

Instruction Manual

NTG 5.5 for Mercedes Benz E-class

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1. Main spec.

- 1-1 Input Spec. (MULTI VIDEO INTERFACE)
 - 2 x A/V Input (External video source).
 - 1 x Analog RGB Input (Navigation System output)
 - 1 x CVBS(REAR CAMERA) Input. (Rear camera source)
 - 1 x CVBS(FRONT CAMERA) Input. (Front camera source)
 - 1 x LVDS Input. (Car Command System)
 - 1 x Capacitive Touch Input
 - 1 x Digital RGB

1-2 Output Spec.

- 1 x LCD Output (LCD Operation)
- 1 x Resistive Touch Output
- 1-3 Power Spec.
 - Input Power : 8VDC ~ 24VDC
 - Consumption Power : 12Watt, Max
- 1-4 Switch Input mode
 - Possible to switch input mode through original button

2. Features

- Possible to appear OEM information of Air conditioner when usi ng A/C buttons (Refer to P.11)
- NAVI PIP function
- Possible to switch from external screen to OEM Phone mode scr een automatically when phone rings
- Possible to register IR code of DVD/DTV
- Easy installation with Plug&Play CAN/LVDS cable
- Display dynamic PAS (Parking assistance system) with PDC(Only for 8.4")

3. Diagram



4. Components



4. Components (Option)



5. Exterior



1. Dip Switch

* ON : DOWN , OFF : UP

NO.	Function	Selection
1	NAVI	ON : Skipping NAVI OFF : Display
2	DVB-T	ON : Skipping DVB-T OFF : Display
3	DVD	ON : Skipping DVD OFF : Display
4	N.C	
5	Rear Camera	ON : External camera OFF : OEM Camera
6		ON : E class 8.4"
7	CAR model	ON : E class 12.3"
8		ON : E class 8.4" , E class 12.3"

Example





E class 12.3" Model

E class 8.4" Model

2. Parking → Drive setting

 Setting time to display screen when changing gear from P to N or D



3. Original button – Switching mode

-Switching Mode



% You can set for PIP function ON/OFF in OSD MENU (p. 17)

- 3. Original button Switching mode
- Overlay function



- When pressing the buttons in the picture above, The OEM A/C information bar will appear on external screen like the picture blow



% You can set for Overlay function ON/OFF in OSD MENU (p. 17)

3. Original button – DVB-T, DVD Menu

* Control the menu below by Original button



% To use this function, It is necessary to offer the remote IR code to manufacturer or setting OSD IR – Ctrl (P. 21)

3. Original button – OSD Setting



- Long press (6sec) :Activating OSD Short press : Exit
- 2 Select
- **③** Up, Increasing value
- **④** Moving from first menu to third menu in order
- **(5)** Down, Decreasing value
- **(6)** Moving from Third menu to First menu in order



4. KEYBOARD



- 1 MENU : Activating OSD Menu
- ② SEL : Selection
- **③** Up : Moving upward / increasing value
- (4) Down : Moving downward / decreasing value

5. OSD Menu

%Press "MENU" button on Key board

MENU	Config		NAVI
Config Option Image Screen Parking	NAVI-RGB DVB-T(DMB) DVD Reset	HDMI Default Default Execute	Cancel

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

5. OSD Menu

%Press "MENU" button on Key board



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 : Setup for Rear detection CAN - By CAN Extwire – by rear cam detect wire
- AV Mode : When the "REAR TYPE" is OEM ON : Using the "Rear input" as AV3 OFF : Not used
- FrontCam-Type : Setup for front camera ExtDevice - External rear camera OEM - Original camera

5. OSD Menu

%Press "MENU" button on Key board



Option

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



 ScrChg-Call : Setup for switching from external screen to OEM Phone mode screen automatically when phone rings



- ScrChg-Climate: Setup for overlay function ON or OFF
- ScrChg-PS : (N.C)

5. OSD Menu

%Press "MENU" button on Key board



Option

- NAVI PIP : Setup for PIP function ON or OFF
- NAV Btn : Setup for Original 'NAVI' Button (Switching Mode type) Short : Short press to switch Long : Long press to switch
- Reset : Reset all value

5. OSD Menu

%Press "MENU" button on Key board

- NAVI(RGB) Image / Screen					
	MENU	IN	MAGE	NAVI	
	Config Option Image Screen Parking	Brightness Contrast Color- RED Color- GREEN Color- BLUE		50 50 50 50 25	
	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 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

%Press "MENU" button on Key board

-Parking guide line ON/OFF

MENU	Parking		Rear
Config Option Image Screen Parking	OPS Display Warnings Lang Horizontal Vertical Transparency	On English	50 50 40

Select a use of parking line (OSD Menu – Parking – Line display – ON or OFF)

- Language

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

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

Parking line - ON

請注意車輛周圍環境!

Следите за всем окружением автомобиля!

周辺の安全を確認

-Adjusting the position of guide line

MENU	Parking Rear		
Config Option Image Screen Parking	OPS Display Warnings Lang Horizontal Vertical Transparency	On English	50 50 40

Possible to adjust the position of line by Keypad in Horizontal / Vertical menu % Pressing this Horizontal / Vertical menu, The OSD screen automatically disappears. Please adjust from the parking line Screen.

MENU	SEL	UP	DOWN	
•	•			
Left	Right	Up	Down	

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5. OSD Menu

%Press "MENU" button on Key board

- OSD

MENU	Horizontal		
OSD IR-Ctrl Utility	Horizontal Vertical Display Transparency Language	50 50 10s English	C

- OSD Horizontal
- OSD Vertical
- OSD Display : Setting time for displaying OSD menu
- OSD Transparency
- OSD Language : Setting language of ODS menu
- IR Ctrl (p.21)

- Utility

MENU	Utility	
OSD IR-Ctrl Utility	Factory Reset Version	Execute Cancel AD4P52KRX - 160509

• Utility – INTERFACE SOFTWARE

6. OSD Menu – Register IR code

*Press "MENU" button on Key board

- IR Ctrl

MENU DVB-T(DMB) DVD	MENU DVB-T(DMB) DVD
OSD DVB-T Sel Learn Cancel IR-Ctrl DVD User Utility Sys	OSD ALL - Clear IR-Ctrl POWER Utility SCAN CH+ CH-
 Select IR Ctrl → DVB/DVD/DVR → Learn to register IR code 	② All Clear : Remove all value of Remote control registered before Select one of the buttons registering to move on to next step
3 MENU DVB-T(DMB) DVD	※ Caution
OSD IR-Ctrl Utility Save Clr Cancel	 Delete : ALL Clear – Delete all value Clr – Delete one button's Value Play/Pause: To use D button, Please register the IP code up power (Pause menu
③ Press a button on the remote control of DVD/DTV then the IR code will be appeared on "New code" menu. Press the same button one more time to confirm the IR code. (Cfm code = confirm code)	separately

1. Diagram



2. CAN Connection



1. Please loosen the indicated screws to remove the Jog shuttle cover



2. Please take the Command out to disconnect OEM power cable



3. Please remove the indicated black connector from the OEM plug & play connector



4. Please push the indicated lock button to take away connector



5. Please put the removed cable into the black connector (Make sure the direction of an arrow)





3. LVDS Connection



1. First, please prepare offered LCD connector and LVDS cable



3. Please remove the pink cover by usin g a tool



2. Please unplug the Original LVDS cable from the back of monitor (IC, DISP)





4. Please separate the cable from the connector like the picture above



3. LVDS Connection

Offered LVDS cable



5. Please insert the offered LVDS cable to the OEM connector then cover the connector with the pink cover







6. Please insert the disconnected OEM LVDS cable into the offered LCD connector and push the pink button on the connector to fix the OEM cable to the connector

%Please refer to the next page for the different type of command

3. LVDS Connection

****** The LVDS connection is different according to the type of command.

[Type-1]

: There is an OEM brown connector next to the OEM white connector



Offered LVDS cable

Please insert the offered LVDS cable to the white OEM connector

[Type-2]

: There is no OEM brown connector next to the OEM white connector



Please insert the offered LVDS cable to the Blue OEM connector

3. TOUCH PANEL Installation

*Caution : The OEM screen can be defective by being pressed

(There is no space between LCD panel and plastic cover. Therefore, some parts should be chopped to attach the touch film. But even though chopping some parts, The OEM touch screen can be pressed by the touch film) – **GU electronic does not recommend to attach the touch film because of the reason**



1. Take the indicated cover out from the back side of monitor





3. Chop the plastic indicated in the picture above to attach the 12.3" touch film



4. Attach the 12.3" touch film support@car-solutions.com



2. Loosen the screws



[Monitor]

4. Chop the indicated parts until touch film can be attached

Caution

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