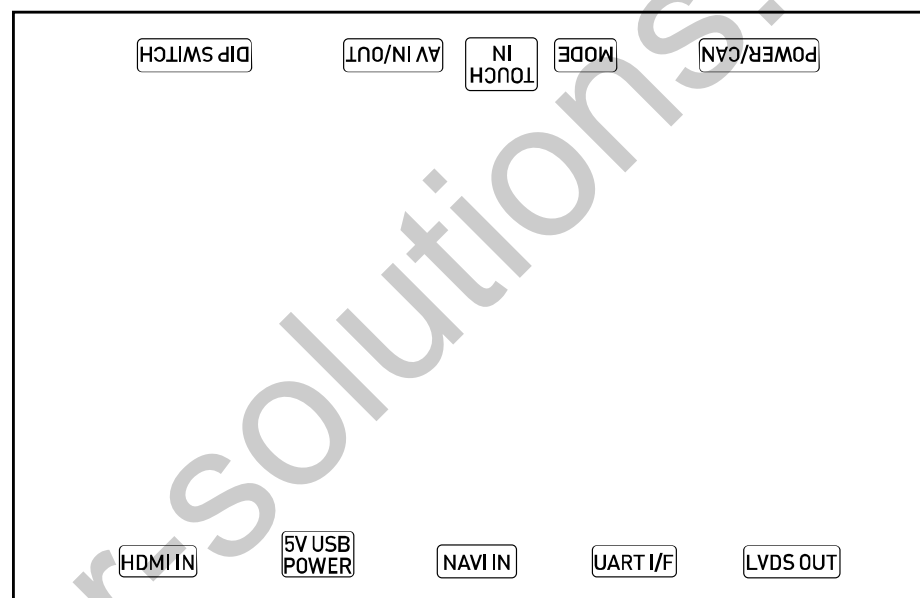


# Instruction Manual

## High-Definition Link for 2015 Audi A6 FACELIFT



Latest Firmware Date	2016 - 07 - 26
Manual Version	Rev. 1.4
Language	English

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## Cautions

### ▪ Device related

- You should check the names and colors of each wires exactly, before you connect the wires.  
ex) CAN HIGH: White wires / CAN LOW: Blue wires
- The 'POWER / CAN Cable' should always be connected last and be disconnected first.
- The 'Mode Switch' is an optional part to change modes forcibly without CAN-BUS. Generally, the CAN-BUS wires are connected for changing modes by original buttons.
- When the reverse gear is not detected by CAN-BUS, the 'REVERSE 12V IN wire' should be spliced with 12V power of reverse light.

### ▪ HDMI device\_related

- HDMI mode accepts general-screen resolution of HDMI devices(1080P / 1920\*1080).  
If screen size of HDMI does not fit on the monitor, should adjust screen size & position in 'settings mode'.
- Generally, '5V 1A Power output(5V USB POWER)' is a standard voltage for charging smartphone.  
If you need higher voltage than 5V, you should add a separate power supply.

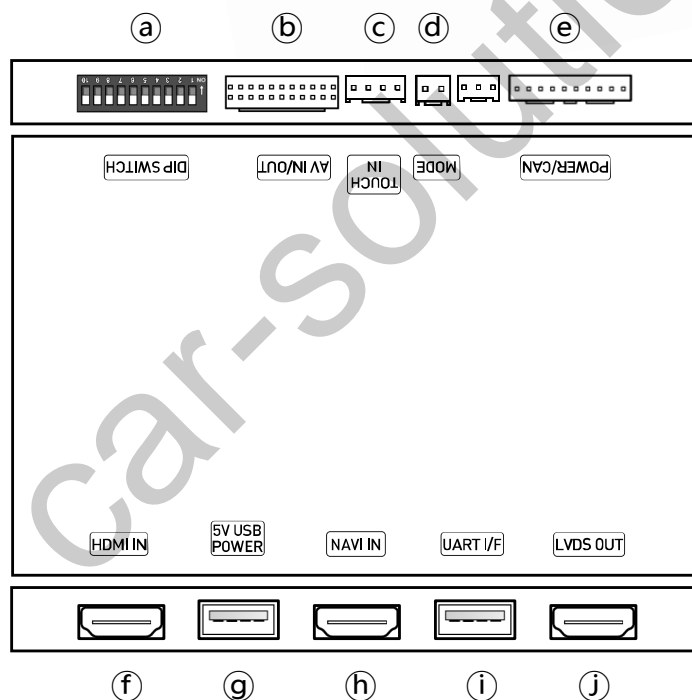
### ▪ Navigation(GPS) box\_related

- When you connect the power wires(B+, ACC) to the navigation(GPS) box, the 'NAVI 12V OUT' wire supported by the device should be spliced with an ACC wire of navigation box.
- After installation is done, select an applicable navigation(GPS) box model in the 'Navigation model selection menu' of setting mode.
- The navigation box should be powered off before unplugging the HDMI cable.

## Dimension



## Exterior



- a) DIP SWITCH
- b) AV IN / OUT
- c) TOUCH IN (Not Used)
- d) MODE
- e) POWER / CAN
- f) HDMI IN
- g) 5V USB POWER
- h) NAVI IN
- i) UART I/F
- j) LVDS OUT

## Package Content



Power / CAN Cable



LVDS Cable



LVDS PCB



HDMI Cable



AV IN / OUT Cable



5-pin Micro USB Cable

## Optional Parts (sold separately)



HDMI Cable  
(Male to Male)



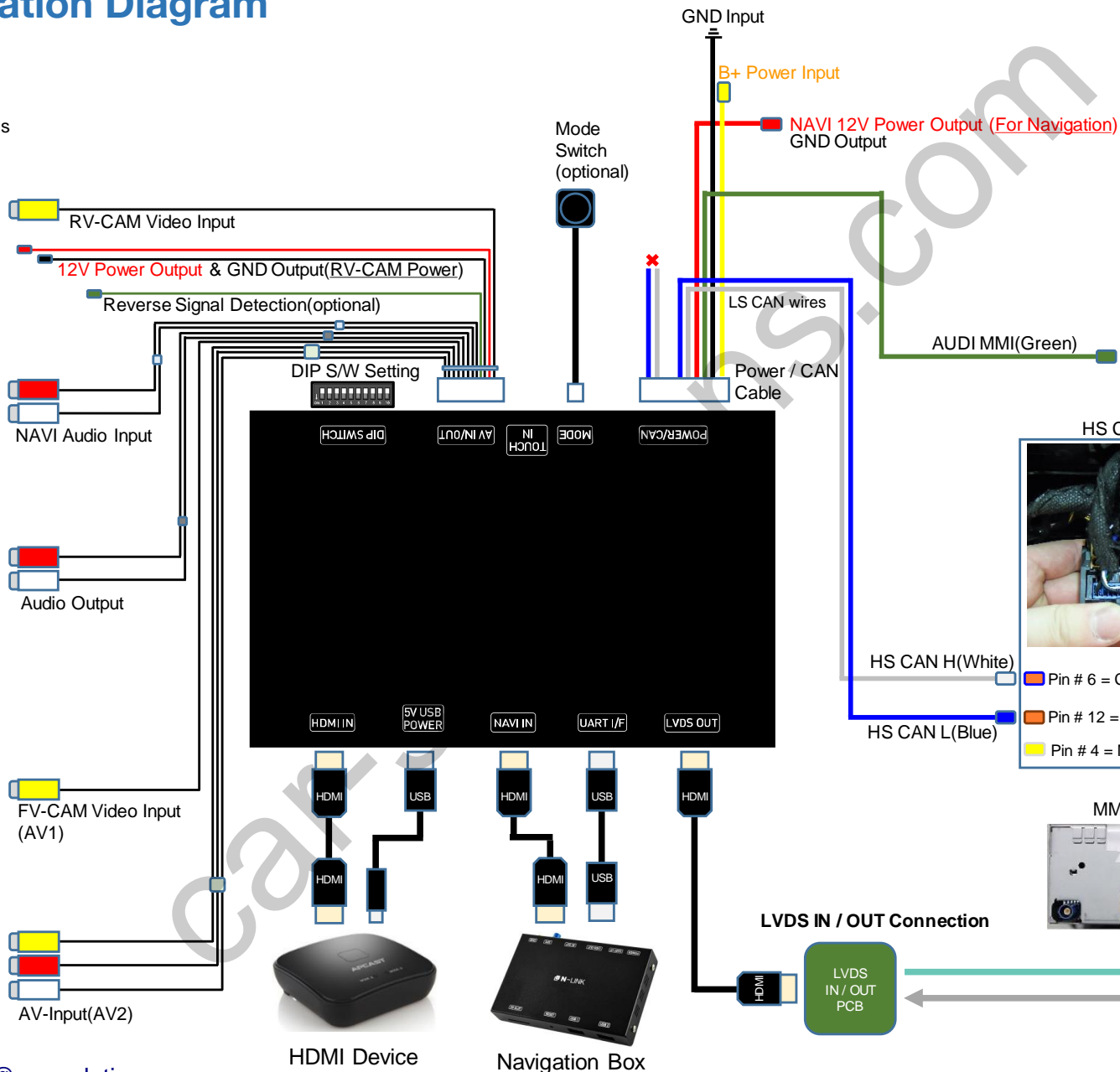
HDMI Extender  
(For stick type HDMI device)



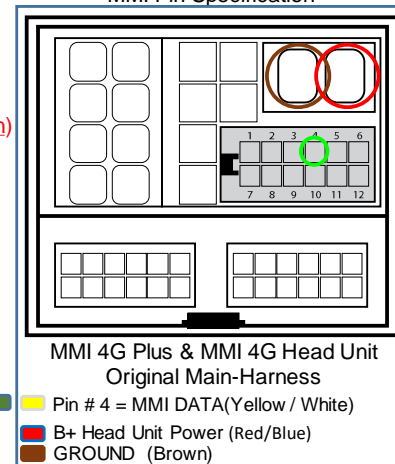
Mode Switch

# Full Installation Diagram

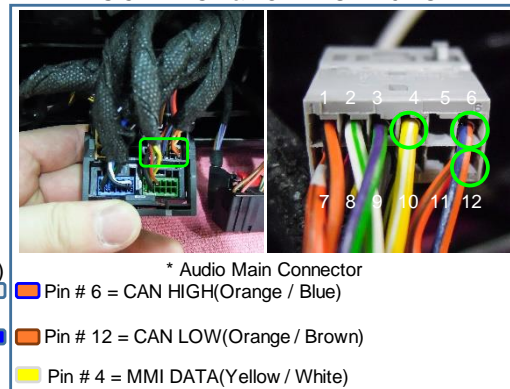
※ Optional External Devices



MMI Pin Specification



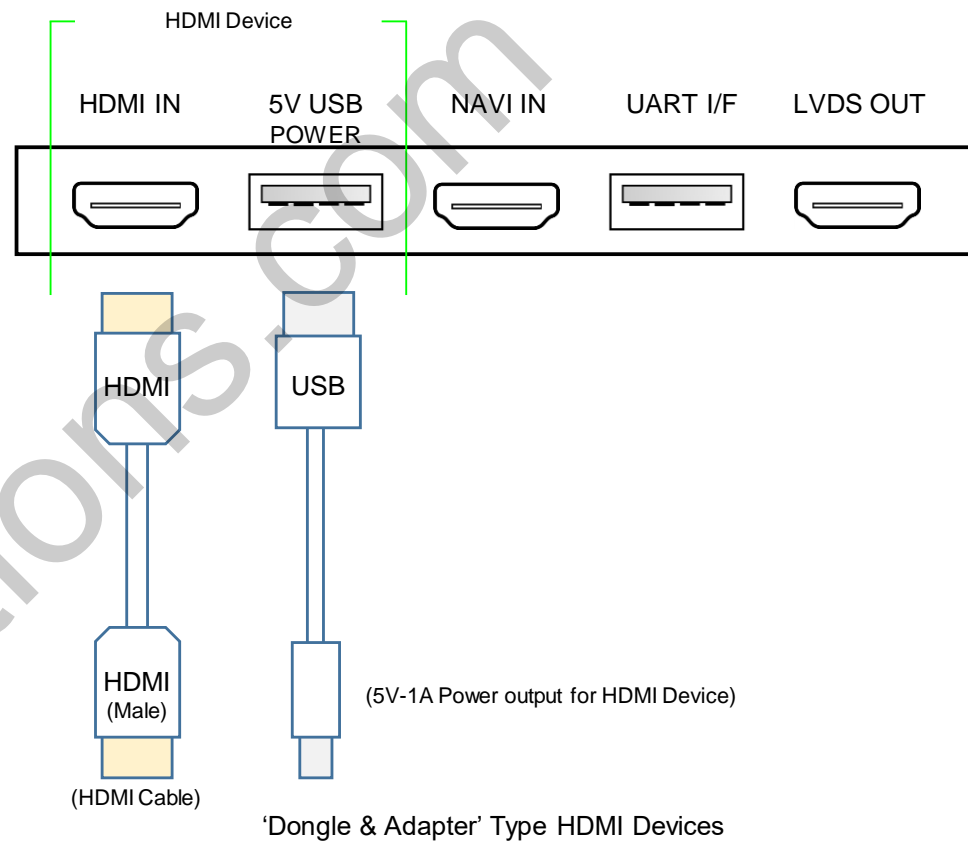
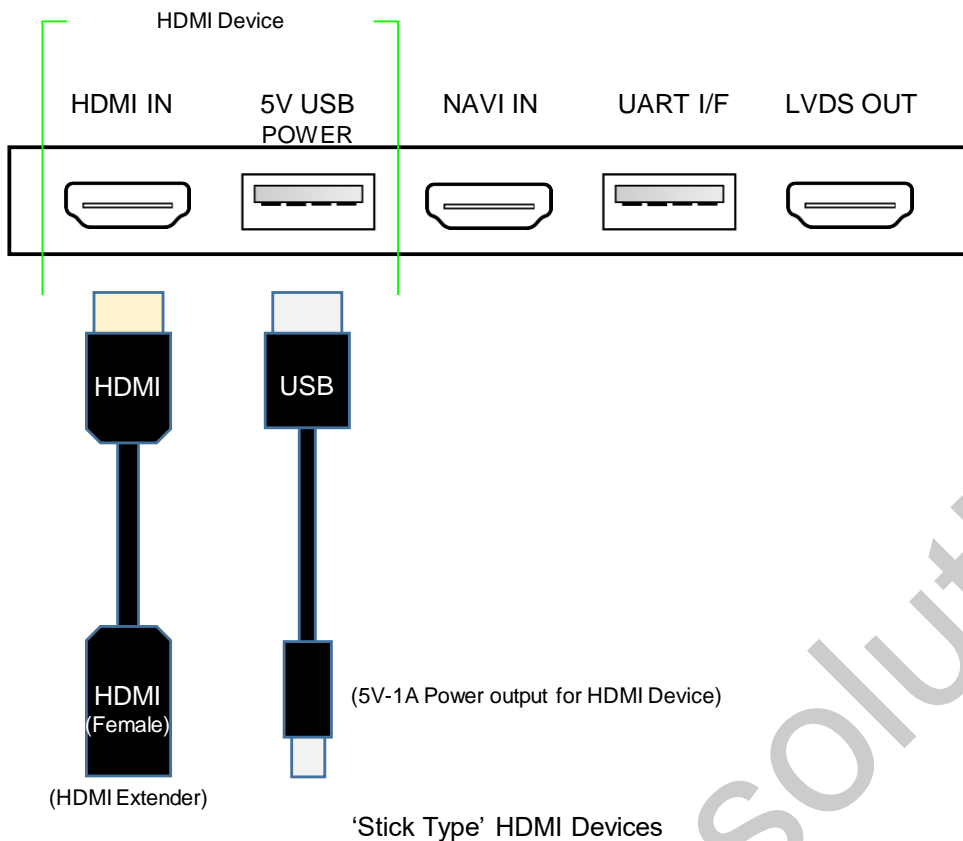
HS CAN HIGH & LOW <AUDI A6-4G>



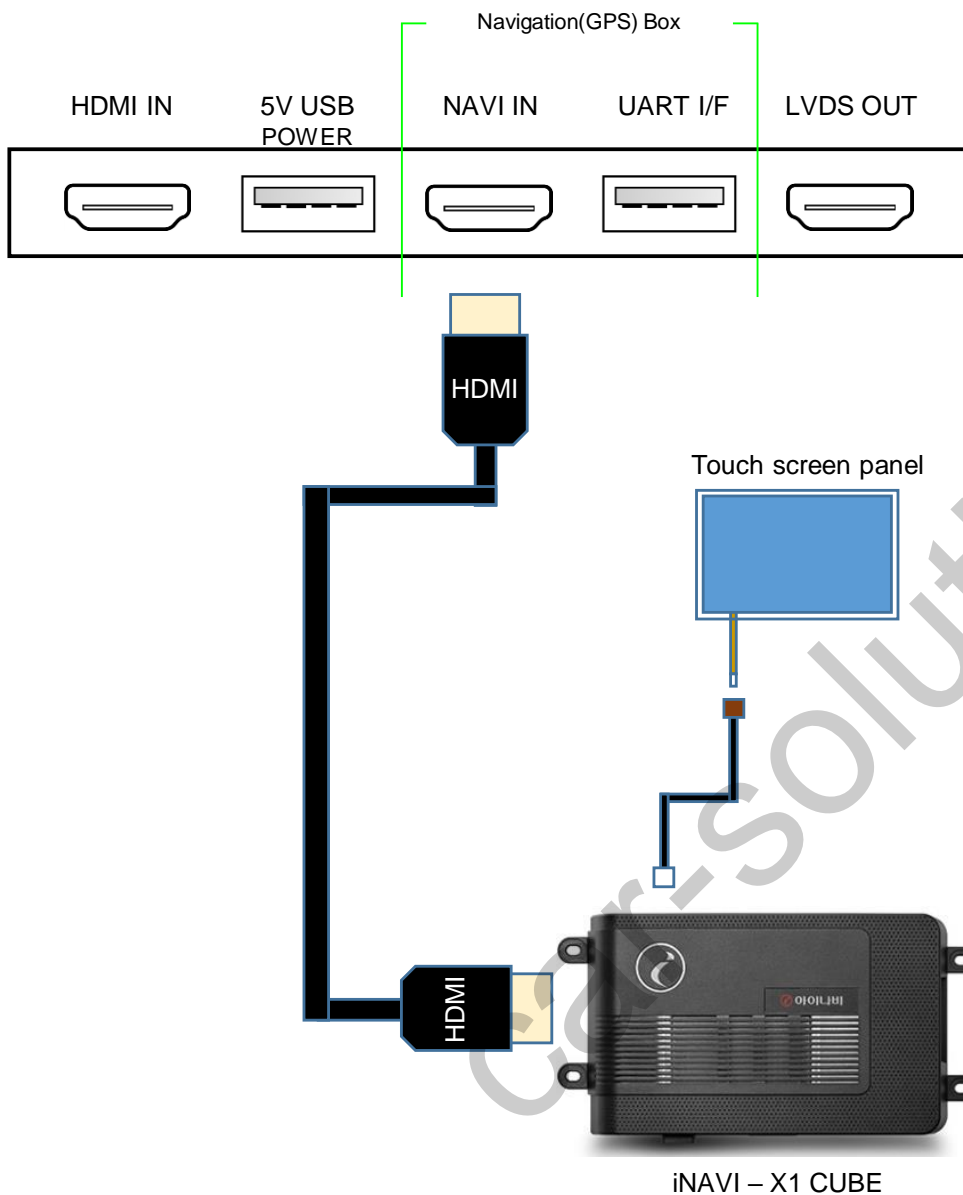
MMI 4G & 4G+ Head Unit (OEM)



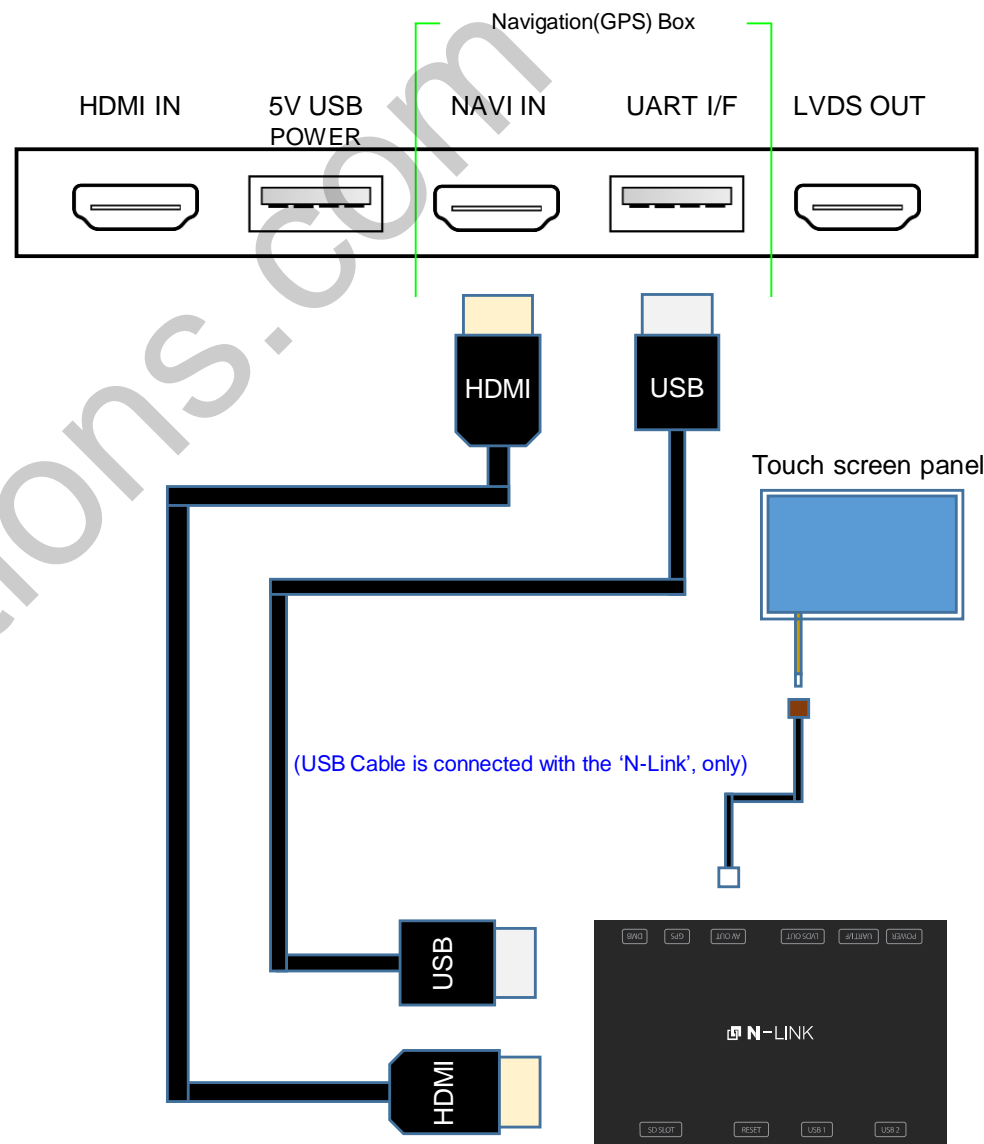
# HDMI Connection Diagram



## Navigation Connection Diagram (X1 CUBE)

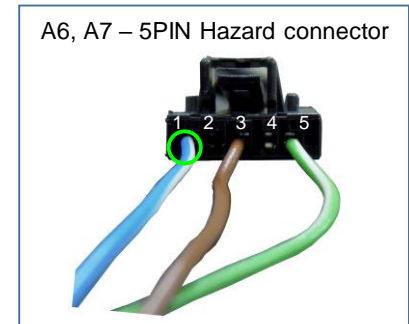
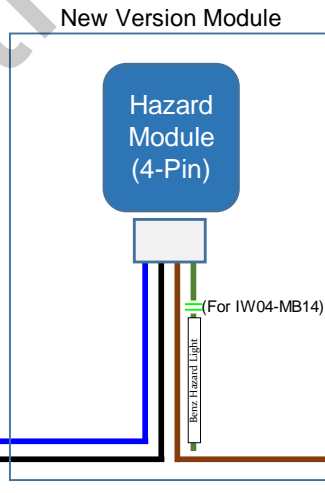
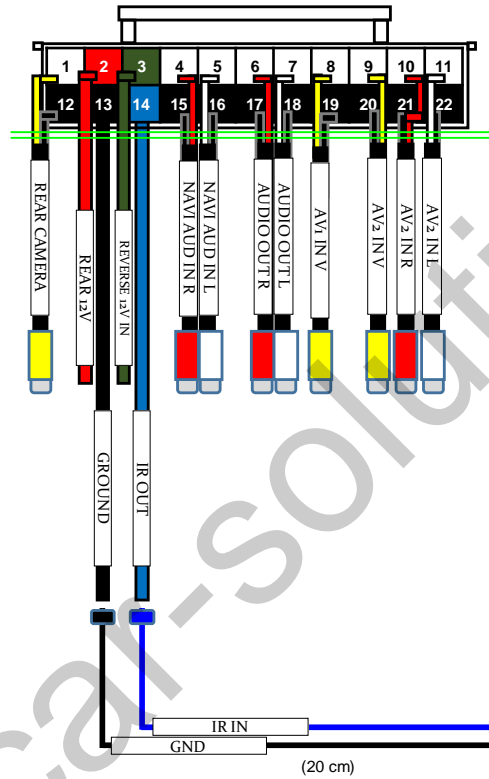
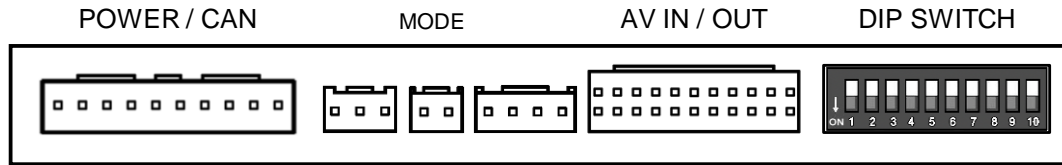


## Navigation Connection Diagram (N-LINK)





# Hazard Module Connection



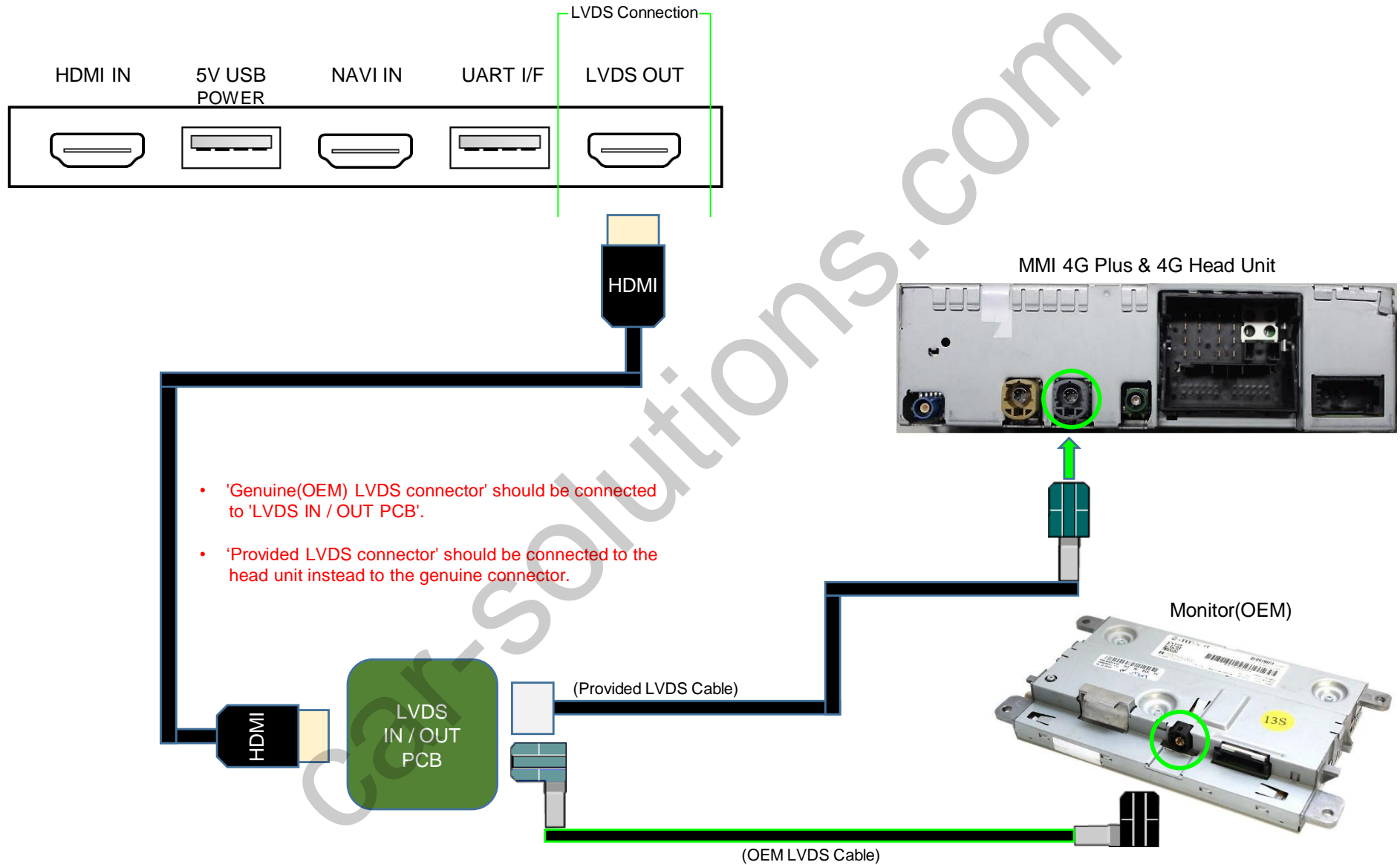
PIN #1 = Hazard(-) (Blue/White)

**\*Hazard Module is only available with 'Smart Drive function of N -Link' navigation in South Korea.**

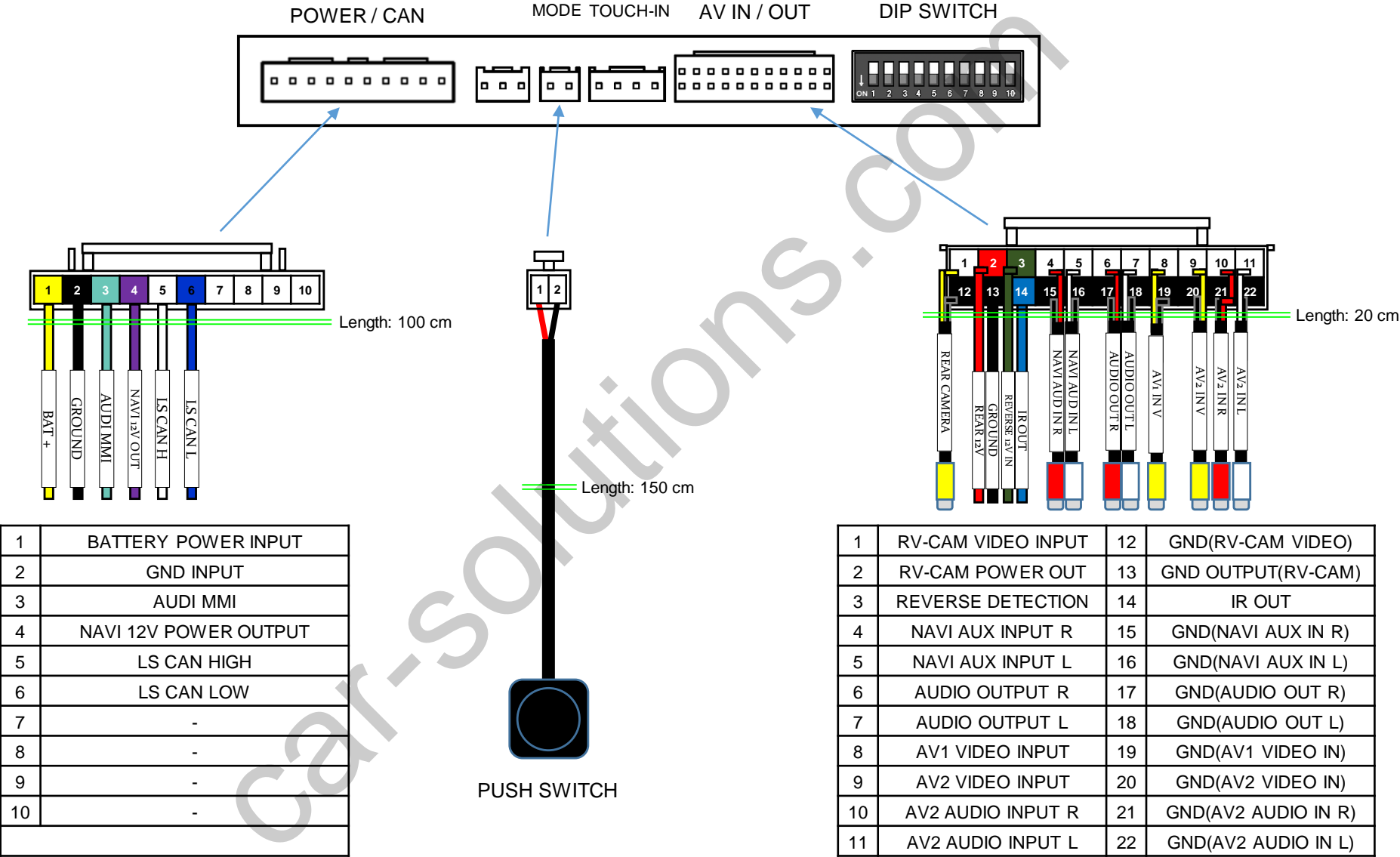
support@car-solutions.com

www.car-solutions.com

# LVDS Connection Diagram



# Body Connector specifications



• [support@car-solutions.com](mailto:support@car-solutions.com)  
The colors of each wires can be changed under manufacturer's circumstance.

# Car Compatibility Chart

[illegible]

The device is used in combination with Audi MMI(Multi Media Interface) system.

- MMI navigation (4G)



The device supports the Audi Original screen equipped with '4 pin LVDS round connector' only.

Please check the specification of original LVDS connector on the sidelines of a production year.

# Activation by original buttons of Audi

## MMI 4G



MMI 4G Controller



Steering Wheel buttons

[support@car-solutions.com](mailto:support@car-solutions.com)

Button	Function	Operation	Remarks
1 NAV	Changing Modes	Press the button 2 seconds.	Order: HDMI → NAVI → AV1 → AV2 → OEM
1 NAV	Shortcut to each modes	Press the button 2 times consecutively.	< OEM → NAVI >
		Press the button 3 times consecutively.	< OEM → AV1 > <i>*It could also use 'iNAV(New) or MODE(Old) button' on the steering wheel.</i>
		Press the button 4 times consecutively.	< OEM → AV2 >
1 NAV	System Locking / Unlocking	Press the button 10 seconds long.	If you visit car service center, you can lock the all functions of this device. It is only possible to use the OEM functions under it is locked.
Other Buttons	Back to OEM	Press the button short.	Return to the OEM mode in any modes.
2 BACK (RETURN)	Reset to factory default setting and power.	Press the button 10 seconds long.	You can use this function when you get in trouble to see the screen while setting the screen.
3 MENU (SETUP)	Enter into the setting menu	Press the button 5 seconds long.	Adjust settings of all functions like adjustment screen size, brightness, and etc.

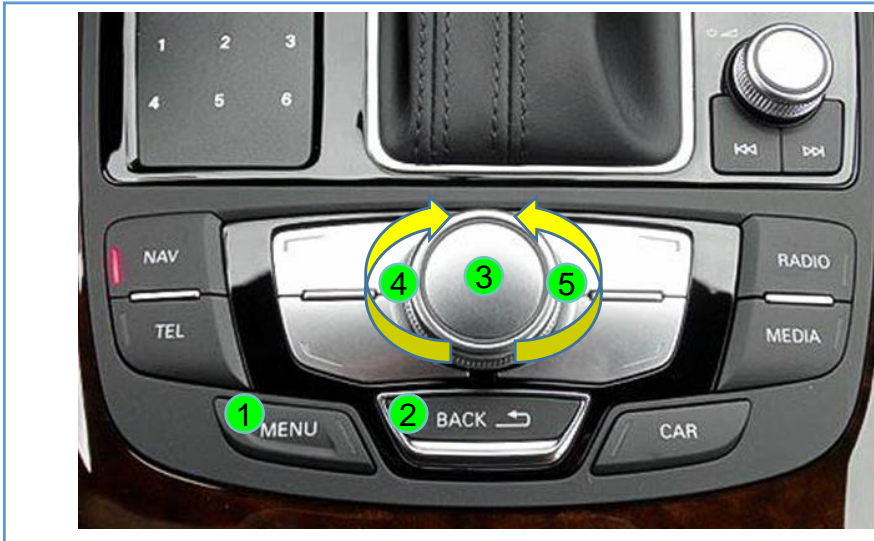
Button	Function	Operation
1 iNAV	Press the 'iNAV' button 2 seconds.	Press the button 2 seconds.

## DIP Switch Settings

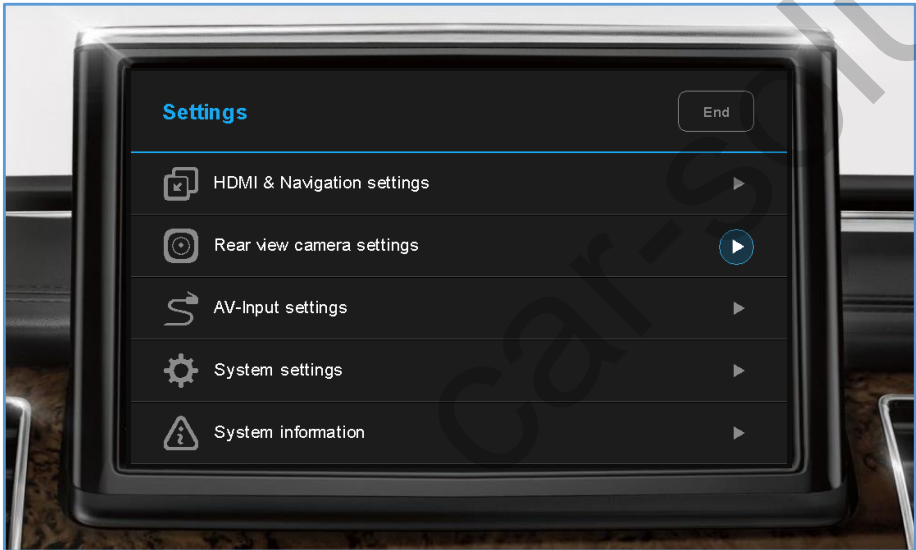
[illegible]

# Activation by original buttons of Audi

## MMI 4G



Button		Function	Operation
1	MENU(SETUP)	Enter into the setting menu	Press the button 5 seconds long.
2	BACK(RETURN)	Back to previous menu	Press the button short.
3	Selection	Select the menu and setting values.	Press the button short.
4	Turn the dial clockwise	Move the menu-pointer and adjust the setting values.	Move the pointer and setting values to up(↑) and right(→).
5	Turn the dial counterclockwise	Move the menu-pointer and adjust the setting values.	Move the pointer and setting values to down(↓) and left(←).



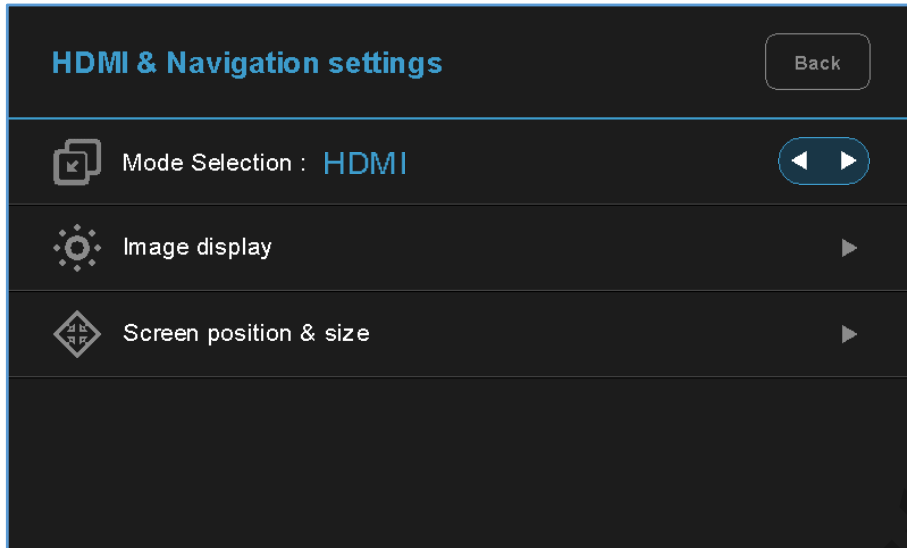
### 1. Enter into the setting menu.

<Press the 'MENU(SETUP)' button 5 seconds long.>

- HDMI & Navigation settings
- Rear view camera settings
- AV-input settings
- System settings
- System information

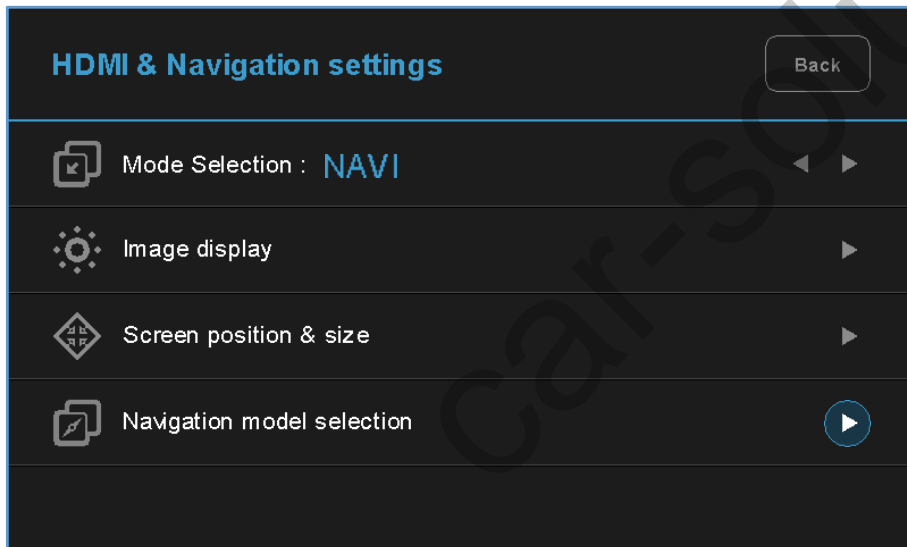


# Settings



## 2. HDMI mode settings

- Mode selection: HDMI ↔ NAVI
- Image display  
= Adjust the values of brightness and contrast  
Red-Green-Blue colors of HDMI display.
- Screen position & size  
= Adjust position and size of HDMI display.

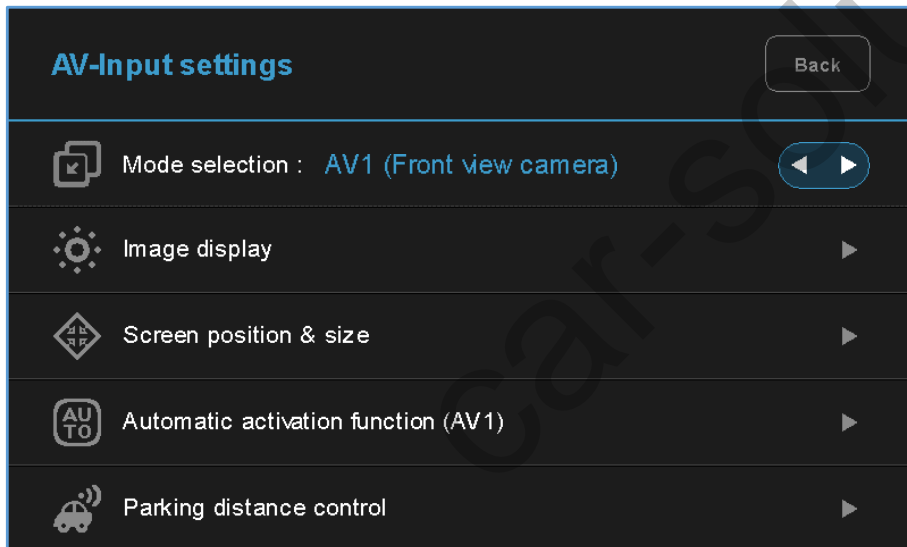
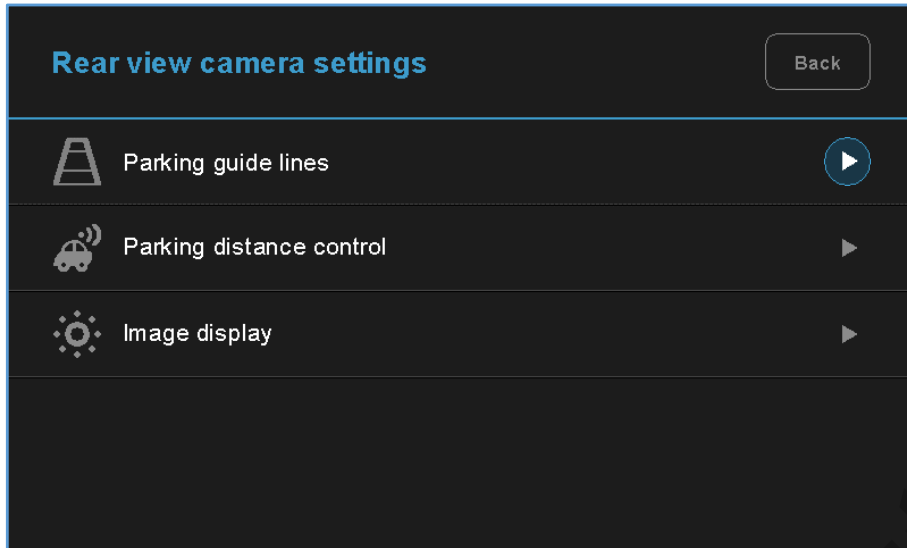


## 3. NAVI mode settings

- Mode selection: NAVI ↔ HDMI
- Image display  
= Adjust the values of brightness and contrast  
Red-Green-Blue colors of NAVI display.
- Screen position & size  
= Adjust position and size of NAVI display.
- Navigation model selection
  - ① N-Link      ② iNAVI – CUBE      ③ imercury – Class settop



# Settings



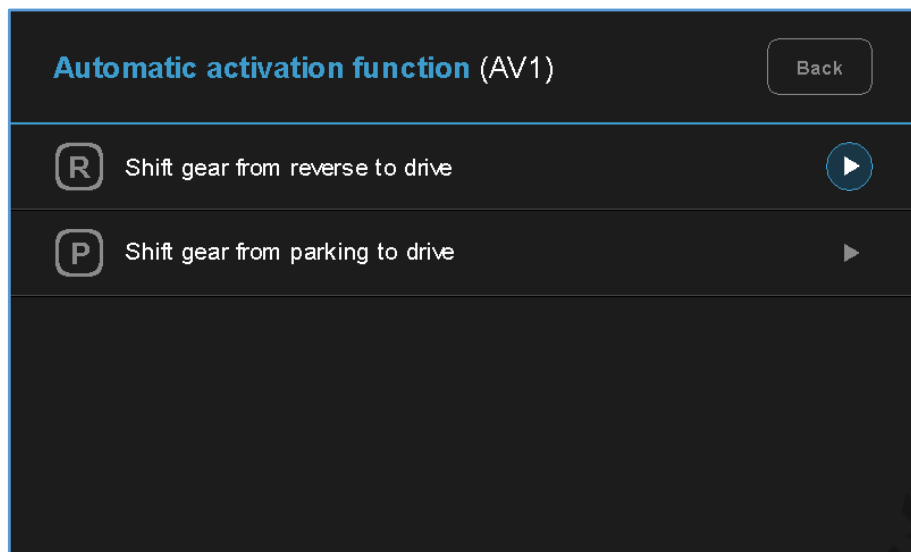
## 4. Rear view camera settings

- **Parking guide lines**  
= Adjust position of parking guide lines and select the lines 'ON or OFF'.
- **Parking distance control**  
= Adjust position of parking distance control sensors to 'LEFT' or 'RIGHT' and select the PDC 'ON or OFF'.
- **Image display**  
= Adjust the values of brightness and contrast  
Red-Green-Blue colors of Rear view camera display.

## 5. AV1(Front view camera) settings

- **Mode selection: AV1(Front view camera) ↔ AV2**
- **Image display**  
= Adjust the values of brightness and contrast  
Red-Green-Blue colors of AV1(Front view camera) display.
- **Screen position & size**  
= Adjust the position and size of AV1 display.
- **Automatic activation function(AV1)**  
= \* Please refer to next page.
- **Parking distance control**  
= Adjust the position of parking distance control sensors to 'LEFT or RIGHT' and select the PDC 'ON or OFF'.

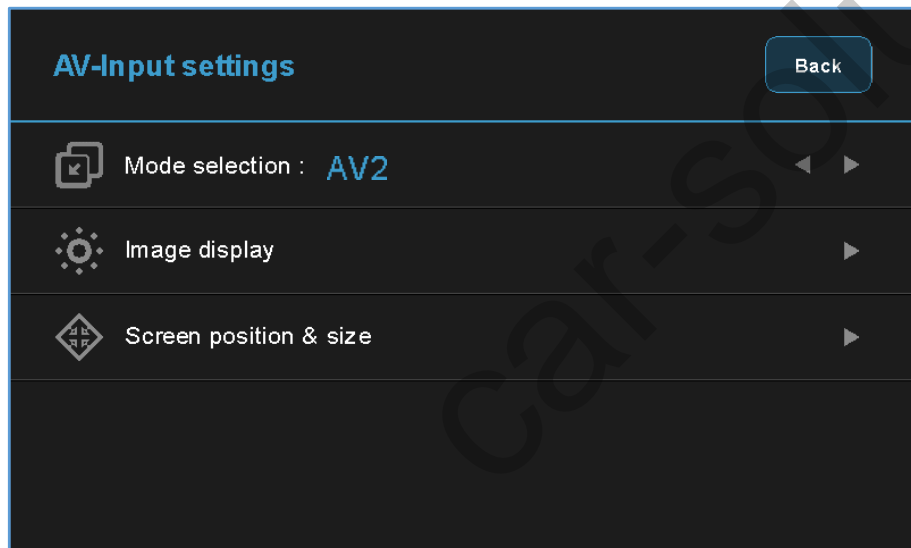
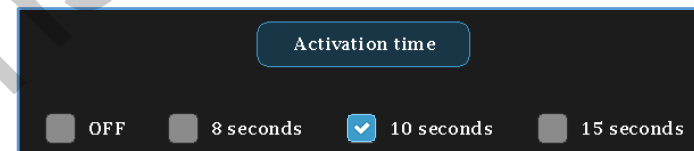
# Settings



## 6. Automatic activation function(AV1)

- Shift gear from reverse to drive
- Shift gear from parking to drive

\* When you shift gear 'from reverse to drive' or 'from parking to drive', it just works automatically during the activation time you selected.



## 7. AV2 settings

- Mode selection: AV2 ↔ AV1(Front view camera)
- Image display  
= Adjust the values of brightness and contrast  
Red-Green-Blue colors of AV2 display.
- Screen position & size  
= Adjust the position and size of AV2 display.

## Settings

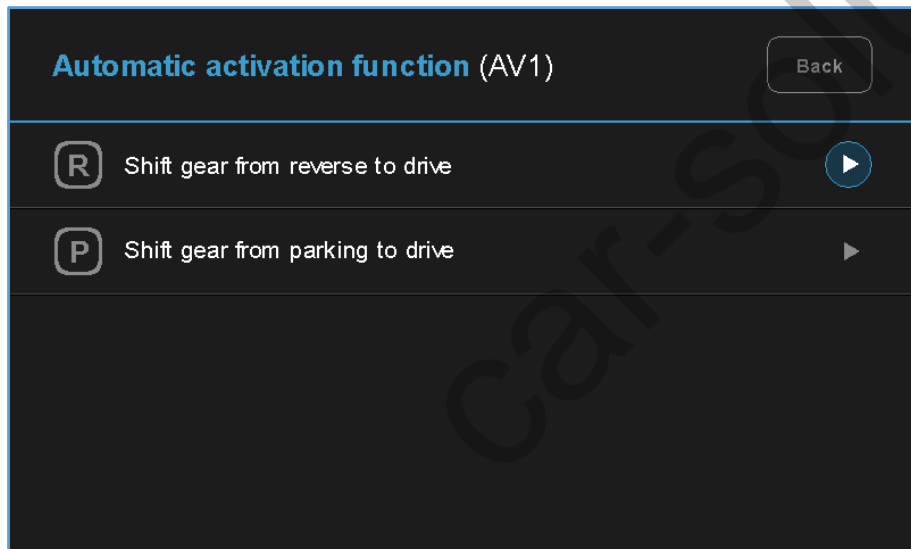
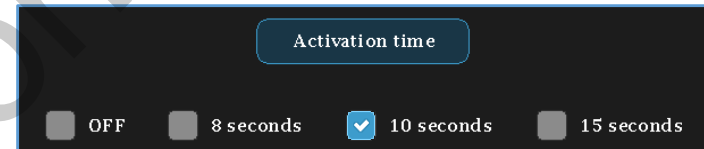
### (SURROUND VIEW OPTION)



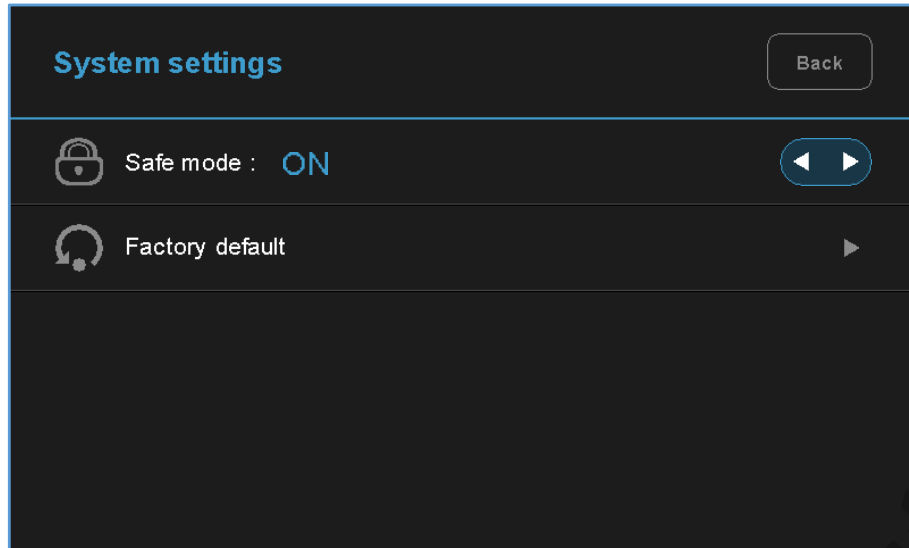
## Keep the rear camera view

- Shift gear from reverse to drive
- Shift gear from parking to drive

\* When you shift gear 'from reverse to drive' or 'from parking to drive', it just works during the activation time you selected.



# Settings

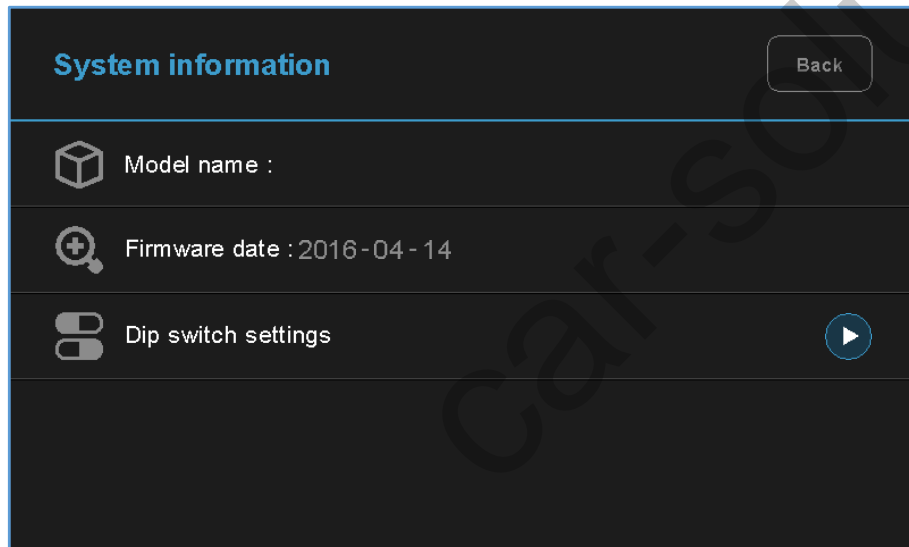


## 8. System settings

- Safe mode  
= Select the one of two between 'ON and OFF'.

\* If you select 'ON', 3 modes(HDMI, NAVI and AV2) will be faded out when the car is driven.

- Factory default  
= Reset all setting values to factory default setting.



## 9. System information

- Mode name:
- Firmware date: 2016 - 04 - 14(Latest firmware date)
  - = You can check the current firmware version date.
- Dip switch settings
  - = You can check the current positions of dip switch settings.

# Settings

System information - Dip switch settings

Back

ON

OFF

1

2

3

4

5

6

7

8

8

9

10

No. 1

HDMI

ON

No. 2

Navigation

ON

No. 3

External rear view camera

ON

No. 4

AV1

ON

No. 5

AV2

OFF

No. 6

Selection of car model

ON

No. 7

OFF

No. 8

OFF

No. 9

OFF


No. 10

ON

ex 1)

Actual DIP switch values. (→)

Appears on the setting menu. (↓)



No. 1	HDMI	ON
No. 2	Navigation	OFF
No. 3	External rear view camera	ON
No. 4	AV1	ON
No. 5	AV2	OFF
No. 6	Selection of car model	OFF
No. 7		ON
No. 8		OFF
No. 9		ON
No. 10		OFF


## 10. Information of Dip switch settings

\* You can check the current positions of dip switch settings.

ex 2)

Actual DIP switch values. (→)

Appears on the setting menu. (↓)



No. 1	HDMI	ON
No. 2	Navigation	ON
No. 3	External rear view camera	OFF
No. 4	AV1	ON
No. 5	AV2	OFF
No. 6	Selection of car model	ON
No. 7		OFF
No. 8		OFF
No. 9		OFF
No. 10		OFF