

Installation Manual

NTG 5.5 for Mercedes-Benz E-class

INDEX

Sp	ecifications	
1.	Main Spec	
2.	Diagram	
	Components	5
4.	Components (Option)	6
5.	Exterior	7
Se	ttings	
1.	Dip Switch	8
2.	Parking→Drive	9
3.	Original Button	10
4.	Parking→Drive Original Button OSD Menu	14
	stallation	
1.	Diagram	23
	CAN Connection	
3.	LVDS Connection	25
4.	TOUCH Installation	.28
5.	Caution	29

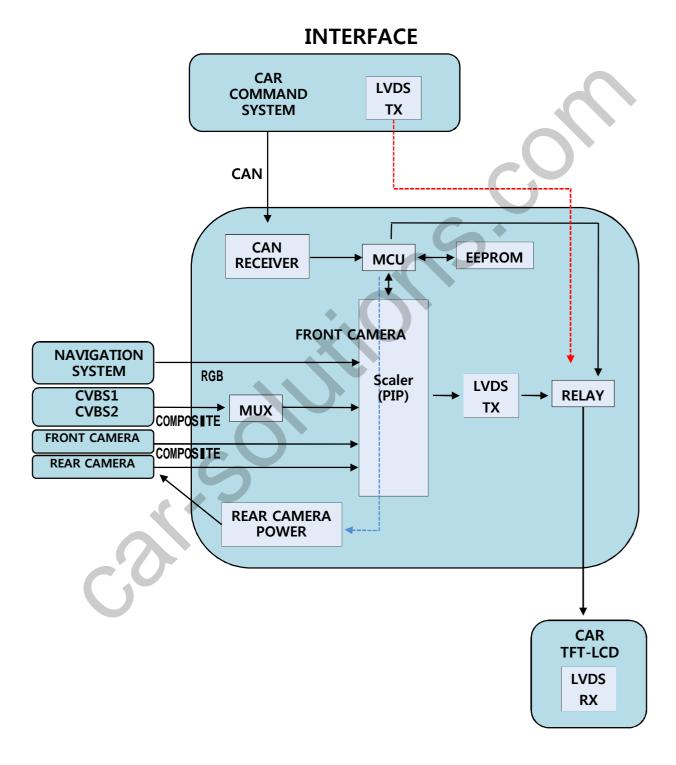
1. Main spec.

- 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) İnput. (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 using A/C buttons (Refer to P.11)
- NAVI PIP function
- Possible to switch from external screen to OEM Phone mode screen 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")

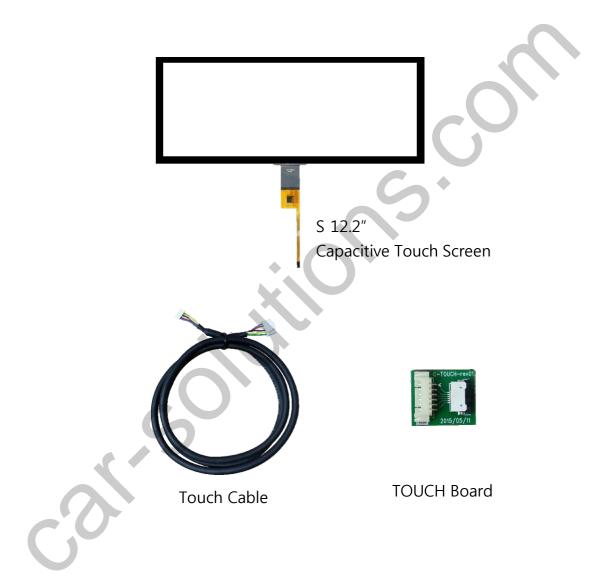
3. Diagram



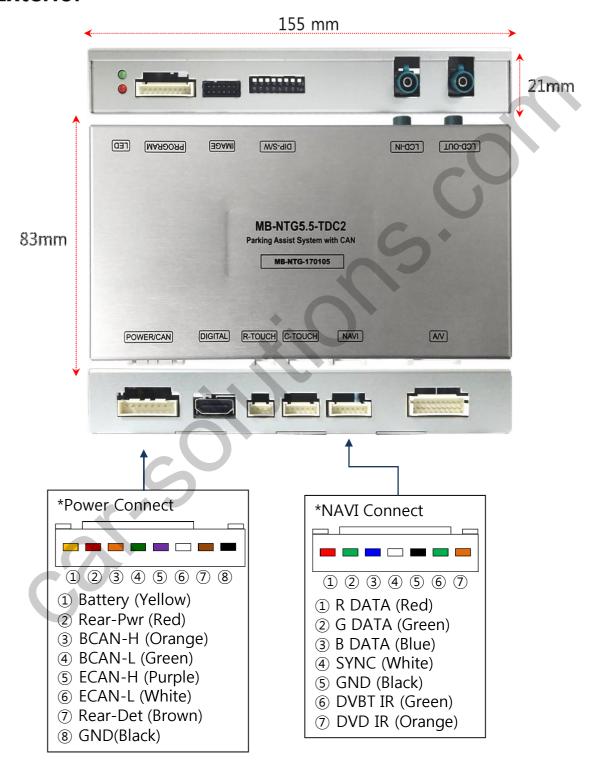
4. Components



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	Page. 9
6		ON : -
7	CAR model	ON : E class 12.3"
8		ON : E class 8.4" , E class 12.3"

* Example



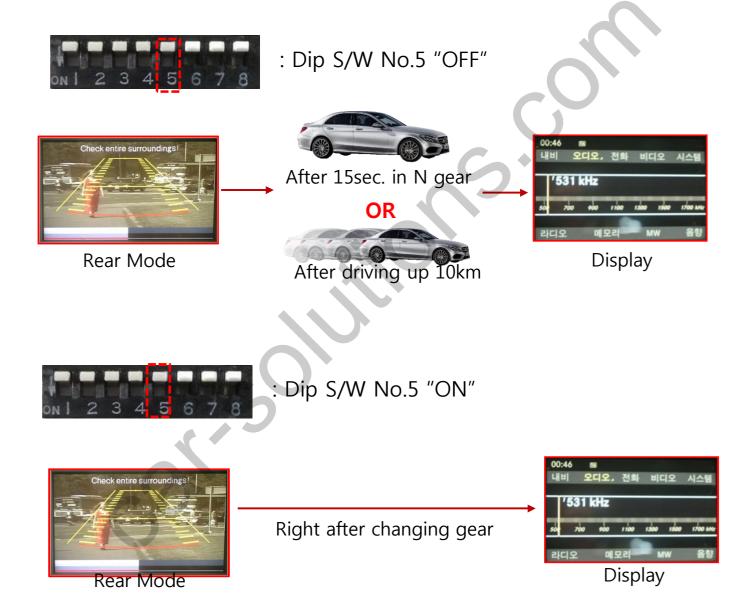
E class 12.3" Model



E class 8.4" Model

2. Parking → Drive setting

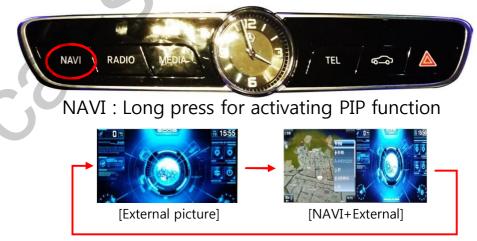
 Setting time to display screen when changing gear from P to N or D



3. Original button – Switching mode



-PIP function



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

- 3. Original button Switching mode
- Overlay function



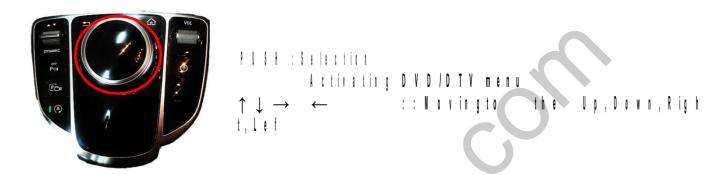
- When pressing the buttons in the picture above, The OEM A/C information bar will appear on external screen like the picture blow



X 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

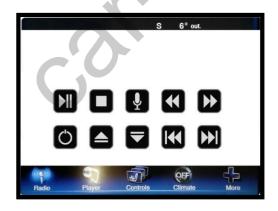


• DTV (Select the type of I-con)





DVD



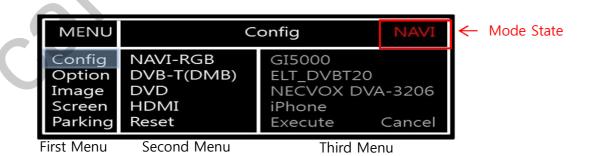


X To use this function, It is necessary to offer the remote IR code to manufacturer or setting OSD IR – Ctrl (P. 22)

3. Original button – OSD Setting

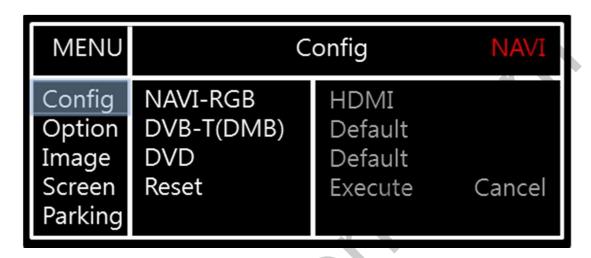


- 1 Long press (6sec) :Activating OSD Short press : Exit
- ② Select
- **3** Up, Increasing value
- 4 Moving from first menu to third menu in order
- **5** Down, Decreasing value
- **6** Moving from Third menu to First menu in order



4. OSD Menu

X Control the menu below by Original button



Config - NAVI-RGB : Setup for the type of RGB

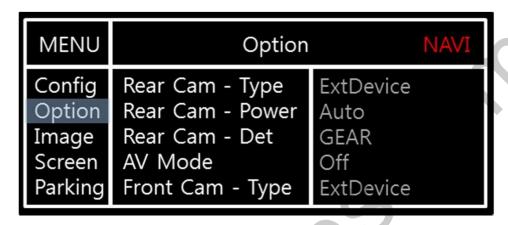
Config - DVB-T : Setup for the type of DVB-T

Config - DVD : Setup for the type of DVD

Reset: Reset all value

4. OSD Menu

X Control the menu below by Original button

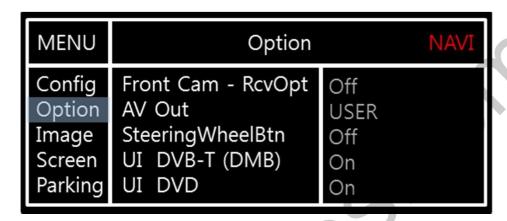


Option

- 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: Change "Rear" input as Video input (N.C)
 ON Video input (Rearcam TYPE in OSD menu should be "OEM")
 OFF Rear input
- FrontCam-Type : Setup for front camera ExtDevice - External rear camera
 OEM - Original camera

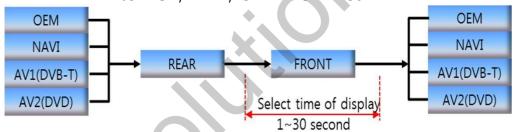
4. OSD Menu

X Control the menu below by Original button



Option

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



· AV out . Setup for the external AV out in Olivi screen

AV1: AV1's Audio comes out in OEM screen

AV2: AV2's Audio comes out in OEM screen

USER: select one of Audio out

SteeringWheelBtn: Setting for Steering wheel button (switching mode)

ON - USE

OFF - NOT USE

UI DVB-T(DMB): Setting for UI DVB-T(DMB) ICON

ON - Display

OFF - Skip

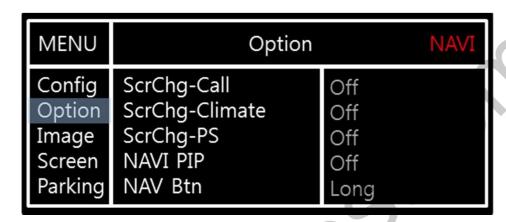
UI DVD : Setting for UI DVD ICON

ON - Display

OFF - Skip

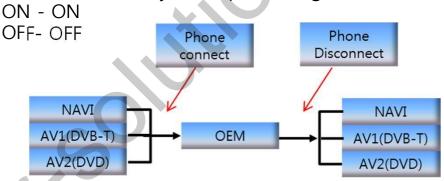
4. OSD Menu

X Control the menu below by Original button



Option

 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)
- 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

4. OSD Menu

X Control the menu below by Original button



Option

NAVI COM: Connect touch through UART

(Feature : Possible to implement Zoom IN/OUT in Navi screen)

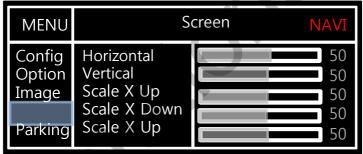
- × 1) Necessary to get Uart protocol from Navi manufacturer
 - 2) Impossible to calibrate in Qroi
- Reset : Reset all value

4. OSD Menu

X Control the menu below by Original button

- NAVI(RGB) Image / Screen





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

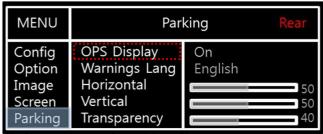


4. OSD Menu – Parking Line

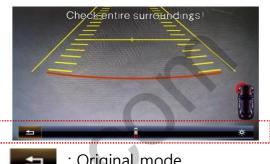
X Control the menu below by Original button

Parking line - ON

-Parking guide line ON/OFF



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



: Original mode

: PAS on/off

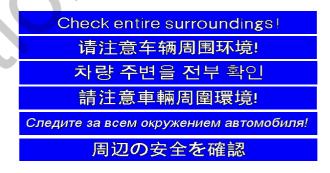
: Adjustment of brightness

Can be adjusted by the Jog shuttle

Language



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



-Adjusting the position of guide line Possible to adjust the position of line



by Jog shuttle in Horizontal / Vertical menu ※ Pressing this Horizontal / Vertical menu, The OSD screen automatically disappears.

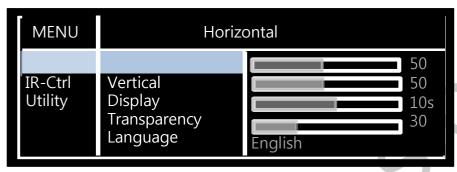
Please adjust from the parking line Screen.



4. OSD Menu

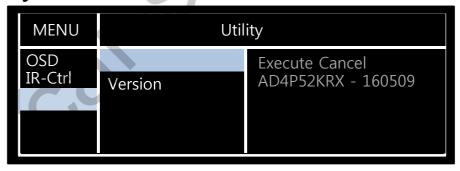
X Control the menu below by Original button

- OSD



- OSD Horizontal
- OSD Vertical
- OSD Display : Setting time for displaying OSD menu
- OSD Transparency
- OSD Language : Setting language of ODS menu
- IR Ctrl (p.22)

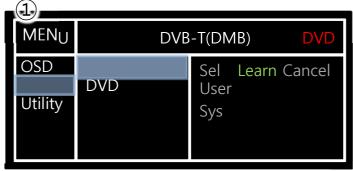
- Utility



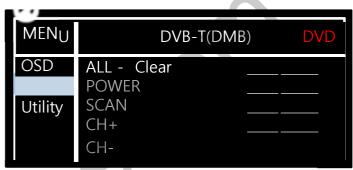
Utility – INTERFACE SOFTWARE

4. OSD Menu – Register IR code

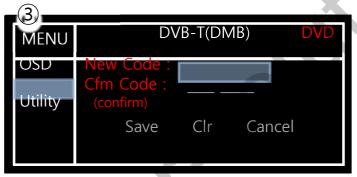
- **X** Control the menu below by Original button
- IR Ctrl



- Select IR Ctrl → DVB/DVD/DVR
- → Learn to register IR code



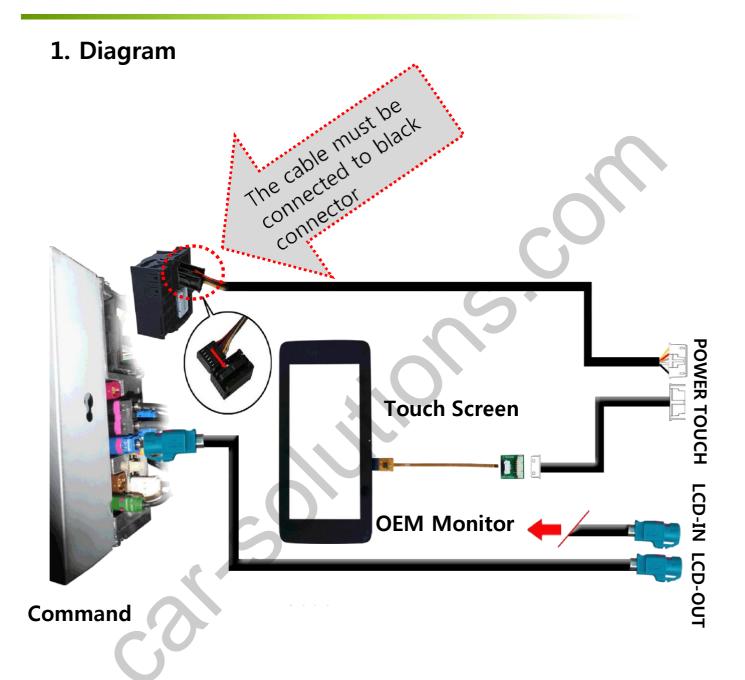
② All Clear: Remove all value of Remote control registered before Select one of the buttons registering to move on to next step



③ 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)

X Caution

- Delete :
 - ALL Clear Delete all value Clr – Delete one button's Value
 - Play/Pause:
 - To use button, Please register the IR code in power / Pause menu separately



2. CAN Connection



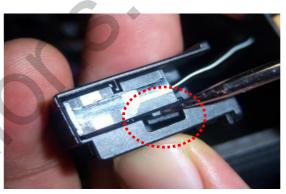
1. Please loosen the indicated screws to remove the Jog shuttle cover



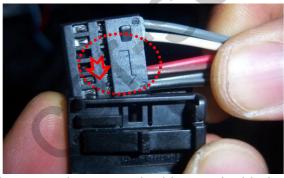
disconnect OEM power cable



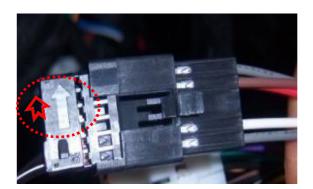
3. Please remove the indicated black connector from the OEM plug & play connector



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

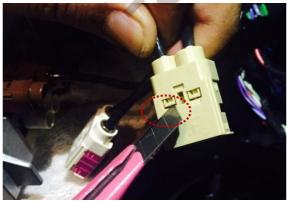


2. Please unplug the Original LVDS cable from the back of monitor (IC, DISP)



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



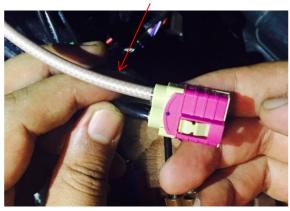


4. Please separate the cable from the connector like the picture above



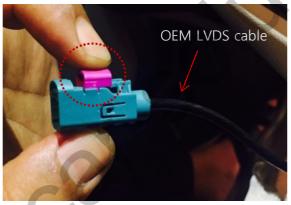
3. LVDS Connection

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



XPlease refer to the next page for the different type of command

3. LVDS Connection

X 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

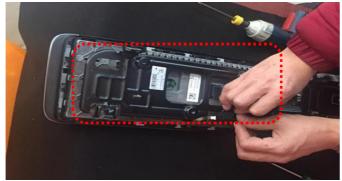


Please insert the offered LVDS cable to the Blue OEM connector

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**



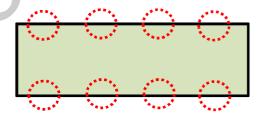
1. Take the indicated cover out from the back side of monitor



2. Loosen the screws



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



[Monitor]

Chop the indicated parts until touch film can be attached



4. Attach the 12.3" touch film

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
- GU electronic does not take any responsibility for any problem caused by wrong installation