

Instruction Manual

BENZ TAC2 for Mercedes Benz

Car-Solutions.com

INDEX

Specifications

1. Main Spec. -----	3
2. Diagram -----	4
3. Components -----	5
4. Components (Option) -----	6
5. Exterior -----	7

Settings

1. Dip Switch -----	9
2. Parking→Drive -----	10
3. Touch control -----	12
4. Original Button -----	13
5. OSD Menu -----	15

Installation

1. Touch installation -----	23
2. LVDS Connection -----	25
3. CAN Connection -----	26
4. Caution -----	27

Specification

1. Main spec.

1-1 Input Spec. (MULTI VIDEO INTERFACE)

- 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)

1-2 Output Spec.

- 1 x LCD Output (LCD Operation)

1-3 Power Spec.

- Input Power : 8VDC ~ 24VDC
- Consumption Power : 12Watt, Max

1-4 Switch Input mode

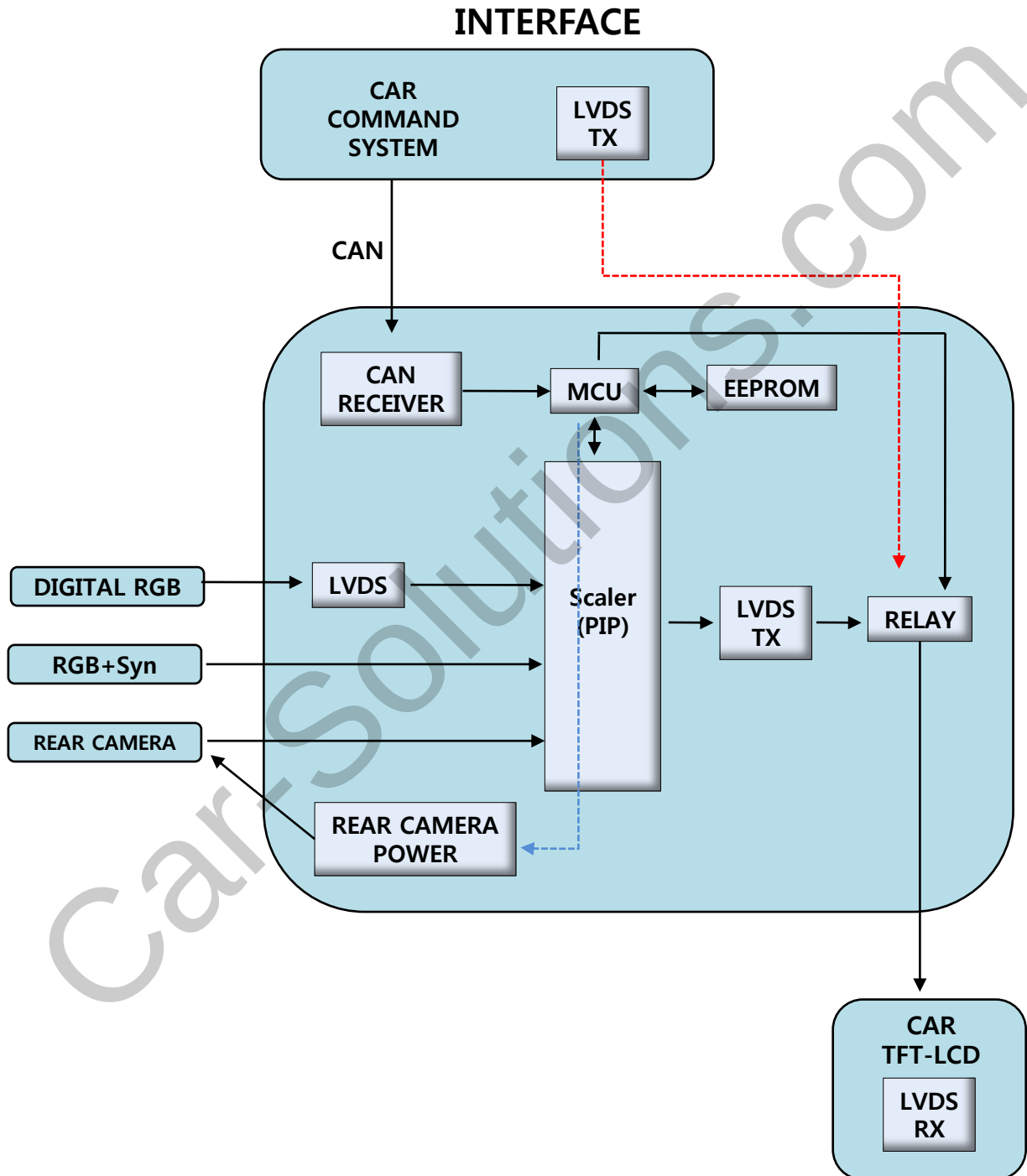
- Possible to switch input mode through original button

2. Features

- Possible to switch from external screen to OEM Phone mode screen automatically when phone rings
- The external video input will be blocked while driving
- Possible to register IR code of DVD/DTV
- Capacitive touch screen with frame
- Easy installation with Plug&Play power/LVDS cable
- Display dynamic PAS (Parking assistance system) with PDC

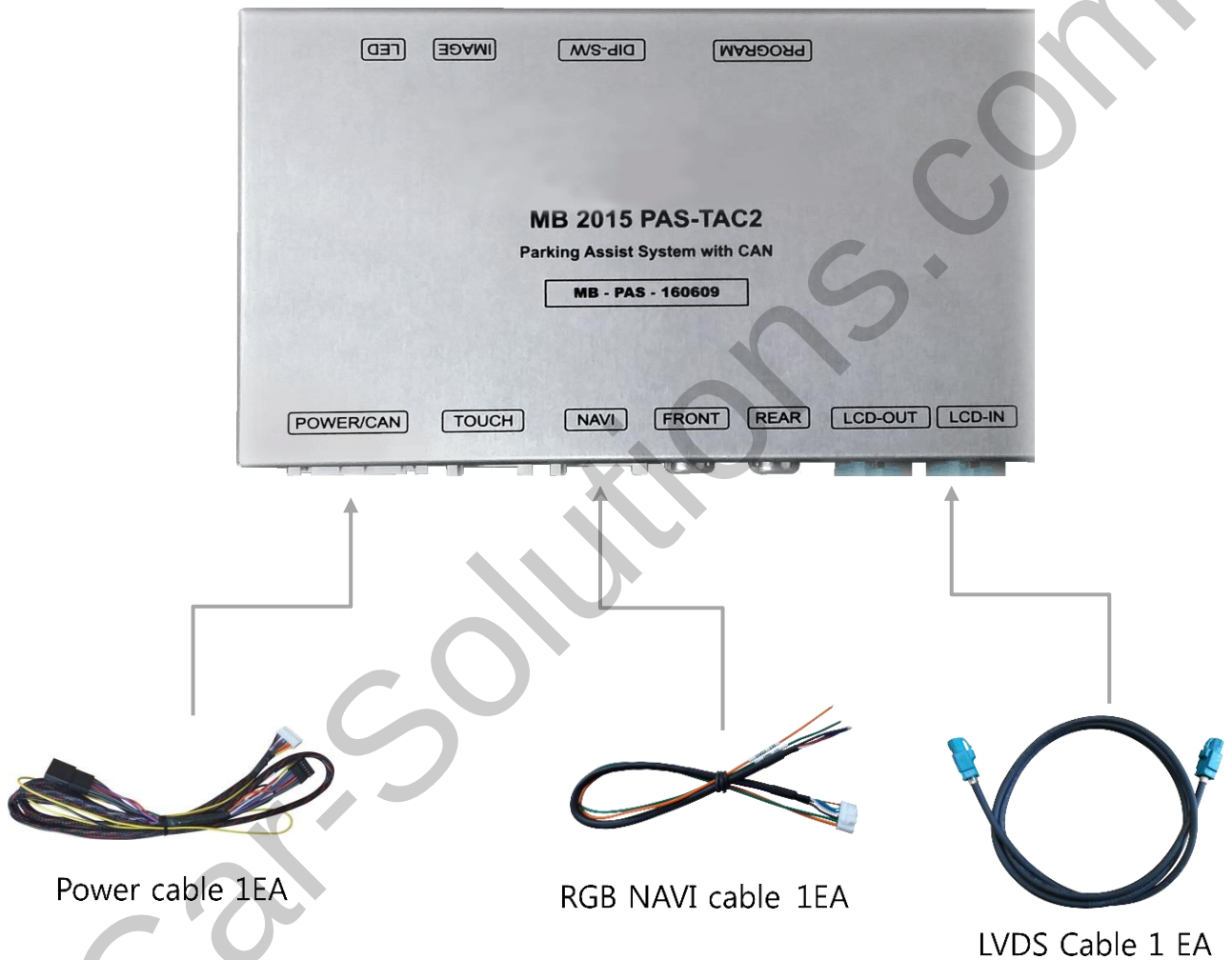
Specification

3. Diagram



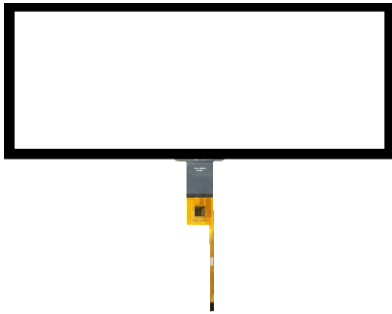
Specification

4. Components



Specification

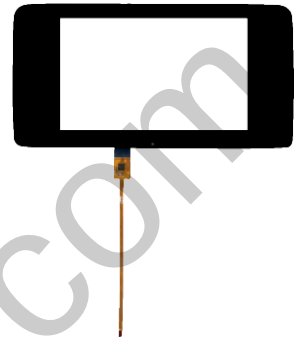
4. Components (Option)



S 12.2"
Capacitive Touch Screen



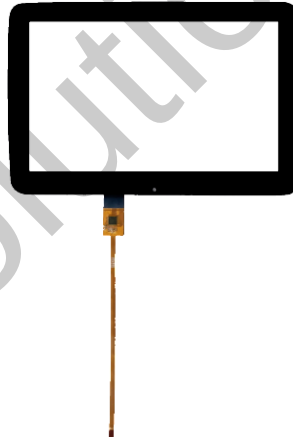
GLC/C 8.4"
Capacitive Touch Screen



CLS 8.0"
Capacitive Touch Screen



CLA/B 7.0"
Capacitive Touch Screen



GLA/CLA 8.0"
Capacitive Touch Screen



E 7.0"
Capacitive Touch Screen



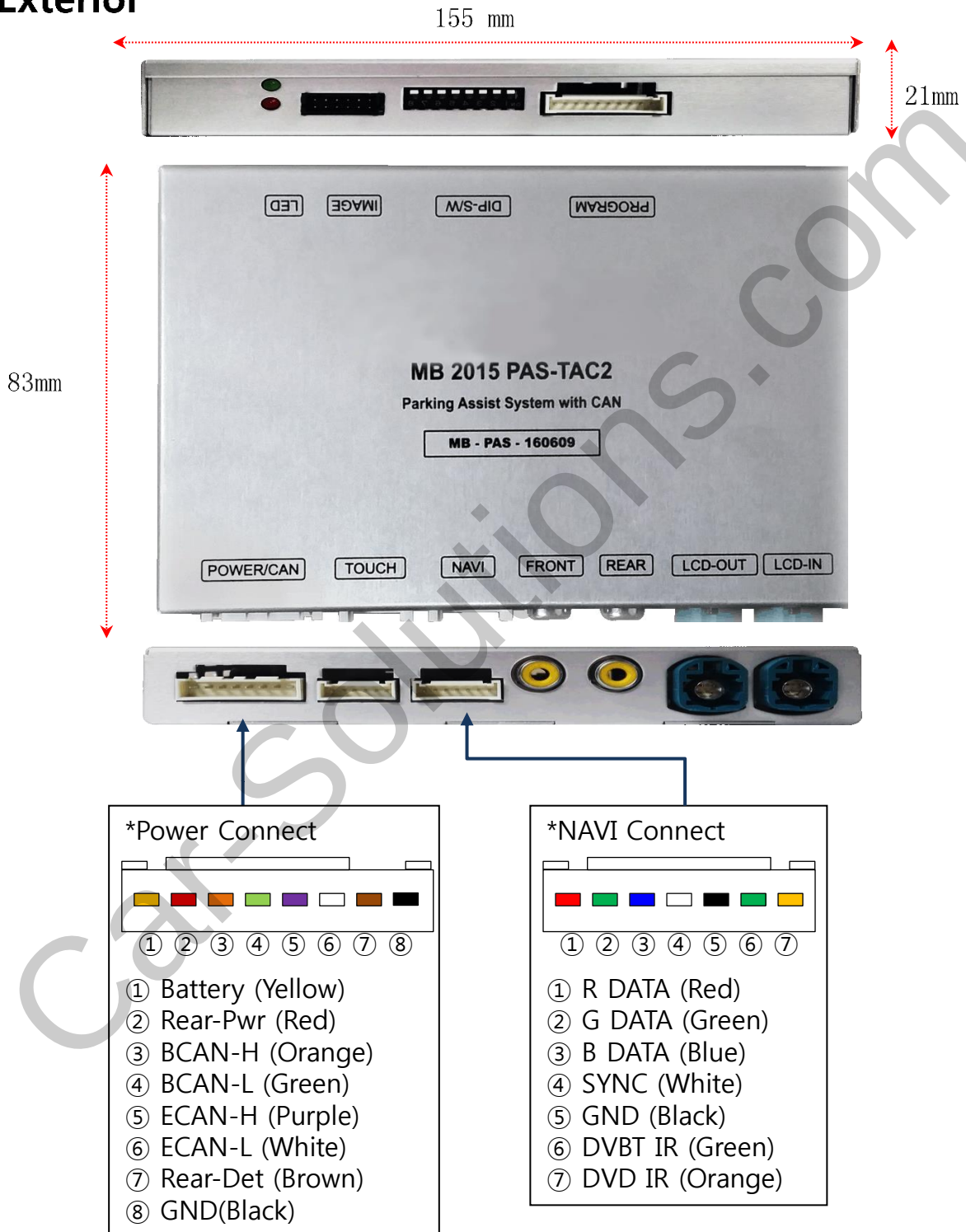
Touch Cable



Touch Board

Specification

5. Exterior



Settings

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	CAR model	ON : B,CLA,CLS,GLE 7", 8", E 8.4"
7		ON : S 12", 12" Split view
8		ON : S 12", 12 Split view, C 8.4", E 8.4"

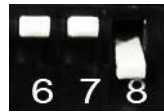
* Example



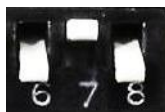
S class 12"split view



S class 12"Model



C class 8.4"Model



E class 8.4" Model



C/GLC class 7"Model



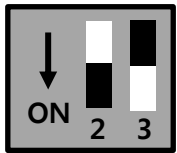
B/CLA/CLS/GLE class
7"/8"Model

Settings

1. Dip Switch- DVB-T, DVD Setting

※ The "Front input" can be used for DVD or DTV input (AV1 : DTV, AV2: DVD – Possible to install only one of them)

- AV1 Setting – For DTV



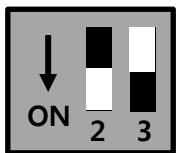
No.2: Off / No.3: On

DVB-T UI On/Off (Refer to P15)

(Dip no.3 should be ON (Skip) Otherwise AV2 screen will appear)



- AV2 Setting – For DVD



No.2: On / No.3: Off

DVD UI On/Off (Refer to P15)

((Dip no.2 should be ON (Skip) Otherwise AV1 screen will appear.))



Settings

2. Parking → Drive setting

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



: Dip S/W No.5 "OFF"



Rear Mode

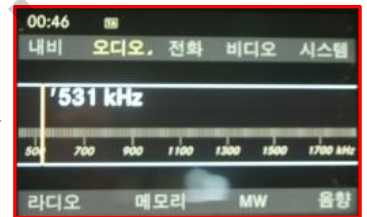


After 15sec. in N gear

OR



After driving up 10km



Display



: Dip S/W No.5 "ON"



Rear Mode

Right after changing gear

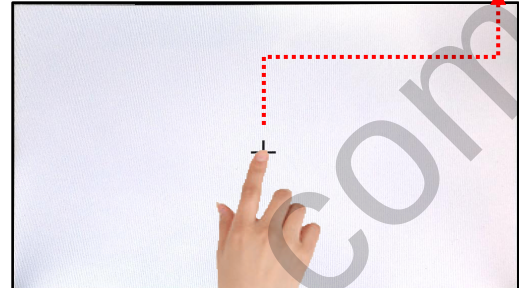


Display

Settings

3. 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)

Touch the "+" correctly

- DVB-T/DVD Control

Press Touch (Anywhere)



DVB-T

Press Icon



DVD

Settings

4. Original button – Switching mode

C- CLASS



<Steering wheel>



<Jog shuttle>

S- CLASS



<Steering wheel>



<Jog shuttle>



/ **NAVI:**

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

Settings

4. Original button – DVB-T, DVD Menu

* Control the menu below by Original button



PUSH : Selection

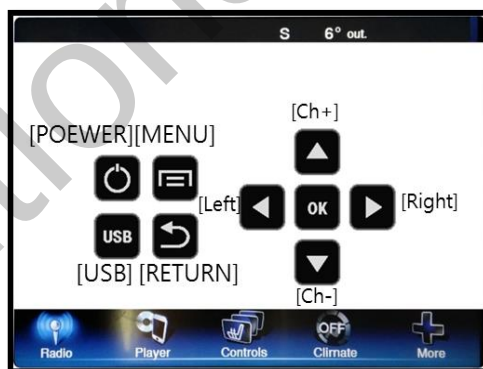
Activating DVD/DTV menu

↑ ↓ → ← : : Moving to the Up, Down, Right, Left

- DTV (Select the type of I-con)

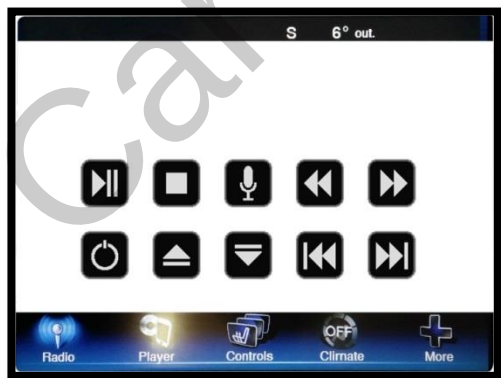


[Type -1]



[Type -2]

- DVD



	[Play/Pause]		[POWER]
	[stop]		[DISC UP]
	[Audio]		[DISC DOWN]
	[FR]		[Play next chapter]
	[FF]		[Play previous chapter]

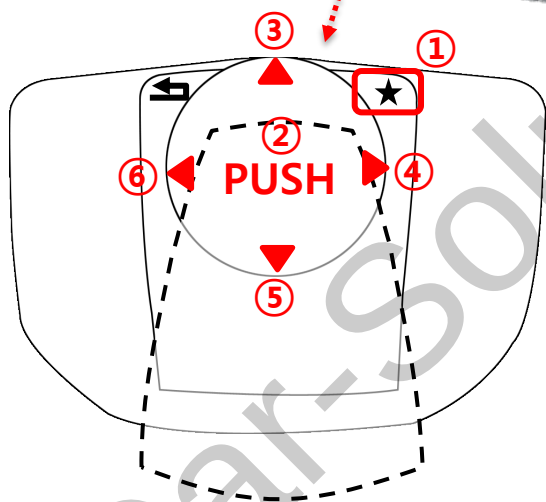
※ To use this function, It is necessary to offer the remote IR code to manufacturer or setting OSD IR – Ctrl (P. 22)

Settings

4. Original button – OSD Setting



< S-class >



- ① Long press (6sec) :Activating OSD
Short press : Exit
(※ s-class : )
- 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

MENU	Config		NAVI
Config	NAVI-RGB	GI5000	
Option	DVB-T(DMB)	ELT_DVBT20	
Image	DVD	NECVOX DVA-3206	
Screen	HDMI	iPhone	
Parking	Reset	Execute	Cancel

← Mode State

First Menu

Second Menu

Third Menu

Settings

5. OSD Menu

※Press "MENU" button on Key board

MENU	Config NAVI	
Config	NAVI-RGB	KD900-WVGA
Option	DVB-T (DMB)	NET-770
Image	DVD	ELT-980XU Slim
Screen	Reset	Execute Cancel
Parking		

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

Settings

5. OSD Menu

※Press "MENU" button on Key board

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

Option

- RearCam-Type : Setup for rear camera
ExtDevice - External rear camera
OEM - Original carmer
- 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
- 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

Settings

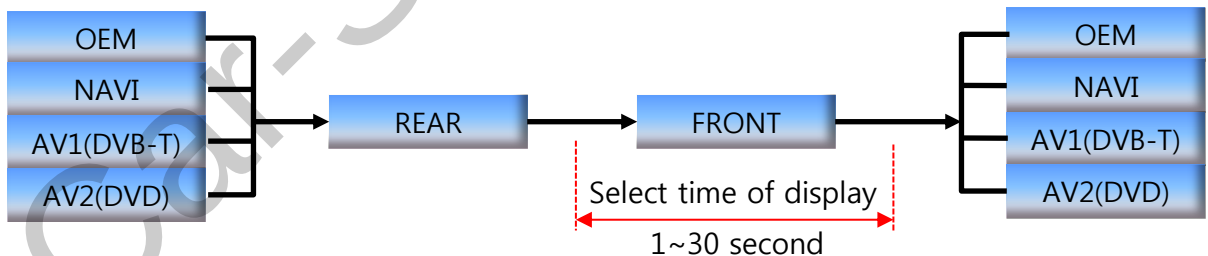
5. OSD Menu

※Press "MENU" button on Key board

MENU	Option	NAVI
Config	Front Cam-Det	ExtWire
Option	SafeMode	On Off
Image	Front Cam – RcvOpt	0s
Screen	UI DVB-T(DMB)	On
Parking	UI DVD	On

Option

- FrontCam-Det : Setup for front detection
ExtDevice - External rear camera
OEM - Original camera
- SafeMode : The external video input will be blocked while driving
(It is necessary to select car model – refer to next page)
ON – ON
OFF – OFF
- FrontCam-RcvOpt : Selecting time of displaying Front camera before switching to RGB, DVD, OEM from Rear



- UI DVB-T(DMB) : Setting UI ICON - ON or OFF
- UI DVD : Setting UI ICON - ON or OFF

Settings

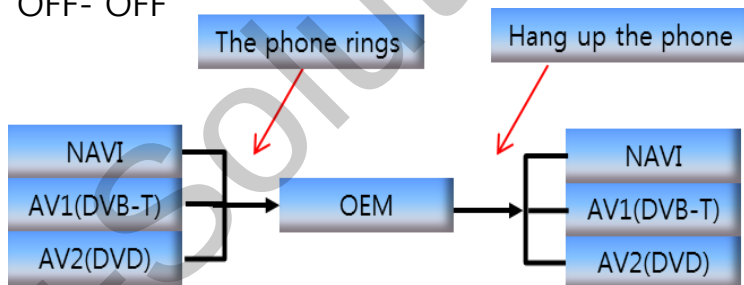
5. OSD Menu

※Press "MENU" button on Key board

MENU	Option		NAVI
Config	ScrChg-Call	On	
Option	PBrake ID	NTG5.0	NTG5.1
Image	NAV Btn	On	
Screen	Reset	Execute	Cancel
Parking			

Option

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



- PBrake ID : Set up car model for using 'Safe Mode'
NTG5.0- NTG5.0 ex) S, C-class
NTG5.1- NTG5.1 ex) E, G, B, A-class
- NAV Btn: Setup for OEM NAVI Button(Switching Mode)
ON- Switching mode
OFF- Switching to OEM directly

Settings

5. OSD Menu

※Press "MENU" button on Key board

- NAVI(RGB) Image / Screen

MENU	IMAGE	NAVI
Config	Brightness	 50
Option	Contrast	 50
Image	Color- RED	 50
Screen	Color- GREEN	 50
Parking	Color- BLUE	 25

MENU	Screen	NAVI
Config	Horizontal	 50
Option	Vertical	 50
Image	Scale X Up	 50
Screen	Scale X Down	 50
Parking	Scale X Up	 50

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

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

Settings

5. OSD Menu - Parking mode

※Press "MENU" button on Key board

-Parking guide line ON/OFF

MENU	Parking Rear	
Config	OPS Display	On
Option	Warnings Lang	English
Image	Horizontal	<input type="range"/> 50
Screen	Vertical	<input type="range"/> 50
Parking	Transparency	<input type="range"/> 40

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

- Language

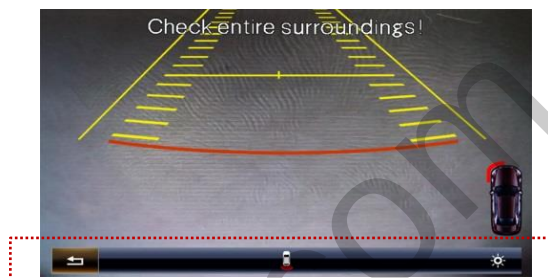
MENU	Parking / Warnings Lang Rear	
Config	OPS Display	English
Option	Warnings Lang	中文
Image	Horizontal	한국어
Screen	Vertical	台灣
Parking	Transparency	Р О С С И Я

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

-Adjusting the position of guide line

MENU	Parking Rear	
Config	OPS Display	On
Option	Warnings Lang	English
Image	Horizontal	<input type="range"/> 50
Screen	Vertical	<input type="range"/> 50
Parking	Transparency	<input type="range"/> 40

Parking line - ON



: Original mode



: PAS on/off



: Adjustment of brightness

* Can be adjusted by the Jog shuttle

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

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

Settings

5. OSD Menu

※Press "MENU" button on Key board

- OSD

MENU	Horizontal	
OSD	Horizontal	 50
IR-Ctrl	Vertical	 50
Utility	Display	 10s
	Transparency	 30
	Language	English

- 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

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

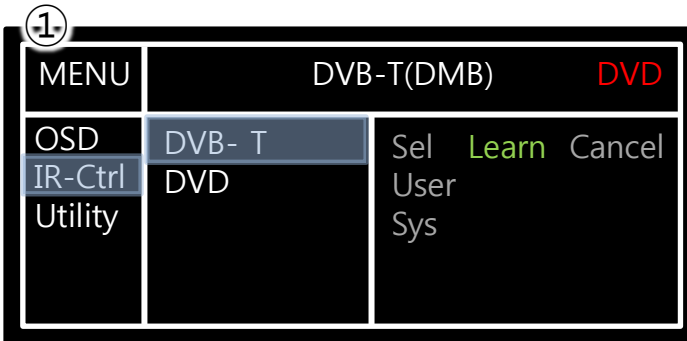
- Utility – INTERFACE SOFTWARE

Settings

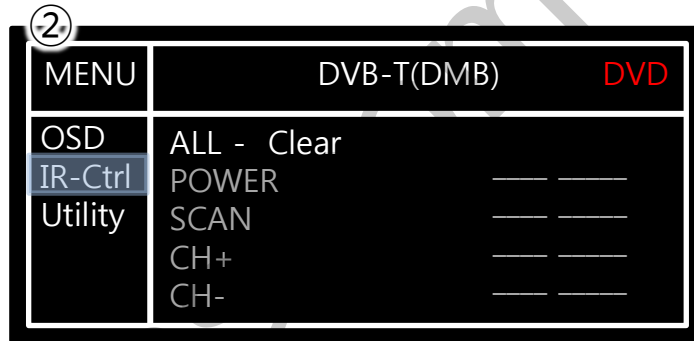
5. OSD Menu – Register IR code

※Press "MENU" button on Key board

- IR Ctrl



① 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



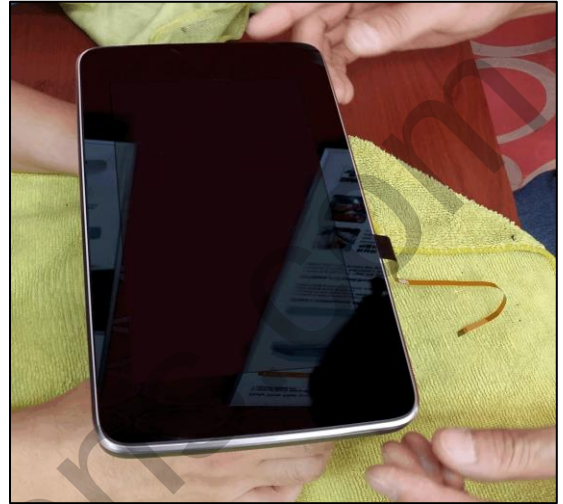
③ Press a button on the remote control
of DVD/DTV then the IR code will be
appeared on "New code" menu. Press the
same button one more time to confirm
the IR code. (Cfm code = confirm code)

※ Caution

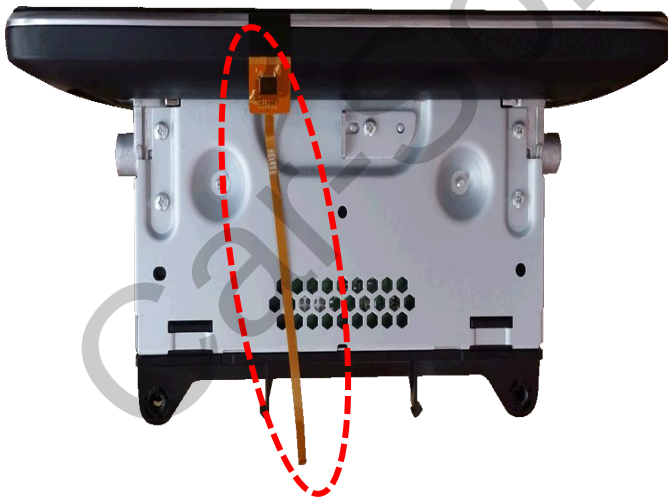
- Delete :
ALL Clear – Delete all value
Clr – Delete one button's Value
- Play/Pause:
To use  button, Please register
the IR code in power / Pause menu
separately

Installation

1. Touch installation – C-Class 8.4"



- ① Please remove the monitor from a car ② Please stick the touch screen on an OEM screen (Make sure the sensor position before sticking)



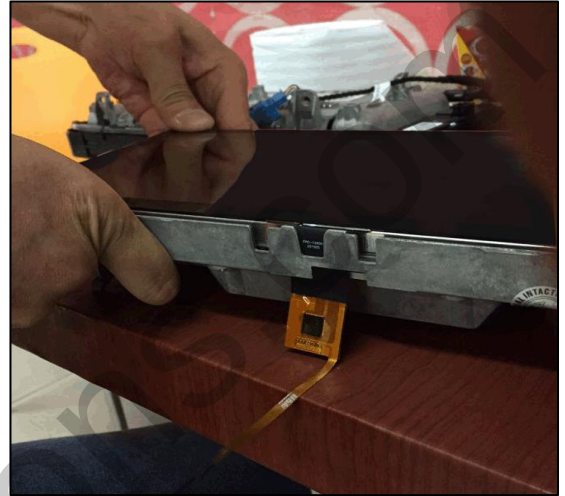
- ③ Please pull out the cable through the back side of monitor ④ Please put the supplied touch board on the indicated part

Installation

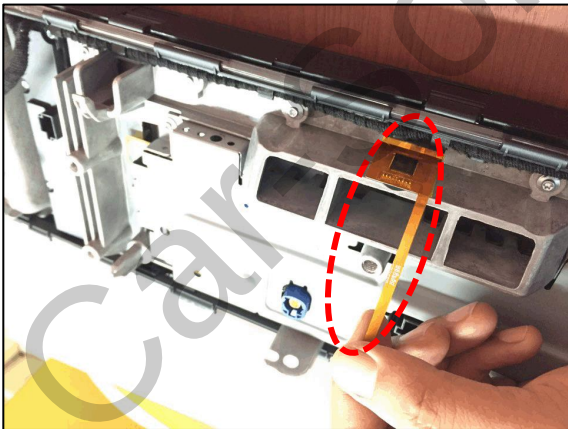
1. Touch installation – S-Class 12.2"



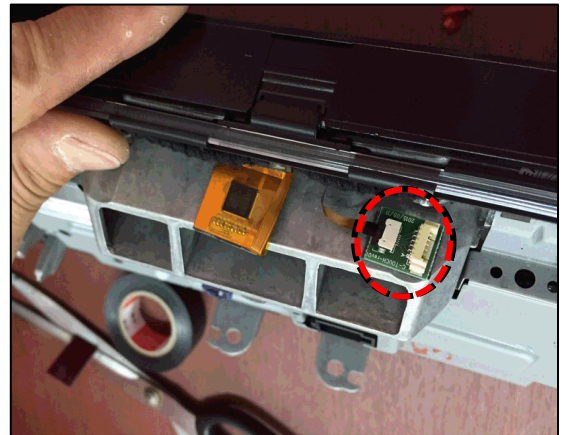
- ① Please remove the monitor from a car



- ② Please stick the touch screen on an OEM screen (Make sure the sensor position before sticking)



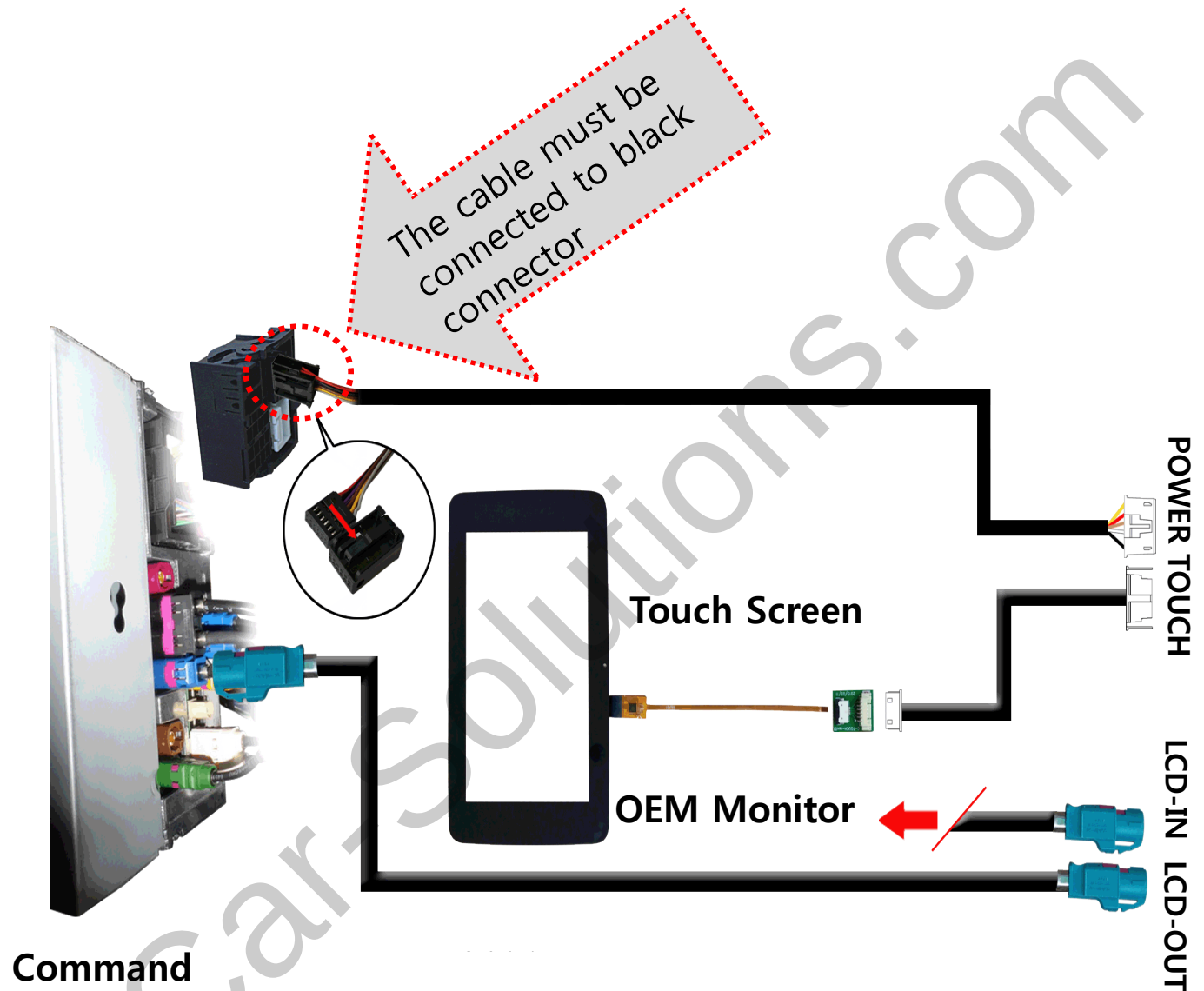
- ③ Please pull out the cable through the back side of monitor



- ④ Please put the supplied touch board on the indicated part

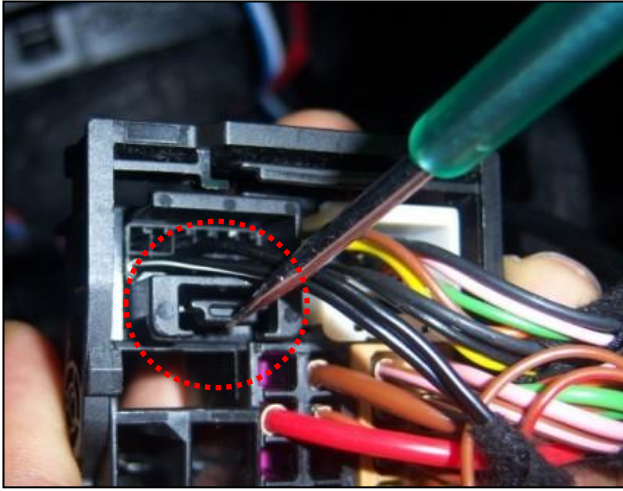
Installation

2. LVDS Connection

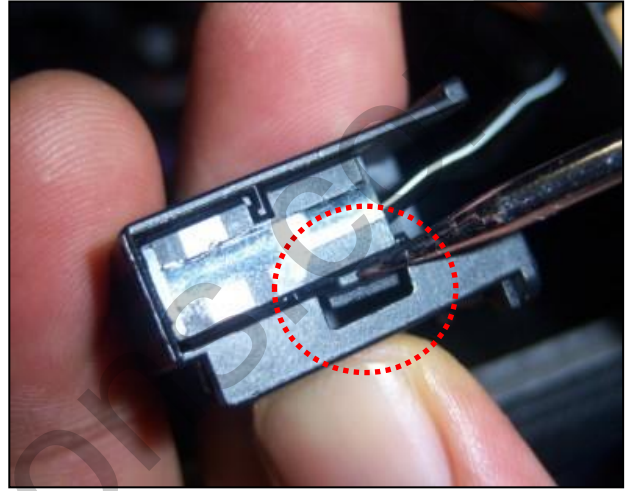


Installation

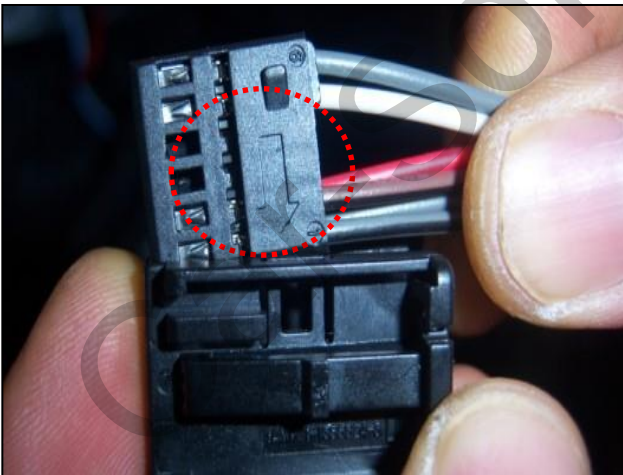
3. CAN Connection



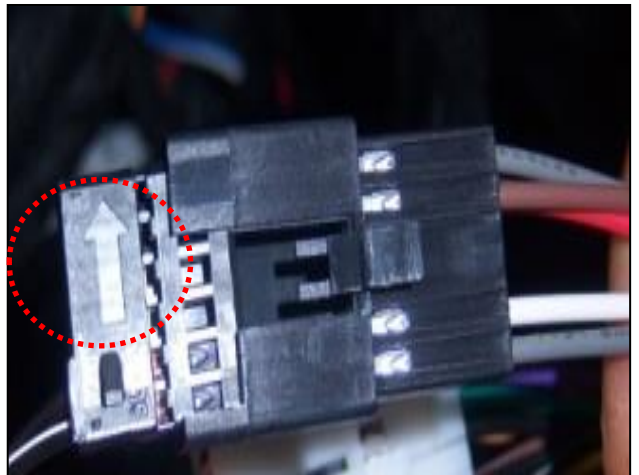
① Please remove the indicated black connector from the OEM plug & play connector



② Please push the indicated lock button to take away connector



③ Please put the removed cable into the black connector
(Make sure the direction of an arrow)



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