

INFINITI GVIF PAS D

- MODEL : GVIF-PAS-170706
- DATE : 2020.10.13



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Index

1. Main Spec
2. Block Diagram
3. Dimension
4. External Appearance
5. Connector Pin Assignment
6. Product Composition
7. DIP S/W Setting
8. Mode Change
9. Touch Control
10. OSD(On Screen Display) Control
11. Install Manual
12. Q & A

1. Main Spec.

1. Input Spec. (MULTI VIDEO INTERFACE)

- 1 x Digital RGB Input (Navigation System 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)

2. Output Spec.

- 1 x Virtual Analog Touch (Navigation System source)
- 1 x Uart Digital Touch (Navigation System source)
- 1 x LVDS Output (LCD Operation)

3. Power Spec.

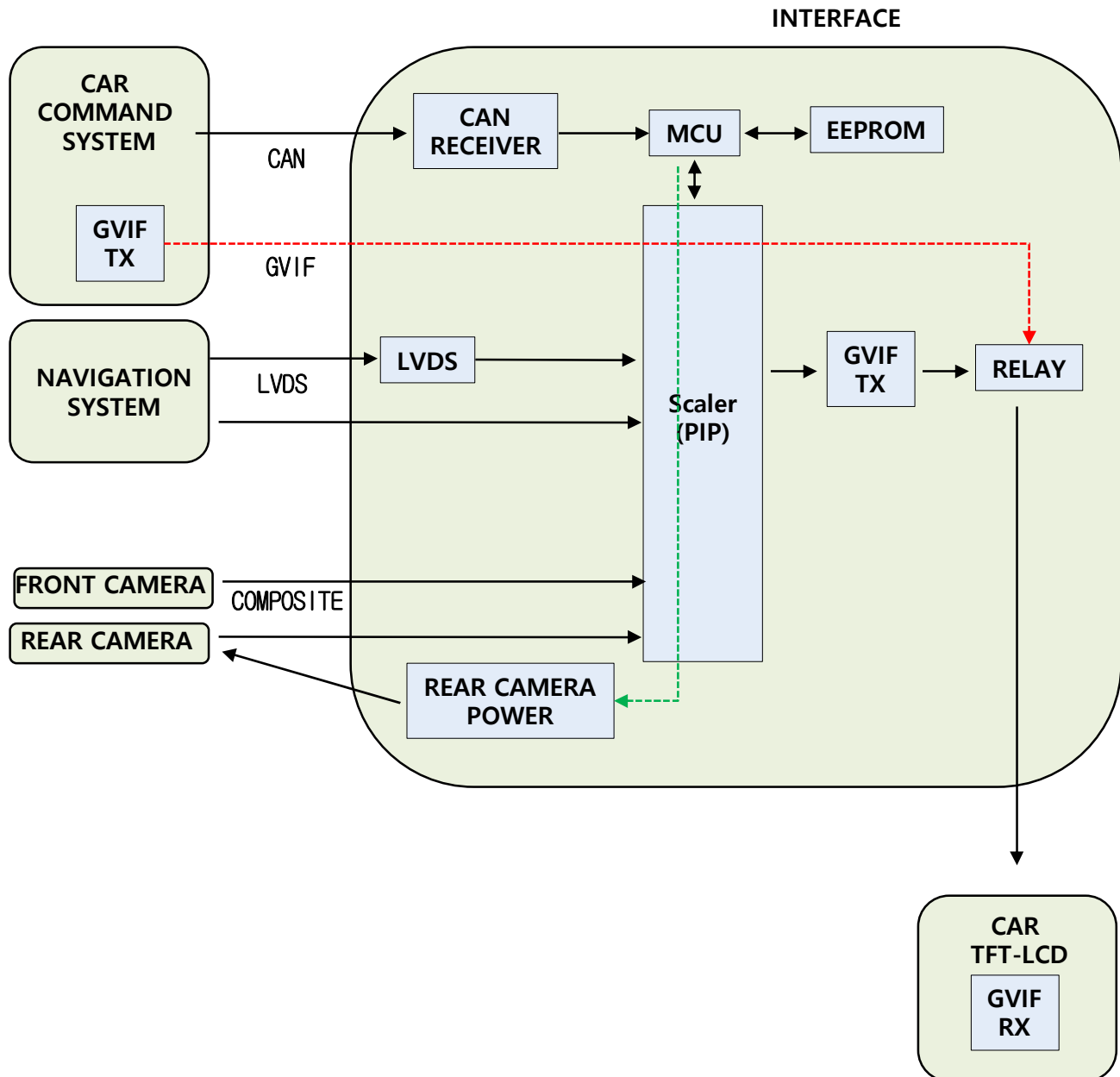
- Input Power : 8VDC ~ 24VDC
- Consumption Power : 12Watt, Max

4. Switch Input mode

- Possible to select CAR model while switching mode by DIP S/W
- By button on the Commander in the car via CAN



2. Block Diagram



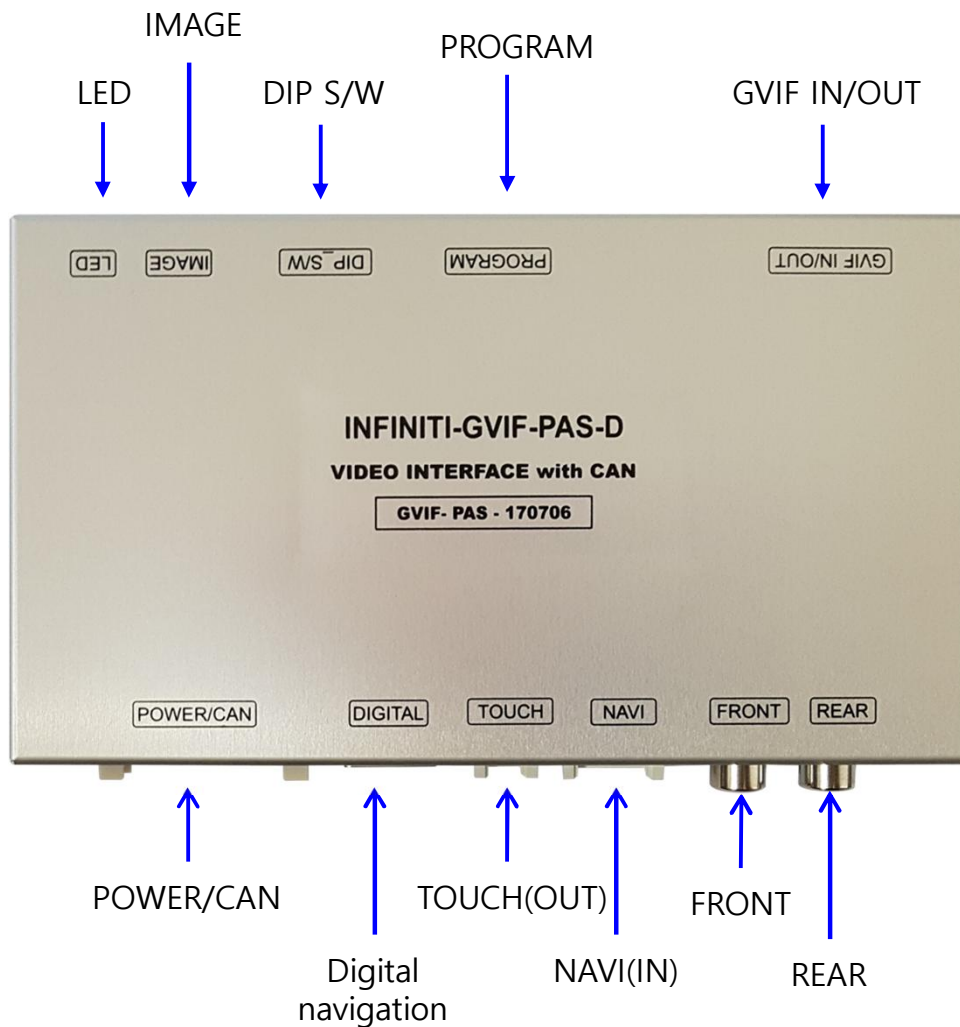
3. Dimension

146mm * 83mm * 22mm

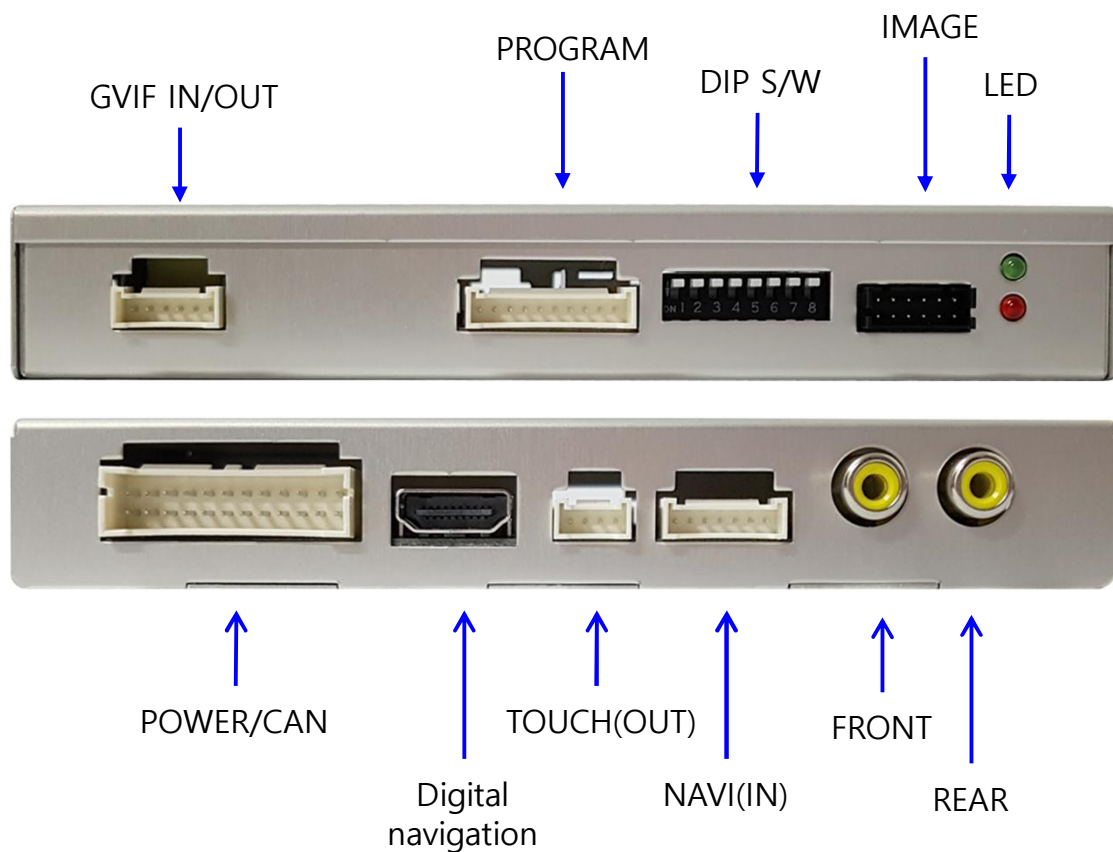


* This can change under manufacturer's circumstance

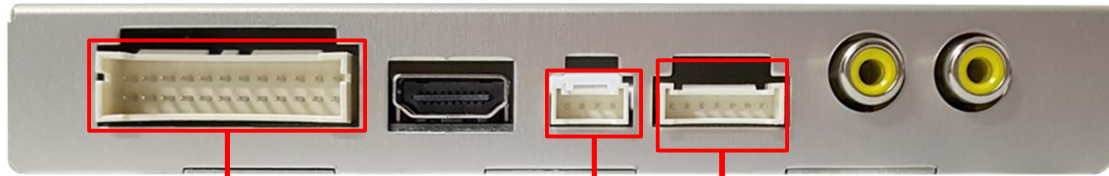
4. External Appearance



4. External Appearance



5. Connector Pin Assignment



*POWER Connect

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Red	Orange	Green	Blue	Pink	Green	Yellow	Red	White	Black	Black	Black	Red	White	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
Red	Blue	Orange	Red	White	Purple	Purple	White	Black	White	Green	Black	Red	White	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black

- | | |
|---------------------|----------------------|
| 1. ACC (Red) | 13. BATTERY (Yellow) |
| 2. ACC (Red) | 14. BCAN-H (Purple) |
| 3. REAR-DET (Brown) | 15. REAR-VCC (RED) |
| 4. FRONT-DET (Blue) | 16. BCAN-L (White) |
| 5. CAN-L (Green) | 17. FRONT-VCC (RED) |
| 6. CAN-H (Orange) | 18. GND (Black) |
| 7. MON-TX (Blue) | 19. NC |
| 8. HD-TX (Red) | 20. NC |
| 9. HD-RX (Pink) | 21. GND (Black) |
| 10. NC | 22. MODE (Green) |
| 11. ADC1 (Green) | 23. GND (Black) |
| 12. ADC2 (Purple) | 24. GND (Black) |

*NAVI Connect

1	2	3	4	5	6	7
Red	Green	Blue	White	Black	Green	Orange

- ① R DATA (Red)
- ② G DATA (Green)
- ③ B DATA (Blue)
- ④ SYNC (White)
- ⑤ GND (Black)
- ⑥ DVB-T-IR (Green)
- ⑦ DVD-IR (Orange)

*Touch Connect

1	2	3	4
Red	Green	Blue	White

- ① Y-
- ② X-
- ③ Y+
- ④ X+

* Output current

- ACC POWER = Max 200mA
- REAR POWER = Max 200mA
- FRONT POWER = Max 200mA



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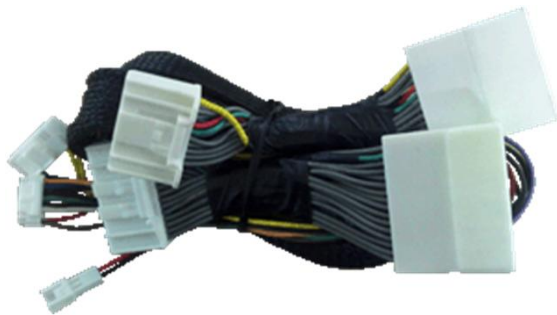
6. Product Composition



Interface 1 EA



OSD Board 1 EA



Power Cable 1 EA



LVDS Cable 1 EA



RGB Navi Cable(7pin) 1 EA



Touch convertor Cable(KD-900) 1 EA

6. Product Composition

* CarPlay Set Sales(option) – KPLAY



Interface 1 EA



AUX Cable 1 EA



Power Cable 1 EA



HDMI Cable 1 EA



Bluetooth / Wifi Antenna 2EA



Microphone 1 EA



ACC Board 1 EA

6. Product Composition

* CarPlay(NV17) Set Sales(option)



CarPlay Main 1 EA



AUX Cable 1 EA



Power Cable 1 EA



HDMI Cable 1 EA



ACC Board 1 EA



Microphone 1 EA

7. DIP S/W Setting

* ON : DOWN , OFF : UP

PIN	FUNCTION	DIP S/W Selection
1	NAVI	ON : Not Used OFF : Used
2	DVB-T(AV1)	ON : Not Used OFF : Used
3	DVD(AV2)	ON : Not Used OFF : Used
4	N.C	
5	N.C	
6	CAR type SEL	Right Picture
7		
8		

* DIP S/W Example



Infiniti(800x480)

8. Mode Change

mode change : 1ms press

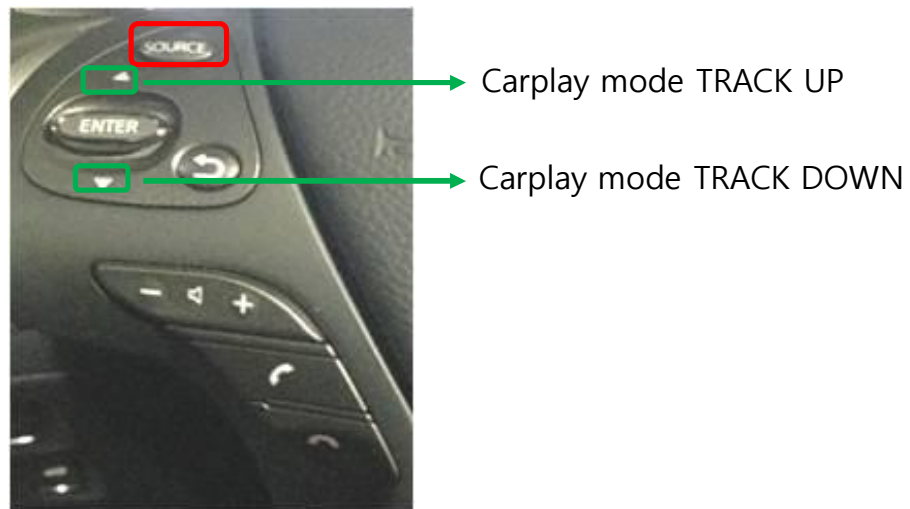


MENU	Option / SEL BUTTON	REAR
Config	SEL BUTTON	MAP
Option	RearCam-Type	ExtDevice
Image	RearCam-Power	Auto
Screen	RearCam-Det	CAN
Parking	FrontCam-Type	ExtDevice



MENU	Option / SEL BUTTON	REAR
Config	SEL BUTTON	MAP
Option	RearCam-Type	ExtDevice
Image	RearCam-Power	Auto
Screen	RearCam-Det	CAN
Parking	FrontCam-Type	ExtDevice

8. Mode Change



 Mode change to press 1 seconds
OEM screen change to press short

MENU	SteeringWheelBtn		NAVI
Config	UI DVD	On	
Option	NAVI COM	KPLAY	
Image	SteeringWheelBtn	On	Off
Screen	Reset	Execute	Cancel
Parking			

9. Touch Control

Touch control - Calibration

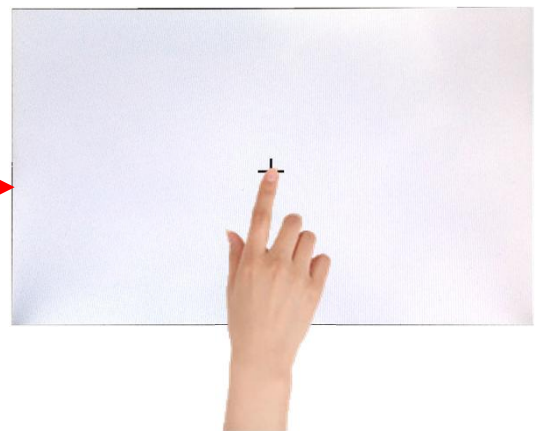


Press and hold for more than 11 seconds on NAVI, DVB-T, DVD screen.
(Note that it only works the first time after switching screens)

OR

MENU	Calibration	NAVI
OSD	Factory Reset	Execute Cancel
IR-Ctrl	Calibration	Execute Cancel
Utility	Version	FDSHOOKRX-180112

OSD menu -> Utility -> Calibration



+ Touch according to the shape coordinates.

9. Touch Control

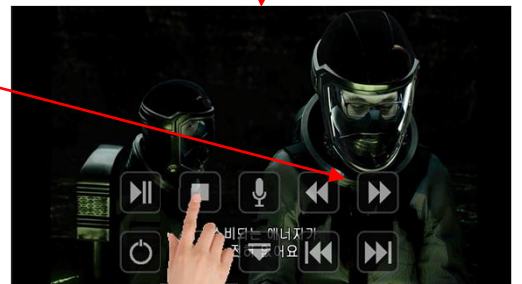
DVB-T/DVD Control

DVB-T



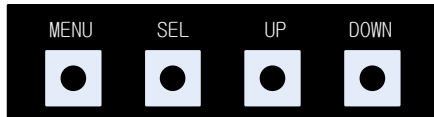
Press Icon

DVD



10. OSD(On Screen Display) Control

OSD control



MENU	Press to display when there is no OSD screen. When OSD screen is on, press it to EXIT or OFF.
SEL	Item Selection, Value Selection
UP	Item up Increase selected value
DOWN	Item down Decrease selected value

Mode State		
MENU	Option	
Config	RearCam-Type	ExtDevice
Option	RearCam-Power	Auto
Image	RearCam-Det	GEAR
Screen	AV Mode	Off
Parking	FrontCam-Type	ExtDevice
First Menu	Second Menu	Third Menu

10. OSD(On Screen Display) Control

OSD Config

First Menu	Second Menu	Third Menu	Description
Config	NAVI-RGB	DIGITAL-INAVI :	Setting the Connected NAVI Model
	DVB-T(DMB)	ELT_DVBT20 :	Setting the Connected DVB-T Model
	DVD	ELT_980XU Slim :	Setting the Connected DVD Model
	Reset	Execute	Reset to default value of Config menu

MENU	Config NAVI	
Config	NAVI-RGB	DIGITAL-INAVI
Option	DVB-T(DMB)	ELT_DVBT20
Image	DVD	ELT-980XU Slim
Screen	Reset	Execute Cancel
Parking		

10. OSD(On Screen Display) Control

OSD - Option Menu

First Menu	Second Menu	Third Menu	Description
Option	SEL BUTTON	MAP	"MAP" Switching screen by using Front button
		BACK	"BACK" Switching screen by using Front button
	RearCam-Type	OEM	Original Camera
		ExtDevice	Equipped with external camera
	RearCam-Power	ON	+ 12V continuous supply
		AUTO	+ 12V supply only in Rear camera mode
		OFF	+ 12V off
	RearCam-Det	GEAR	Detected by CAN
		WIRE	Detected by Rear-Det Wire
	AV Mode	ON	Use "REAR" video input port as VIDEOE input.
		OFF	Do not use features.
	FrontCam-Type	OEM	Original Camera
		ExtDevice	Equipped with external camera
	FrontCam-Power	ON	+ 12V continuous supply
		AUTO	+ 12V supply only in Front camera mode
		OFF	+ 12V off
	FrontCam-Det	GEAR	Detected by CAN
		WIRE	Detected by Front-Det Wire
	FrontCam-RcvOpt	ON	After RearCam shows FrontCam and returns to previous state
		OFF	Disable feature

10. OSD(On Screen Display) Control

OSD - Option Menu

First Menu	Second Menu	Third Menu	Description
Option	UI DVB-T (DMB)	ON	DVB-T device control UI output function
		OFF	Disable feature
	UI DVD	ON	DVD device control UI output function
		OFF	Disable feature
	NAVI COM	HMS FINE :	To use UART Touch, select a navigation manufacturer.
		OFF	Do not use features.
	SteeringWheel Btn	ON	Use the button on the steering wheel to change the mode.
		OFF	Disable feature
	Reset	Execute	Option Menu all Reset

10. OSD(On Screen Display) Control

OSD Option -> FrontCam-RcvOpt

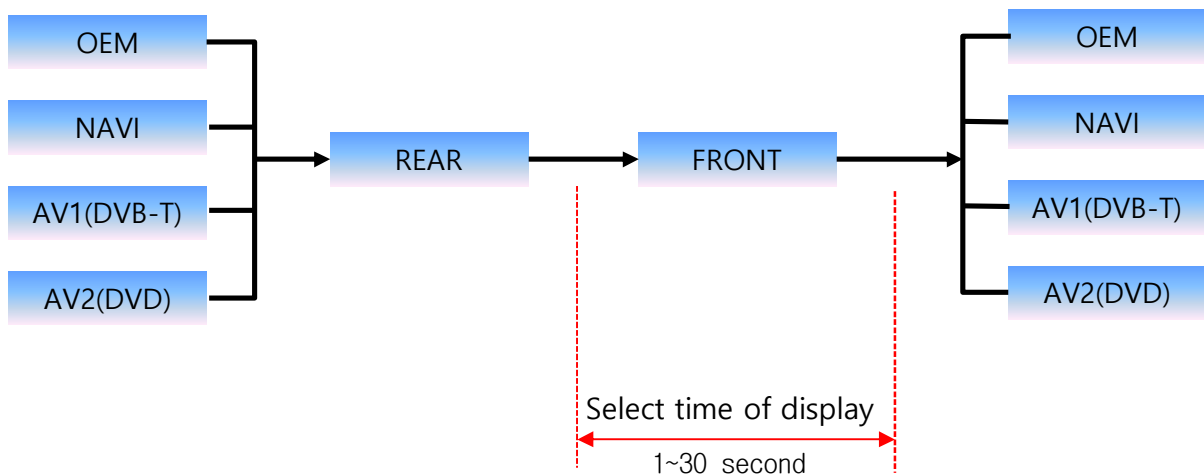
Front Camera Auto Mode

0 second = FrontCam-RcvOpt menu OFF

1~30 second = FrontCam-RcvOpt menu ON & time control

MENU	FrontCam-RcvOpt NAVI	
Config	FrontCam-Power	Auto
Option	FrontCam-Det	ExtWire
Image	FrontCam-RcvOpt	0s
Screen	Steering Wheel	Voice
Parking	Reset	Execute Cancel

MENU	FrontCam-RcvOpt NAVI	
Config	FrontCam-Power	Auto
Option	FrontCam-Det	ExtWire
Image	FrontCam-RcvOpt	30s
Screen	Steering Wheel	Voice
Parking	Reset	Execute Cancel



10. OSD(On Screen Display) Control

NAVI-RGB menu

First Menu	Second Menu	Third Menu	Action
Image	Brightness		Adjust the value of brightness
	Contrast		Adjust the value of contrast
	Color-RED		Adjust the value of RED
	Color-GREEN		Adjust the value of GREEN
	Color-BLUE		Adjust the value of BLUE
	Reset	Excute	Option Menu all Reset

DVD,DVB-T(DMB),NAVI-AV,REAR,FRONT menu

First Menu	Second Menu	Third Menu	Action
Image	Brightness		Adjust the value of brightness
	Contrast		Adjust the value of contrast
	Saturation		Adjust the value of Saturation
	Hue		Adjust the value of Hue
	Sharpness		Adjust the value of Sharpness
	Reset	Excute	Option Menu all Reset



<< Brightness >>



<< Contrast >>



<< Saturation >>



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10. OSD(On Screen Display) Control

OSD – Screen Menu

First Menu	Second Menu	Third Menu	Description
Screen	Horizontal		Output screen horizontal movement
	Vertical		Output screen vertical movement
	Scale X Up		Reduce / increase output screen width
	Scale X Down		
	Scale Y Up		Reduce / Increase Output Screen Height
	Scale Y Down		
	Reset		Screen menu all reset

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



10. OSD(On Screen Display) Control

OSD – Parking Menu

First Menu	Second Menu	Third Menu	Description
Parking	Line Display	ON	Show parking line
		OFF	Do not show parking lines
	Warnings Lang		Set warning text language
	Horizontal		Moving a parking line horizontally
	Vertical		Moving a parking line vertically
	Transparency		Parking line transparency
	Reset		Parking menu all reset

MENU	Parking		REAR
Config	Line Display	On	
Option	Warnings Lang	English	
Image	Horizontal	50	
Screen	Vertical	50	
Parking	Reset	Execute Cancel	

10. OSD(On Screen Display) Control

OSD Parking – Change warning language

MENU	Parking / Warnings Lang	REAR
Config	OPS Display	English
Option	Line Display	中文
Image	Warnings Lang	한국어
Screen	Horizontal	台灣
Parking	Vertical	Россия

English

Check entire surroundings!

中文

请注意车辆周围环境!

한국어

차량 주변을 전부 확인

台灣

請注意車輛周圍環境!

Россия

Следите за всем окружением автомобиля!

日本

周辺の安全を確認



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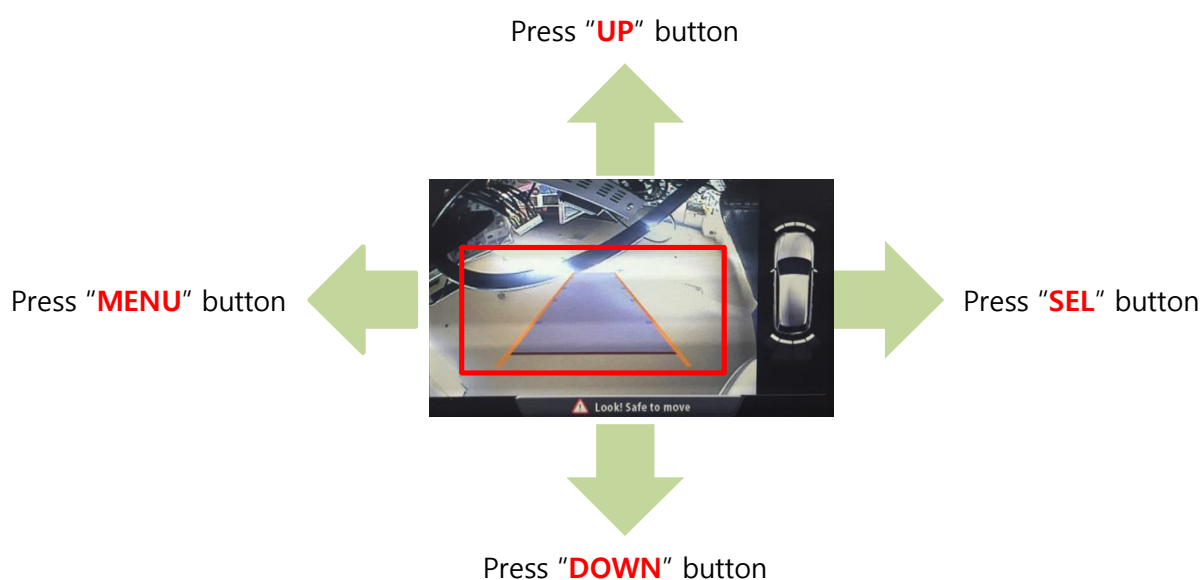
10. OSD(On Screen Display) Control

OSD Parking – Adjust position of parking guide line

MENU	Parking	REAR
Config	OPS Display	Off
Option	Line Display	On
Image	Warnings Lang	English
Screen	Horizontal	50
Parking	Vertical	50

Possible to adjust the position of parking guide line
by Keypad in Horizontal / Vertical menu

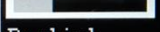
※ Pressing this Horizontal / Vertical menu,
The OSD screen automatically disappears.
Please adjust from the parking line Screen.



10. OSD(On Screen Display) Control

OSD – OSD Menu

First Menu	Second Menu	Third Menu	Description
OSD	Horizontal	<i>value</i>	OSD Menu Horizontal Shift
	Vertical	<i>value</i>	OSD menu vertical Shift
	Display Time	<i>value</i>	OSD Menu Display Time (in seconds)
	Transparency	<i>value</i>	OSD menu transparency
	Language		OSD menu display language
	Reset	Execute	Initialize OSD settings

MENU	Horizontal DVB-T	
OSD	Horizontal	 50
IR-Ctrl	Vertical	 50
Utility	Display Time	 10s
	Transparency	 30
	Language	English
MENU	Reset DVB-T	
OSD	Reset	Execute Cancel
IR-Ctrl		
Utility		

10. OSD(On Screen Display) Control

OSD – IR learning function



* In order to work with the IR learning function, a separate IR cable is required.

MENU	IR-Ctrl / DVB-T(DMB)	NAVI
OSD	DVB-T(DMB)	Sel Learn Cancel
IR-Ctrl	DVD	Sys
Utility		

1. In DVB-T / DVD menu, select User in Sys (OSD list) or User (learned contents).
2. Select Learn from the OSD menu.



MENU	IR-Ctrl / DVB-T(DMB)	NAVI
OSD	All-Clear	
IR-Ctrl	POWER	----
Utility	SCAN	----
	CH+	----
	CH-	----

3. Before using IR learning function, select All-Clear to delete existing stored data.



MENU	IR-Ctrl / DVB-T(DMB)	DVB-T
OSD	New Code: []	
IR-Ctrl	Cfm Code: []	
Utility		
	Save	Clr Cancel

4. Press the remote control button to be used in each ICON once in New Code, press once again in Cfm Code to confirm it is the same and save it.



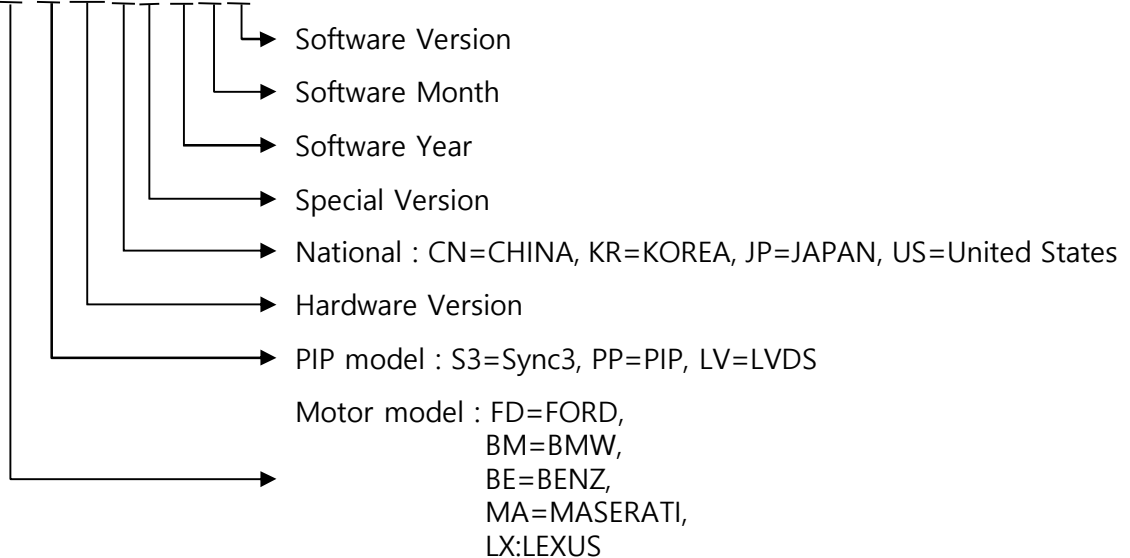
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10. OSD(On Screen Display) Control

OSD – Utility Menu

First Menu	Second Menu	Third Menu	Description
Utility	Factory Reset	Execute	Initialize all settings
	Calibration	Execute	Calibration mode Execute
	Version		FDSYOOKRX-180209 (Check for future upgrades)

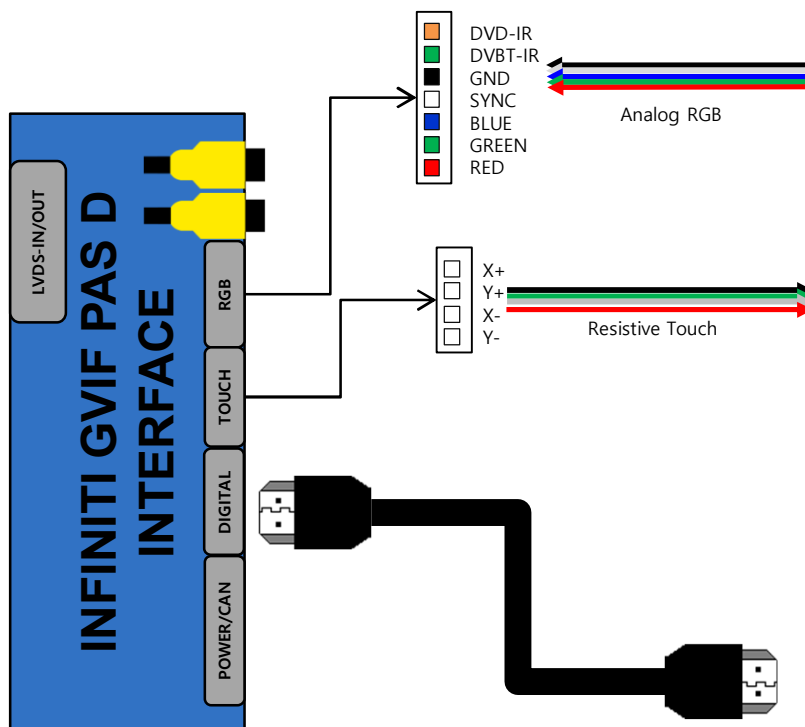
Last Source : FDSYOOKRX-180209



MENU	Utility	NAVI
OSD	Factory Reset	Execute Cancel
IR-Ctrl	Version	FDSYOOKRX-180209
Utility		

11. Install Manual

1. Installation Navigation Connection



*Analog RGBsync navigation



KD-900

*Digital navigation



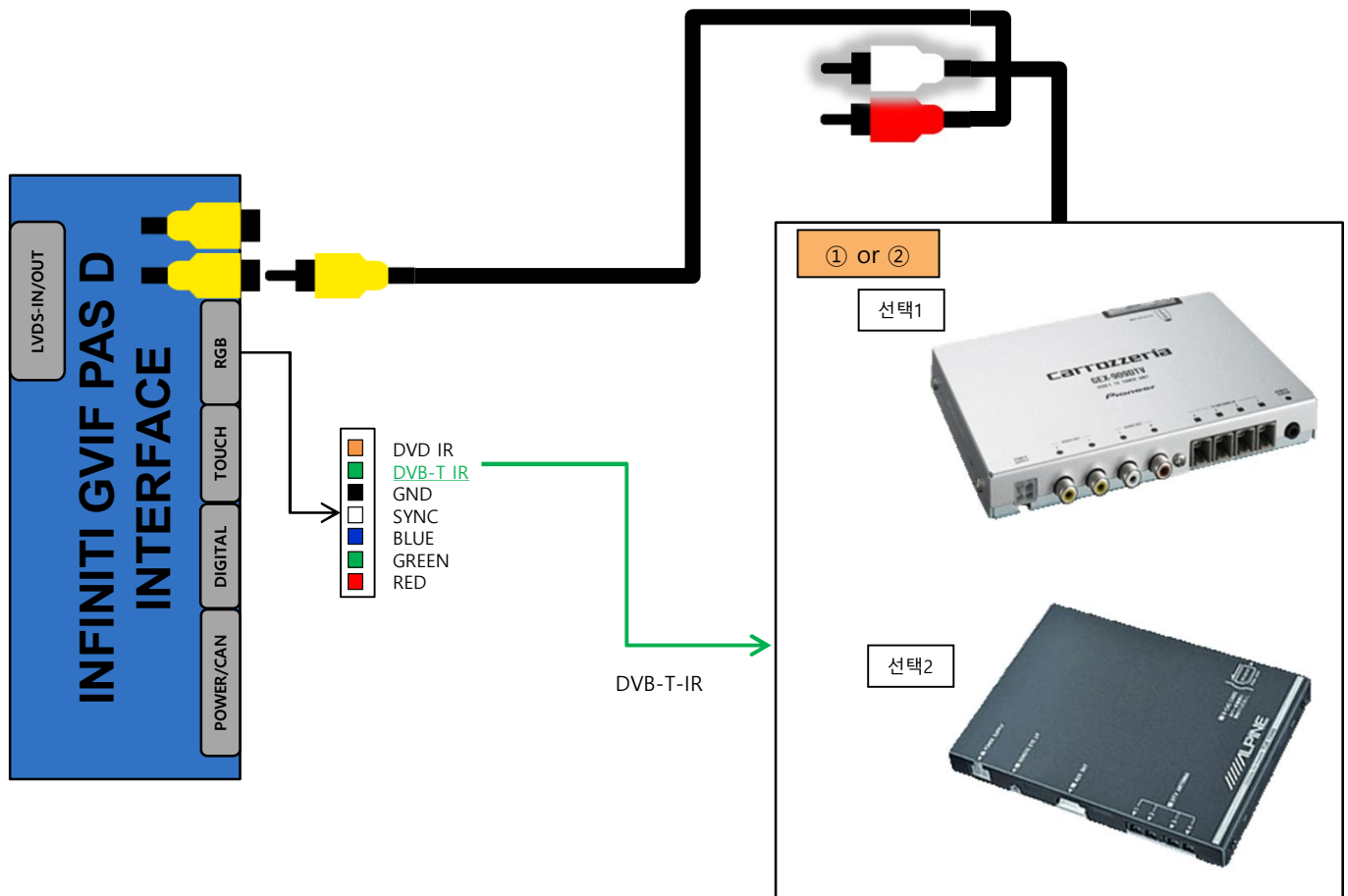
Roik, Qroi

MENU	NAVI-RGB	NAVI
Config	NAVI-RGB	DIGITAL-G-nom
Option	DVB-T(DMB)	DIGITAL
Image	DVD	DIGITAL-CNPLAY
Screen	Reset	GI3000_WVGA
Parking		GI5000_WVGA

- Select the navigation you want to use from the above items.

11. Install Manual

2. Installation DVB-T Remote Control Connection



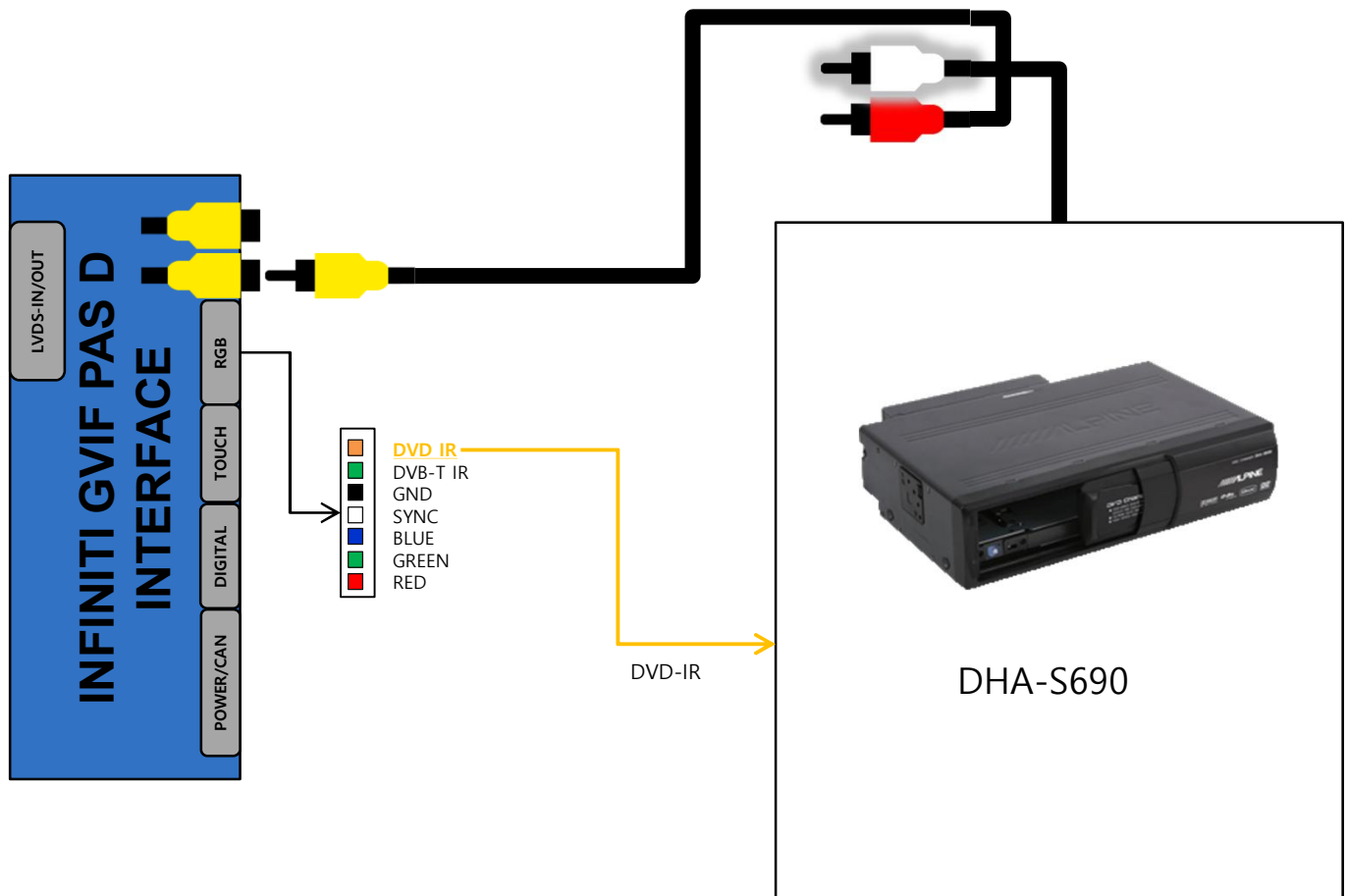
MENU	DVB-T(DMB)	DVB-T
Config	NAVI-RGB	ELT_DWBT20
Option	DVB-T(DMB)	NET-770
Image	DVD	MediaLife
Screen	RearCam	Panasonic
Parking	FrontCam	Pioneer

MENU	UI DVB-T(DMB)	DVB-T
Config	FrontCam-Type	ExtDevice
Option	FrontCam-RcvOpt	8s
Image	SteeringWheelBtn	Off
Screen	UI DVB-T(DMB)	On Off
Parking	UI DVD	On

- Select the DVB-T you want to use from the above items.

11. Install Manual

3. Installation DVD Remote Control Connection



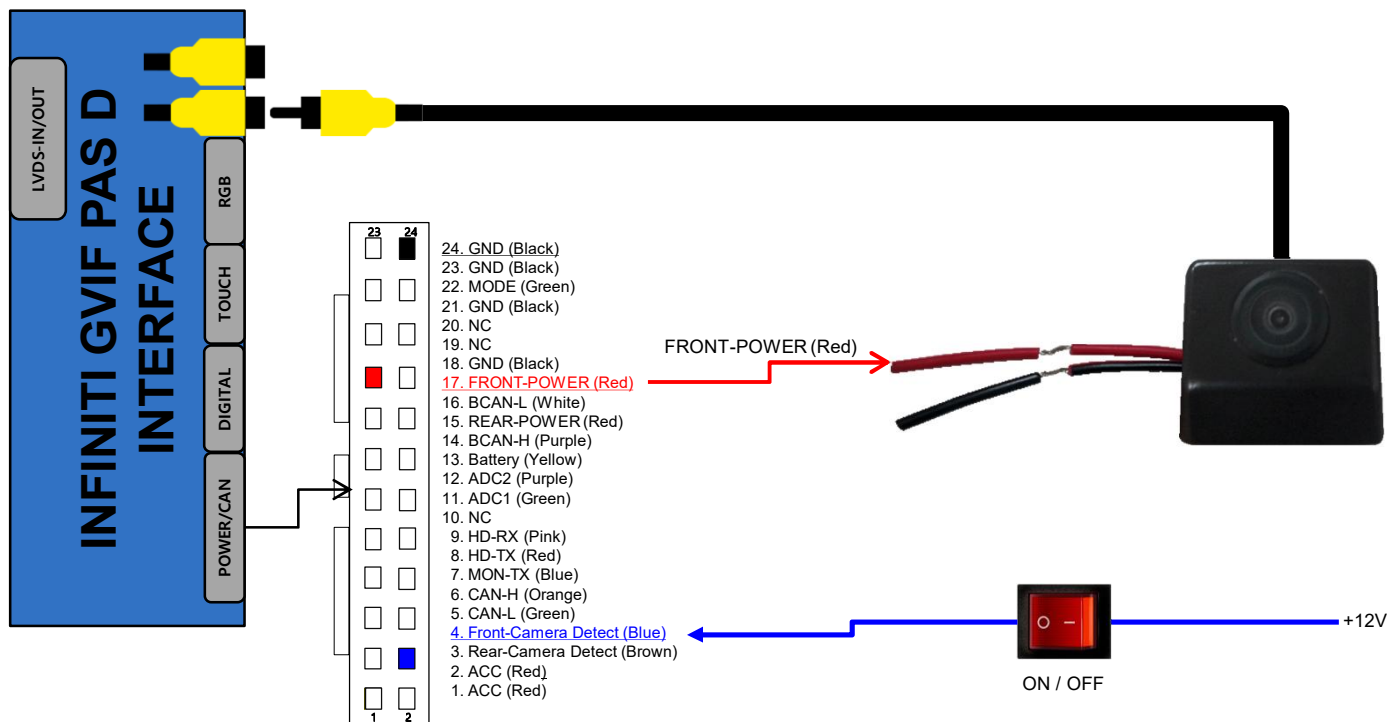
MENU	DVD	DVD
Config	NAVI-RGB	ELT-980XU Slim
Option	DVB-T(DMB)	LCKT
Image	DVD	Sanyo
Screen	RearCam	NECVOX DVA-3206
Parking	FrontCam	AMPIRE DVX-101

MENU	UI DVD	DVD
Config	FrontCam-Type	ExtDevice
Option	FrontCam-RcvOpt	8s
Image	SteeringWheelBtn	Off
Screen	UI DVB-T(DMB)	On
Parking	UI DVD	On Off

- Select the DVD you want to use from the above items.

11. Install Manual

4. Installation External Front Camera Connection



MENU	FrontCam-RcvOpt		AV
Config	FrontCam-Type	ExtDevice	
Option	FrontCam-RcvOpt	8s	
Image	SteeringWheelBtn	Off	
Screen	UI DVB-T(DMB)	On	
Parking	UI DVD	On	

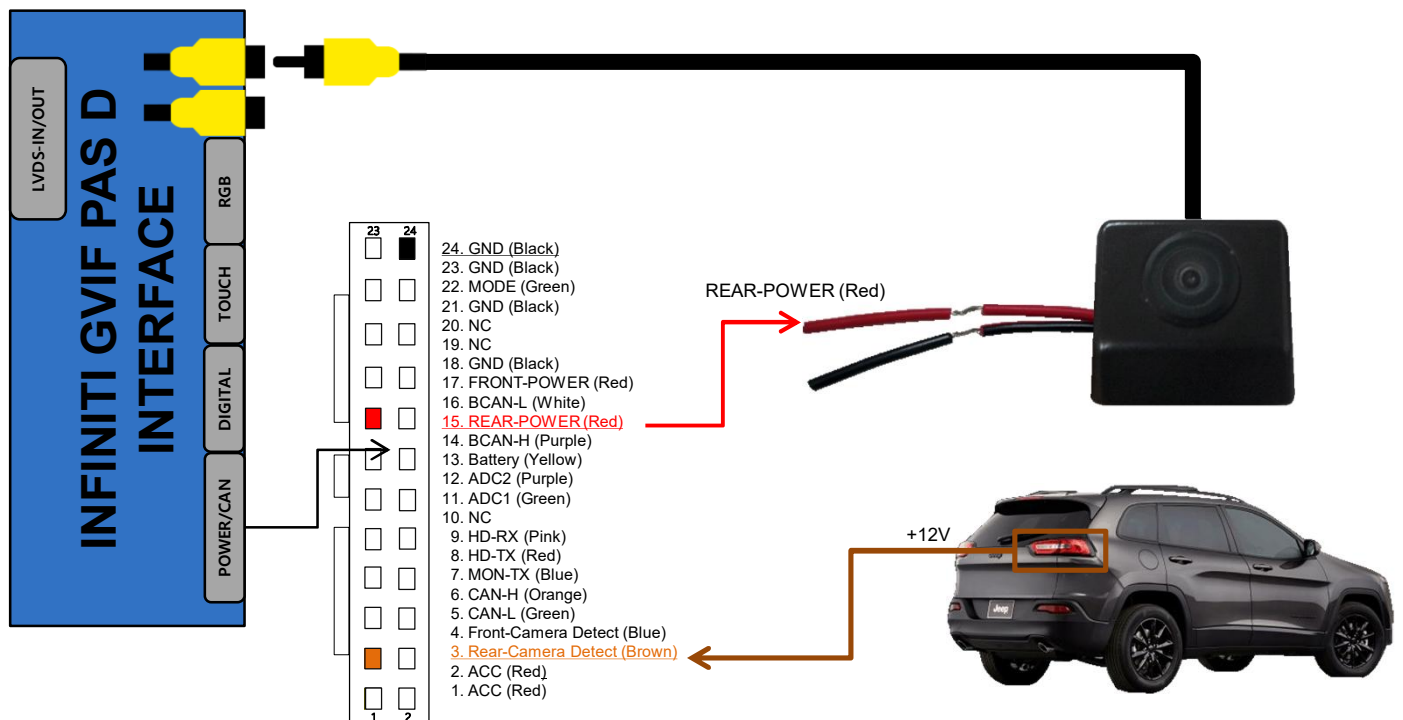
- Refer to page. 10. OSD (On Screen Display) Control -> OSD option -> FrontCam-RcvOpt.

MENU	AV Mode		NAVI
Config	NAVI COM	KPLAY	
Option	RearCam-Type	OEM	
Image	RearCam-Power	Auto	
Screen	RearCam-Det	CAN	
Parking	AV Mode	On Off	

- When AV mode is activated, the Front camera can be viewed using the Mode change button..

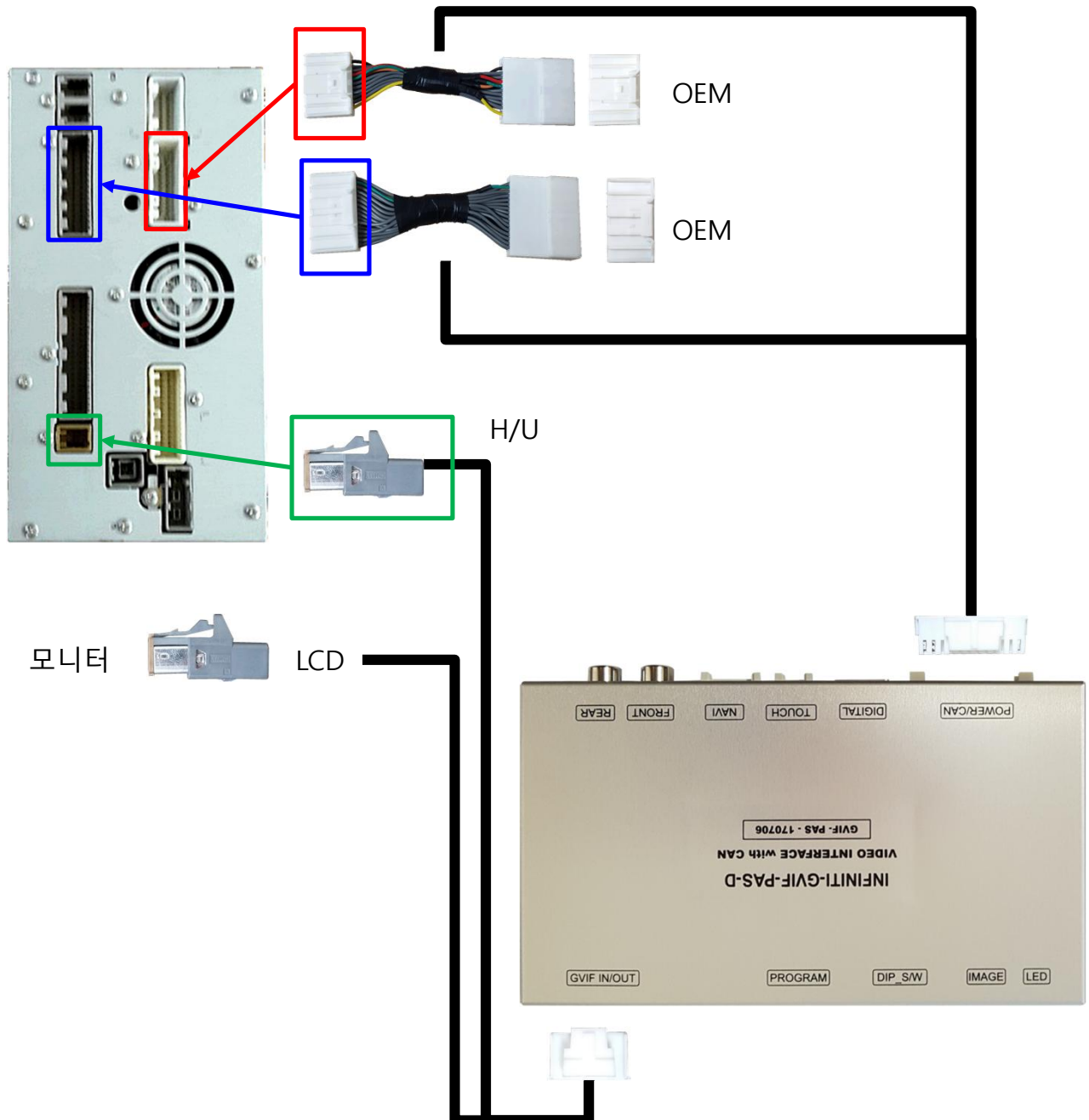
11. Install Manual

5. Installation External Reverse(Rear) Camera Connection



11. Install Manual

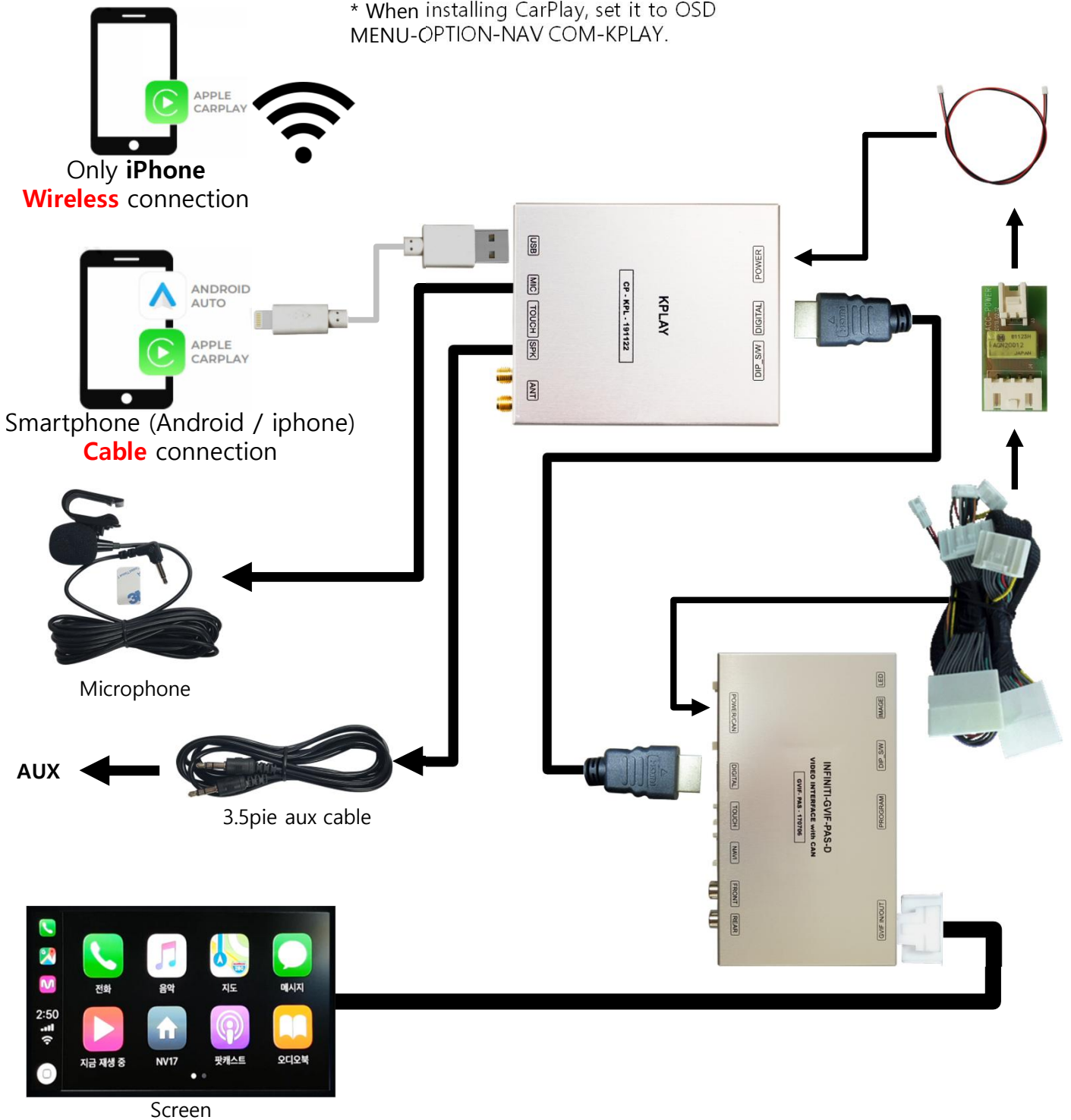
6. Installation POWER/LVDS connection



11. Install Manual

7. Installation CarPlay - KPLAY

* When installing CarPlay, set it to OSD
MENU-OPTION-NAV COM-KPLAY.



11. Install Manual

8. Installation CarPlay – NV17

* When installing CarPlay, set it to OSD
MENU-OPTION-NAV COM-NV17.



11. Install Manual

9. Installation

①



양쪽 측면 COVER 탈착.

②



③



④



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11. Install Manual

9. Installation

⑤



⑥



⑦



⑧



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12. Q & A

FAQ

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

Caution

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