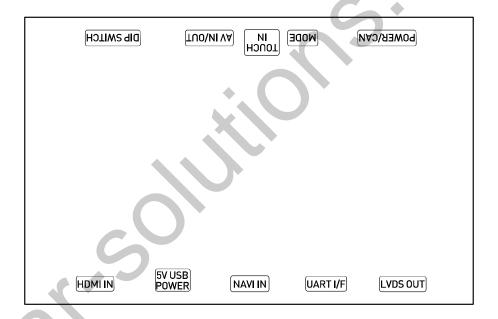
Release Date: 2016 - 06 - 28



Instruction Manual

High-Definition Link for Volkswagen



Latest Firmware Date	2015 - 12 - 21
Manual Version	Rev. 1.1
Language	English

Contents

•	Cautions_	3
•	Dimension & Exterior	4
•	Components & Optional parts	5
•	Full Installation Diagram	6
•	Touch board Installation Diagram (Touareg)	7
•	HDMI Connection Diagram	8
•	Navigation Connection Diagram	9
•	Compatibility Chart for Navigation(GPS) box models	10
•	LVDS Connection Diagram	11
•	Body Connector specifications	13
•	Car Compatibility Chart	14
•	Activation by original buttons of (Touareg)	15
•	DIP Switch Settings	16
•	Settings	
	Enter into the setting menu	17
	2. HDMI mode settings	18
	3. NAVI mode settings	18
	4. Rear view camera settings	19
	5. AV1(Front view camera) settings	19
	6. Automatic activation function(AV1)	20
	7. AV2 settings	20
	8. System settings	21
	9. System information	21
	10. Information of Dip switch settings	22

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.

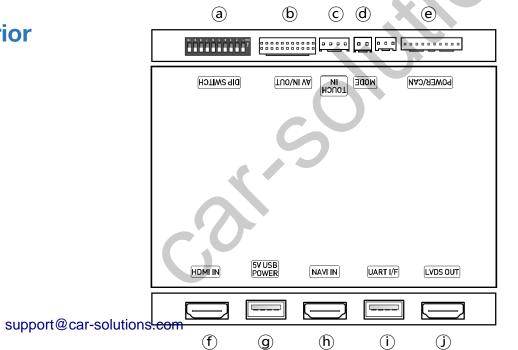
Navigation(GPS) box_related

- 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
- © TOUCH IN (Connect To Set top Device)
- d MODE
- e POWER / CAN
- (f) HDMI IN
- g 5V USB POWER
- (h) NAVI IN
- (i) UART I/F
- j LVDS OUT

Components

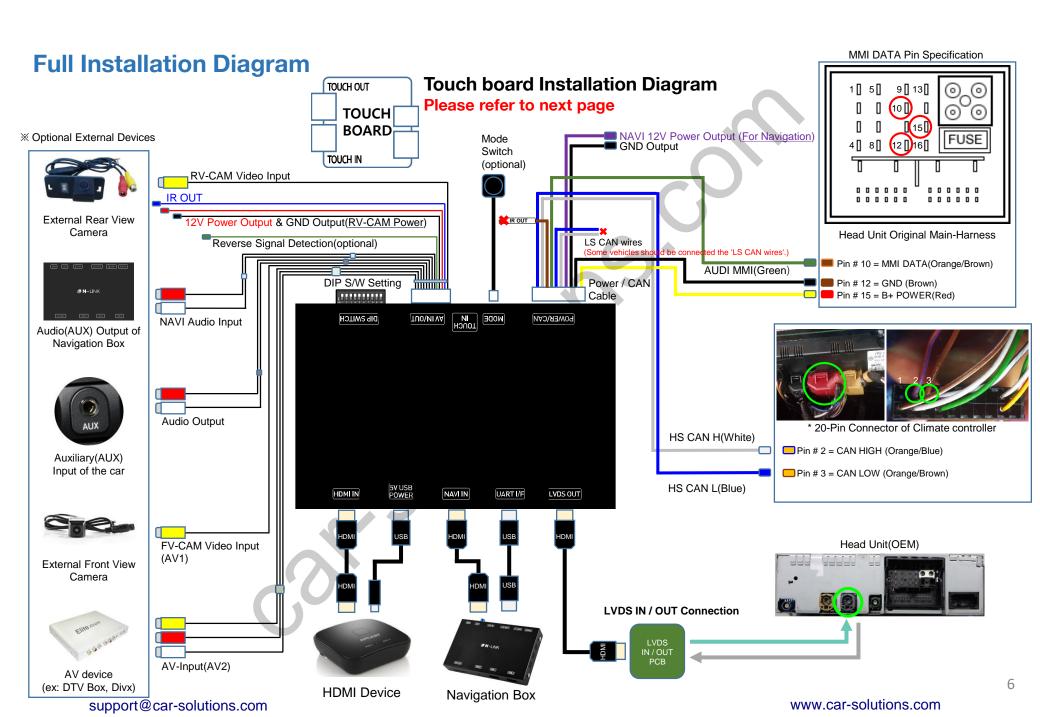




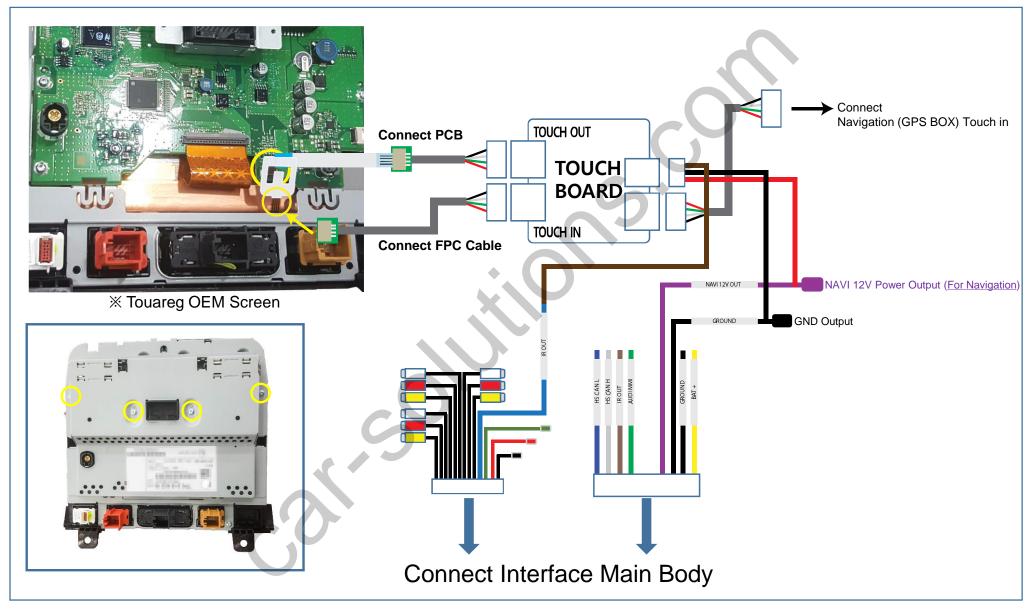


support@car-solutions.com

www.car-solutions.com

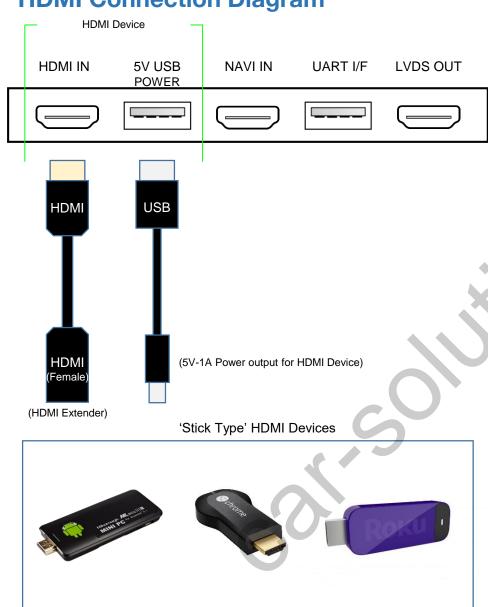


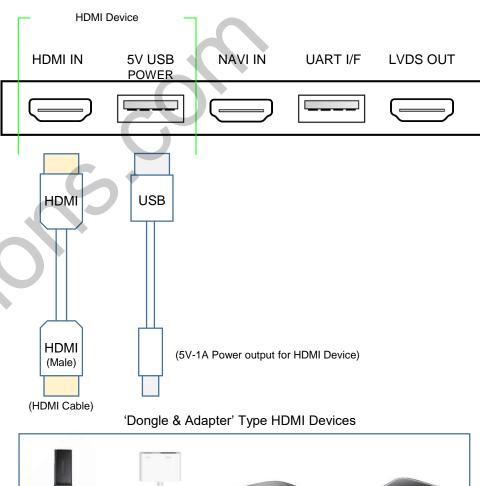
TOUCH BOARD Installation Diagram (TOUAREG)



support@car-solutions.com

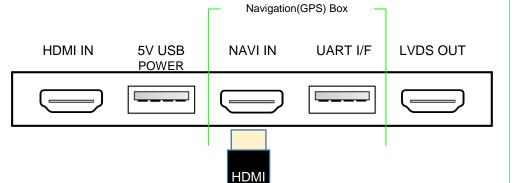
HDMI Connection Diagram

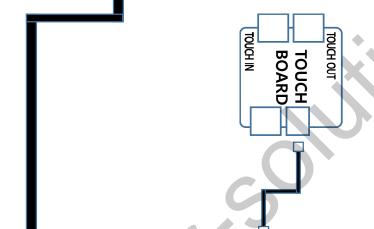






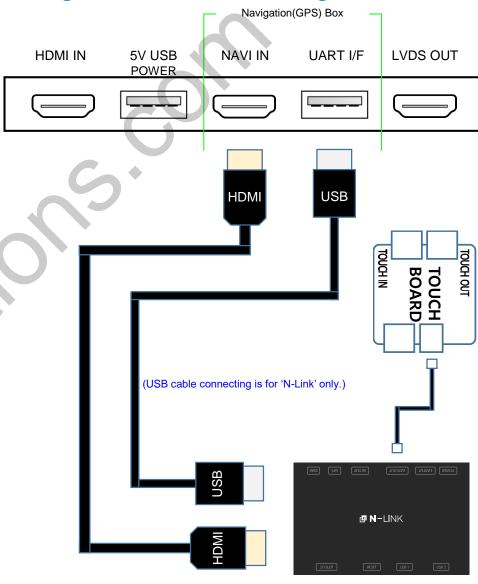
Navigation Connection Diagram





iNAVI - X1 CUBE

Navigation Connection Diagram

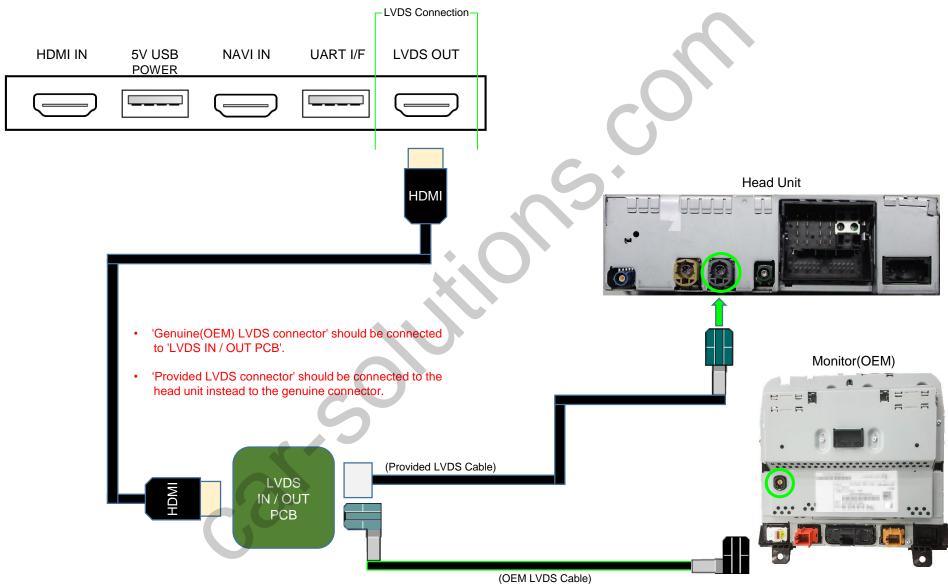


Compatibility Chart for Navigation(GPS) box models

Model		Country	Dip S/W (Navigation)	Required Parts
W N-LNK	MICROCITY N-Link	South Korea	-	HDMI Cable USB A-A Cable
O O O O O O O O O O O O O O O O O O O	iNAVI X1 CUBE	South Korea	OFF(†): 1, 2, 3, 4	HDMI Cable
Atlan&E	MYVI MS1400 Digital	South Korea	OFF(↓): 1, 2, 3 ON(↑) : 4	HDMI Cable

- The device supports navigation(GPS) box models equipped with 'Digital video output'.
- It does not support the 'RGB video signals'. support@car-solutions.com

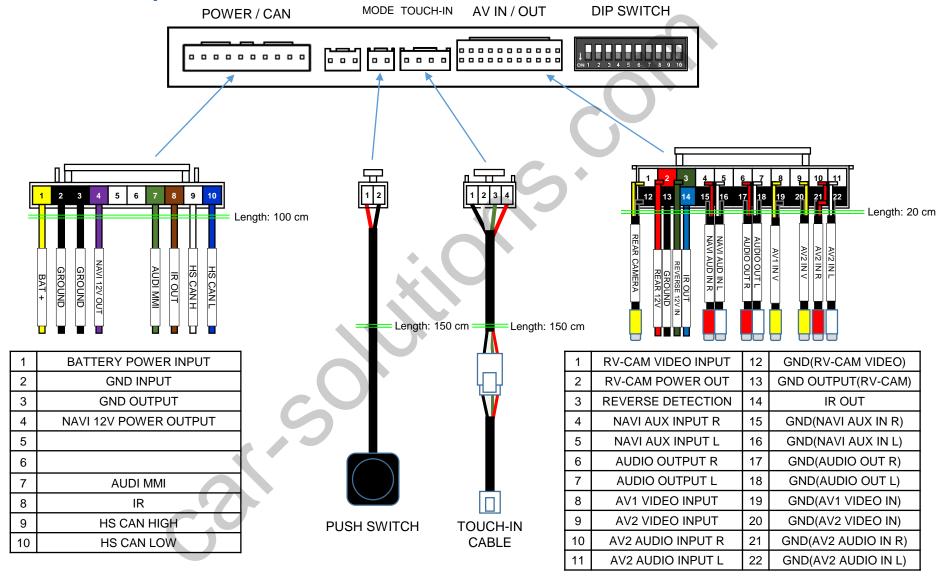
LVDS Connection Diagram



support@car-solutions.com www.car-solutions.com

11

Body Connector specifications



Car Compatibility Chart

Car Models	Production Year	Specific Models
Touareg	2010 ~	7P5
		•





The device supports the Volkswagen

Original screen equipped with '4 pin

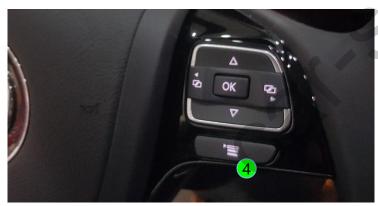
LVDS round connector' only.

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

Activation by original buttons of Volkswagen



Volkswagen Touareg Monitor



Volkswagen Touareg Steering Wheel buttons support@car-solutions.com

Touareg

Button	Function	Operation	Remarks
1 NAV	Changing Modes	Press the button 2 seconds.	Order: HDMI → NAVI → AV1 → AV2 → OEM
		Press the button 2 times consecutively	. < OEM → NAVI >
1 NAV	Shortcut to each modes	Press the button 3 times consecutively.	. < OEM → AV1 >
	*	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 the device It is only possible to use the OEM functions under it is locked.
(Steering Wheel buttons)	Changing mode to Front View Camera mode(AV1)	Push the button left 2 seconds long.	It changes the screen from any modes to AV1 mode directly.
2 CLIMATE	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 SETUP	Enter into the setting menu	Press the button 5 seconds long.	Adjust settings of all functions like adjustment screen size, brightness, and etc.

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		C		
7	Selection of car model			
8				
9				
10				

No.6	No.7	No.8	No.9	No.10	Car Models
OFF(▲)	OFF(▲)	OFF(▲)	OFF(▲)	OFF(▲)	2010~ Touareg (8inch Screen 800*480)
			V		
		5	*		

16

support@car-solutions.com www.car-solutions.com



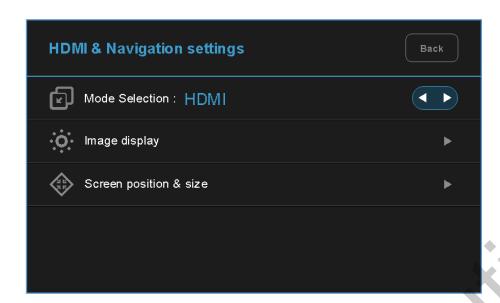
	Button	Function	Operation	
1	SETUP	Enter into the setting menu	Press the button 5 seconds long.	
2	CLIMATE(RETURN)	Back to previous menu	Press the button short.	
3	Selection	Select the menu and setting values.	Press the button short.	
4	Turn the dial clockwise	Move the menu- pointer and adjust the setting values.	Move the pointer and setting values to $up(\uparrow)$ and $right(\rightarrow)$.	
5	Turn the dial counterclockwise	Move the menu- pointer and adjust the setting values.	Move the pointer and setting values to $down(\downarrow)$ and $left(\leftarrow)$.	

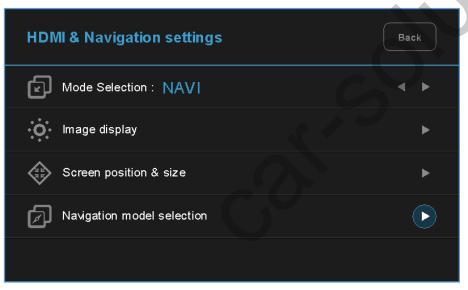


1. Enter into the setting menu.

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

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



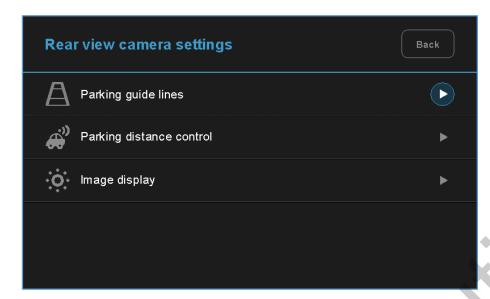


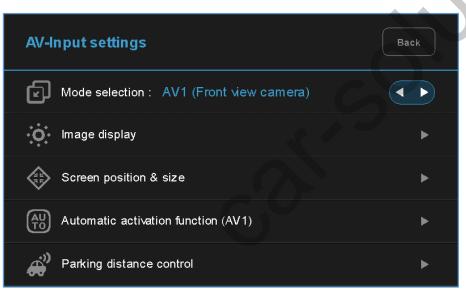
2. HDMI mode settings

- 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





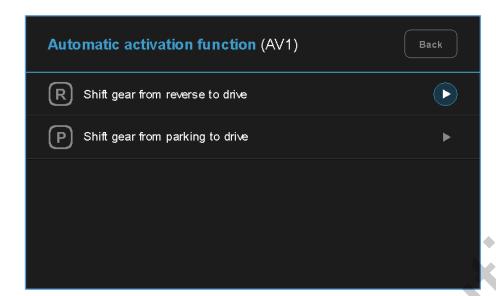
4. Rear view camera settings

- 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'.

www.car-solutions.com





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.



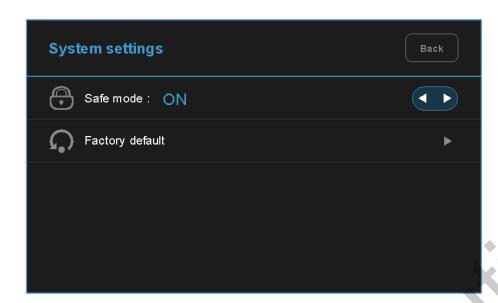
7. AV2 settings

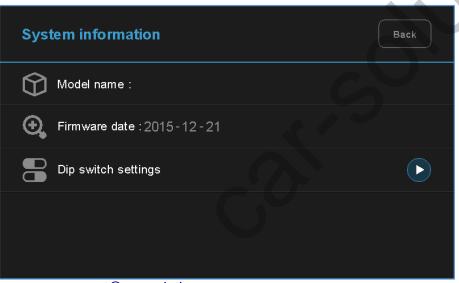
- Mode selection: AV2 ↔ AV1(Front view camera)

20

- 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.

support@car-solutions.com www.car-solutions.com



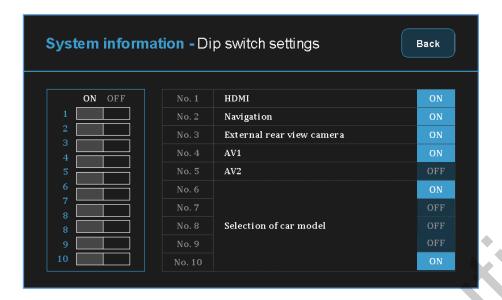


8. System settings

- 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.

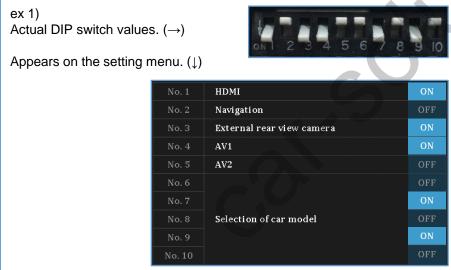
9. System information

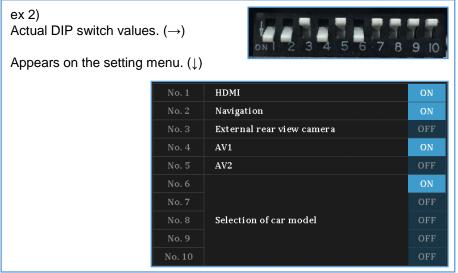
- Mode name:
- Firmware date: 2015 12 21(Latest firmware date)
- = You can check the current firmware version date.
- Dip switch settings
 - = You can check the current positions of dip switch settings.





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





22

support@car-solutions.com www.car-solutions.com