

AUDI 4G HIGHEND (VIDEO Interface)



MODEL	AD 4G 151223
DATE	2016.04.21

Main Spec.

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 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 LVDS Output (LCD Operation)

3. Power Spec.

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

4. Switch Input mode

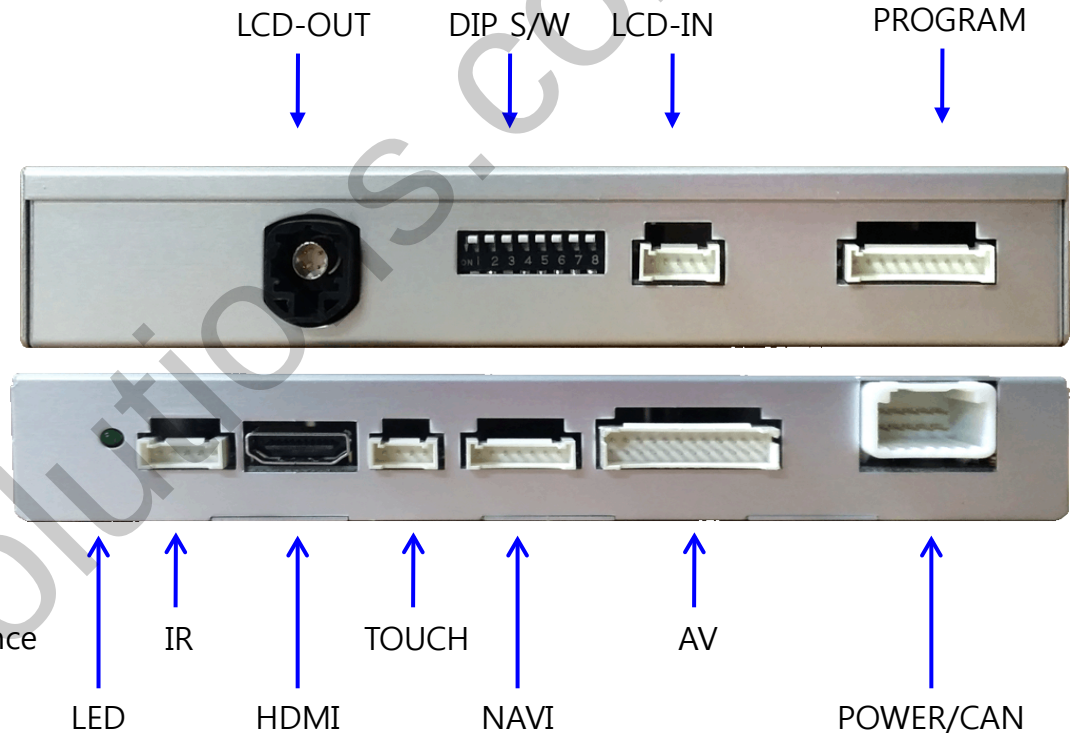
- Possible to select CAR model while switching mode by DIP S/W
- By button on the Commander in the car via CAN

Dimension/External Appearance

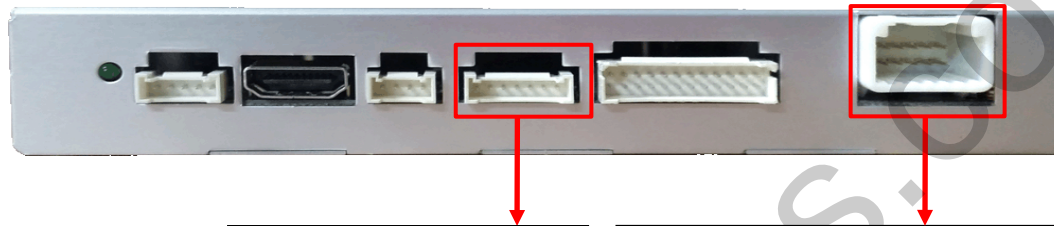
156mm * 93 mm * 26mm



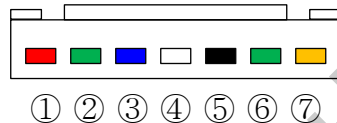
* This can change under manufacturer's circumstance



Connector Pin Assignment

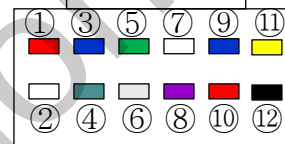


*NAVI Connect



- 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)

*POWER Connect

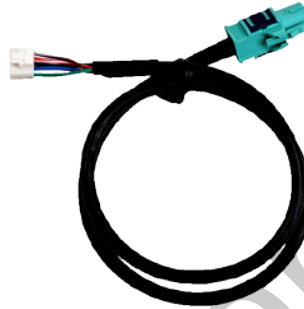


- ① ACC (Red)
- ② NC
- ③ REAR_POWER (Blue)
- ④ REAR_DET (Brown)
- ⑤ CAN-B-LOW (Green)
- ⑥ CAN-B-HIGH (Orange)
- ⑦ CAN-OUT-LOW (White)
- ⑧ CAN-OUT-HIGH (Violet)
- ⑨ CAN-IN-LOW (Blue)
- ⑩ CAN-IN-HIGH (Red)
- ⑪ MMI (Yellow)
- ⑫ GND (Black)

Product Composition



Interface 1 EA



LVDS Cable 1 EA
(O-Type S/T work)
Or (O-Type R/A work)



A/V Cable(24pin) 1 EA



Power Cable 1 EA



RGB NAVI Cable(7pin) 1 EA



Touch exchange Cable(for KD-900) 1 EA



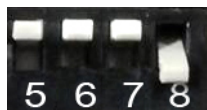
OSD Board 1 EA

DIP S/W Setting

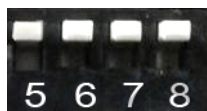
* ON : DOWN , OFF : UP

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

* DIP S/W Example



Volkswagen_Golf_8.0"



Volkswagen_Golf_5.8"



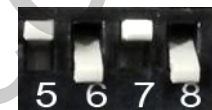
Volkswagen_Polo_6.5"



Volkswagen_Golf_6.5"



Porsche_2016_7.0"



Audi_A3_7.0"



Audi_A3_5.8"



Audi_A6_8.0"



Audi_A4/Q7_7.0" (Low Cost)

DIP S/W Setting

* Use Steering Wheel Button - Audi A6/A7 (4G system)



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



NAVI mode change

* VW / Audi A3 not support Navigation

Mode Change

* Audi A4 / Q7 (Low cost) Mode change

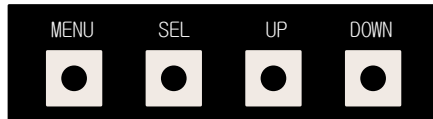


* AUDI-A6 Mode change



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

OSD Setting - Parking Mode On/Off

MENU	Parking	REAR
Config	Line Display	Off
Option	Warnings Lang	English
Image	Horizontal	50
Screen	Vertical	57
Parking	Transparency	100



MENU	Parking / Line Display	REAR
Config	Line Display	Off
Option	Warnings Lang	English
Image	Horizontal	50
Screen	Vertical	57
Parking	Transparency	100



MENU	Parking / Line Display	REAR
Config	Line Display	On Off
Option	Warnings Lang	English
Image	Horizontal	50
Screen	Vertical	57
Parking	Transparency	100



MENU	Parking / Line Display	REAR
Config	Line Display	On Off
Option	Warnings Lang	English
Image	Horizontal	50
Screen	Vertical	57
Parking	Transparency	100

Parking Line ON



Parking line OFF



On Reverse mode enter this OSD menu
www.car-solutions.com

support@car-solutions.com

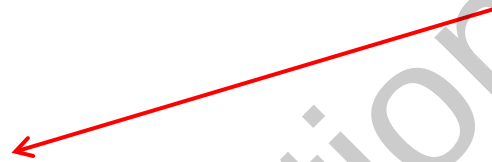
OSD(On Screen Display) Control

OSD Setting - Parking Sensor Display On/Off

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



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

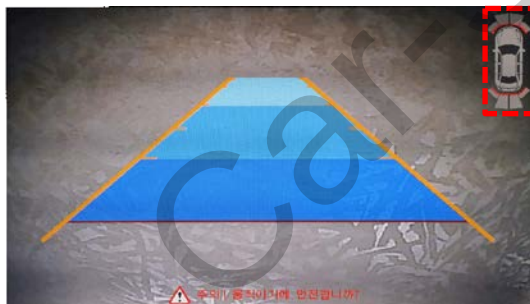


MENU	Parking / OPS Display	REAR
Config	OPS Display	On Off
Option	Line Display	On
Image	Warnings Lang	한국어
Screen	Horizontal	50
Parking	Vertical	50



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

OPS ON



OPS OFF



If car don't have a parking sensor, NO OPS Image

support@car-solutions.com

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

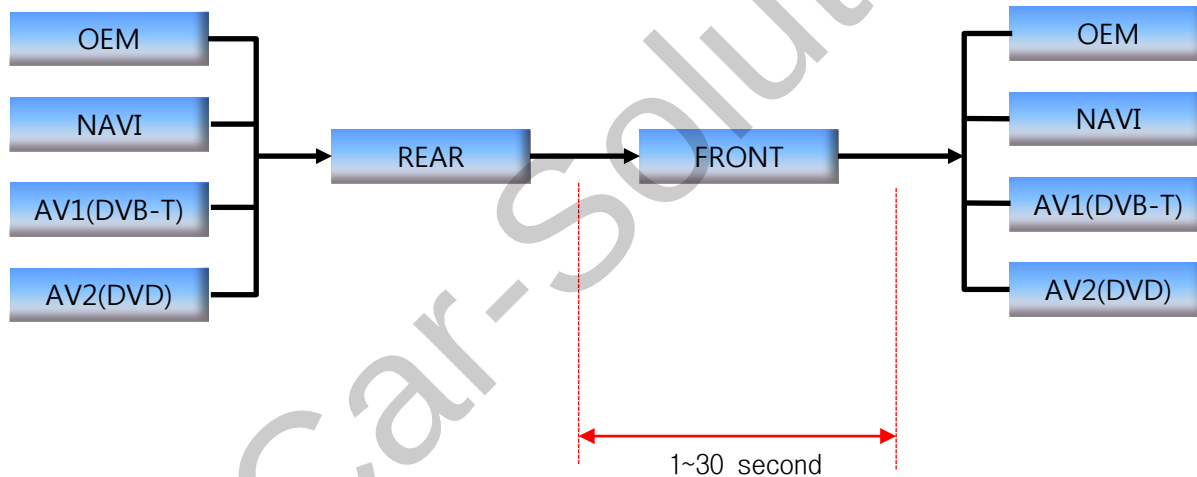
OSD Setting - Front Camera Auto Mode

- 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

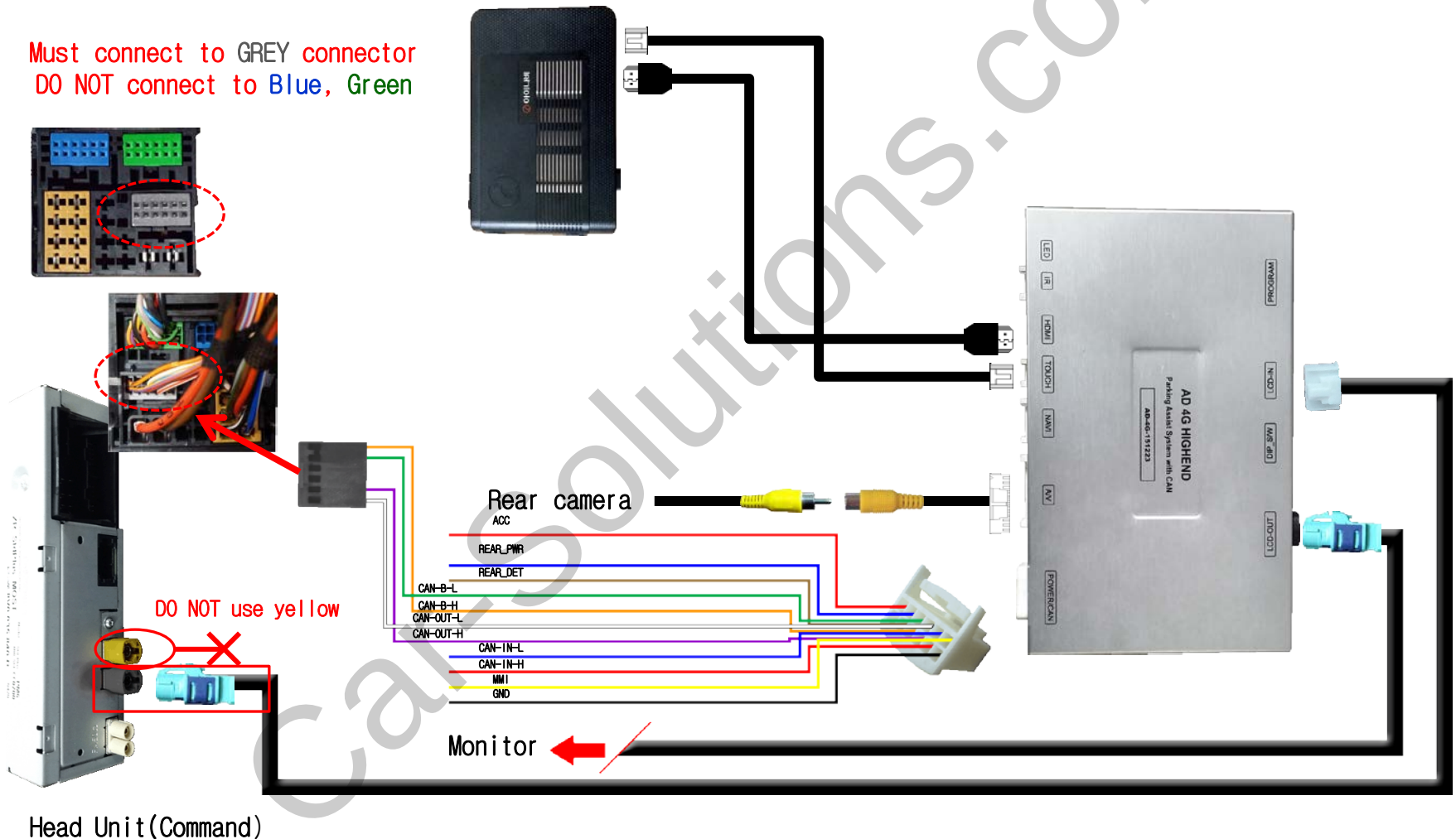
Last Source : BEPP06SGX-130950



Install Manual

3. Installation LVDS connection

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

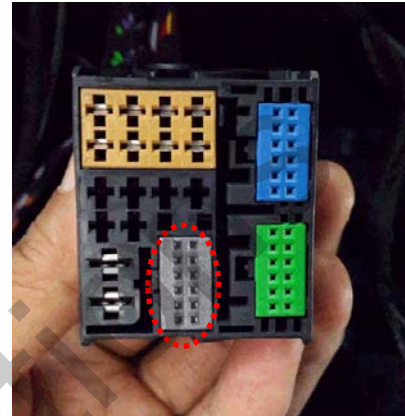


Install Manual

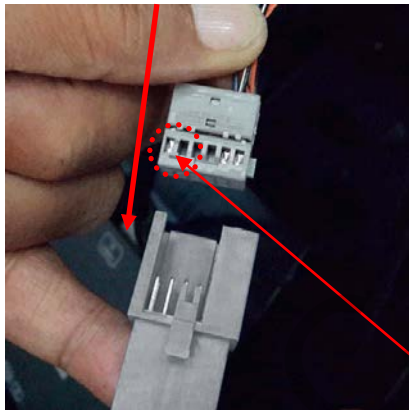
4. Installation CAN connection



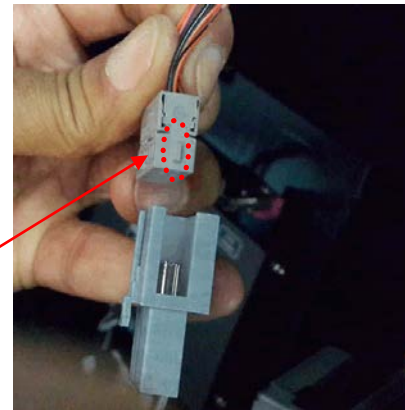
Pull out
original GREY
connector



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 blakc

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