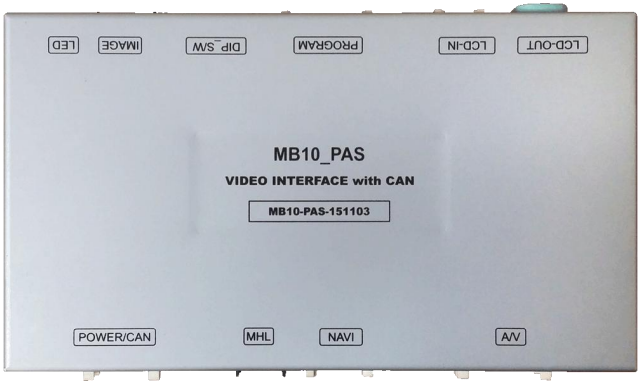
BENZ W221(2011) PAS
MB10 PAS
(VIDEO Interface)



MODEL	MB10-PAS-151103
DATE	2016.02.03

Main Spec.

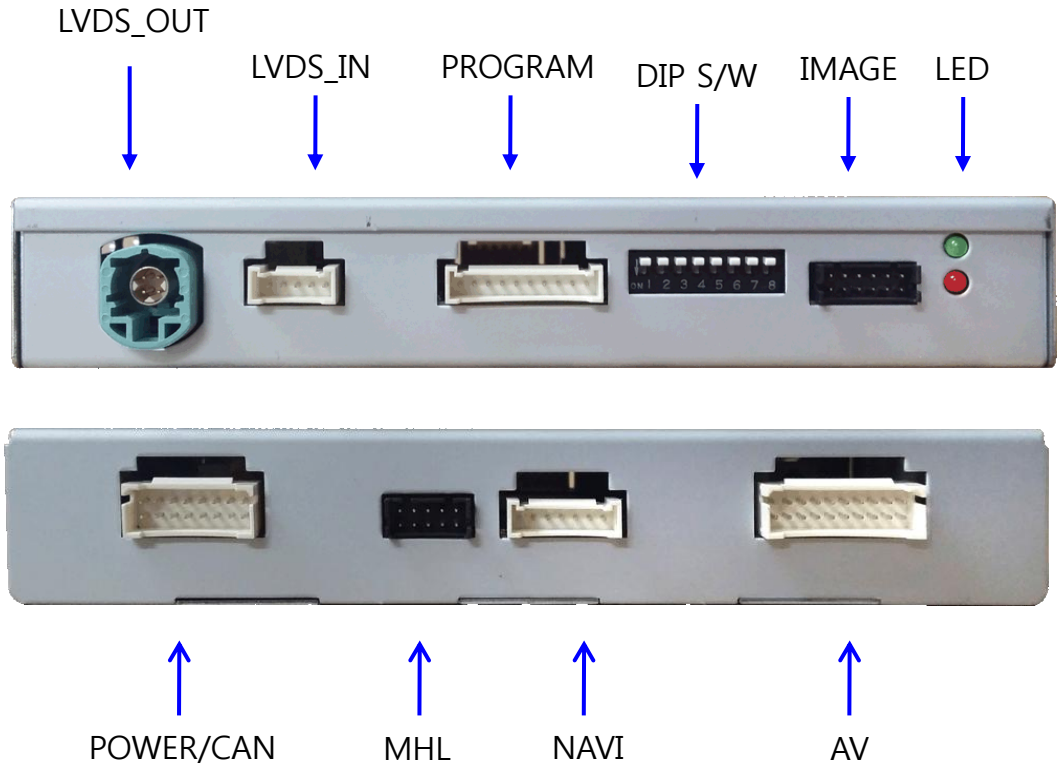
1. Input Spec. (MULTI VIDEO INTERFACE)
   - 2 x Analog RGB Input (Navigation & MHL System)
   - 2 x A/V Input (External video source).
   - 1 x CVBS(REAR CAMERA) Input. (Rear camera source)
   - 1 x CVBS(FRONT CAMERA) Input. (Front camera source)
   - 1 x LVDS Input. (Car Command System)

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

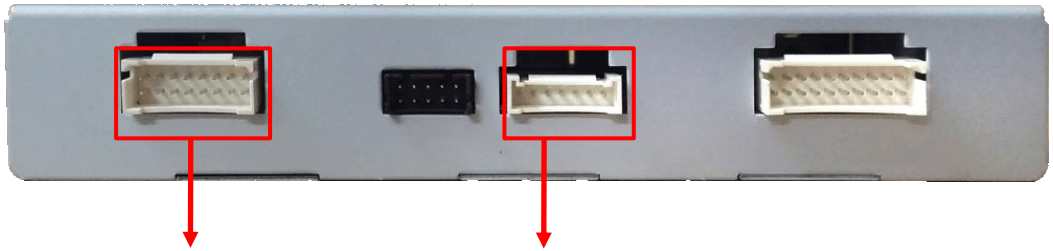
3. Power Spec.
   - Input Power : 8VDC ~ 24VDC
   - Consumption Power : 12Watt, Max

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

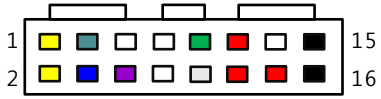
External Appearance



Connector Pin Assignment

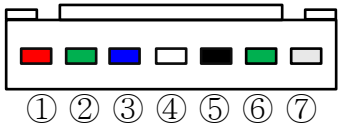


*POWER Connect



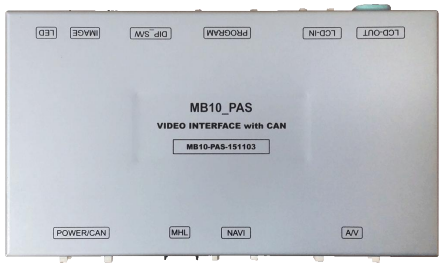
1. Battery (Yellow)
2. Battery (Yellow)
3. REAR-DET (Brown)
4. FRONT-DET (Blue)
5. BCAN-L (White)
6. BCAN-H (Purple)
7. NC
8. NC
9. ECAN-L (Green)
10. ECAN-H (Orange)
11. ACC (Red)
12. FRONT-VCC (Red)
13. NC
14. REAR-VCC (Red)
15. GND (Black)
16. GND (Black)

*NAVI Connect



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)

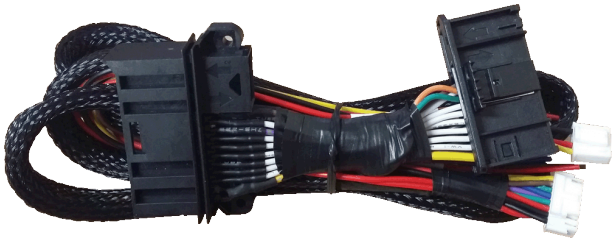
Product Composition



Interface 1 EA



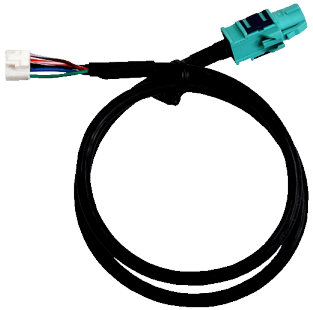
RGB Navi Cable(7pin) 1 EA



Power Cable(7pin) 1 EA



A/V Cable 1 EA



LVDS Cable 1 EA

Product Composition Option



Option : Sub Board 1 EA



Option : RGB Cable 1 EA



Not for sale : HDMI Cable 1 EA

DIP S/W Setting

*** ON : DOWN , OFF : UP**

PIN	FUNCTION	DIP S/W Selection
1	RGB(=NAVI) MUTE	ON : Skipping RGB Mode OFF : RGB Display
2	AV1(=DVB-T) MUTE	ON : Skipping AV1 OFF : AV1 Display
3	AV2(=DVD) MUTE	ON : Skipping AV2 OFF : AV2 Display
4	RGB(=MHL) MUTE	ON : Skipping MHL Mode OFF : MHL Display
5	NC	
6	SPLIT_VIEW	ON : SPLIT_VIEW Monitor OFF : Normal Monitor
7	NC	
8	NC	

*** DIP S/W Example**



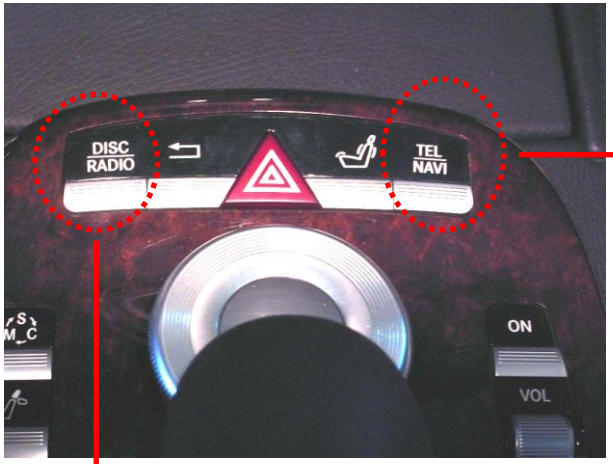
W221(2011year)



SPLIT_VIEW Monitor

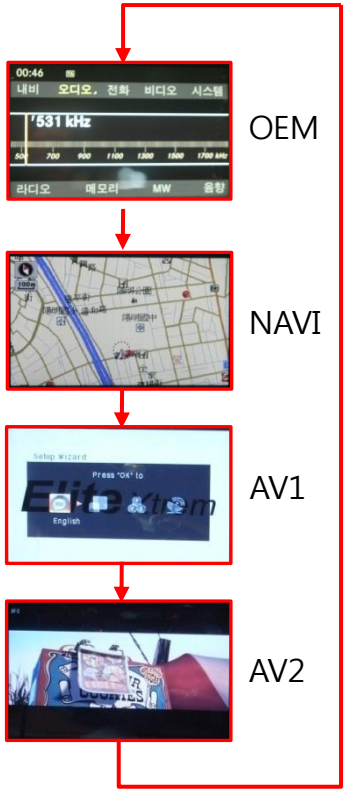
I-DRIVE Control

I-Drive control : S class



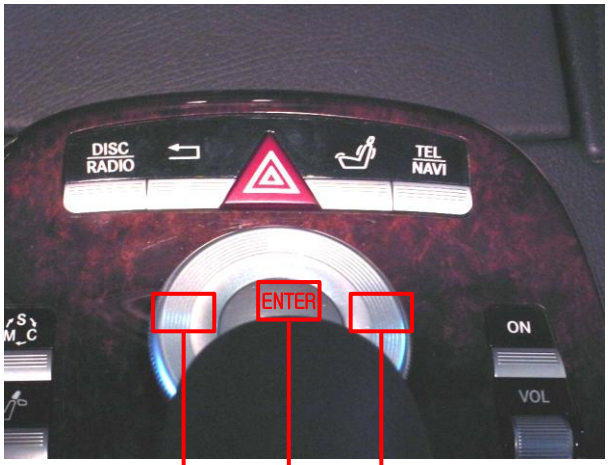
Push Long

Push short, back to OEM screen



I-DRIVE Control

DVB-T UI control





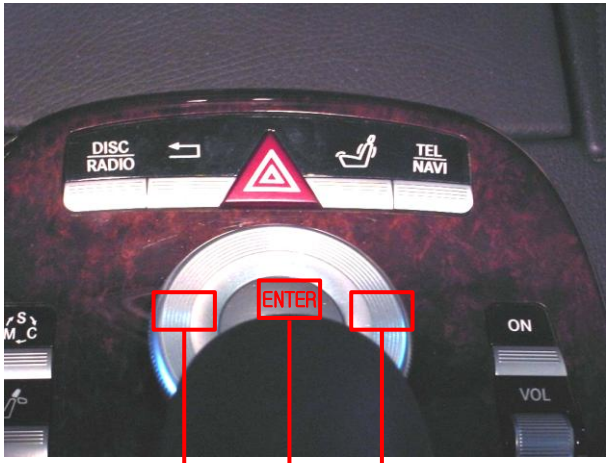
ICON move to right

Push long = DVB-T ICON ON, Push short = ICON select

ICON move to left

I-DRIVE Control

DVD UI control





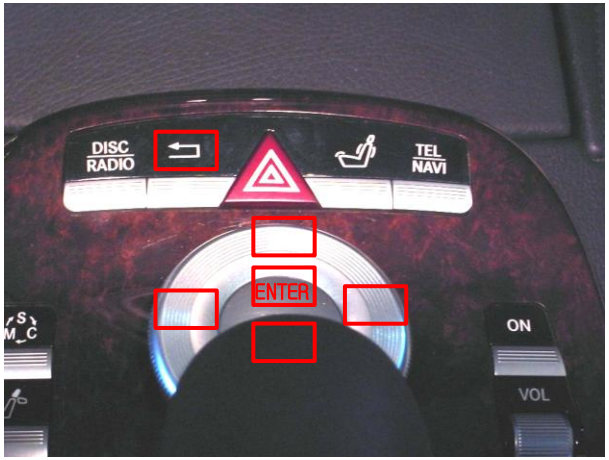
ICON move to right

Push long = DVB-T ICON ON, Push short = ICON select

ICON move to left

OSD(On Screen Display) Control

OSD control



RETURN	Press 6sec, OSD ON Press short MENU EXIT
ENTER	Item Selection, Value Selection
UP	Item up Increase selected value
RIGHT	First->Second->Third Menu move Third Menu에서 Item down Increase selected value
DOWN	Item down Decrease selected value
LEFT	Third->Second->First Menu move Third Menu Item up Decrease selected value

Mode State



First Menu Second Menu Third Menu

OSD(On Screen Display) Control

First Menu	Second Menu	Third Menu	Action
Option	RearCam-Type	OEM	Original Camera
		ExtDevice	Use aftermarket Rear camera
	RearCam-Power	ON	Rear camera get +12V consistently
		AUTO	Rear camera get +12V when reverse gear on
		OFF	Shut out the power supply.
	FrontCam-Type	OEM	Original Camera
		ExtDevice	Use aftermarket Front camera
	FrontCam-Power	ON	Front camera get +12V consistently
		AUTO	Front camera get +12V when reverse gear on
		OFF	Shut out the power supply.
	RearCam-RcvOpt	ON	Show Frontcam 25sec after rear mode.
		OFF	Default
	Reset	Excute	Option Menu all Reset

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 >>

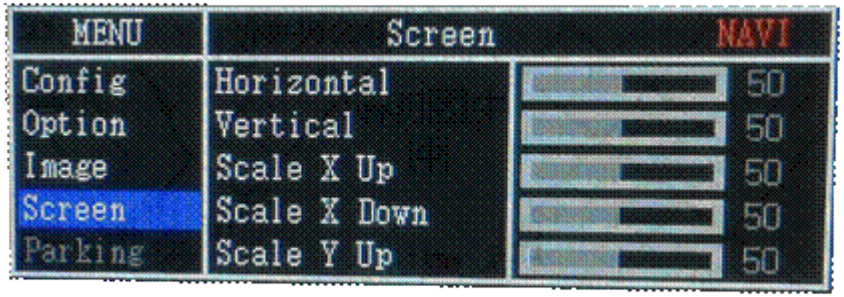


<< Saturation >>

OSD(On Screen Display) Control

OSD Setting- Screen Mode

- Horizontal
- Vertical
- Scaler X Up
- Scaler X Down
- Scaler Y Up
- Scaler Y Down

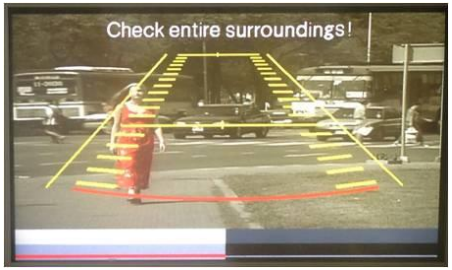


OSD(On Screen Display) Control

OSD Control- Parking Line On/Off



Parking Line ON

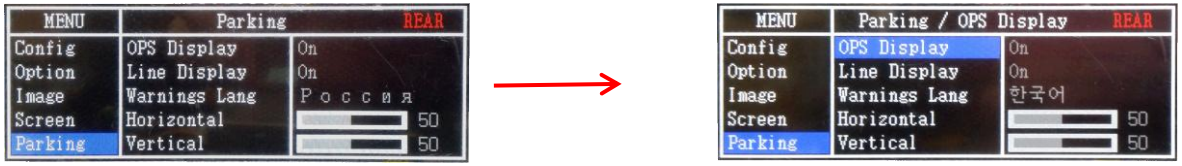


Parking Line OFF



OSD(On Screen Display) Control

OSD Control- Parking Sensor Display on/off







OPS ON

OPS OFF

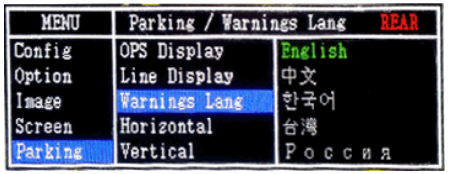


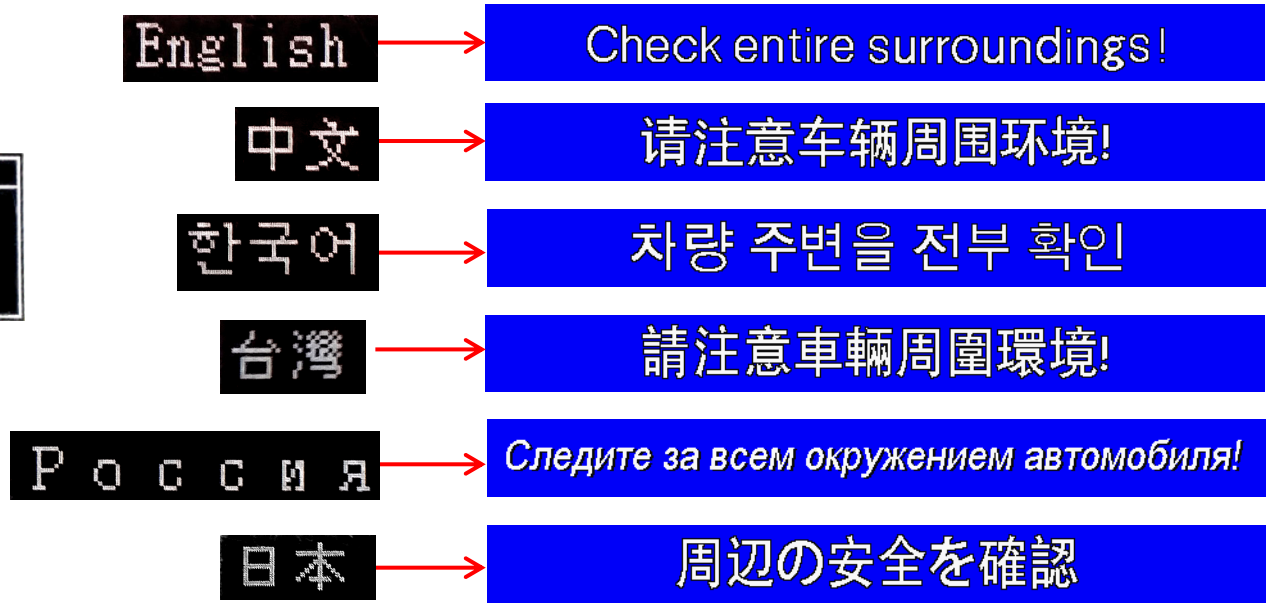


* No sensor car = No OPS

OSD(On Screen Display) Control

OSD Control- Warnings Language Change

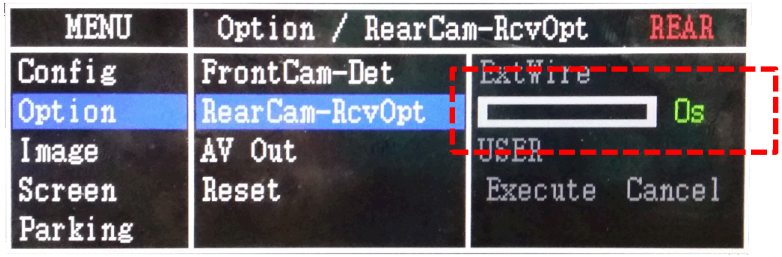


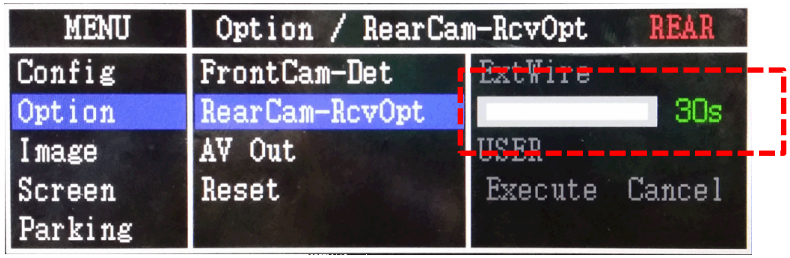


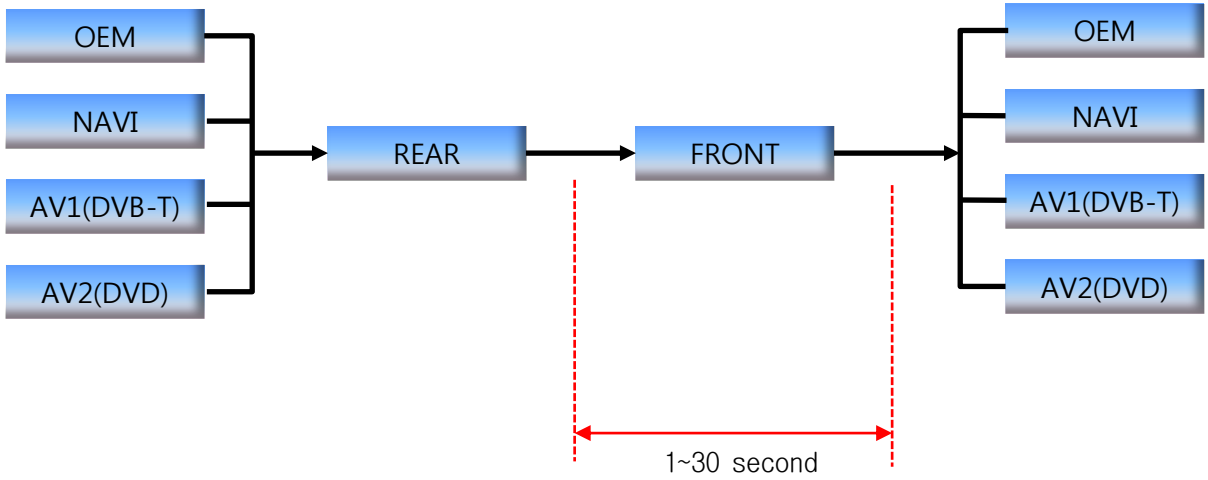
OSD(On Screen Display) Control

OSD Setting - Front Camera Auto Mode

- Option -> RearCam-RcvOpt -> 0 second = RearCam-RcvOpt menu OFF
  1~30 second = RearCam-RcvOpt menu ON & time control

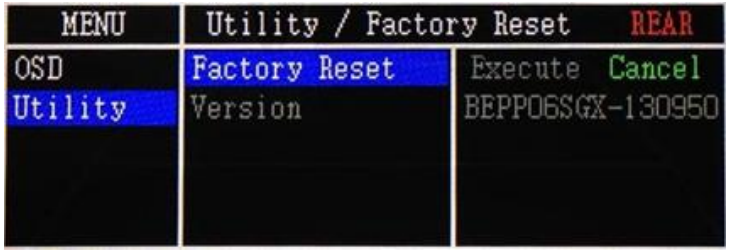






OSD(On Screen Display) Control

OSD Setting - Utility Mode



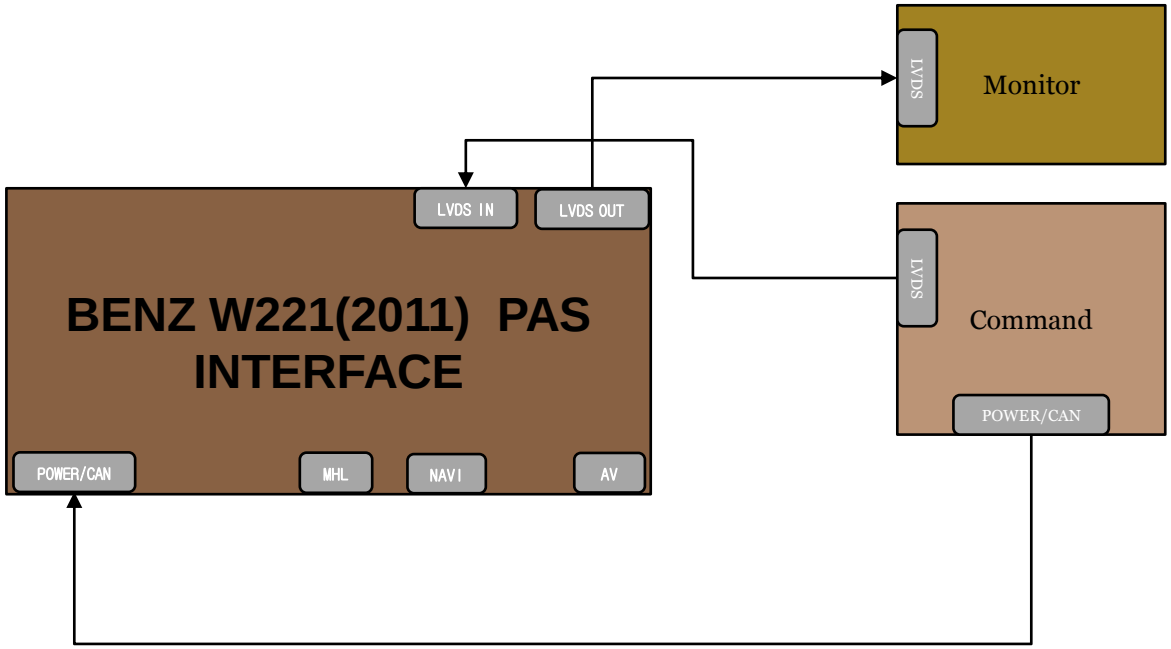
- Factory Reset : Execute - Reset All (Setting Default)
- Version : FW Version
  Finish update FW, check the FW version

Last Source : BEPP06SGX-130950

- Software Version
- Software Month
- Software Year
- Special Version
- National : CN=CHINA, KR=KOREA, JP=JAPAN, US=United States
- Hardware Version
- PIP model : PP=PIP, LV=LVDS
- Motor model : BM=BMW, BE=BENZ, MA=MASERATI, LX:LEXUS

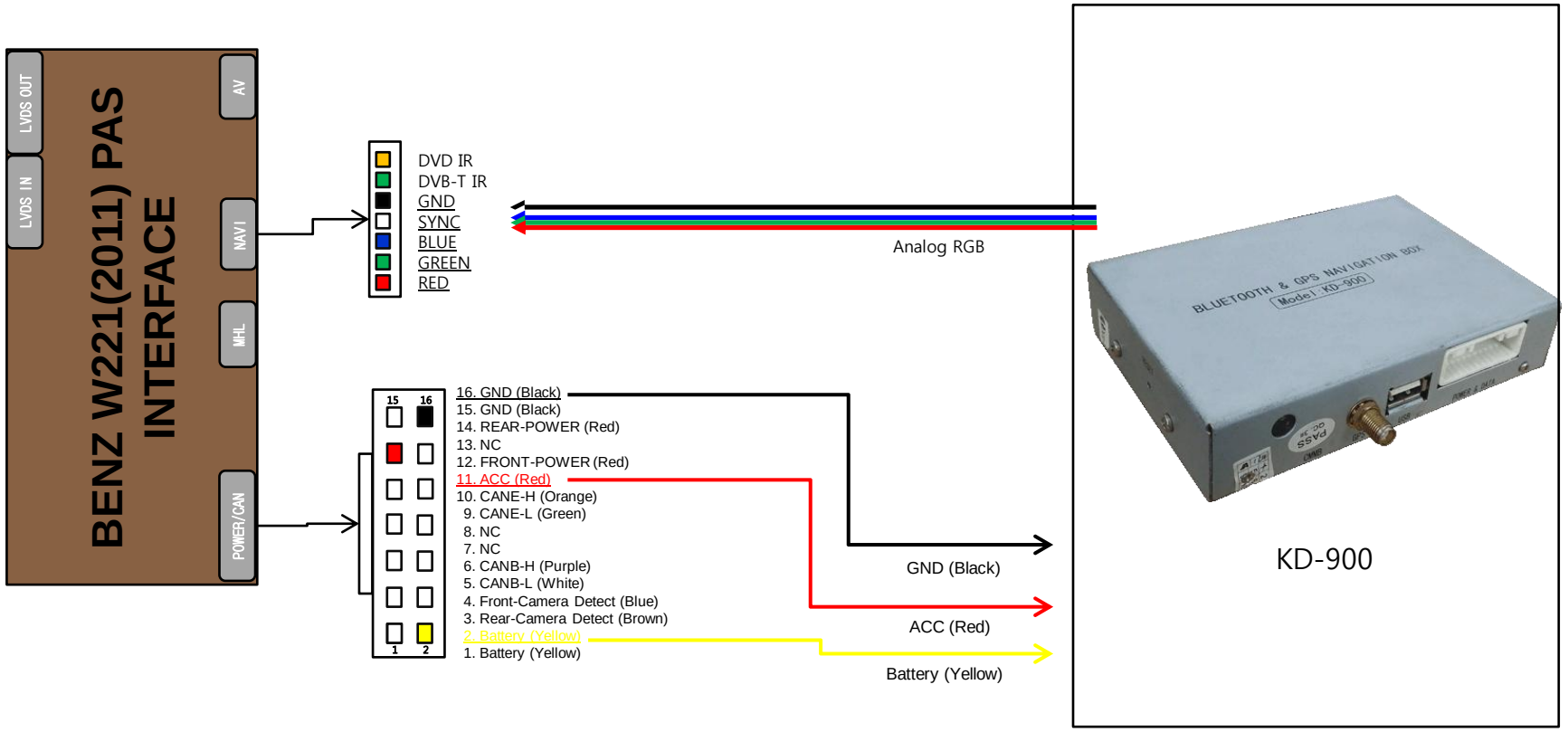
Install Manual

1. Installation Diagram



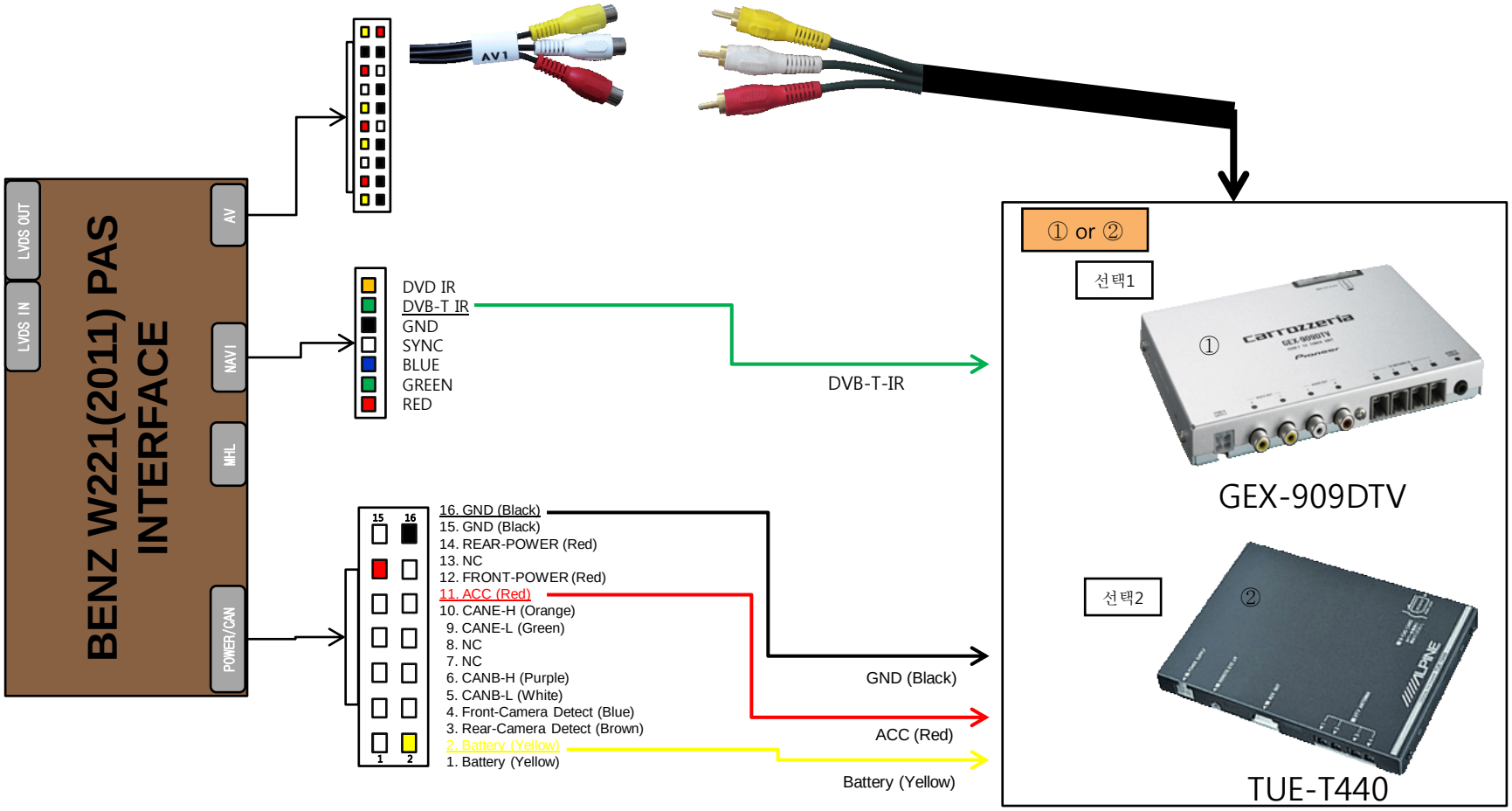
Install Manual

2. Installation Navigation Connection



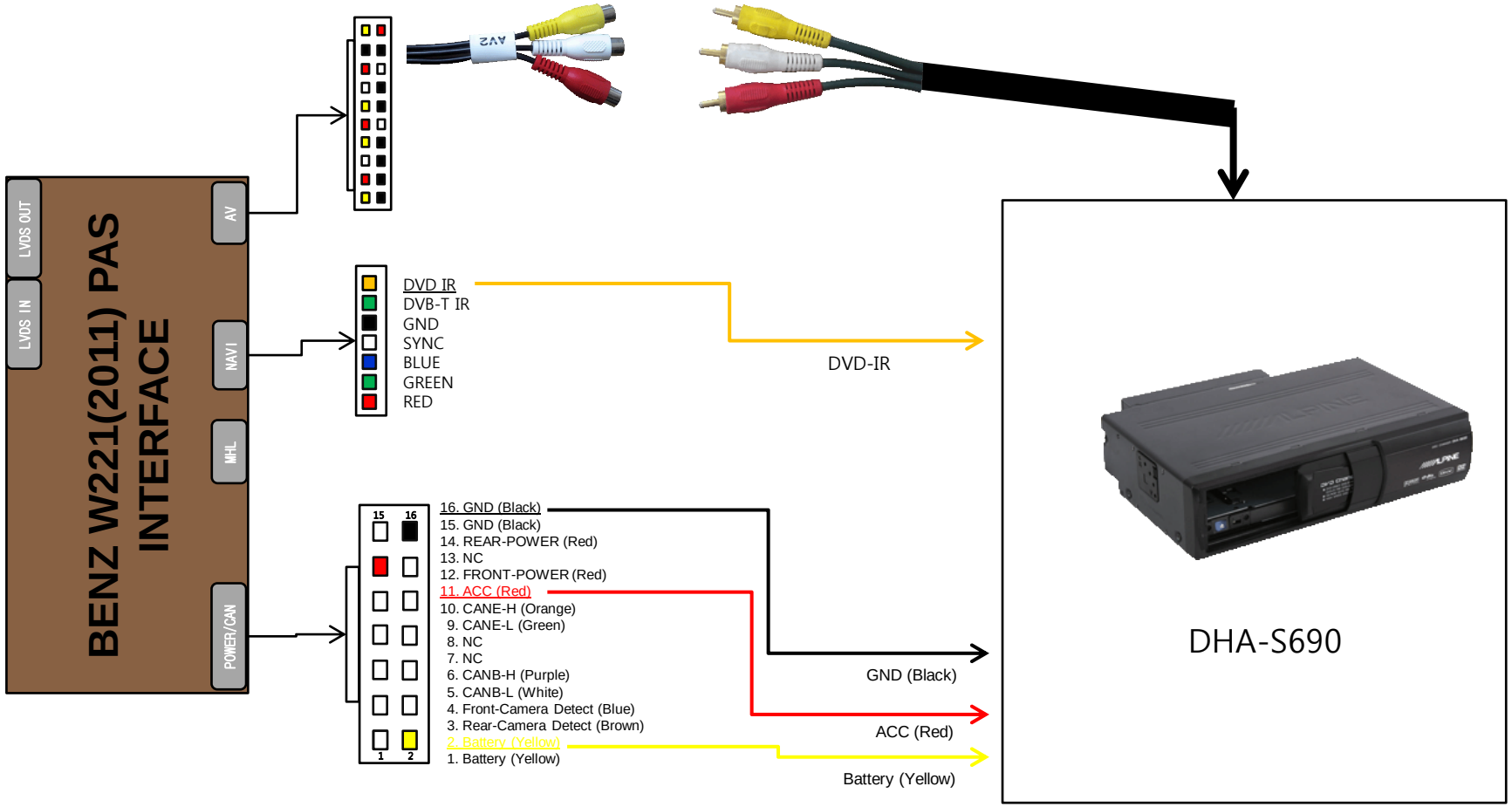
Install Manual

3. Installation DVB-T Remote Control Connection



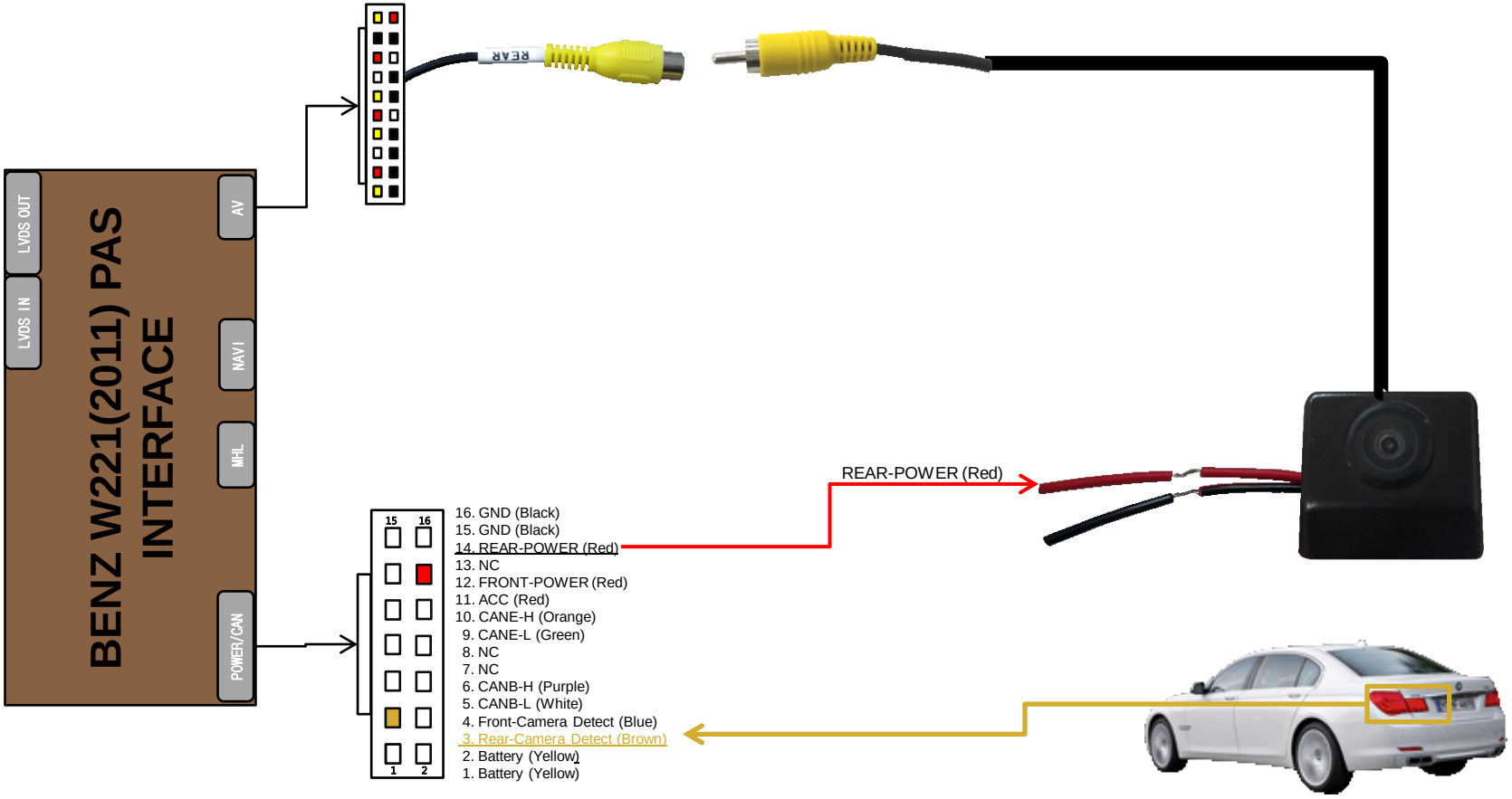
Install Manual

4. Installation DVD Remote Control Connection



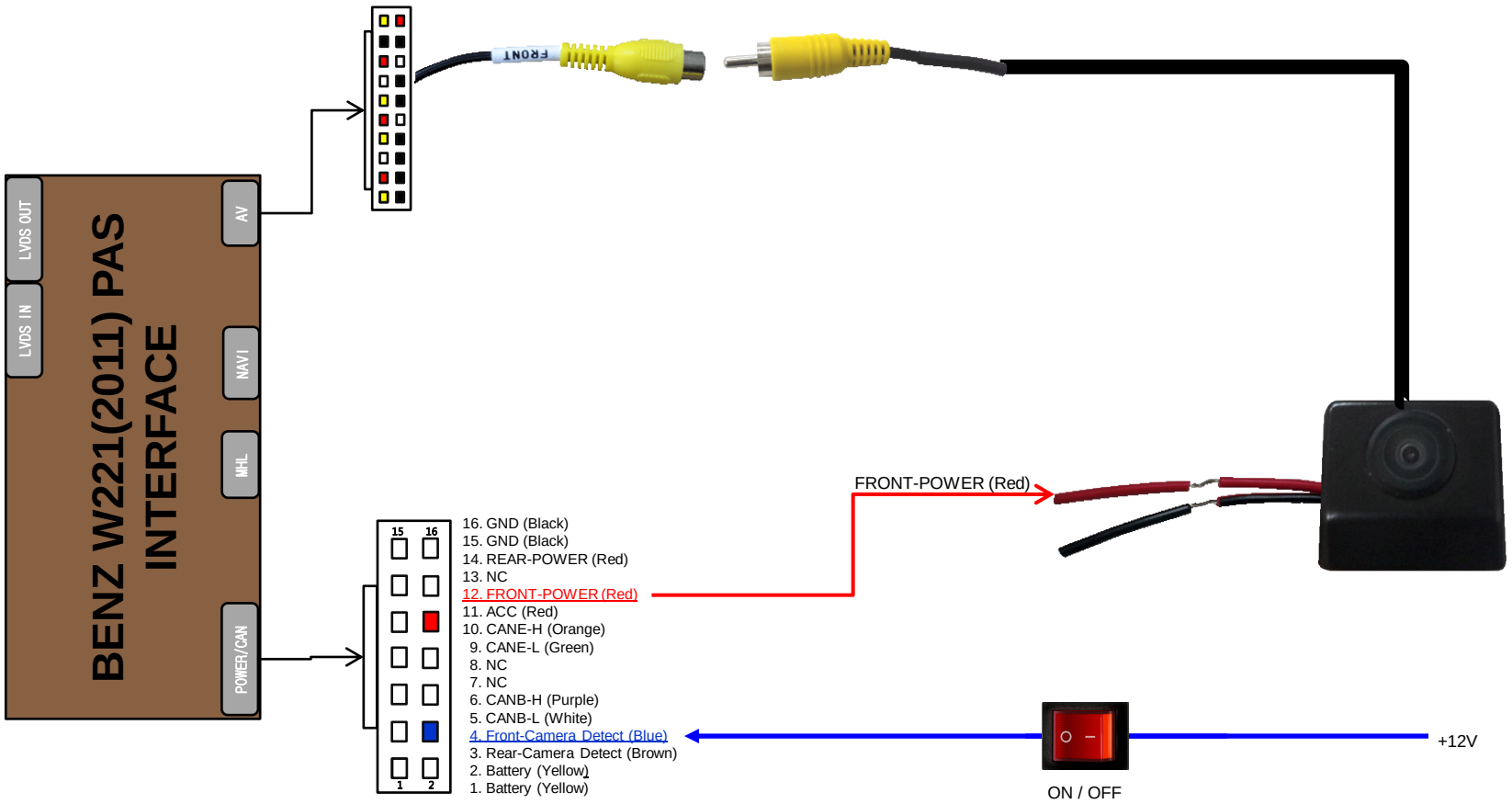
Install Manual

5. Installation External Reverse(Rear) Camera Connection : OSD Screen selection CAN



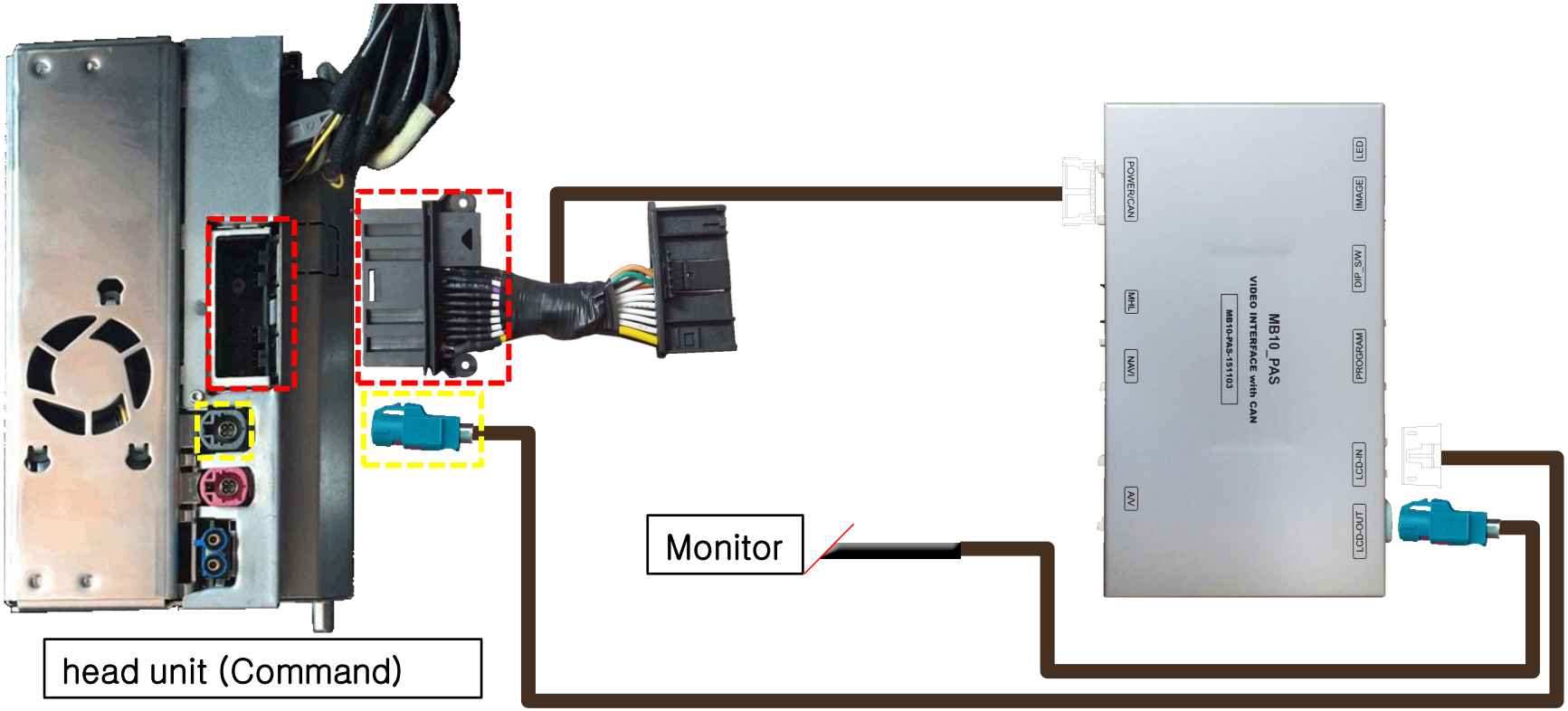
Install Manual

6. Installation External Front Camera Connection



Install Manual

7. Installation LVDS connection



Q & A

1. If Interface has a problem, Please check LED.



- ACC on (12v), If Interface does not have a problem; GREEN LED is blinking every 1 sec..
- RED LED is turn on (not blinking), Interface has a problem.
- RED LED is turn off every 1 sec, there is no input.
- RED LED and GREEN LED both are not turn on, check the CAN or ACC connection.

2. Q : LCD screen black
   A : LVDS Cable problem or, connection problem.

3. When DTV or DVD mode, cannot control with I-Drive
   - Check IR cable, and DTV or DVD device's ground cable and Interface ground cable join together with using extra cable.
   - Check device in OSD menu