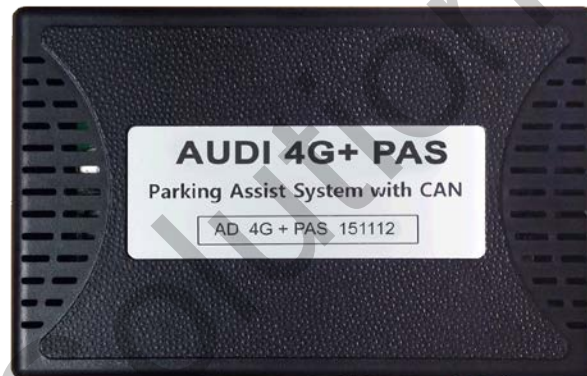


# Audi 4G+ PAS (Rear Camera Interface)



MODEL	AD 4G+ PAS-151112
DATE	2016.06.20

# Main Spec.

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## 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)

## 2. Output Spec.

- 1 x LCD Output (LCD Operation)

## 3. Power Spec.

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

## 4. Switch Input mode

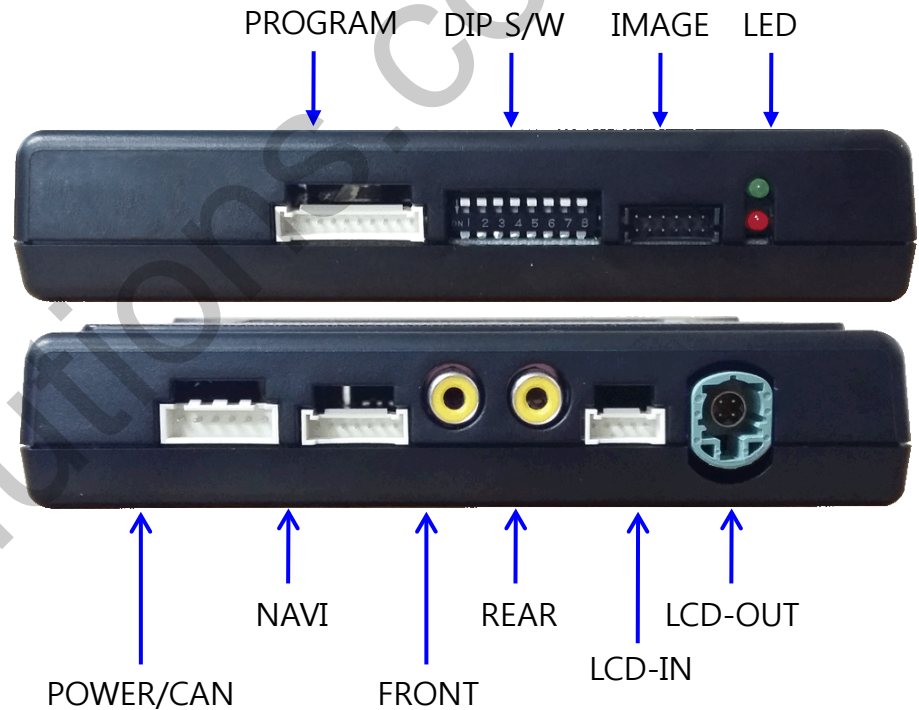
- Possible to select CAR model while switching mode by DIP S/W
- By button on the Commander in the car via CAN

# Dimension/External Appearance

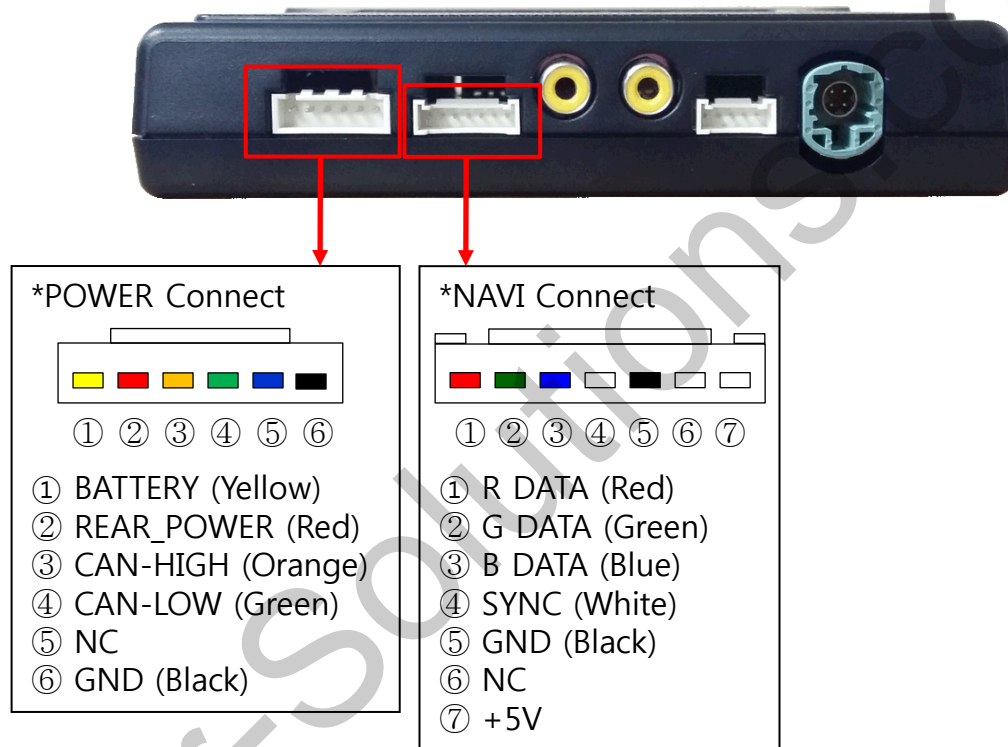
136.5mm \* 87.5 mm \* 22mm



\* This can change under manufacturer's circumstance



# Connector Pin Assignment

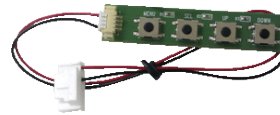


# Product Composition

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Interface 1 EA



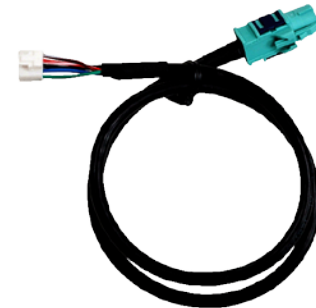
OSD Board 1 EA



Power Cable 1 EA



RGB Cable(5PIN) 1 EA



LVDS Cable(O type) 1 EA

# DIP S/W Setting

\* ON : DOWN , OFF : UP

PIN	FUNCTION	DIP S/W Selection
1	NAVI	ON : Not Used OFF : Used
2	VIDEO mode	ON : Not used OFF : used
3	N.C	
4	N.C	
5	CAR type SEL	Right Picture
6		
7		
8		

\* DIP S/W Example



Audi\_A4\_8.2"

# DIP S/W Setting

\* Use Steering Wheel Button - Audi A4 (4G system)



- For use Navigation, DIP S/W 1 must 'OFF' and cable no.5 (MMI) must connect

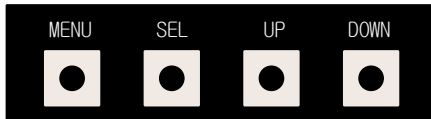


MENU	Option / Hand wheel Btn	NAVI
Config	FrontCam-Det	ExtWire
Option	RearCam-RcvOpt	<input type="checkbox"/> Os
Image	Hand wheel Btn	MODE NAV OFF
Screen	Reset	Execute Cancel
Parking		

\* Choose "NAV" button on OSD menu  
If No need this function, Choose "OFF"

# OSD(On Screen Display) Control

## OSD Control Board



MENU	Push -> OSD menu On/Off
SEL	Item Selection, Value Selection
UP	Item up Increase selected value
DOWN	Item down Decrease selected value

		Mode State
MENU	Config	NAVI
Config	NAVI-RGB	KD900(WVGA)
Option	NAVI-AV	Default
Image	DVD	ELT-980XU Slim
Screen	DVB-T(IMB)	ELT-DVBT20
Parking	BlackBox	Default
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 >>



<< Saturation >>



<< Contrast >>

# OSD(On Screen Display) Control

## OSD Setting- Screen Mode

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

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

# OSD(On Screen Display) Control

\* Rear Detect control

MENU	Option / RearCam-Det	NAVI
Config	RearCam-Type	ExtDevice
Option	RearCam-Power	Auto
Image	RearCam-Det	P>> GEAR
Screen	FrontCam-Type	ExtDevice
Parking	FrontCam-Power	Auto

Car Audio Box Button



MENU	Option / RearCam-Det	NAVI
Config	RearCam-Type	ExtDevice
Option	RearCam-Power	Auto
Image	RearCam-Det	P>> GEAR
Screen	FrontCam-Type	ExtDevice
Parking	FrontCam-Power	Auto

Gear



# OSD(On Screen Display) Control

OSD Setting- Parking Mode On/Off

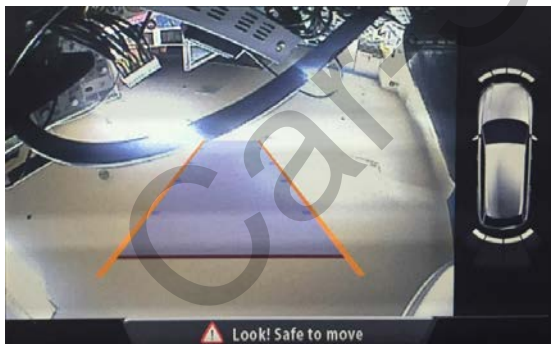
MENU	Parking	REAR
Config	Line Display	Off
Option	Warnings Lang	English
Image	Horizontal	<input type="text" value="50"/>
Screen	Vertical	<input type="text" value="57"/>
Parking	Transparency	<input type="text" value="100"/>

MENU	Parking / Line Display	REAR
Config	Line Display	Off
Option	Warnings Lang	English
Image	Horizontal	<input type="text" value="50"/>
Screen	Vertical	<input type="text" value="57"/>
Parking	Transparency	<input type="text" value="100"/>

MENU	Parking / Line Display	REAR
Config	Line Display	On Off
Option	Warnings Lang	English
Image	Horizontal	<input type="text" value="50"/>
Screen	Vertical	<input type="text" value="57"/>
Parking	Transparency	<input type="text" value="100"/>

MENU	Parking / Line Display	REAR
Config	Line Display	On Off
Option	Warnings Lang	English
Image	Horizontal	<input type="text" value="50"/>
Screen	Vertical	<input type="text" value="57"/>
Parking	Transparency	<input type="text" value="100"/>

Parking Line ON



Parking line OFF



# OSD(On Screen Display) Control

OSD Setting - Warnings Language Change

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



# OSD(On Screen Display) Control

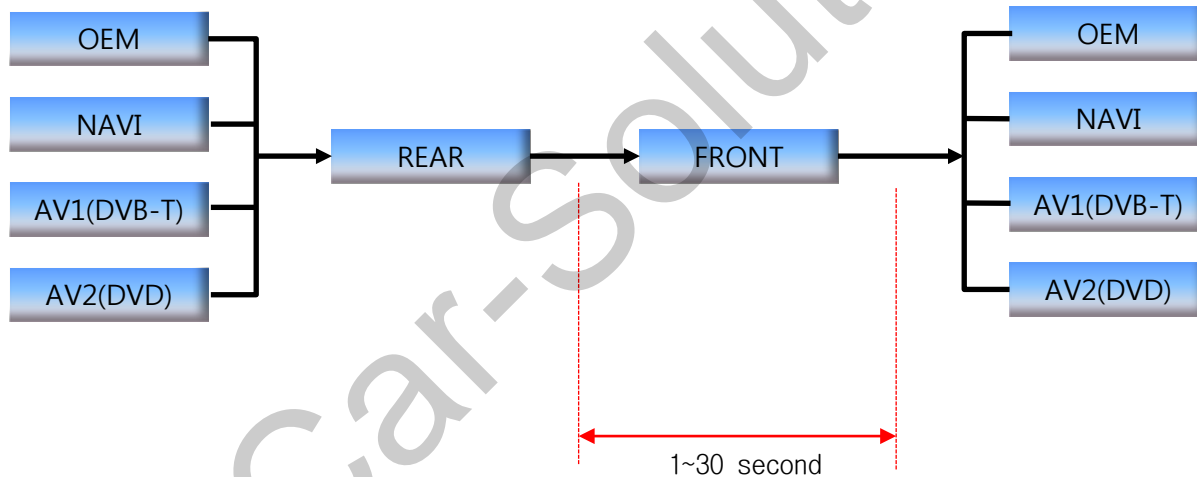
## OSD Setting - Front Camera Auto Mode

- Option -> RearCam-RcvOpt -> 0 second = RearCam-RcvOpt menu OFF

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

MENU	Option / RearCam-RcvOpt	REAR
Config	FrontCam-Det	ExtWire
Option	RearCam-RcvOpt	0s
Image	AV Out	USER
Screen	Reset	Execute Cancel
Parking		

MENU	Option / RearCam-RcvOpt	REAR
Config	FrontCam-Det	ExtWire
Option	RearCam-RcvOpt	30s
Image	AV Out	USER
Screen	Reset	Execute Cancel
Parking		



# OSD(On Screen Display) Control

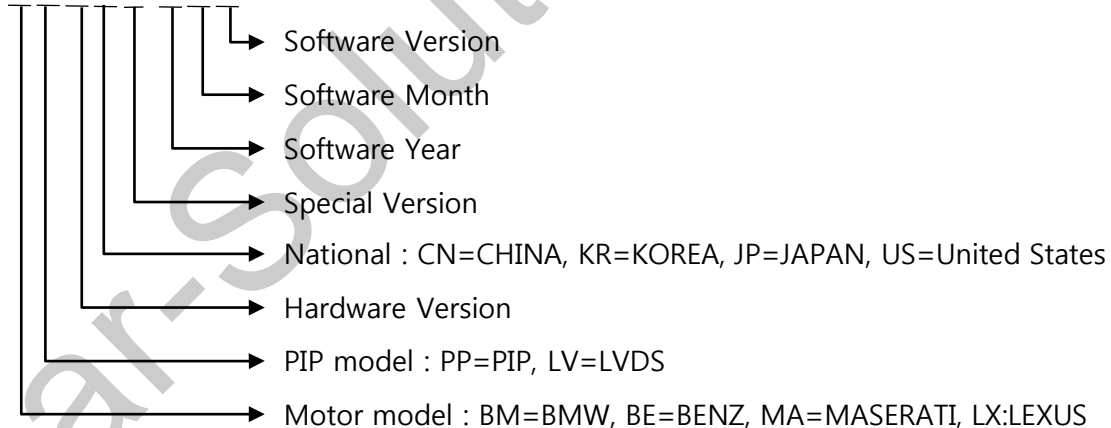
## OSD Setting - Utility Mode

MENU	Utility / Factory Reset	REAR
OSD	Factory Reset	Execute Cancel
Utility	Version	BEPP06SGX-130950

- Factory Reset : Execute - Reset All (Setting Default)
- Version : FW Version

Finish update FW, check the FW version

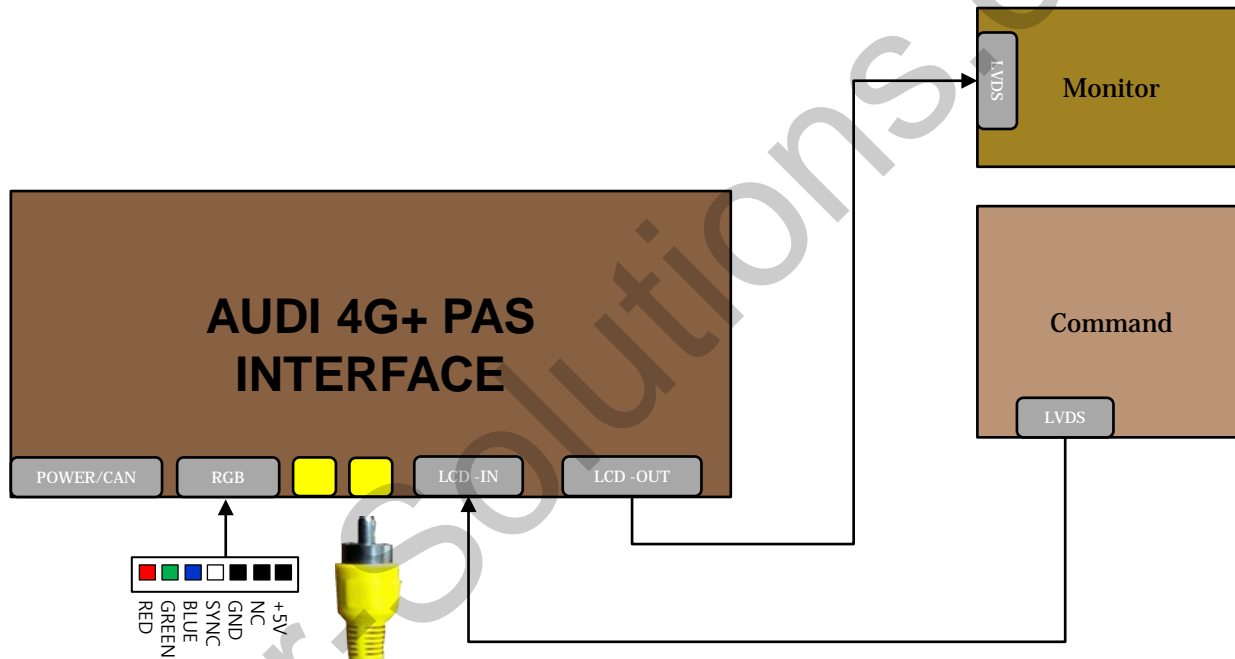
Last Source : BEPP06SGX-130950





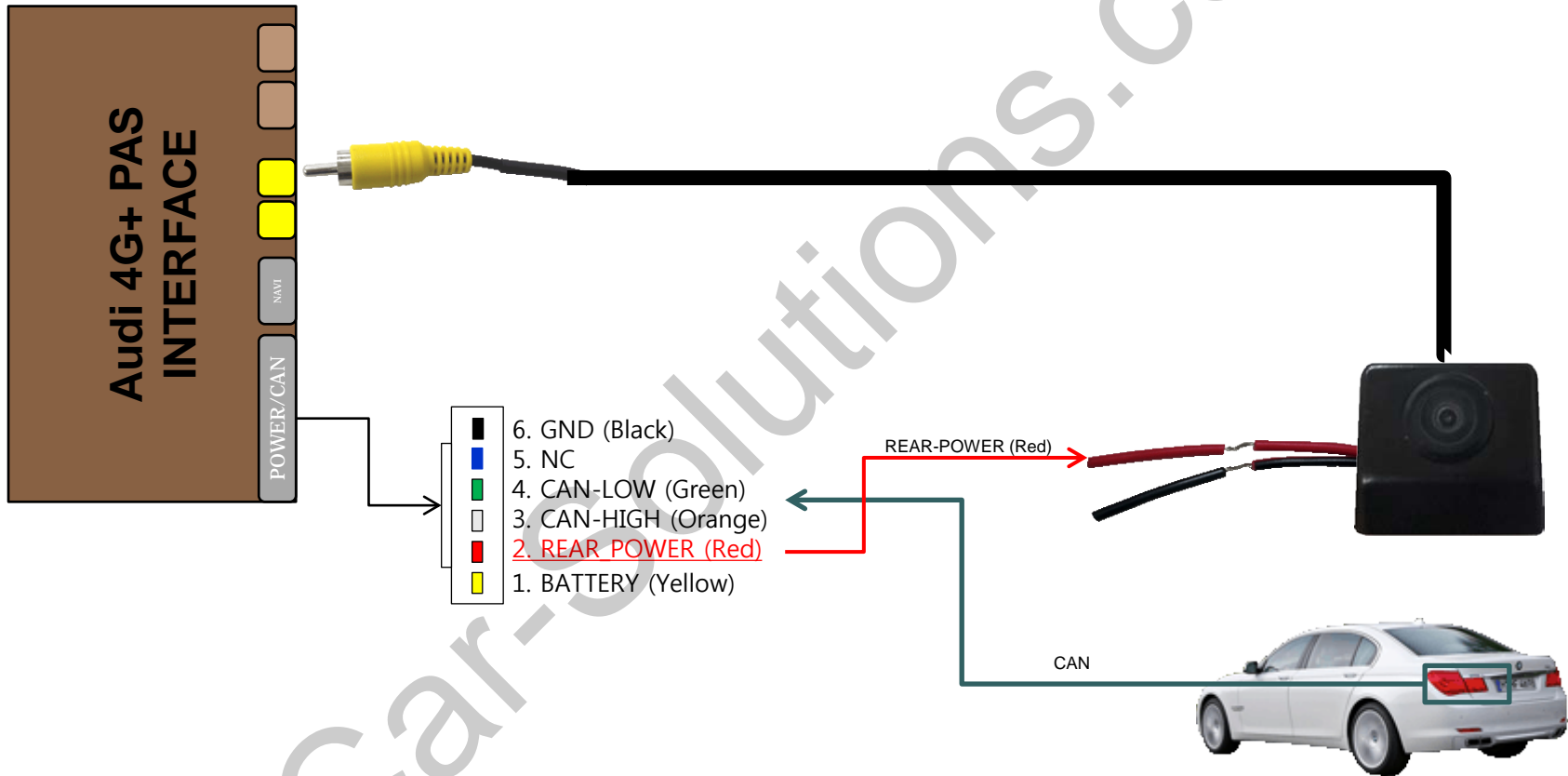
# Install Manual

## 1. Installation Diagram



# Install Manual

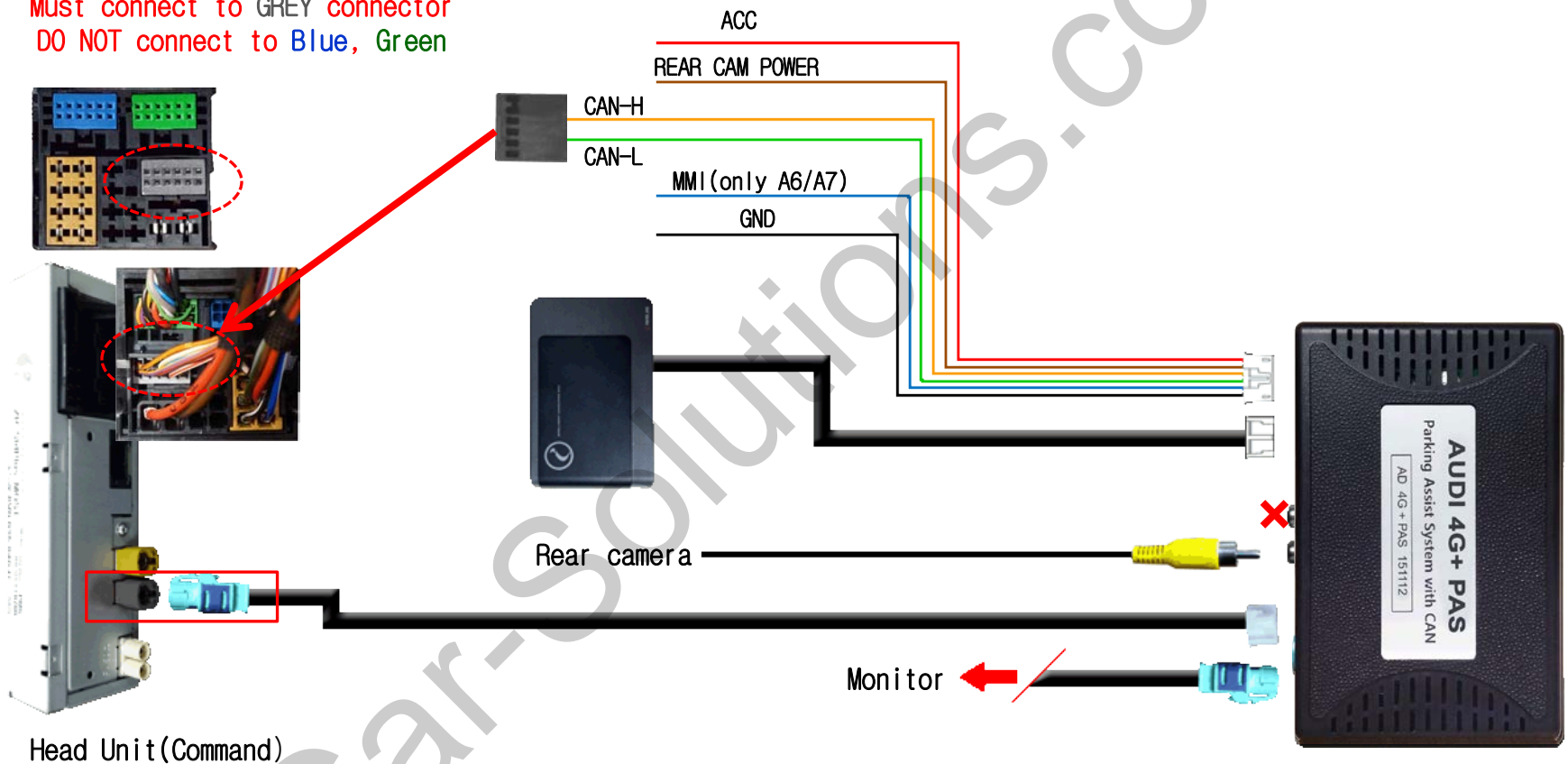
## 2. Installation External Reverse(Rear) Camera Connection : OSD Screen selection CAN



# Install Manual

## 3. Installation LVDS connection

Must connect to GREY connector  
DO NOT connect to Blue, Green

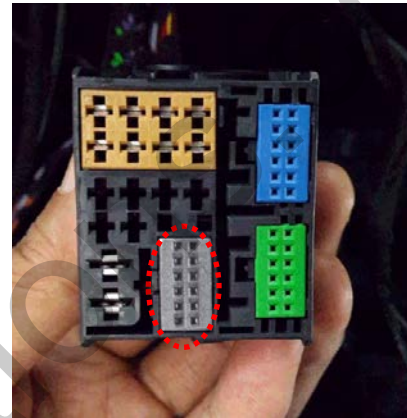


# Install Manual

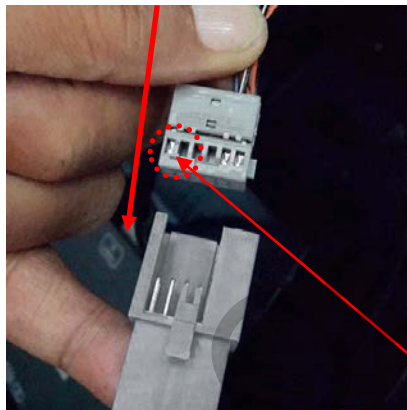
## 4. Installation CAN connection



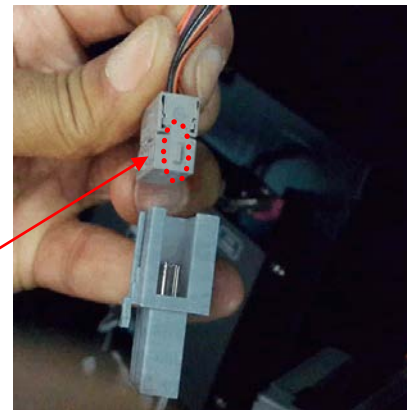
Pull out  
original GREY  
connector



Check GREY connector  
(Carefully, Important)



Connect carefully  
Check the connector.



Connect carefully  
Check the connector .

※ Check this point !

# 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