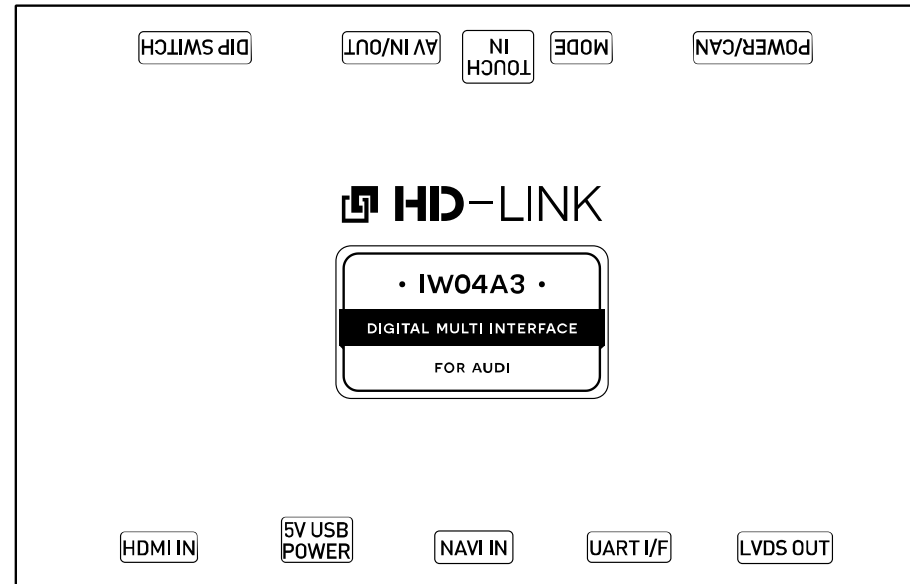


Instruction Manual

High-Definition Link for Audi A3(8V) IW04A3-N



Model Name	IW04A3-N
Latest Firmware Date	2015 - 05 - 12
Manual Version	Rev. 2.5
Language	English

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Cautions

▪ IW04A3-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.

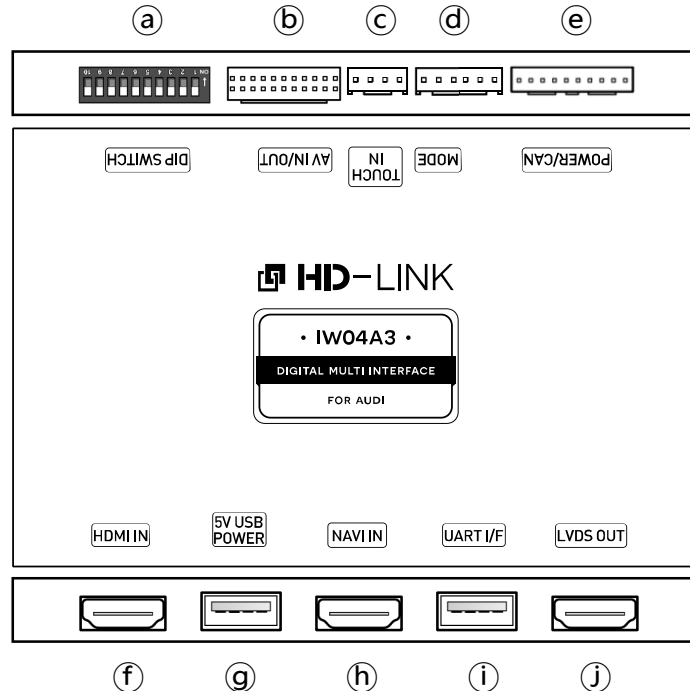
▪ Navigation(GPS) box-related

- When you connect the power wires(B+, ACC) to the navigation(GPS) box,
the 'NAVI 12V OUT' wire supported by IW04A3 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

Components



Power / CAN Cable



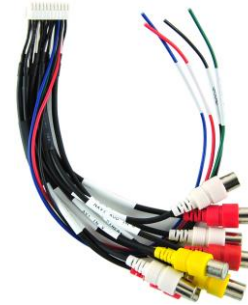
LVDS Cable



LVDS PCB



HDMI Cable
(For LVDS)



AV IN / OUT Cable



5-pin Micro USB Cable

Optional Parts (sold separately at the indiwork)



HDMI Cable
(Male to Male)



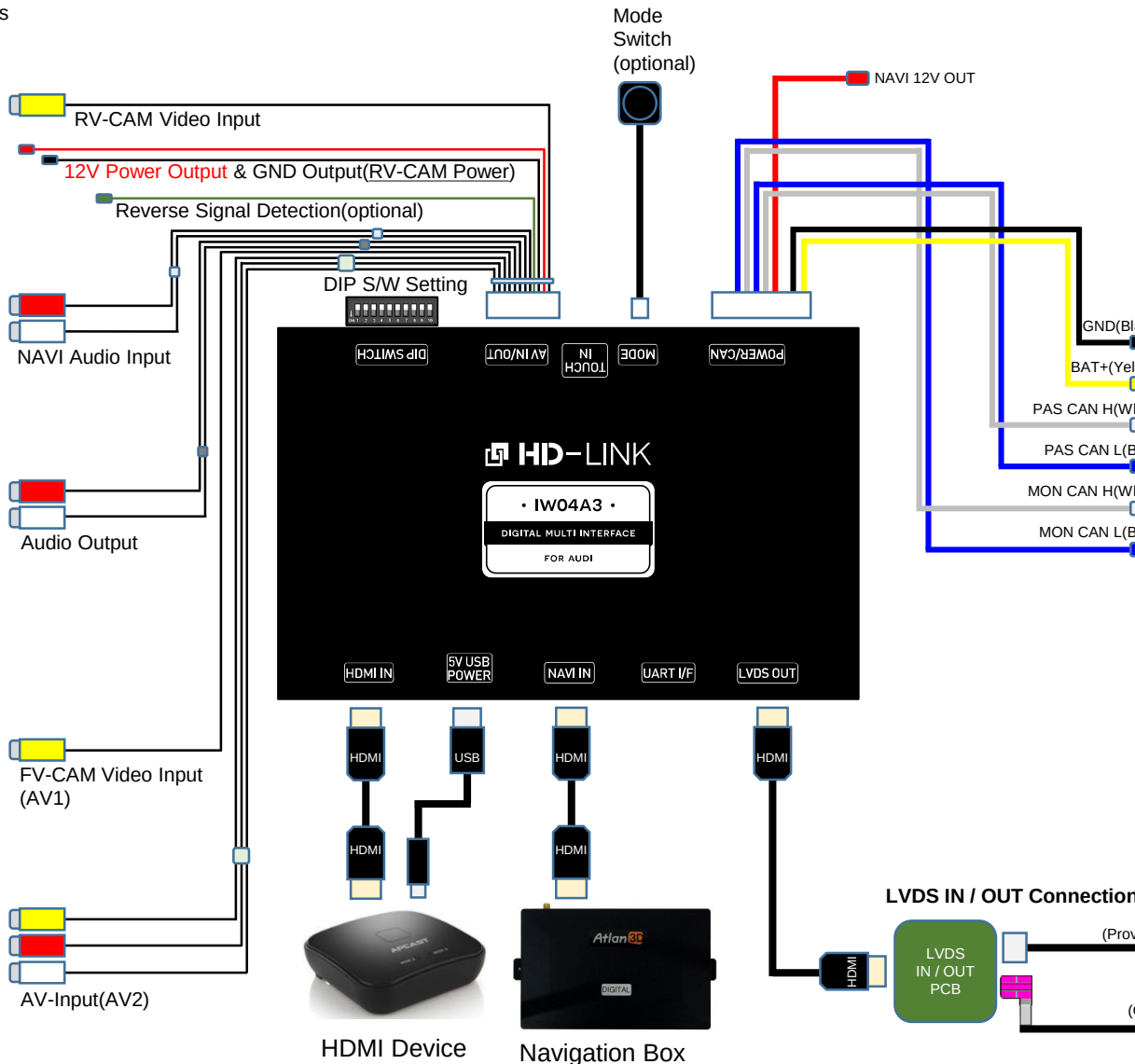
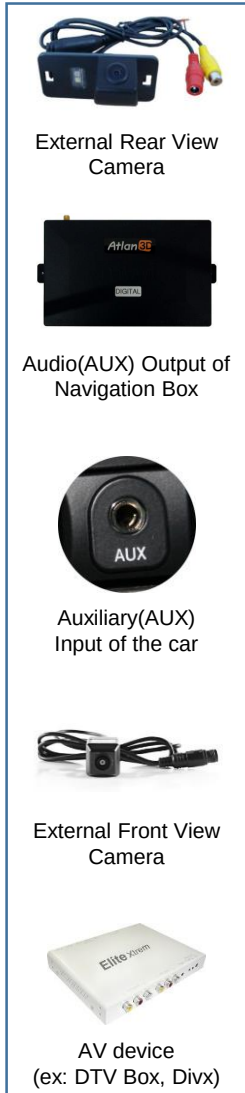
HDMI Extender
(For stick type HDMI device)



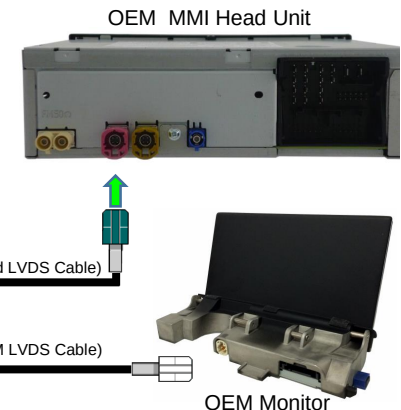
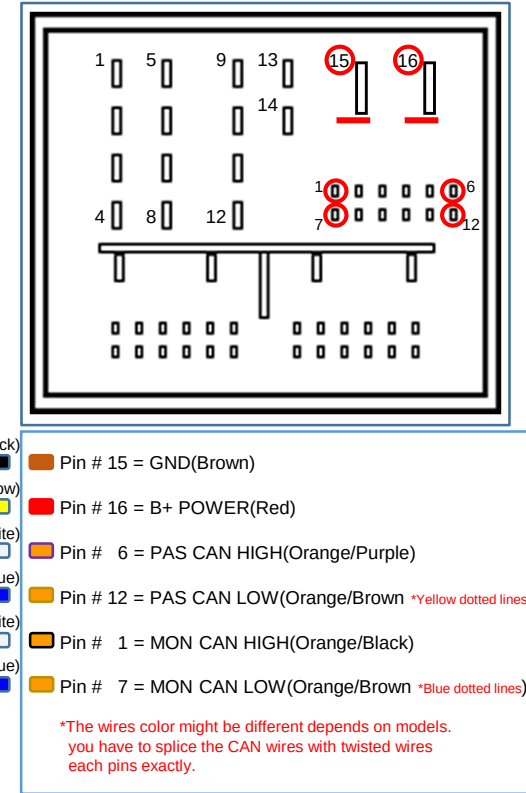
Mode Switch

Full Installation Diagram

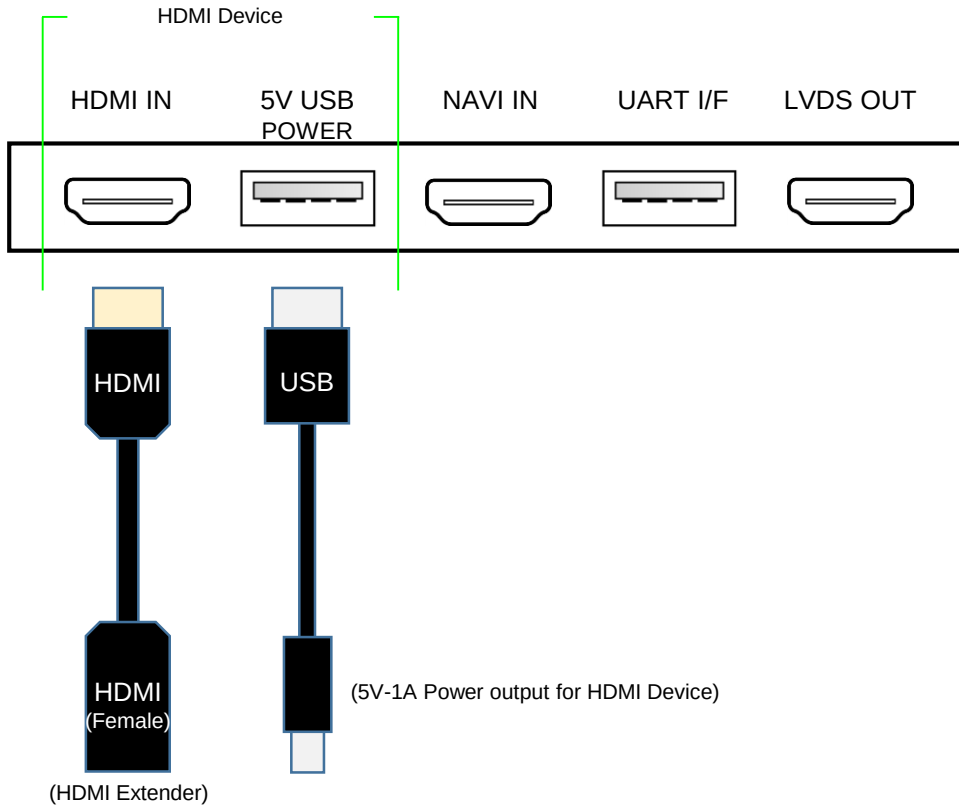
※ Optional External Devices



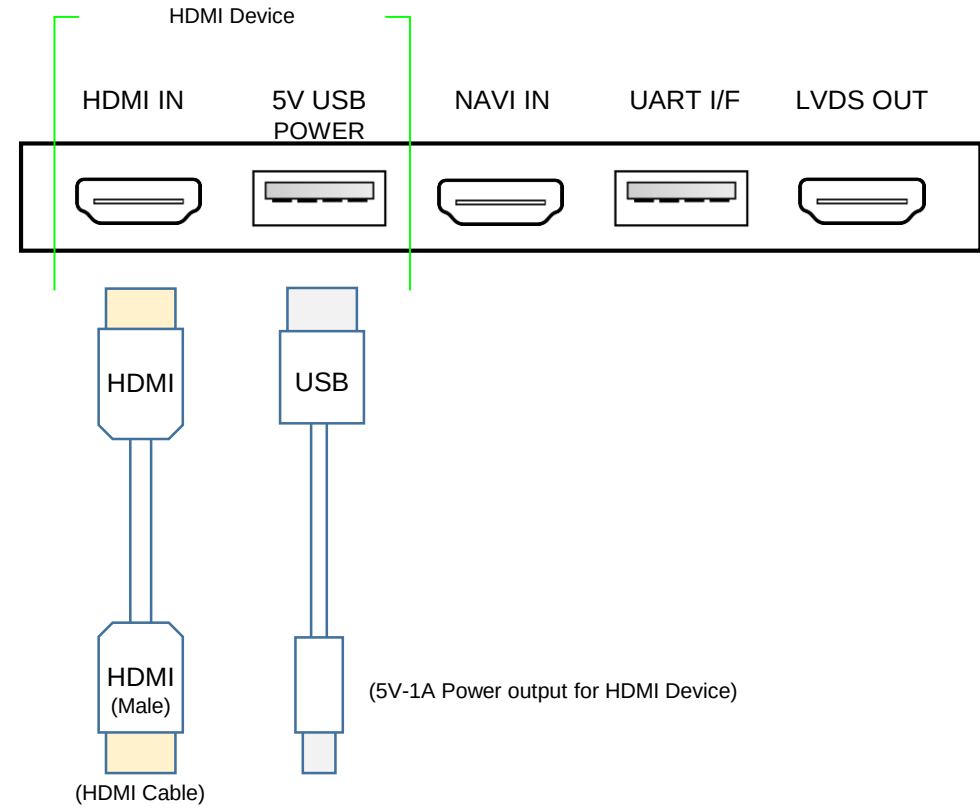
Main Connector of Head Unit(In the Glovebox)



HDMI Connection Diagram



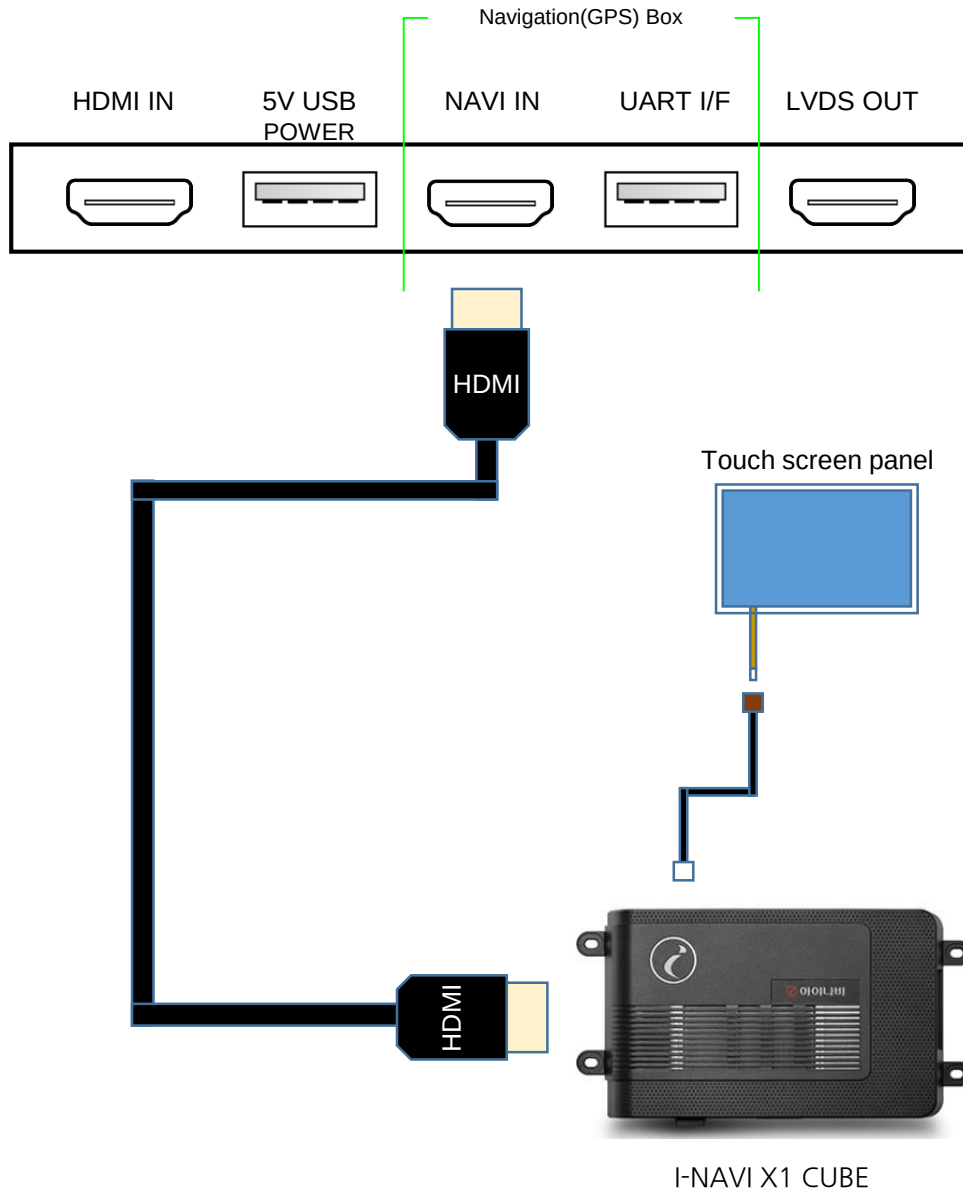
'Stick Type' HDMI Devices



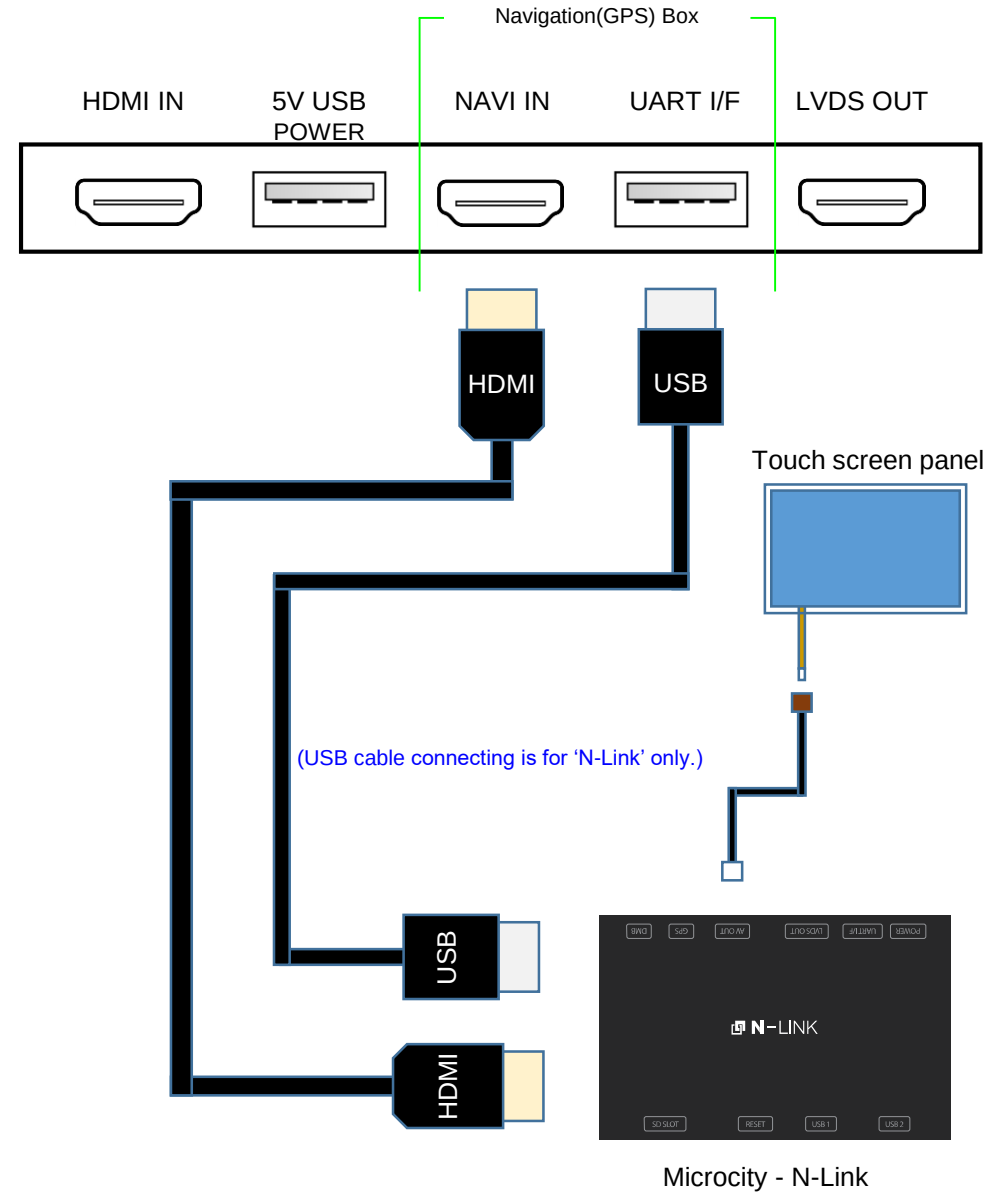
'Dongle & Adapter' Type HDMI Devices



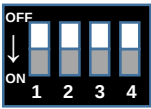
Navigation Connection Diagram



Navigation Connection Diagram

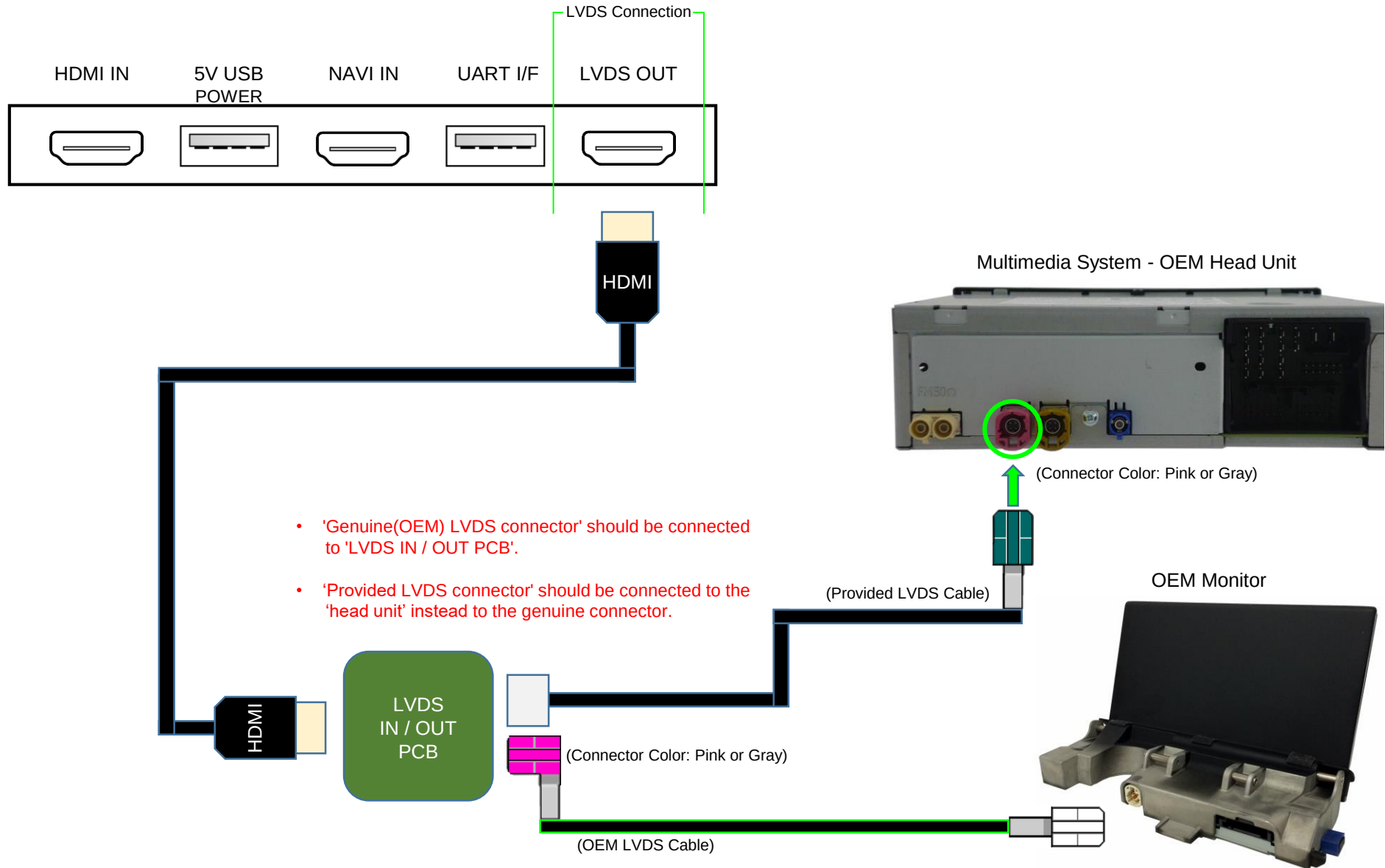


Compatibility Chart for Navigation(GPS) box models

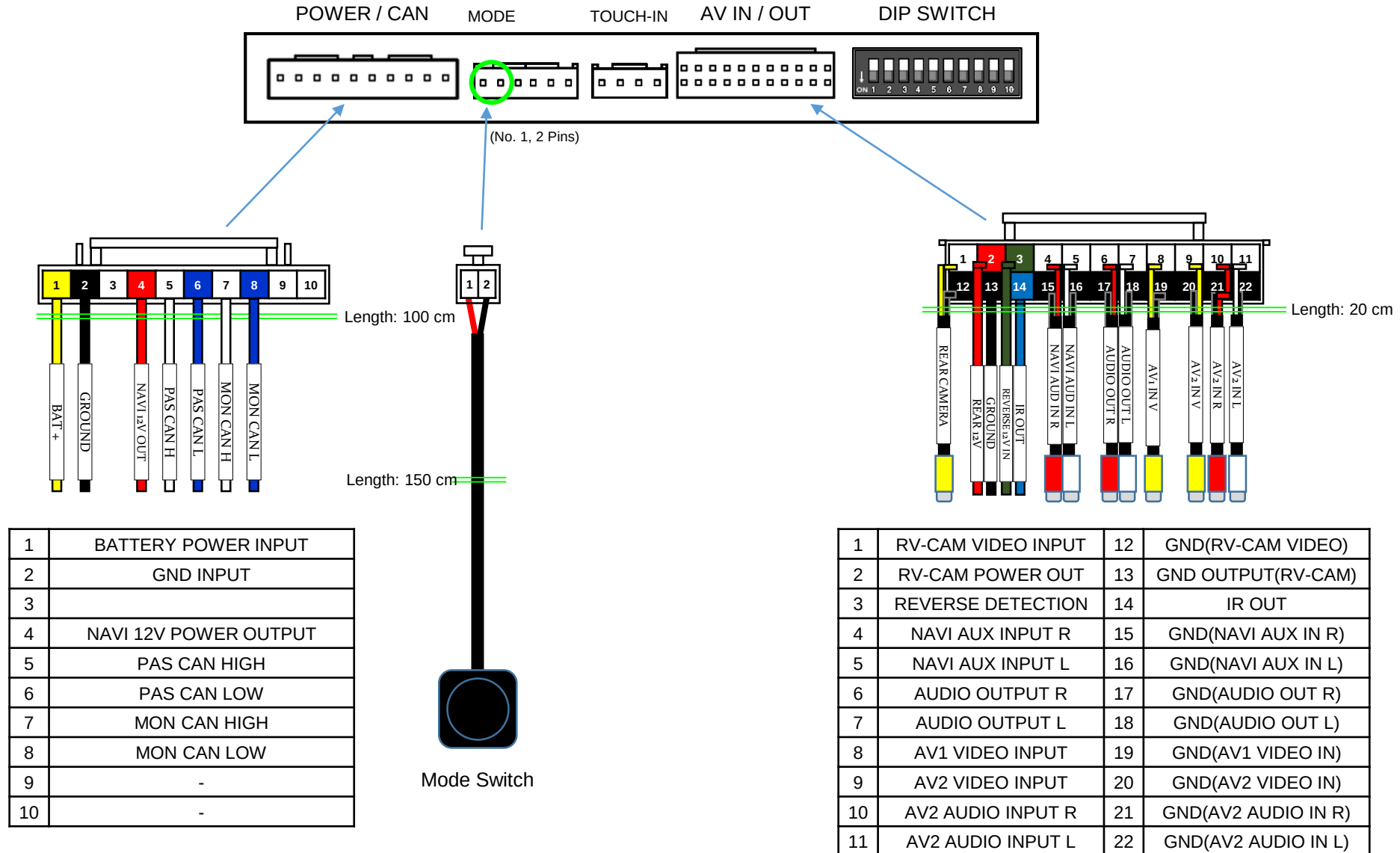
Model	Country	Dip S/W (Navigation)	Required Parts
	South Korea	-	 HDMI Cable (HDMI to HDMI)  USB A-A Cable (USB to USB)  Hazard Module (Refer to Page.11)
	South Korea	 OFF(↓): 1, 2, 3, 4	 HDMI Cable (HDMI to HDMI)
	South Korea	 OFF(↓): 1, 2, 3 ON(↑) : 4	 HDMI Cable (HDMI to HDMI)

- The 'IW04A3(HD-Link)' supports navigation(GPS) box models equipped with 'Digital video output'.
- It does not support the 'RGB video signals'.

LVDS Connection Diagram



Body Connector specifications



- The colors of each wires can be changed under manufacturer's circumstance.

	
	IW04A3 is used in combination with Audi(A3) <u>MMI(Multi Media Interface) system.</u> - Audi A3 MMI Radio - Audi A3 MMI navigation plus
	The IW04A3 supports the Audi(A3) 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



MMI Controller



Steering wheel buttons

Button	Function	Operation	Remarks
1 NAV(TONE)	Changing Modes	Press the button 2 seconds long.	Order: HDMI → NAVI → AV2 → OEM
1 NAV(TONE)	Shortcut to Each modes	Press the button 2 times quickly. < OEM → NAVI > Press the button 3 times quickly. < OEM → AV2 >	
1 NAV(TONE)	System Locking / Unlocking	Press the button 10 seconds long.	If you visit car service center, you can lock the all functions of IW04A3. It is only possible to use the OEM functions under it is locked.
 Buttons marked with yellow	Back to OEM	Press the buttons short.	Return to the OEM mode in any modes.
2 iNAV	Changing mode to Front View CAM mode(AV1)	Press the button 2 seconds long.	It changes the screen from any modes to AV1 mode directly.
3 BACK	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.
4 MENU	Enter into the setting menu	Press the button 5 seconds long.	All functions of setting menu is controlled by the MMI controller.

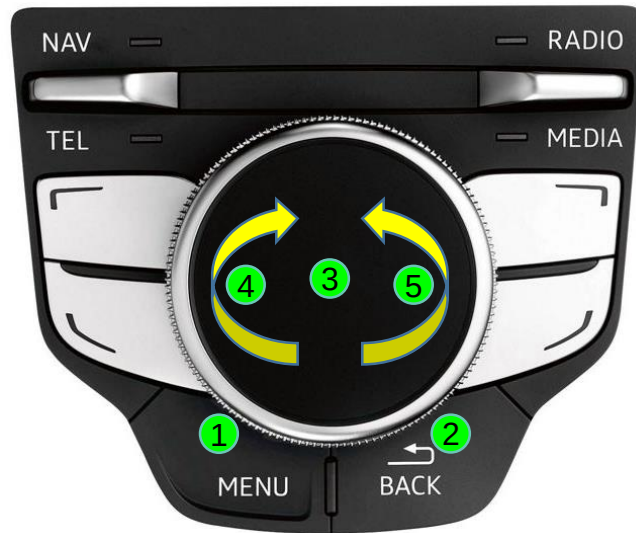
DIP Switch Settings



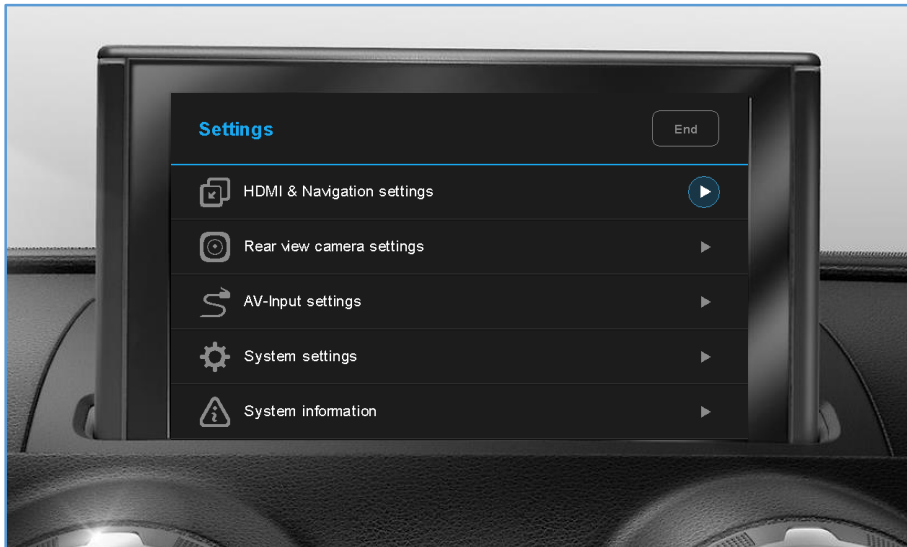
Pin No.	ON(▼)	OFF(▲)
1	HDMI Mode	Skip HDMI Mode
2	Navigation Mode	Skip Navigation Mode
3	External Rear View Camera	Original Rear View Camera
4	External Front View Camera(AV1 Mode)	Skip External Front View Camera(AV1 Mode)
5	AV2 Mode	Skip AV2 Mode
6	Selection of car model	
7		
8		
9		
10		

No.6	No.7	No.8	No.9	No.10	Car Models
OFF(▲)	OFF(▲)	OFF(▲)	OFF(▲)	ON(▼)	5.8-inch Screen (400*240) (MMI Radio)
ON(▼)	OFF(▲)	OFF(▲)	OFF(▲)	ON(▼)	7-inch Screen (800*480) (MMI Navigation Plus)

Settings



Button		Function	Operation
1	MENU	Enter into the setting menu	Press the button 5 seconds long.
2	BACK	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(←).

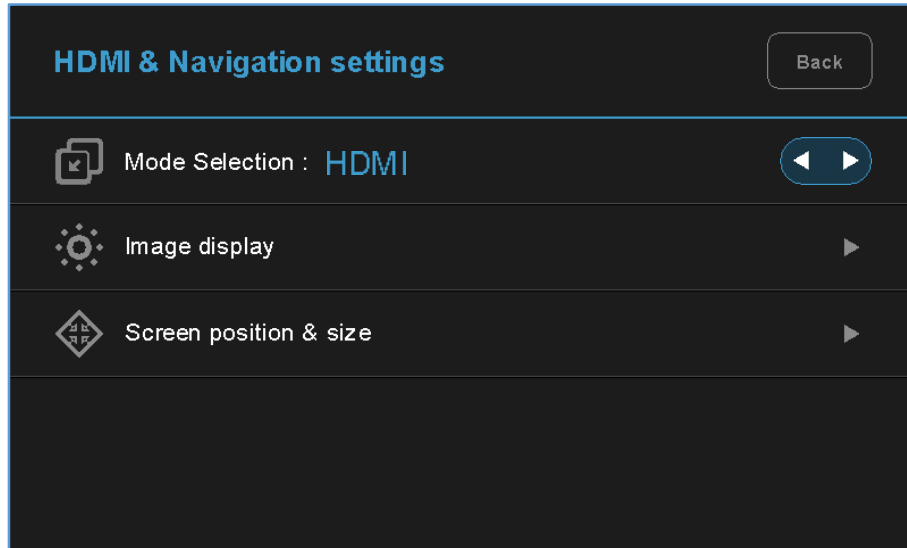


1. Enter into the setting menu.

<Press the 'MENU' button 5 seconds long.>

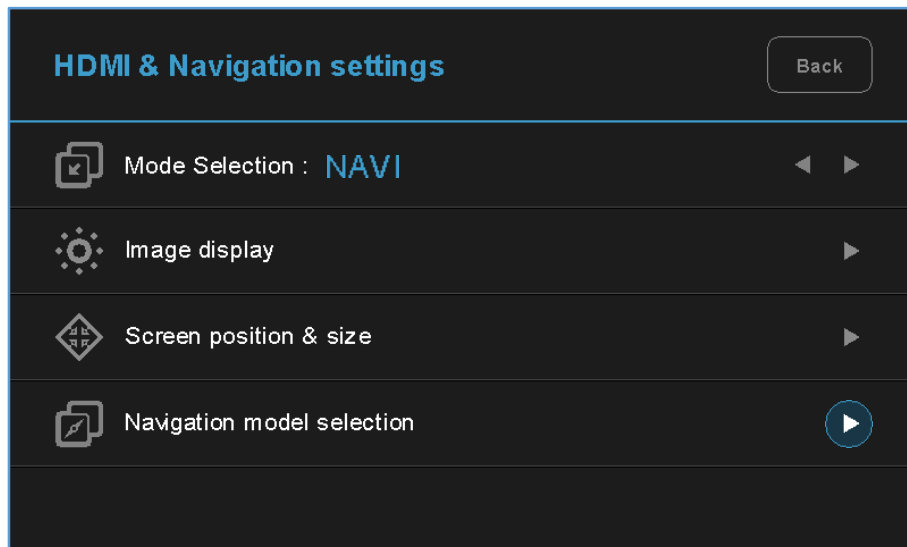
- HDMI & Navigation settings
- Rear view camera settings
- AV-input settings
- System settings
- System information

Settings



2. HDMI mode settings

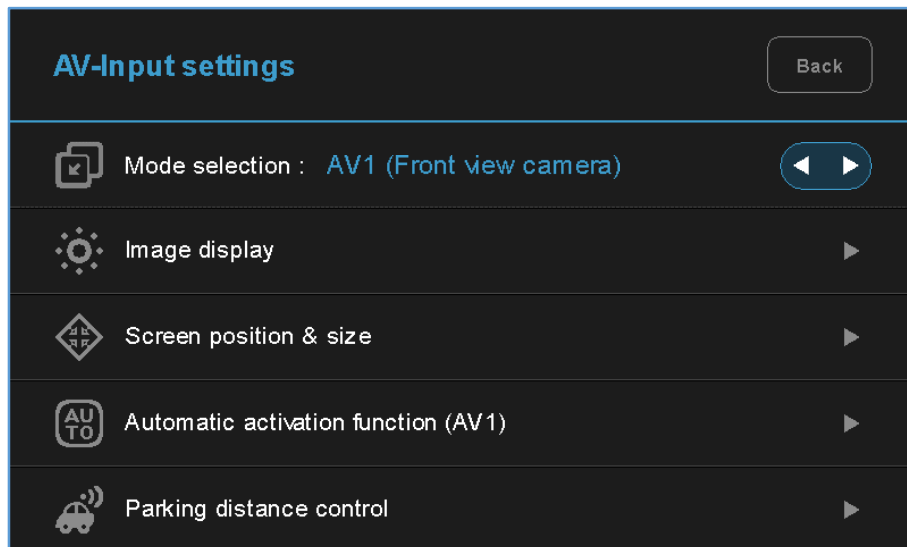
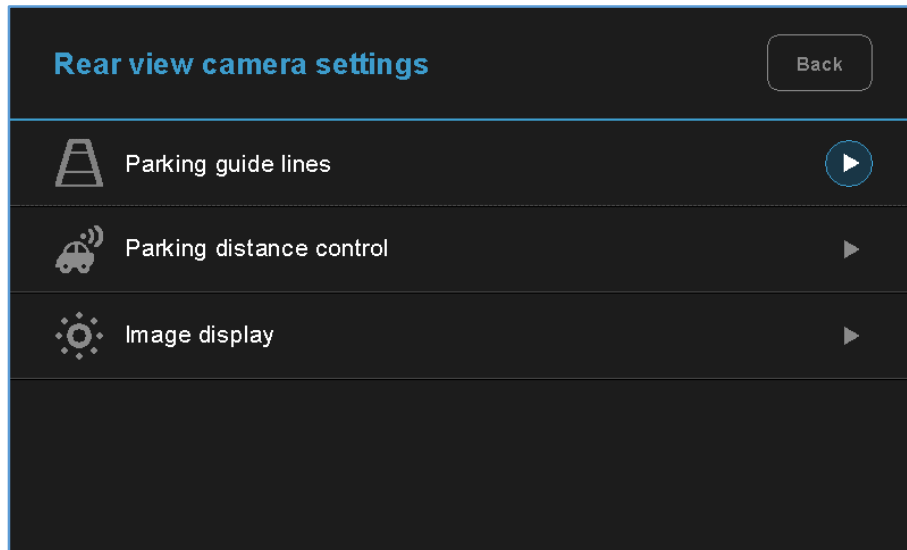
- Mode selection: HDMI ↔ NAVI
- Image display
= Adjust the values of brightness and contrast
Red-Green-Blue colors of HDMI display.
- Screen position & size
= Adjust position and size of HDMI display.



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 Default ② CUBE (Not applicable) ③ Class settop
 - ④ MS1400 ⑤ iQ 3D 5000 ⑥ Class PE

Settings



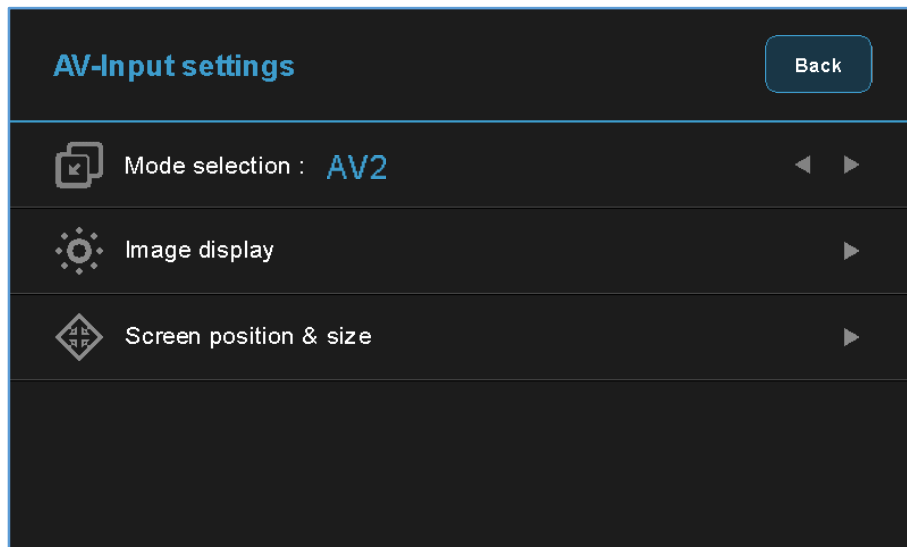
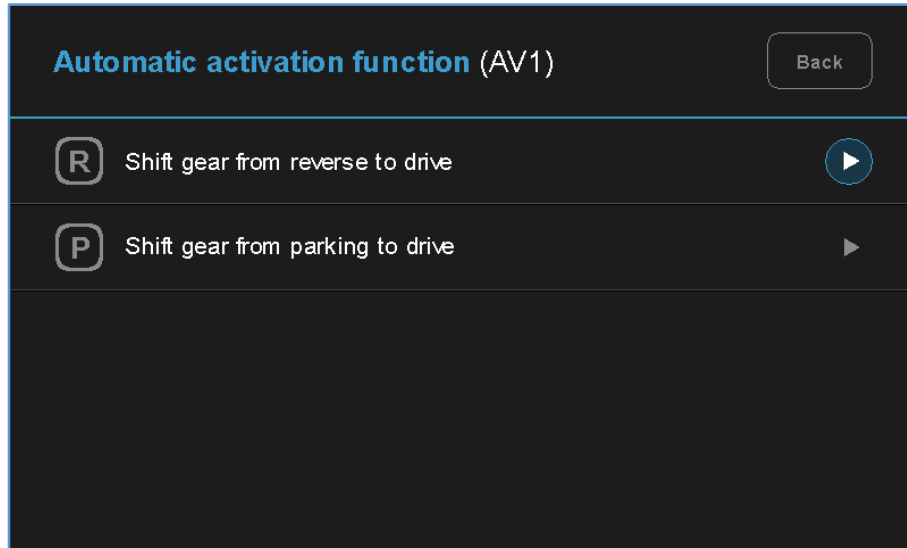
4. Rear view camera settings

- 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 PDC function '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 position of Parking Distance Control sensors to 'LEFT or RIGHT' and select PDC function 'ON or OFF'.

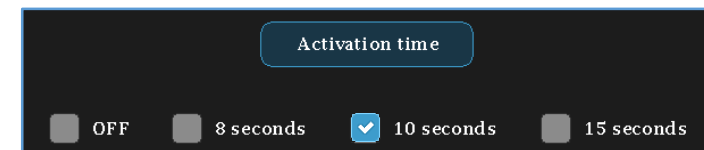
Settings



6. Automatic activation function(AV1)

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

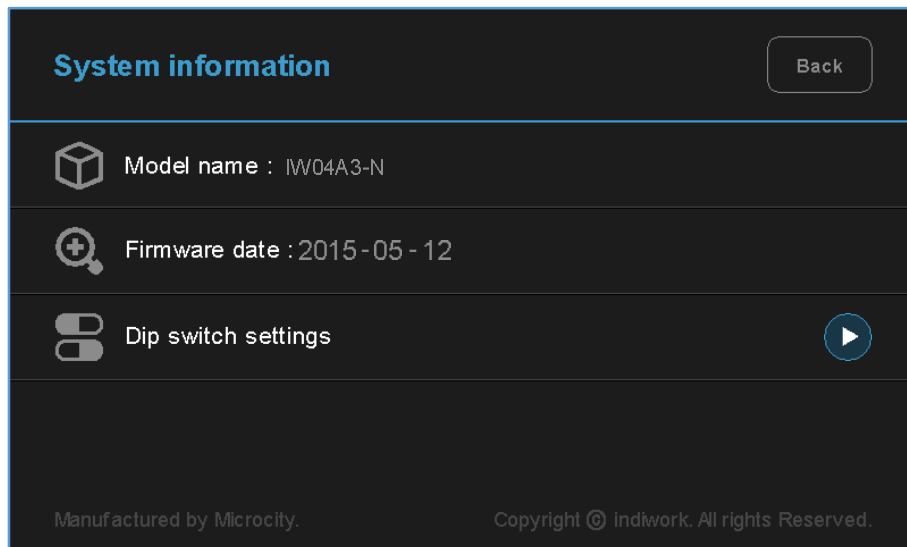
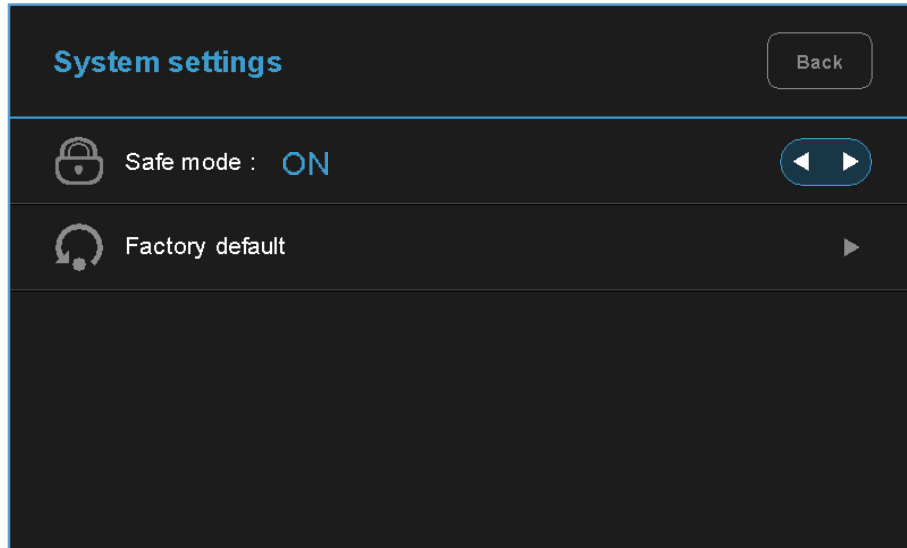
* When you shift gear 'from reverse to drive' or 'from parking to drive', it just works automatically during the activation time you selected.



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



8. System settings

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

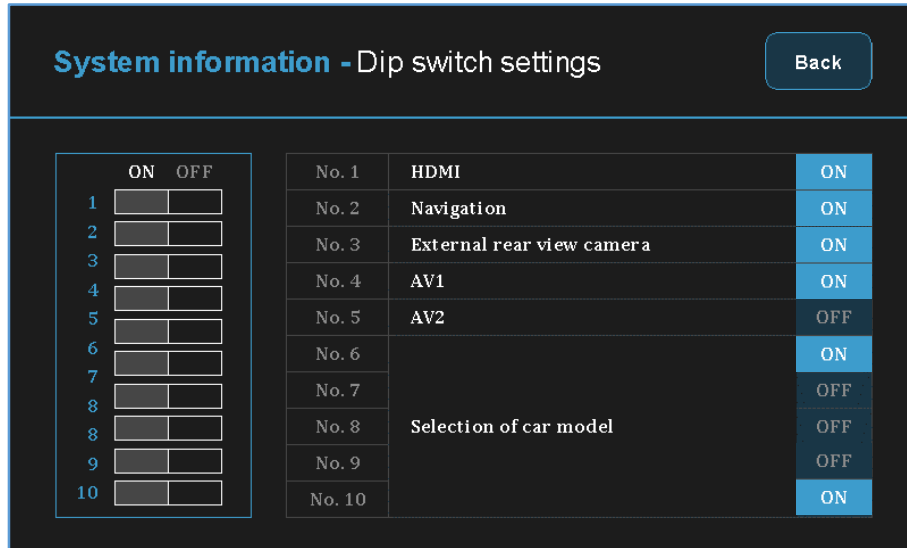
* If you select 'ON', 3 modes(HDMI, NAVI and AV2) will be faded out when the car is driven.

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

9. System information

- Mode name: IW04A3-N
- Firmware date: 2015 - 05 - 12(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



10. Information of Dip switch settings

* You can check current positions of dip switch settings.

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

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

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