

PCM 5.0 TDC3

PORSCHE ONLY INTERFACE



VIDEO INTERFACE

MODEL.	PCM-50-190313
DATE.	2019.11.27

1. Input Spec. (MULTI VIDEO INTERFACE)

- 1 x Digital RGB Input (Navigation System output)
- 1 x Analog RGB Input (Navigation System output)
- 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 LVDS Input. (Car Command System)

2. Output Spec.

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

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

External Appearance

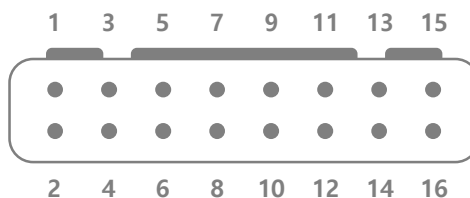
Interface















Connector Pin Assignment

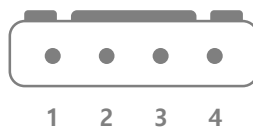






1 POWER Connect (16Pin)



No	1	3	5	7	9	11	13	15
Color	 RED	 BROEN	 WHITE	 BLUE	 GREEN		 RED	 BLACK
Connect	ACC	REAR DET	CAN-L	CAN-L	CAN-L	N.C	FRONT VCC	GND
No	2	4	6	8	10	12	14	16
Color		 BLUE	 PURPLE	 RED	 ORANGE	 RED		
Connect	N.C	FRONT DET	CAN-H	CAN-H	CAN-H	REAR VCC	N.C	N.C








2 NAVI TOUCH Connect (4Pin)



No	1	2	3	4
Color	 RED	 GREEN	 BLUE	 WHITE
Connect	Y-	X-	Y+	X+

3 NAVI Connect (7Pin)



No	1	2	3	4	5	6	7
Color	 RED	 GREEN	 BLUE	 WHITE	 BLACK	 GREEN	 ORANGE
Connect	R DATA	G DATA	B DATA	SYNC	GND	DVB-T IR	DVD IR

Product Composition



Board



Power Cable



LVDS Cable



A/V Cable



RGB NAVI Cable



OSD Board

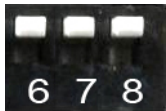
Dip Switch Setting



OFF : ▲UP
ON : ▼DOWN

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	Bottom Picture
7		
8		

Car Type Select



Porsche(2019)
Cayenne 12"
911 11"



Porsche(2018-2019)
Panamera 12"



Porsche(2019)
Macan 11"

Mode Change

Porsche(2019) Cayenne 12"



- DIP-SW 1 must off when use (Install) Navigation device



NO	Button	Function
1	NAV	Mode Change
	HOME	
2	Other Button	Return OEM Display

- You can choose "HOME" or "NAV" button on OSD menu

Mode Change

Porsche(2019) Macan 11"



- DIP-SW 1 must off when use (Install) Navigation device



NO	Button	Function
1	NAV	Mode Change
2	OPTION	Changing the screen ratio in AV1 and AV2 modes

Mode Change

Porsche(2019) 911 11"



- DIP-SW 1 must off when use (Install) Navigation device

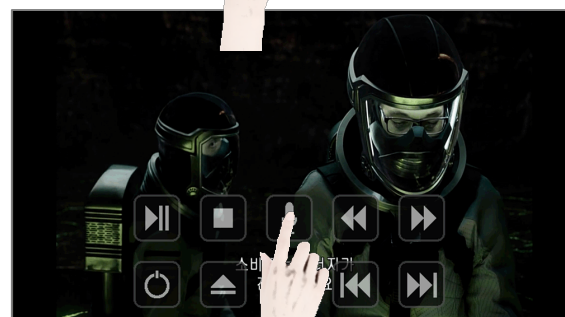
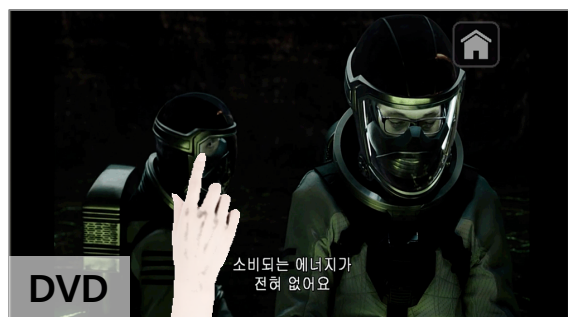
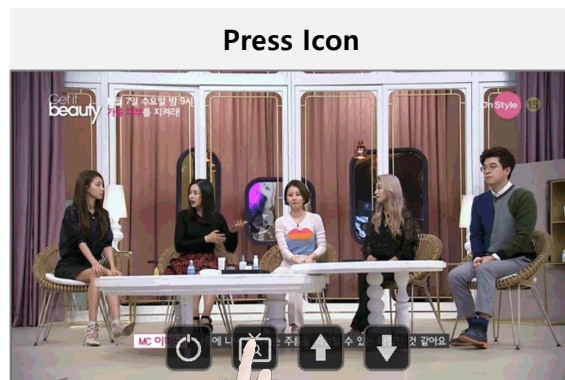


NO	Button	Function
1	RETURN	Mode Change

※ To use a Return button, You need to enable the RET in the button selection in the OSD options.

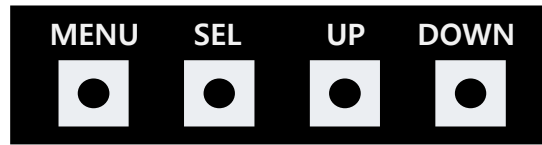
Touch Control

DVBT, DVD Control



OSD Control

OSD(On Screen Display) Control Board



MENU	<ul style="list-style-type: none"> The OSD screen can be switched ON/OFF Return to previous menu
SEL	<ul style="list-style-type: none"> Select the currently active item If the OSD screen is off, mode changes can be made.
UP	<ul style="list-style-type: none"> Move up from the menu Increase the selected item value
DOWN	<ul style="list-style-type: none"> Move down from the menu Decrease the selected item value

Mode State
▼

MENU	Option		NAVI
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

OSD Control

Config

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

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

OSD Control

Option

MENU	RearCam-Type	NAVI
Config	RearCam-Type	OEM
Option	RearCam-Power	Auto
Image	RearCam-Det	GEAR
Screen	AV Mode	Off
Parking	FrontCam-Type	Ext.Device

First Menu	Second Menu	Third Menu	Description
Option	NAVI COM	OFF	Disable feature
		GU NV17 :	Set up manufacturer of woodworking device for UART Touch use
	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	CAN	Detected by CAN
		WIRE	Detected by Rear-Det Wire
		OFF	Disable feature
	AV Mode	On	Video(CVBS) Input (If Rear Cam - Type is OEM)
		Off	Disable feature
	FrontCam-Type	OEM	Original Camera
		ExtDevice	Equipped with external camera
	FrontCam-Det	CAN	Detected by CAN
		WIRE	Detected by Front-Det Wire
	FrontCam-RcvOpt	ON	After RearCam shows FrontCam and returns to previous state
OFF		Disable feature	

OSD Control

Option

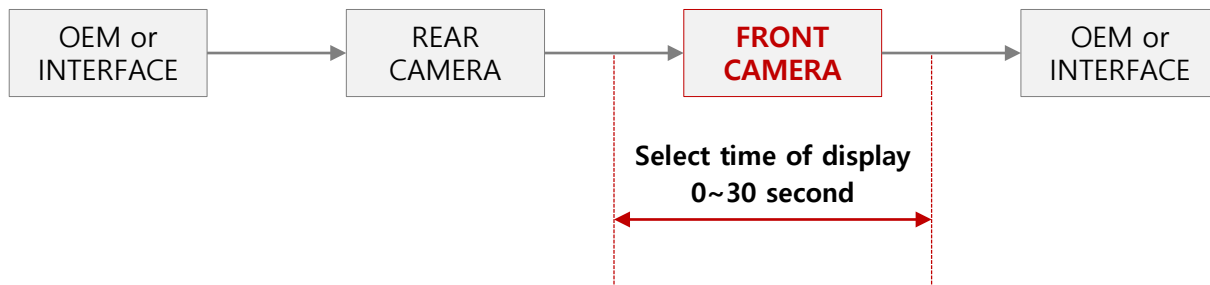
MENU	RearCam-Type	NAVI
Config	RearCam-Type	OEM
Option	RearCam-Power	Auto
Image	RearCam-Det	GEAR
Screen	AV Mode	Off
Parking	FrontCam-Type	Ext.Device

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
	BUTTON	NAV	Use the NAV button
		RET	(911 only) Use the RET button
	Reset	Execute	Option Menu all Reset

OSD Control

Option ▶ FrontCam-RcvOpt

Front Camera Auto Mode



MENU	FrontCam-RcvOpt	NAVI
Config	FrontCam-RcvOpt	0s
Option	SteeringWheelBtn	On
Image	UI DVB-T(DMB)	On
Screen	UI DVD	On
Parking	ScrChg-Climate	On

0 second

FrontCam-RcvOpt Menu OFF

MENU	FrontCam-RcvOpt	NAVI
Config	FrontCam-RcvOpt	30s
Option	SteeringWheelBtn	On
Image	UI DVB-T(DMB)	On
Screen	UI DVD	On
Parking	ScrChg-Climate	On

1~30 second

FrontCam-RcvOpt Menu ON & time control

OSD Control

Image

NAVI – RGB Menu

First Menu	Second Menu	Third Menu	Description
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	Execute	Option Menu all Reset

DVD / DVBT / NAVI-AV,REAR,FRONT Menu

First Menu	Second Menu	Third Menu	Description
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	Execute	Option Menu all Reset

Brightness



Contrast



Saturation



OSD Control

Screen

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

First Menu	Second Menu	Third Menu	Description
	Horizontal		Output screen horizontal movement
	Vertical		Output screen vertical movement
Screen	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

OSD Control

OSD

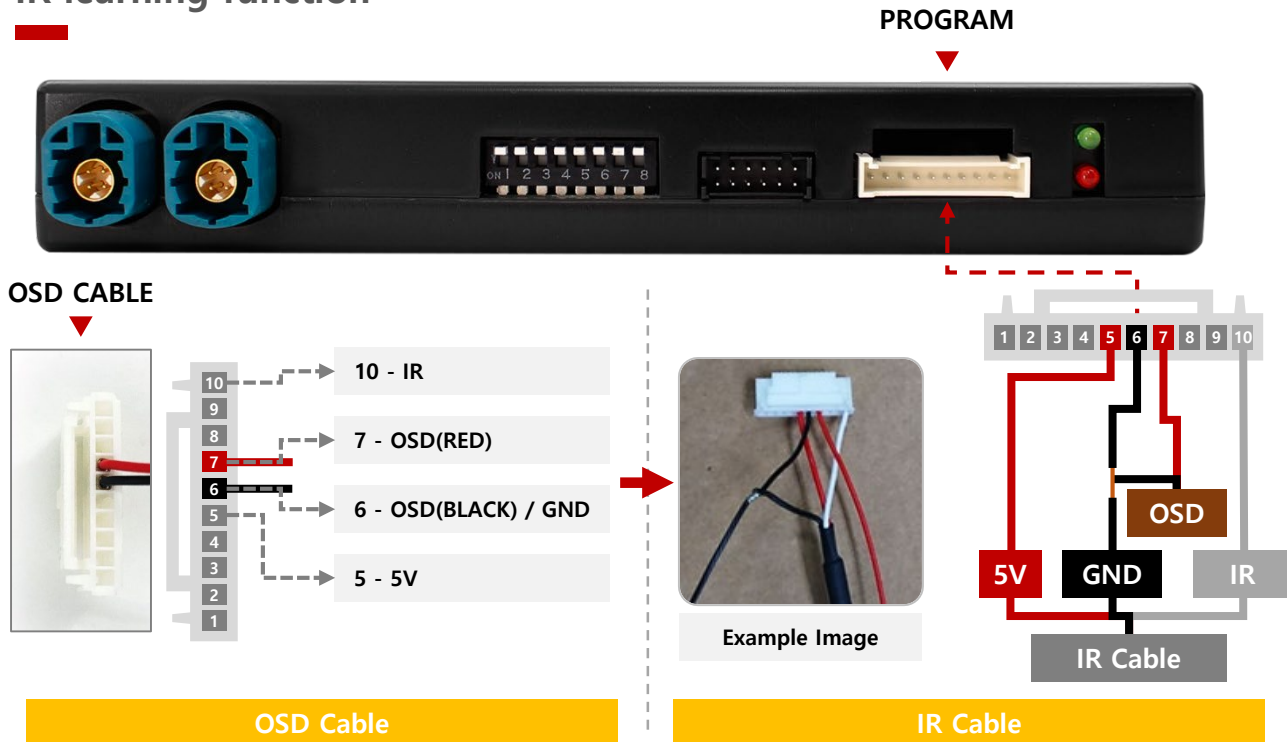
MENU	Horizontal	DVB-T
OSD	Horizontal	50
IR-Ctrl	Vertical	50
Utility	Display Time	10s
	Transparency	30
	Language	English

MENU	Reset	DVB-T
OSD	Reset	Execute Cancel
IR-Ctrl		
Utility		

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

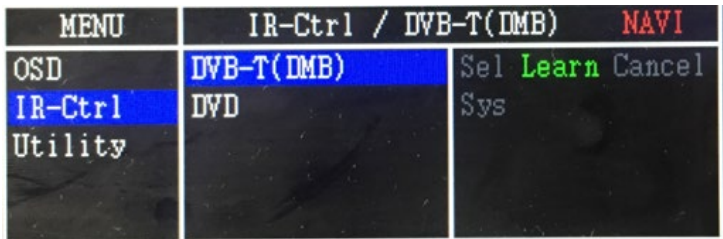
OSD Control

IR learning function

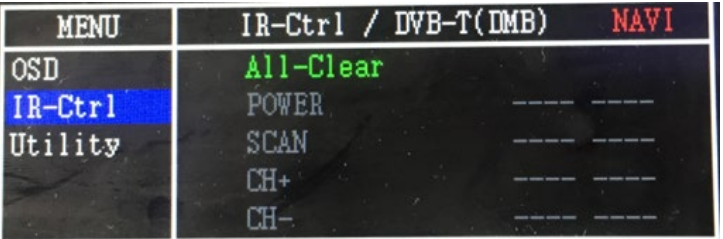


OSD Cable **IR Cable**

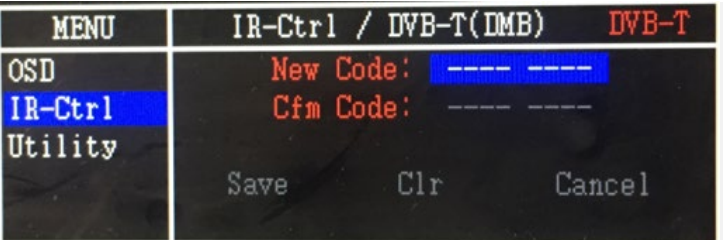
Create an IR cable - Modify the OSD cable as shown above.



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



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



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.

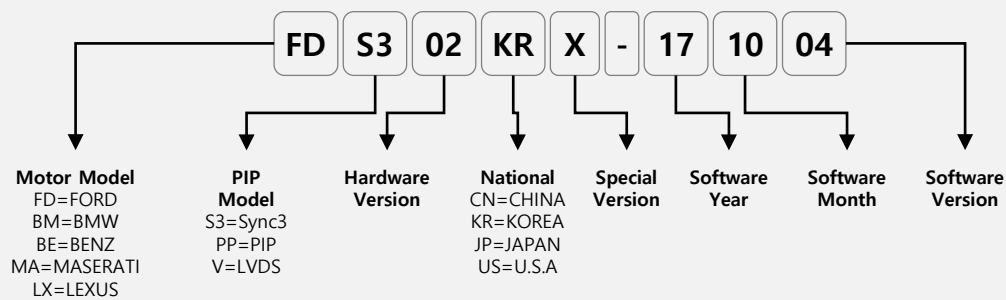
OSD Control

Utility

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

First Menu	Second Menu	Third Menu	Description
Utility	Factory Reset	Execute	Initialize all settings
	Version		FDS302KRX-171004 (Check for future upgrades)

- Last Source : **FDS302KRX-171004**



OSD Control

Installation Navigation (Digital) Connection

- OSD setting must be done before Navigation can be used

1 Screen Settings (Digital)

Config ▶ NAVI RGB ▶ DGT-0000

MENU	NAVI-RGB	NAVI
Config	NAVI-RGB	DGT-0000
Option	DVB-T(IMB)	
Image	DVD	
Screen	RearCam	
Parking	Reset	

- DGT = DIGITAL
- When DGT (DIGITAL) is selected, it is output to the screen.
- Select the product name of the connected navigation
- If NV-17 is not available, you can select any of DGT menu.

2 UART Touch Settings

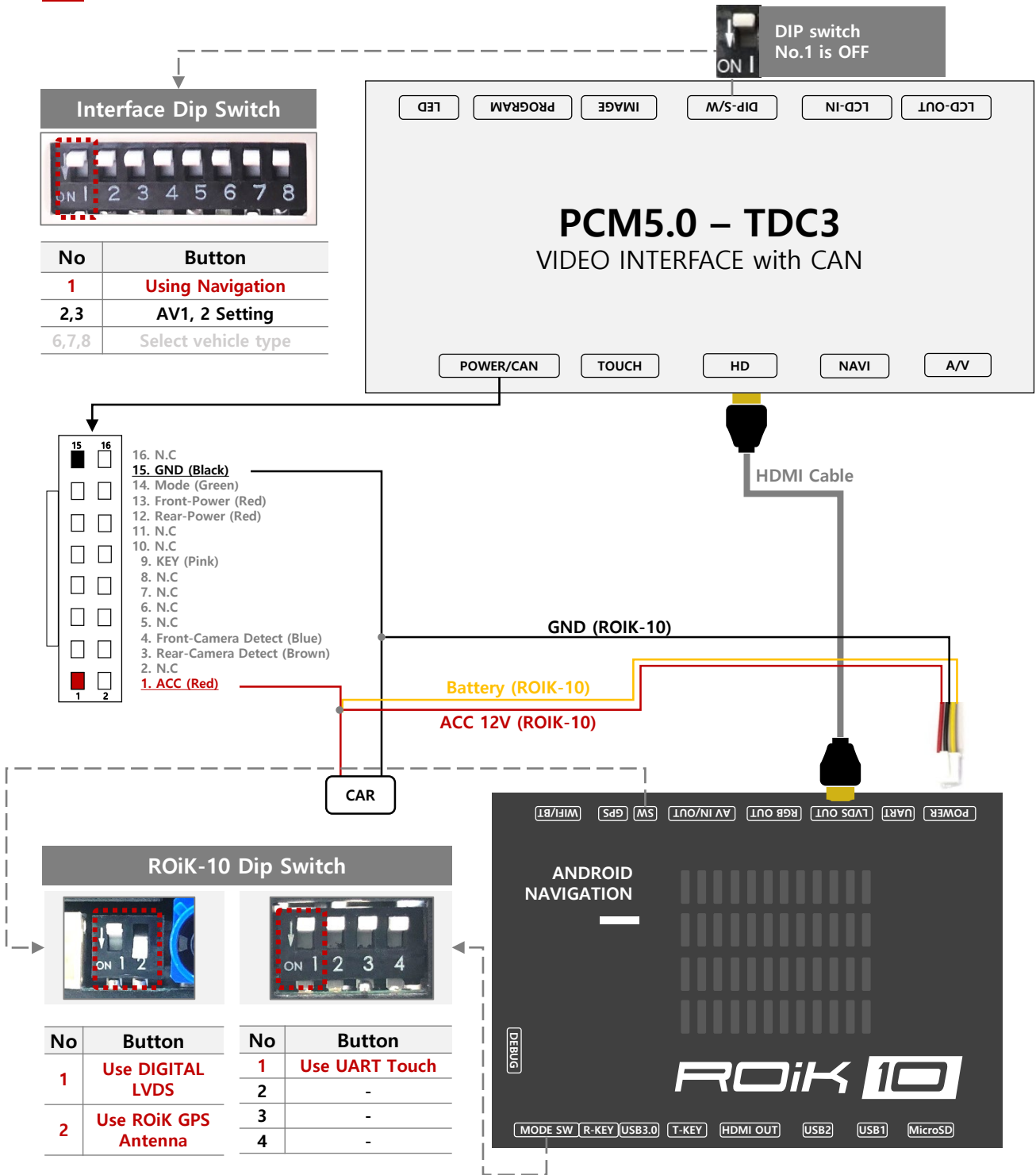
Option ▶ NAVI COM ▶ Product Name

MENU	NAVI COM	NAVI
Config	UI DVD	NAVTEX
Option	ScrChg-Btn	NV17
Image	NAVI COM	
Screen	Reset	
Parking		

- Select the product name of the connected navigation

Install Manual

1-1. Installation ROiK Navigation Connection



- After completing the cable connection, OSD and device setting must be completed.
- See next page

Install Manual

1-2. Installation ROiK Navigation Connection

- After connecting the cables, you need to set the OSD to use the UART touch
- Since it is not touch yet, **Interface controls [OSD board](#) / ROiK with [Mouse Control](#)**

INTERFACE Settings (Control with OSD board)

1 Config ▶ NAVI RGB ▶ DIGITAL-ROiK

MENU	NAVI-RGB	NAVI
Config	NAVI-RGB	DIGITAL-G-NOM-A
Option	DVB-T(DMB)	DIGITAL-INAVI
Image	DVD	DIGITAL-GI 7000A
Screen	RearCam	DIGITAL-ROiK
Parking	Reset	DIGITAL-NV100

2 Option ▶ NAVI COM ▶ GU

MENU	NAVI COM	NAVI
Config	UI DVD	Off
Option	ScrChg-Btn	GU
Image	NAVI COM	HMS
Screen	Reset	FINE
Parking		KD900

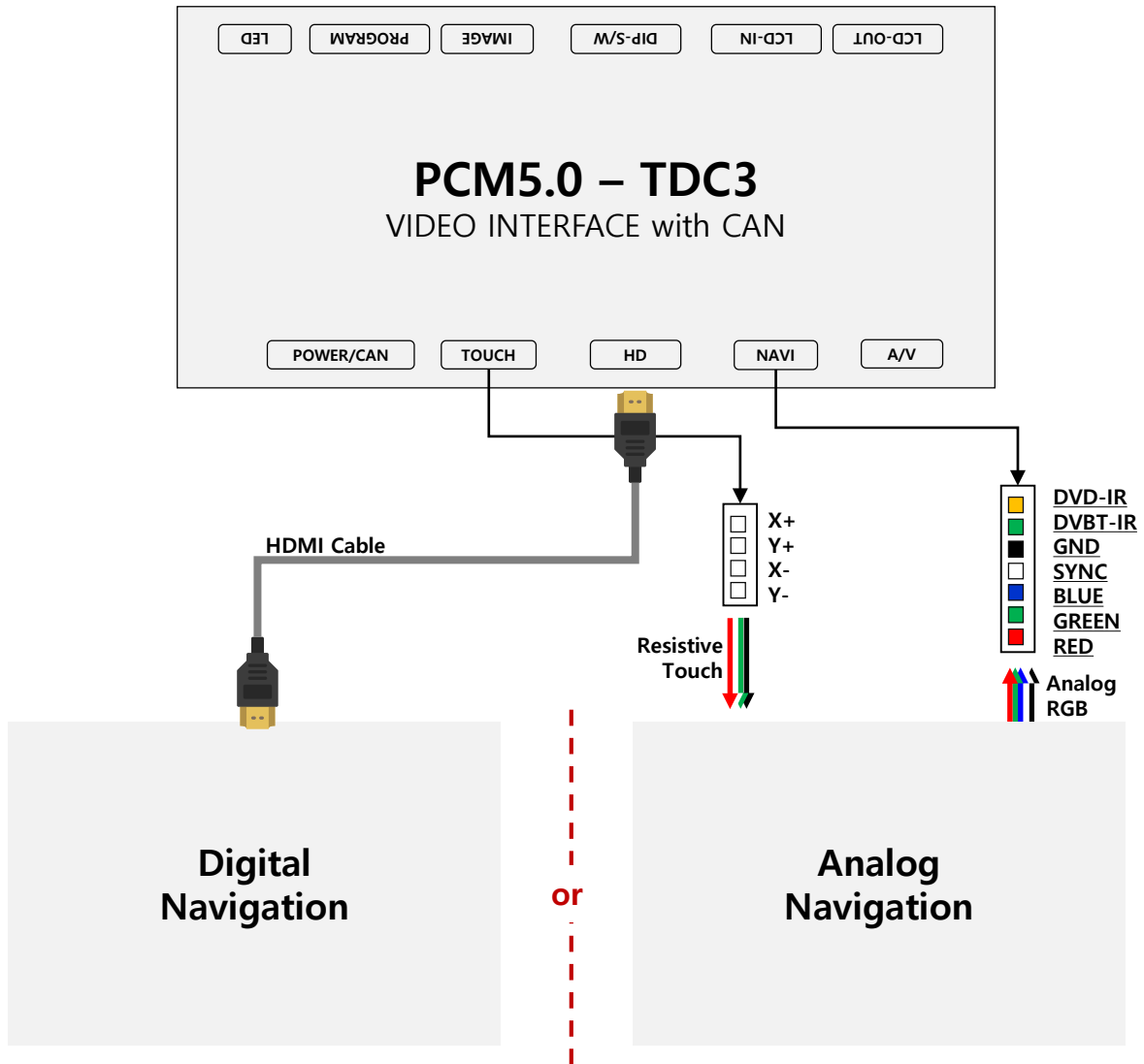
NAVIGATION Settings (Control with Mouse)

3 Device Setting → Select Interface → GU

Device Settings		RESET SETTINGS	RESTART DEVICE
External Speaker	<input checked="" type="checkbox"/>	Analog RGB Settings	
Softkey Enable	<input checked="" type="checkbox"/>	Touch Calibration	
Softkey Position(Side/Bottom)	<input checked="" type="checkbox"/>	Set User Boot Logo	
Softkey Auto Hiding	OFF		
Startup App	OFF		
Select Interface	GU		
Cooling Fan	<input checked="" type="checkbox"/>		
HDMI Out	<input type="checkbox"/>		

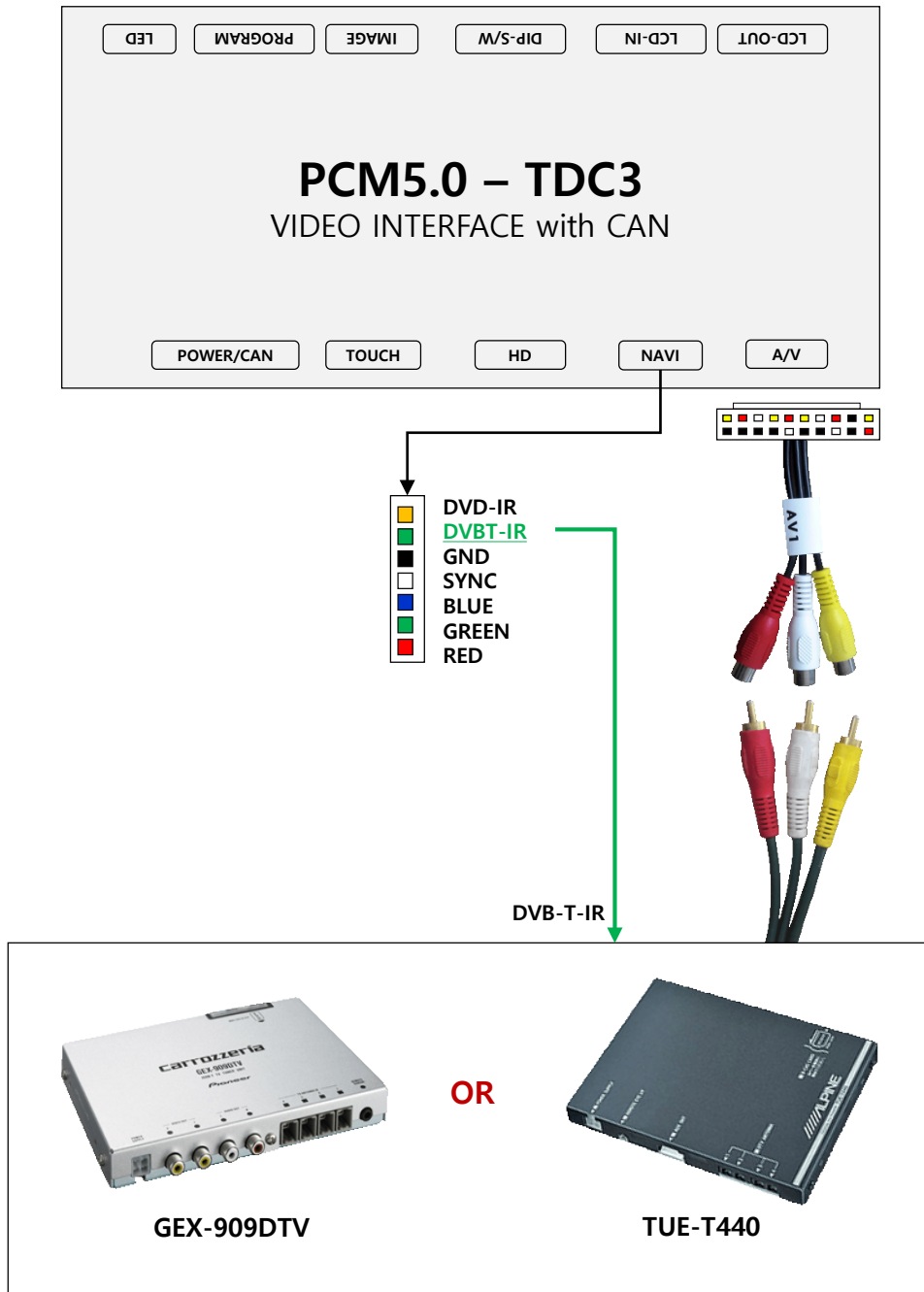
Install Manual

Installation Navigation Connection



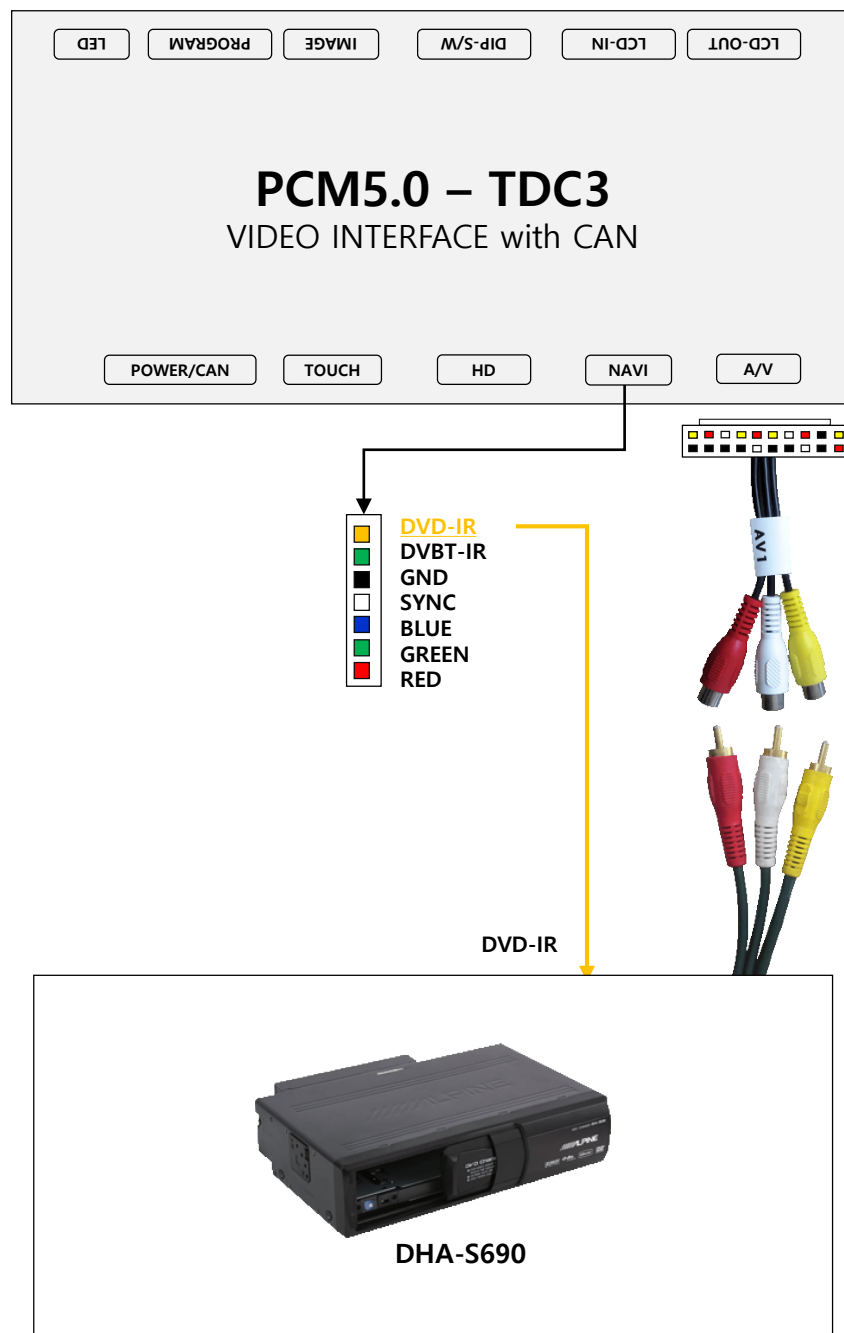
Install Manual

Installation AV1/DVB-T/DMB Remote Control Connection



Install Manual

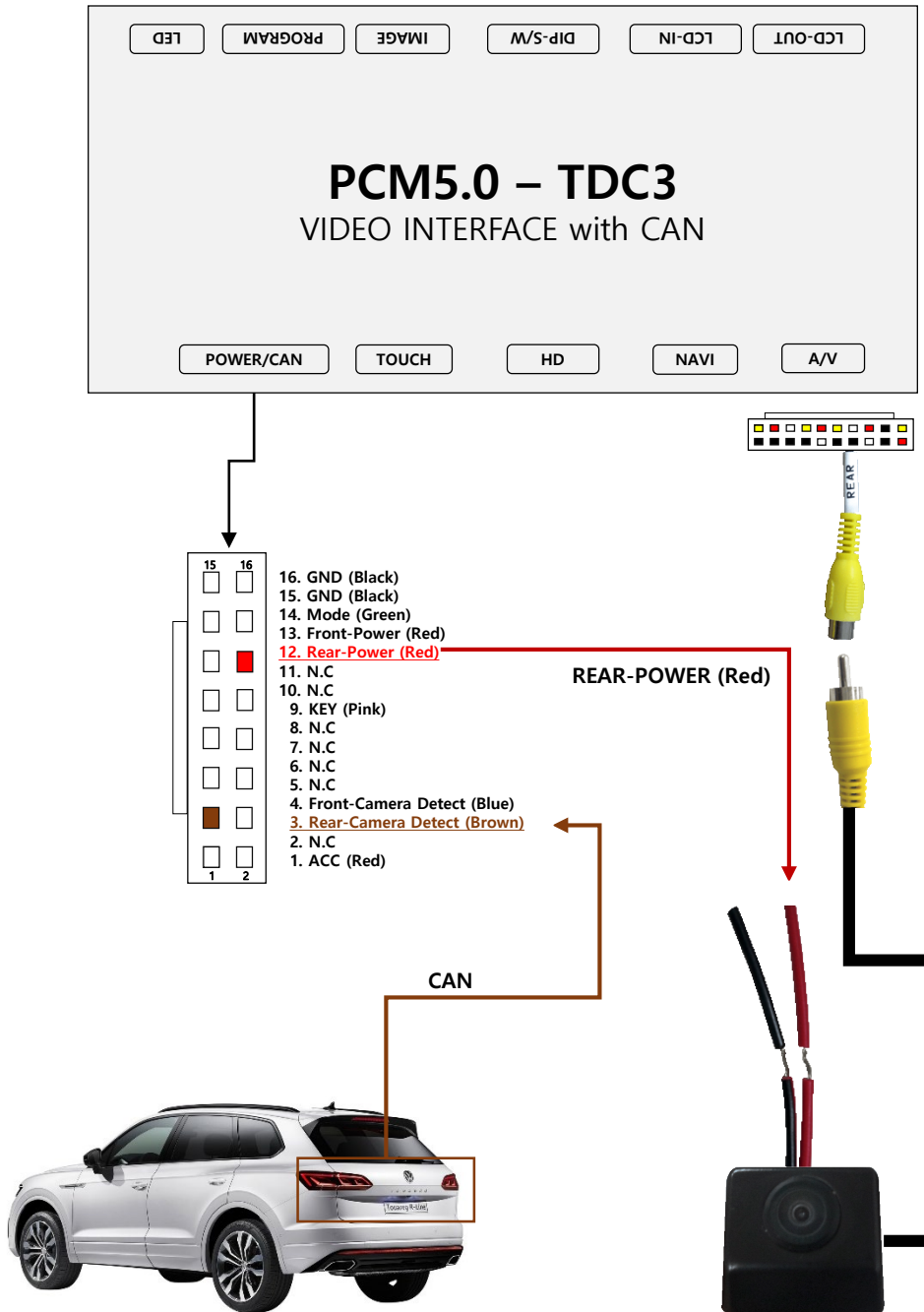
Installation AV2/DVD Remote Control Connection



Install Manual

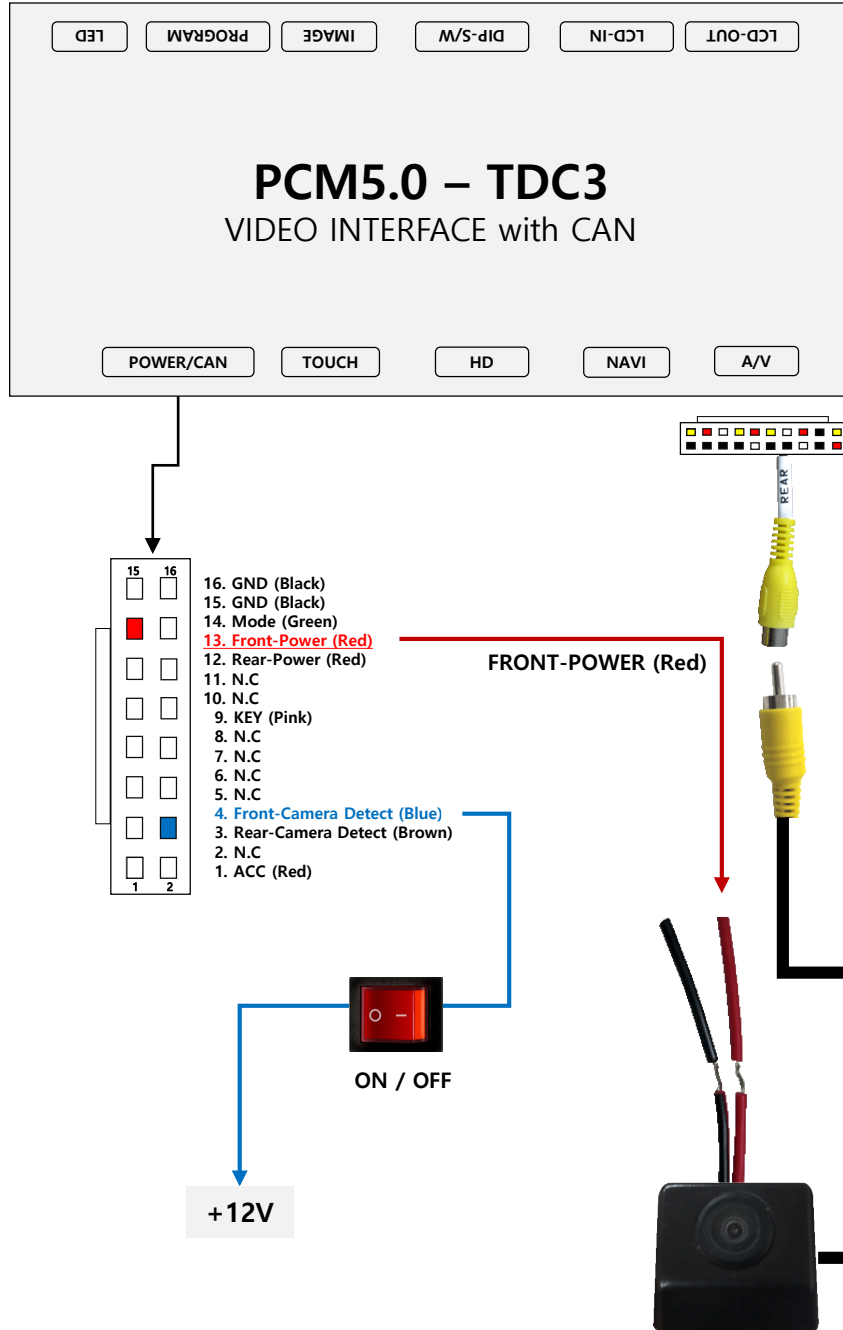
Installation External Reverse(Rear) Camera Connection

OSD Screen selection CAN



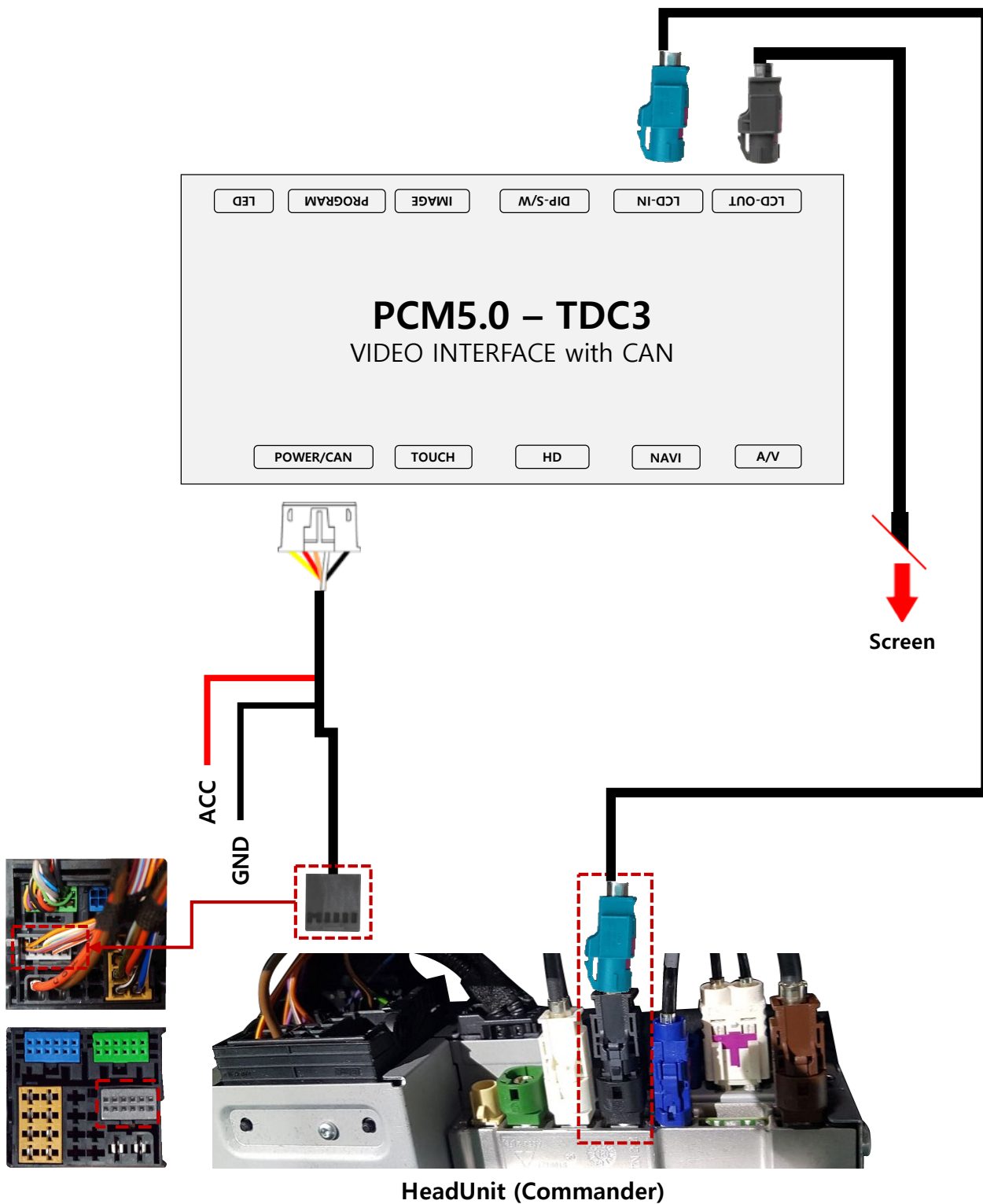
Install Manual

Installation External Front Camera Connection



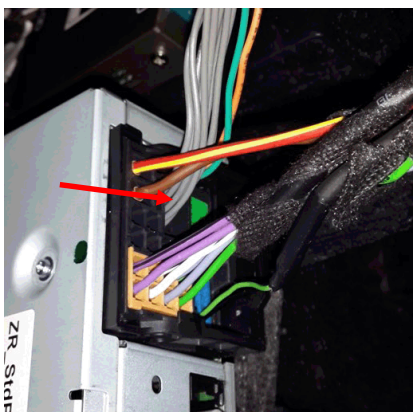
Install Manual

Installation LVDS connection

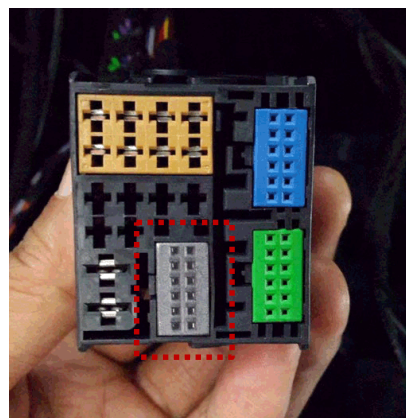


Install Manual

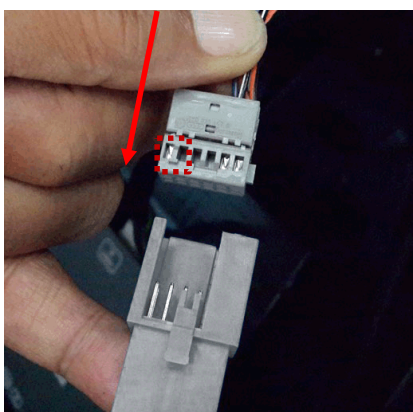
Installation CAN connection



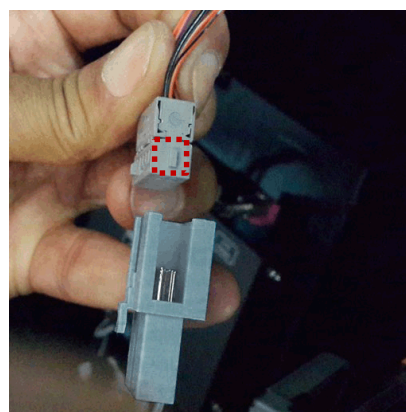
Remove the original gray connector.



Check the gray area



Be careful of the protruding part, connect the connector



Be careful of the protruding part, connect the connector



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