DVB-T : Setup for the type of TV tuner Config - DVB-T : Setup for the type of DVD Reset : Reset all value

5. OSD Menu

% Control the menu below by Original button

MENU	Option	NAVI
Config	Rear Cam - Type	ExtDevice
Option	Rear Cam - Power	Auto
Image	Rear Cam - Det	CAN
Screen	Front Cam -Type	On
Parking	Front Cam -Power	ExtDevice

Option

- RearCam- Type : Setup for rear camera ExtDevice : External rear camera OEM : Original camera
- RearCam- Power : Setup for Rear VCC wire in power cable ON : +12V out always (current consumption : 200mA) AUTO : +12V out in rear mode only (200mA) OFF : Power OFF
- RearCam- Det : N.C
- FrontCam- Type : Setup for front camera
 - ExtDevice : External rear camera
 - OEM : Original camera
- FrontCam- Power : Setup for Front VCC wire in power cable
 - ON +12V out always (current consumption : 200mA) AUTO - +12V out in rear mode only (200mA) OFF - Power OFF
- FrontCam-Det : Setup for detection of front cam
 - CAN : by CAN
 - Wire : by Front-Det wire

5. OSD Menu

X Control the menu below by Original button



Option

• RearCam-RcvOpt : Selecting time of displaying Front camera before switching to RGB, DVD, OEM from Rear



- SteeringwheelBtn : Setup for OEM button on steering wheel ON : Activated OFF
- Reset Excute : Option Menu all Reset

5. OSD Menu

% Control the menu below by Original button

- NAVI(RGB) Image / Screen

MENU	11	MAGE	NAVI	\sim
Config Option Image Screen Parking	Brightness Contrast Color- RED Color- GREEN Color- BLUE		50 50 50 50 25	S
MENU	S	creen	NAVI	
Config Option Image Screen Parking	Horizontal Vertical Scale X Up Scale X Down Scale X Up		50 50 50 50 50 50	

- DVD, DVBT, NAVI-AV, REAR, FRONT Image

MENU	IMAGE Rear		Rear
Config	Brightness		50
Option	Contrast		50
Image	Saturation		50
Screen	Hue		50
Parking	Sharpness		25

5. OSD Menu - Parking mode

※ Control the menu below by Original button

-PDC display ON/OFF

MENU	Parking / OPS Display Re		
Config Option Image Screen Parking	OPS Display Line Display Warning Lang Horizontal Vertical	On On 한국어	Off 50

Selecting a use of OPS(PDC) picture (OSD Menu – Parking – OSD Display – ON or OFF)

-Parking guide line ON/OFF

MENU	Parking / Lin	Rear	
Config Option Image Screen Parking	OPS Display Line Display Warnings Lang Horizontal Vertical	On On Россия	Off 50 50

Selecting a use of packing guide line (OSD Menu – Parking – Line display – ON or OFF)

- Language

MENU	Parking / Warnings Lang		Rear
Config	OPS Display	English	
Option	Line Display	中文	
Image	Warnings Lang	한국어	
Screen	Horizontal	台湾	
Parking	Vertical	P O C C И Я	

Selecting a type of language (OSD Menu – Parking – Warning lang)

Check entire surroundings!
请注意车辆周围环境!
차량 주변을 전부 확인
請注意車輛周圍環境!
Следите за всем окружением автомобиля!
周辺の安全を確認

5. OSD Menu - Parking mode

※ Control the menu below by Original button

-Adjusting the position of guide line





Installation

1. Installation Diagram



Installation

2. Classification of Power / LVDS cable

- Sprinter 12.3"



[Power connector]



[LVDS connector]

- Sprinter 8"



[Power connector]



[LVDS connector]

Installation

2. Classification of Power / LVDS cable

- A-Clss 12.3"



[Power connector]



[LVDS connector]

- A-Class 8"



[Power connector]



[LVDS connector]

Cautions

1. FQA

- Not possible to switch mode
 - Check connection of OSD Key pad wire
 - Check CAN connection
- Display wrong size of picture
 Check Dip s/w setting
- Display black screen in OEM mode
 Check connection of LVDS/LCD cable
- Not possible to switch to rear screen
 Check the packing setting
 (OSD Menu option RearCam-Det)

2. Caution

- The device must not be installed in where it interferes driving (close to brake pedal, steering wheel, airbag etc.)
- LVDS cable must be connected correctly according to the manual
- Insulate the end of wire by using electrical tape
- The installation should be done by expert
- GU electronic does not take any responsibility for any problem caused by wrong installation