

Instruction Manual

GVIF PAS TDIE for TOYOTA LC200



GU ELECTRONIC

INDEX

Specifications

1.	Main Spec. -----	3
2.	Diagram -----	4
3.	Components -----	5
4.	Exterior -----	6

Settings

1.	Dip Switch -----	7
2.	Original button -----	8
3.	Key board -----	9
4.	OSD Menu -----	9

Installation

1.	Power, LVDS Connection -----	14
2.	Touch Connection -----	15
3.	Caution -----	16

Specification

1. Main spec.

1-1 Input Spec. (MULTI VIDEO INTERFACE)

- 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 GVIF Input. (Car Command System)

1-2 Output Spec.

- 2 x CVBS Output (Video out for Installing Headrest Monitor)
- 1 x Audio L/R Output.
- 1 x GVIF Output (LCD Operation)

1-3 Power Spec.

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

1-4 Switch Input mode

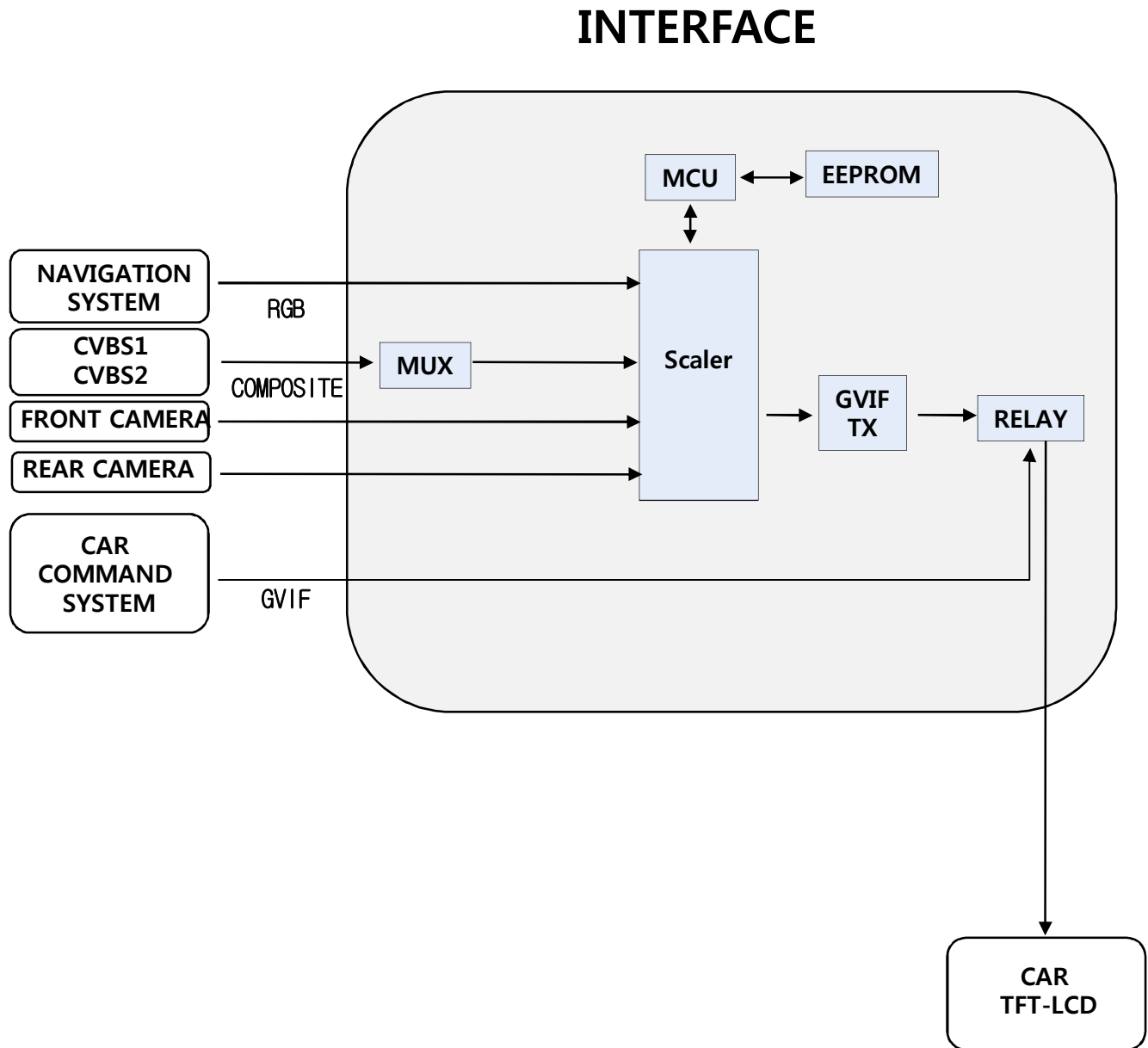
- Possible to switch input mode by OEM button

2. Features

- Easy installation
- Display dynamic PAS (Parking assistance system) with PDC
- Possible to switch input mode by OEM button

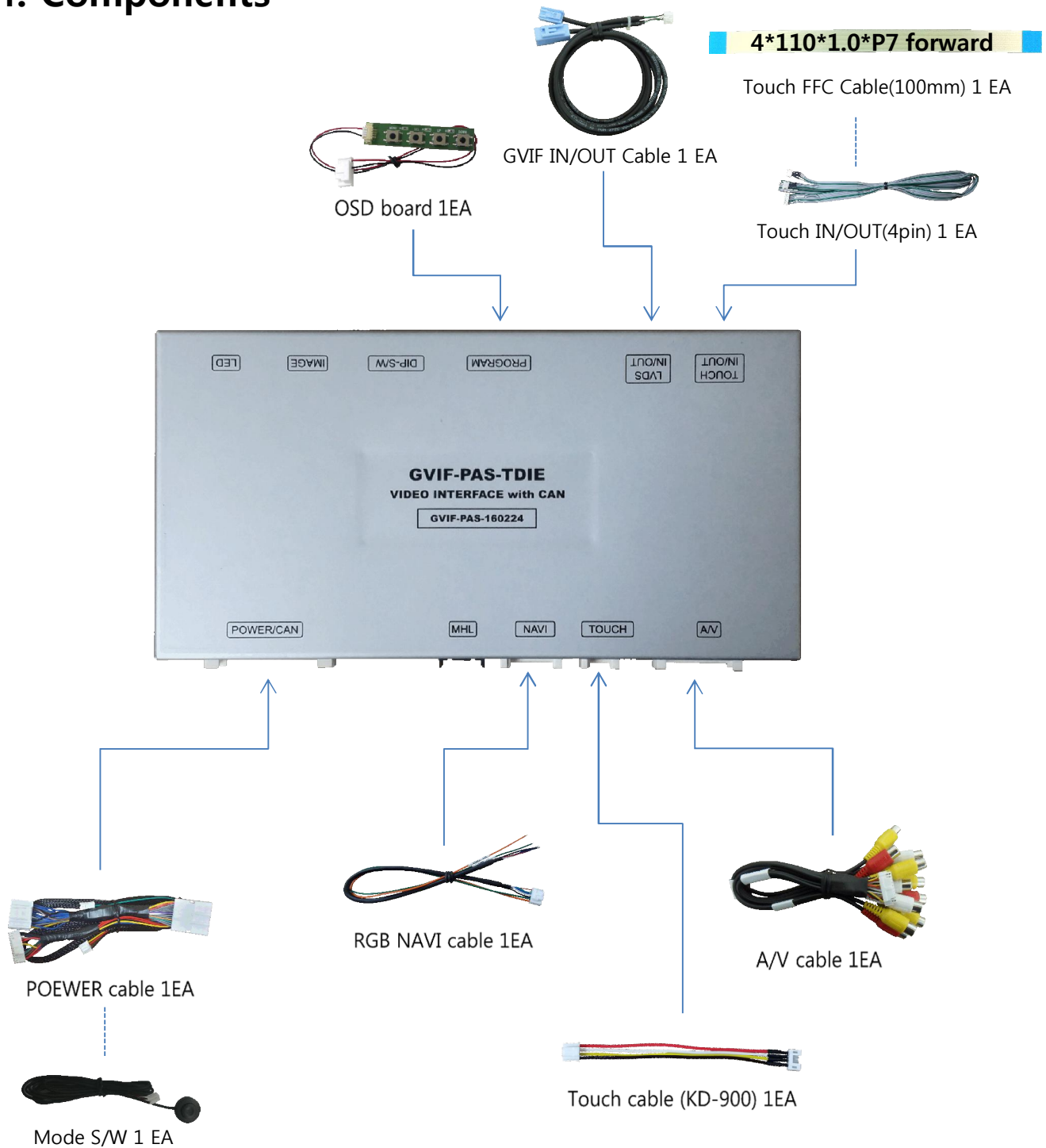
Specification

3. Diagram



Specification

4. Components

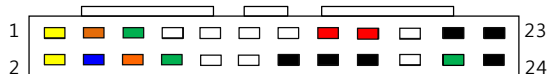


Specification

5. Exterior

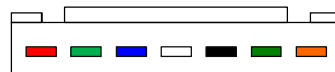


*POWER Connect



- | | |
|---------------------|---------------------|
| 1. Battery (Yellow) | 13. NC |
| 2. Battery (Yellow) | 14. GND (Black) |
| 3. REAR-DET (Brown) | 15. REAR-VCC (RED) |
| 4. FRONT-DET (Blue) | 16. GND (Black) |
| 5. CAN-L (Green) | 17. FRONT-VCC (RED) |
| 6. CAN-H (Orange) | 18. GND (Black) |
| 7. NC | 19. TX |
| 8. SI-OUT (Green) | 20. RX |
| 9. NC | 21. GND |
| 10. SI-IN (White) | 22. MODE (Green) |
| 11. NC | 23. GND (Black) |
| 12. NC | 24. GND (Black) |

*NAVI Connect



- | | | | | | | |
|----------------|------------------|-----------------|----------------|---------------|------------------|-------------------|
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ |
| ① R DATA (RED) | ② G DATA (GREEN) | ③ B DATA (BLUE) | ④ SYNC (WHITE) | ⑤ GND (BLACK) | ⑥ DMB IR (GREEN) | ⑦ DVD IR (ORANGE) |

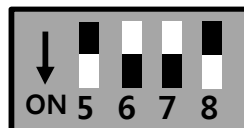
Settings

1. KEY BOARD

* ON : DOWN , OFF : UP

NO.	Function	Selection
1	NAVIGATION	ON : Skipping NAVI OFF : Display
2	AV1 (DVB-T)	ON : Skipping DVB-T OFF : Display
3	AV2 (DVD)	ON : Skipping DVD OFF : Display
4	HDMI	ON : Skipping HDMI OFF : Display
5	CAR MODEL	Refer to picture
6		
7		
8		

* Example



LC200

Settings

2. Original button - Switching mode

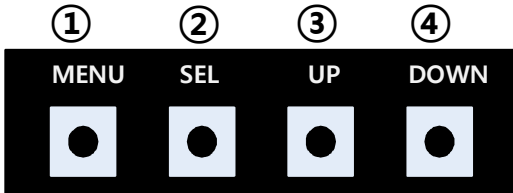


NAVI BUTTON : Switching mode

Other OEM BUTTON : Directly to the OEM screen

Settings

3. Key board



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

4. OSD Menu

※Press "MENU" button on Key board

MENU	Config		NAVI
Config	NAVI-RGB	GI5000	
Option	DVB-T(DMB)	ELT_DVBT20	
Image	DVD	ELT_980XU Slim	
Screen	HDMI	Default	
Parking	Reset	Execute	Cancel

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

Config - DVB-T(DMB) : Setup for the type of DVB-T(DMB)

Config - DVD : Setup for the type of DVD

Config - HDMI : Setup for the type of HDMI

Reset : Reset all value

Settings

4. OSD Menu

※Press "MENU" button on Key board

MENU	Option		NAVI
Config	Rear Cam - Type	ExtDevice	
Option	Rear Cam - Power	Auto	
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 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
IE - By IE-BUS
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

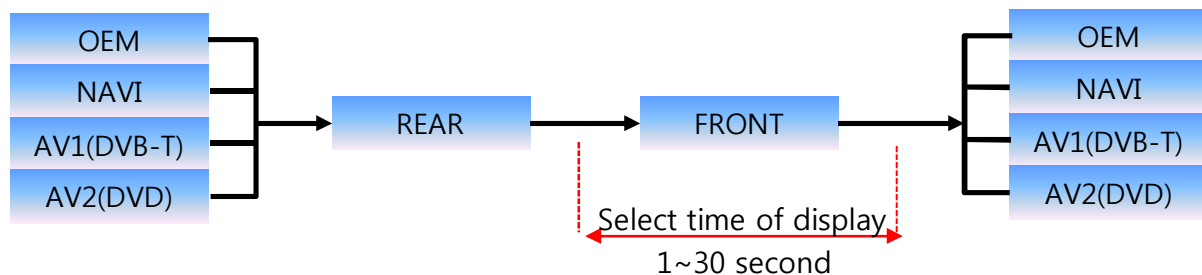
4. OSD Menu

※Press "MENU" button on Key board

MENU	Option	NAVI
Config	Front Cam - Det	ExtWire
Option	Rear Cam - RcvOpt	0s
Image	AV out	USER
Screen	Reset	Execute Cancel
Parking		

Option

- FrontCam-Det : Setup for front detection
ExtDevice - External rear camera
OEM - Original camera
- RearCam-RcvOpt : The time of displaying front camera



- AV out : Setup for the external AV out in OEM screen
AV1 : AV1's AV comes out in OEM screen
AV2 : AV2's AV comes out in OEM screen
USER : select one of AV out
- Reset : Reset all value

Settings

4. OSD Menu

※Press "MENU" button on Key board

- NAVI(RGB) Image / Screen

MENU	IMAGE	NAVI
Config	Brightness	<input type="range"/> 50
Option	Contrast	<input type="range"/> 50
Image	Color- RED	<input type="range"/> 50
Screen	Color- GREEN	<input type="range"/> 50
Parking	Color- BLUE	<input type="range"/> 25

MENU	Screen	NAVI
Config	Horizontal	<input type="range"/> 50
Option	Vertical	<input type="range"/> 50
Image	Scale X Up	<input type="range"/> 50
Screen	Scale X Down	<input type="range"/> 50
Parking	Scale X Up	<input type="range"/> 50

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

MENU	IMAGE	Rear
Config	Brightness	<input type="range"/> 50
Option	Contrast	<input type="range"/> 50
Image	Saturation	<input type="range"/> 50
Screen	Hue	<input type="range"/> 50
Parking	Sharpness	<input type="range"/> 25

Settings

4. OSD Menu – Parking mode

※Press "MENU" button on Key board

-PDC display ON/OFF

MENU	Parking Rear	
Config	OPS Display	On
Option	Line Display	On
Image	Horizontal	50
Screen	Vertical	50
Parking	Space	0

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

-Parking guide line ON/OFF

MENU	Parking Rear	
Config	OPS Display	On
Option	Line Display	On
Image	Horizontal	50
Screen	Vertical	50
Parking	Space	0

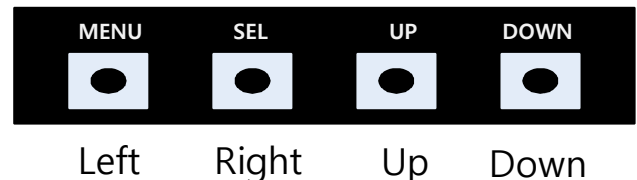
Selecting a use of parking guide line
(OSD Menu – Parking – Line display – ON or OFF)

-Adjusting the position of guide line

MENU	Parking Rear	
Config	OPS Display	On
Option	Line Display	On
Image	Horizontal	50
Screen	Vertical	50
Parking	Space	0

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.



-Adjusting the space of guide line

MENU	Parking Rear	
Config	OPS Display	On
Option	Line Display	On
Image	Horizontal	50
Screen	Vertical	50
Parking	Space	0

Possible to adjust the space of guide line

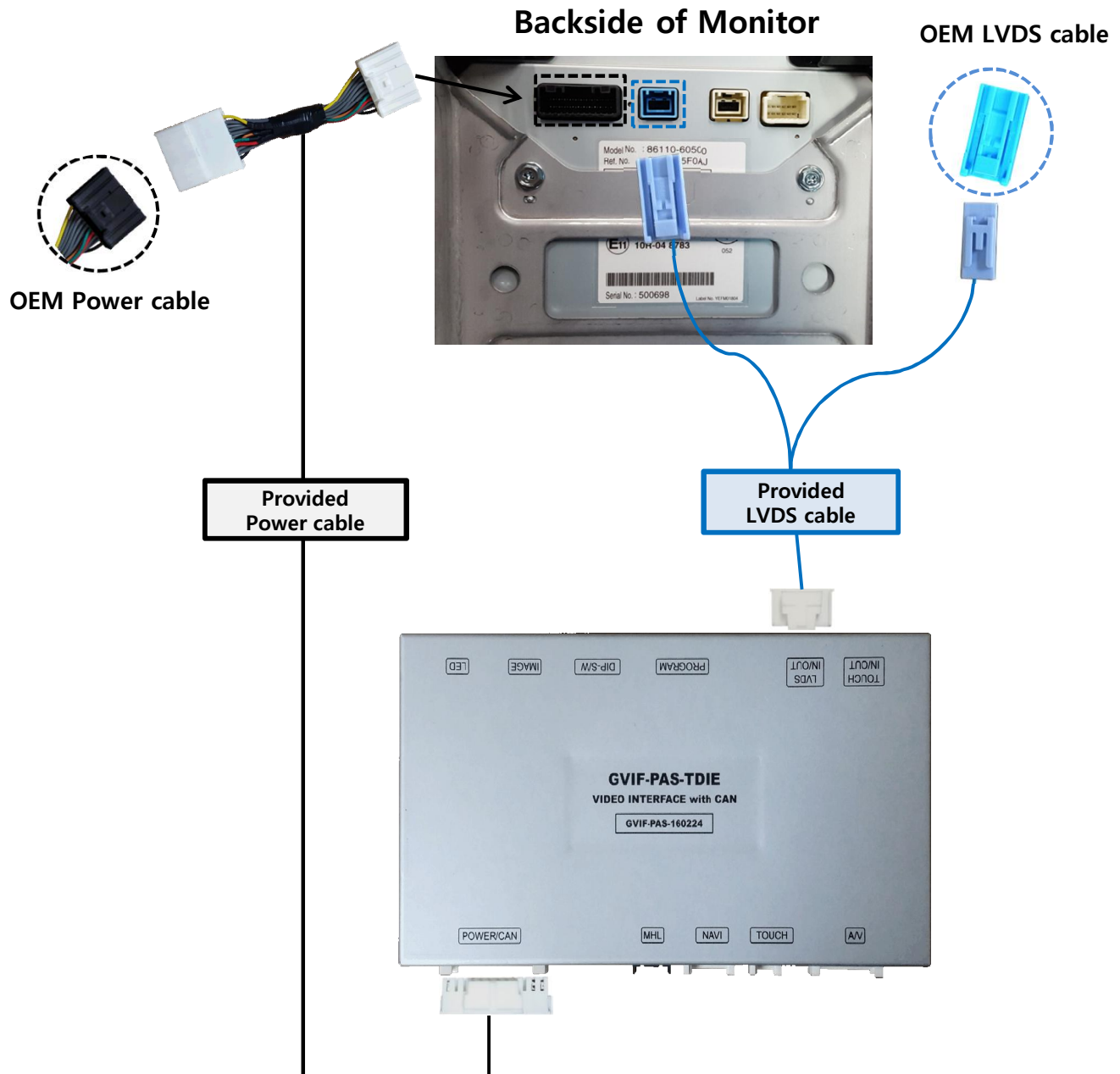
-Adjusting the transparency of guide line

MENU	Parking Rear	
Config	Transparency	40
Option	Reset	Execute Cancel
Image		
Screen		
Parking		

Possible to adjust the transparency of
guide line

Installation

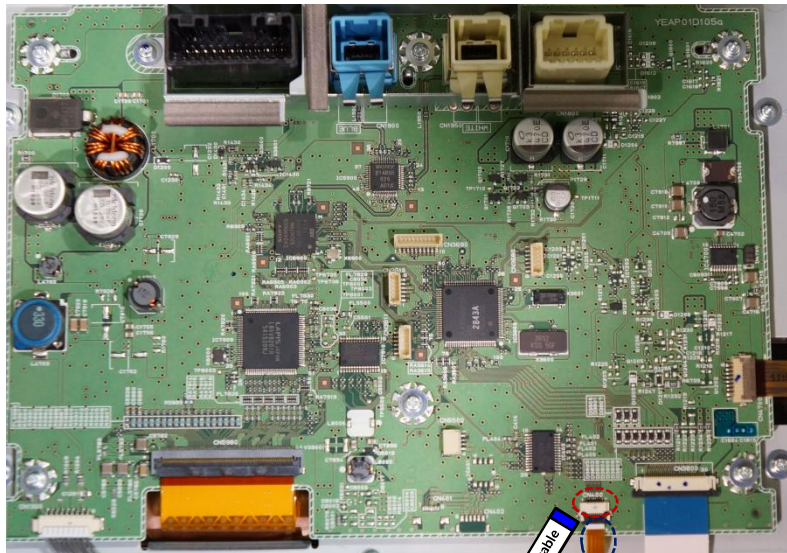
1. Power, LVDS connection



Installation

2. Touch connection

Backside of Monitor



FPC cable

Please connect to the OEM FPC cable

Please connect to the provided FPC cable



Caution

1. FAQ

- 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



GU Electronic

For your better driving