# AUDI 4G+ PAS Parking Assist System



#### **REAR INTERFACE**

MODEL.	AD 4G+ PAS-151112
DATE.	2019.02.01



Korea Auto Parts

## Serviceable Model





Not supported.



4G 7.0inch





## Spec

#### 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



## **External Appearance**



Power/CAN NAVI FRONT REAR LCD-IN LCD-OUT



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## Connector Pin Assignment



## **Product Composition**





## **Dip Switch Setting**

OFF : ▲UP ON : ▼DOWN

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				
6		Pottom Dicture		
7	CAR type SEL			
8				

1 2 2 4 8 6 7 <u>9</u>

### Car Type Select



Audi **A4/Q7 8.2**"



## Mode Change

• DIP-SW 1 must be OFF in order to install Navigation ON





MENU	SteeringWheelBtn DVB-T			
Config	FrontCam-Det	ExtWir	е	
Option	FrontCam-RcvOpt			Os
Image	SteeringWheelBtn	MODE	NAV	OFF
Screen	UI DVB-T(DMB)	On		
Parking	UI DYD	On		

- Use by selecting "MODE" or "NAV" from the OSD menu (Select "OFF" when the button is not
- ٠ used.)



OSD(On Screen Display) Control Board



MENU	<ul><li>The OSD screen can be switched ON/OFF</li><li>Return to previous menu</li></ul>
SEL	<ul><li>Select the currently active item</li><li>If the OSD screen is off, mode changes can be made.</li></ul>
UP	<ul><li>Move up from the menu</li><li>Increase the selected item value</li></ul>
DOWN	<ul><li>Move down from the menu</li><li>Decrease the selected item value</li></ul>

			•
MENU	Option		NAVI
Config	RearCam-Type	ExtDevice	9
Option	RearCam-Power	Auto	
Image	RearCam-Det	GEAR	
Screen	AV Mode	Off	
Parking	FrontCam-Type	ExtDevice	9

Mode State





Config

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

First Menu	Second Menu	Third Menu	Description
Config	NAVI-RGB	DIGTAL-INAVI :	Setting the Connected NAVI Model
	RearCam	AVM :	Setting the Connected REAR Model
	Reset	Execute	Reset to default value of Config menu



Option

MENU RearCam-Type NAVI

Config	RearCam-Type	OEM	
Option	RearCam-Power	Auto	
Image	RearCam-Det	GEAR	
Screen	AV Mode	Off	
Parking	FrontCam-Type	ExtDevice	

First Menu	Second Menu	Third Menu	Description
	RearCam-Type	OEM	Original Camera
		ExtDevice	Equipped with external camera
		ON	+ 12V continuous supply
	RearCam-Power	AUTO	+ 12V supply only in Rear camera mode
		OFF	+ 12V off
		PDC	Detected by P >> button (CAN)
	RearCam-Det	GEAR	Detected by GEAR (CAN)
Option		WIRE	Detected by Rear-Det Wire
		ON	Video(REAR) Input (If RearCam-Type is OEM)
	AV Mode	OFF	Disable feature
		OEM	Original Camera
	FrontCam-Type	ExtDevice	Equipped with external camera
	FrontCam-Det	CAN	Detected by CAN
		WIRE	Detected by Front-Det Wire



Option

MENUFrontCam-PowerNAVIConfigFrontCam-PowerAutoOptionFrontCam-DetExtWireImageFrontCam-RcvOptScreenScreenSteeringWheelBtnLeftParkingUI DVB-T(DMB)On

First Menu	Second Menu	Third Menu	Description
	FrontCam- RcvOpt	ON	After RearCam shows FrontCam and returns to previous state
		OFF	Disable feature
		MODE	Select to use the "MODE" button.
Option	SteeringWheel Btn	NAV	Select to use the "NAV" button.
		OFF	Disable feature
	NAVI COM	HMS FINE :	Select Device Manufacturer for UART Touch
		OFF	Disable feature
	Reset	Execute	Option Menu all Reset



MENU	Option / Rea	rCam-Det REAR
Config	RearCam-Type	ExtDevice
Option	RearCam-Power	Auto
Image	RearCam-Det	PDC GEAR ExtWire
Screen	FrontCam-Type	ExtDevice
Parking	FrontCam-Power	Auto



Car Audio Box Button

MENU	Option / RearCam-Det REAR		
Config	RearCam-Type	ExtDevice	
Option	RearCam-Power	Auto	
Image	RearCam-Det	PDC GEAR ExtWire	
Screen	FrontCam-Type	ExtDevice	
Parking	FrontCam-Power	Auto	





**Option** FrontCam-RcvOpt

#### Front Camera Auto Mode



0 second FrontCam-RcvOpt Menu OFF

MENU	FrontCam- <u>RevOpt NAVI</u>		
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



Image

#### NAVI – RGB Menu

First Menu	Second Menu	Third Menu	Description
	Brightness		Adjust the value of brightness
	Contrast		Adjust the value of contrast
lmana	Color-RED		Adjust the value of RED
image	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
	Brightness		Adjust the value of brightness
	Contrast		Adjust the value of contrast
lucese	Saturation		Adjust the value of Saturation
Image	Hue		Adjust the value of Hue
	Sharpness		Adjust the value of Sharpness
	Reset	Execute	Option Menu all Reset





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
	Scale X Up		Doduce (increase output coreen width
Screen	Screen Scale X Down		Output screen vertical movement Reduce / increase output screen width Reduce / Increase Output Screen Height
	Scale Y Up	Up	
Scale Y Down		Reduce / Increase Output screen neight	
	Reset		Screen menu all reset





Parking

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OPS Display MENU REAF OPS Display Line Display Warnings Lang Config Off Off Option English Image Horizontal Screen (MARKER AND) 50 Parking Vertical 60 

First Menu	Second Menu	Third Menu	Description
	Line Display	ON	Display the parking line.
	Line Display	OFF	The parking line is not displayed.
		ON	Displays the PDC
	PDC Display	OFF	The PDC is not displayed.
Parking	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



## Parking – PDC Display / Guide Line ON/OFF

#### PDC ON Screen

MENU	PDC Display		REAR
Config	Line Display	Off	
Option	PDC Display	On	Off
Image	Warnings Lang	English	
Screen	Horizontal		50
Parking	Vertical		56



PDC OFF Screen			
MENU	PDC Displa	ay	REAR
Config	Line Display	Off	
Option	PDC Display	On	Off
Image	Warnings Lang	English	
Screen	Horizontal		50
Parking	Vertical		56



#### Parking Line ON Screen

MENU	Line Display		REAR
Config	Line Display	On	Off
Option	PDC Display	On	
Image	Warnings Lang	English	
Screen	Horizontal		50
Parking	Vertical		56



#### Parking Line OFF Screen

MENU	Line Display		REAR
Config	Line Display	On	Off
Option	PDC Display	On	
Image	Warnings Lang	English	
Screen	Horizontal		50
Parking	Vertical		56





Parking – Change warning message language

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







Parking – Adjust position of parking guide line

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



- Pressing this Horizontal / Vertical menu, The OSD screen automatically disappears.
- Possible to adjust the position of parking guide line by Keypad in Horizontal / Vertical menu
- Please adjust from the parking line Screen.





AUDI 4G+ PAS

OS	D

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

First Menu	Second Menu	Third Menu	Description
	Horizontal	value	Move OSD Menu horizontally
	Vertical	value	Move OSD Menu vertically
	Display Time	value	OSD Menu Display Time (in seconds)
OSD	Transparency	value	OSD menu transparency
	Language		OSD menu display language
	Reset	Execute	Initialize OSD settings



Utility

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

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





1. Installation Diagram





2. Installation External Reverse(Rear) Camera Connection

#### **OSD Screen selection CAN**





3. Installation LVDS connection



HeadUnit (Commander)



4. 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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