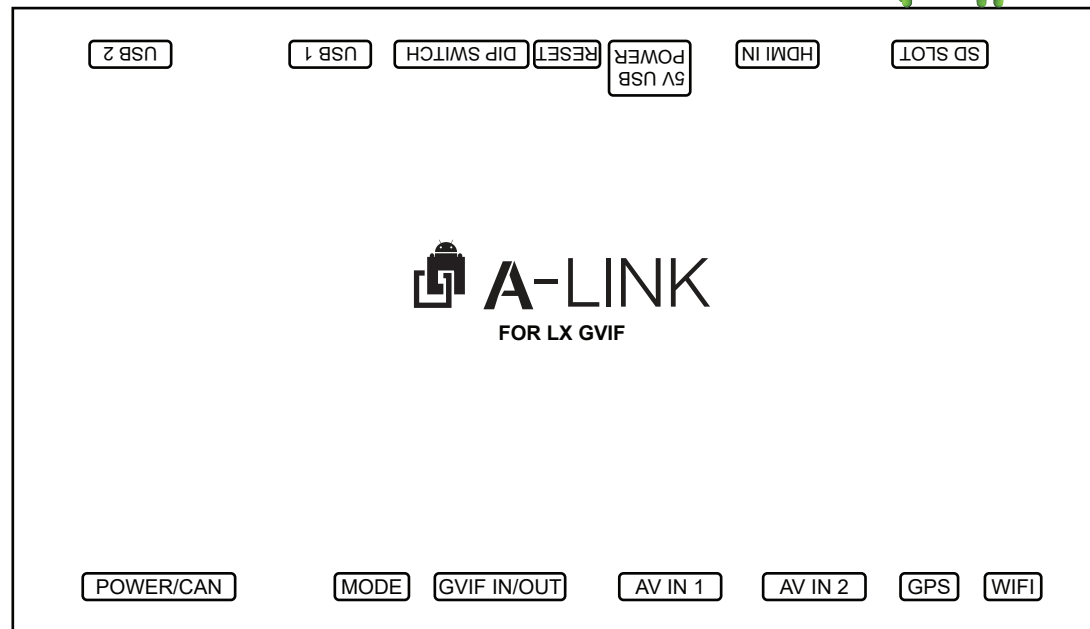


# Instruction Manual

High-Definition Link for Lexus

## A-LINK For Lexus



Model Name	A-LINK FOR LEXUS
Latest Firmware Date	2017 - 12 - 19
Manual Version	Rev. 1.0
Language	English

# Main Specifications

OS	Android 5.1.1 (Lollipop)
CPU	NXP5430Q-64bit Cortex-A53 Octa Core@1.6Ghz Mali-400 MP4 GPU
Internal Memory	2GB DDR3 @800Mhz
NAND	16GB eMMC
USB	USB2.0 High Speed Port x 2
Signal	802.11 b/g/n WiFi, Bluetooth 4.0
GPS	Ublox7
Touch	Resistor and Capacitive touch support
RGB OUT	800x480 or 480x234, Including RGB scaling function
LVDS OUT	Digital 800x480 LVDS OUT
Speaker	2W
FM Transmitter	88.0Mhz~108.0Mhz
I/O	AV IN(Only Video), Stereo Audio Out, UART(Only Smart Drive)
Voltage	DC 12V ~ 24V
Temperature	Storage -20 C ~ +80 C/ Operating -15 C ~ +70 C

## Product Warranty

Thank you for purchasing our product.  
We offer the warranty for 1 year from the date of purchase.


















This product has been tested and have passed under our strict and qualified control. If the failure occurred due to the carelessness of workmanship within one year after the purchase, we are responsible to repair free of charge.

• **Free service** : Manufacturing defects, When naturally occurring failures within the warranty period.

\* When the warranty period has elapsed, Failure the caused by customer's mistake, Failure the caused by natural disasters.

**Warranty** : One years from the original date of purchase.(12 months)

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- **Settings REAR, FRONT** (Automatic activation function(AV1) \_\_\_\_\_ 
- **Settings** \_\_\_\_\_ 
- **Settings System Settings** \_\_\_\_\_ 

# Precautions

## ▪ A-LINK for Lexus- 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 1 2V power of reverse light.

## ▪ HDMI Device-related

HDMI mode accepts general-screen resolution of HDMI devices.

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.

- This product is assistive devices that help the driving safely. Do not drive by rely solely on
- The rated voltage of this product is DC 12. And it requires the correct wiring connections and mounting.  
Please install only by a qualified technician.
- GPS Satellite reception may be unstable in a particular area or some vehicles that have the special tinted windows and electromagnetic interference.
- Please read the manual prudently before using this product. And then use this product correctly.
- To avoid any risk of electric shock or other injuries, please never disassemble and reassemble this product.
- This product yourself Installing or servicing this product and its connecting cables may expose you to the risk of electric shock or other hazards, and can cause damage to this product.
- Do not cut the GPS antenna cable to shorten it or use an extension to make it longer.  
Altering the antenna cable could result in a short circuit or malfunction.
- Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions.
- Company can not be held responsible for incidental damages of the driver caused as a result of using the product.



# Car Compatibility Chart

[illegible]

## 2015 Lexus RX



## 2015 Lexus LX



## Lexus RX

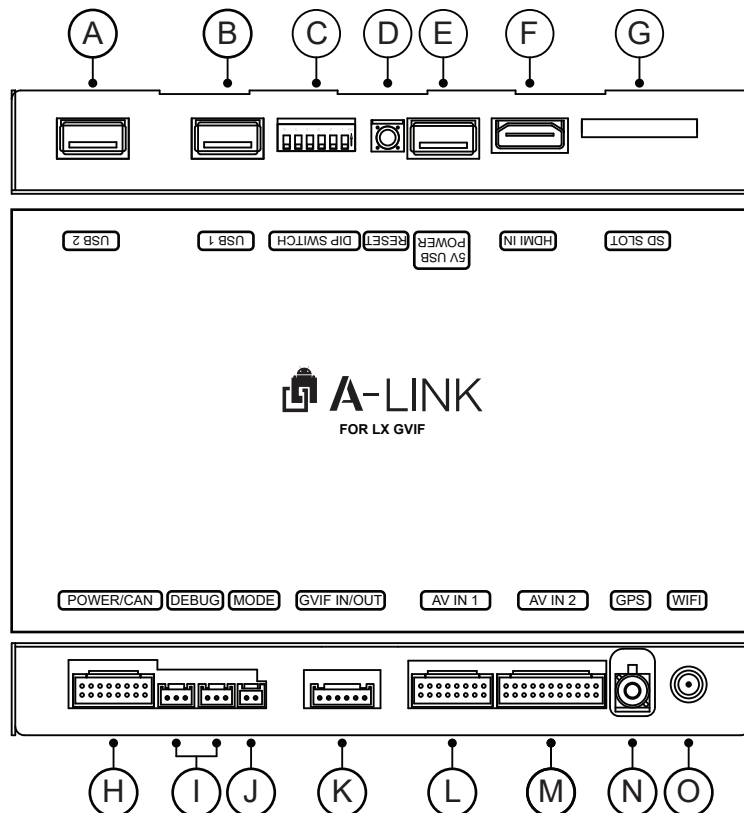


## Lexus LX

## Dimension



## Exterior



- |                |                 |
|----------------|-----------------|
| Ⓐ USB PORT     | Ⓗ POWER / CAN   |
| Ⓑ USB PORT     | Ⓘ DEBUG         |
| Ⓒ DIP SWITCH   | ⓵ MODE          |
| Ⓓ RESET SWITCH | Ⓚ GVIF IN / OUT |
| Ⓔ 5V USB POWER | Ⓛ AV IN 1       |
| Ⓕ HDMI IN      | Ⓜ AV IN 2       |
| Ⓖ SD CARD SLOT | Ⓝ GPS           |
|                | Ⓞ WIFI          |

# Components



Power Cable



GVIF Cable



AV 1 Cable



AV 2 Cable



RES Touch Cable



CAP Touch Cable



MIC



External Speaker



External GPS Antenna



IR IN Sensor



KEYPAD For setup



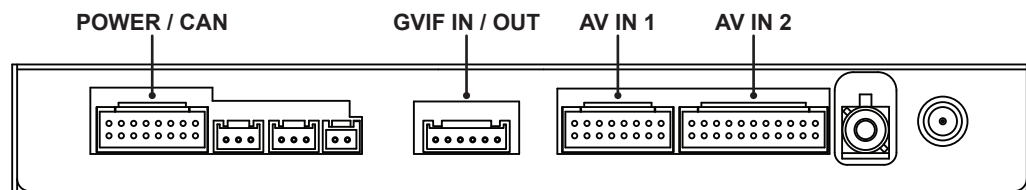
Brackets



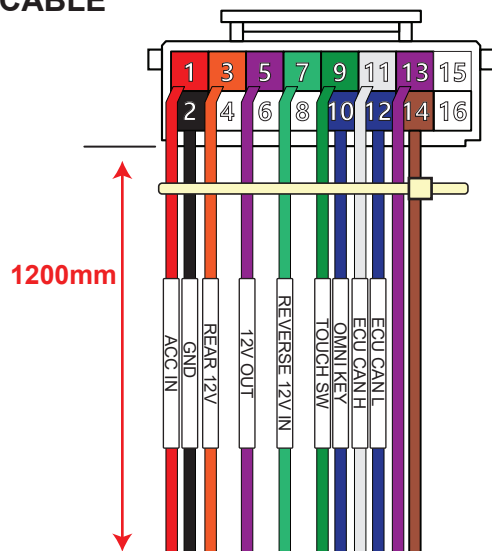
WIFI Antenna

## Optional Parts (sold separately at the indiwork)

# Body Connector specifications

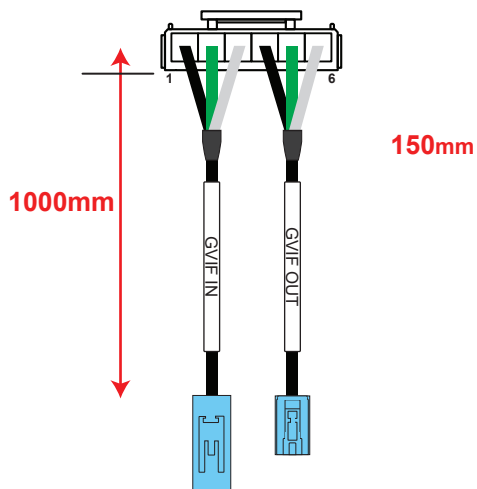


## POWER / CAN CABLE



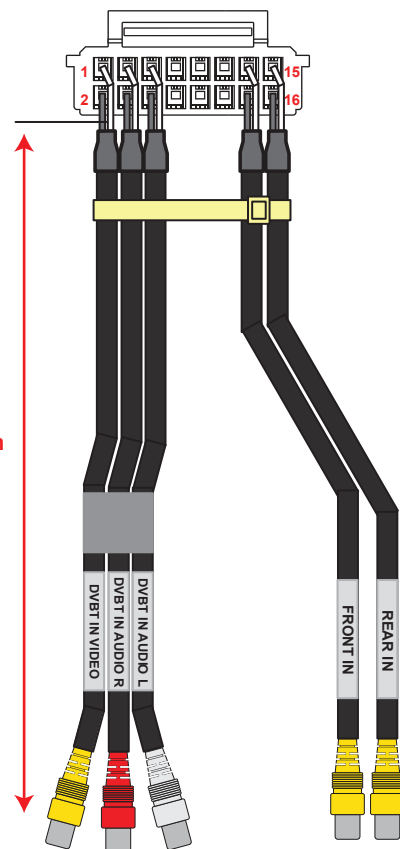
1	ACC INPUT	2	GROUND INPUT
3	RV-CAM POWER OUT	4	
5	12V(ACC) OUT	6	
7	REVERSE DETECTION	8	
9	TOUCH SW	10	OMNI KEY
11	ECU CAN HIGH	11	ECU CAN LOW
13		12	
15		14	

## GVIF CABLE



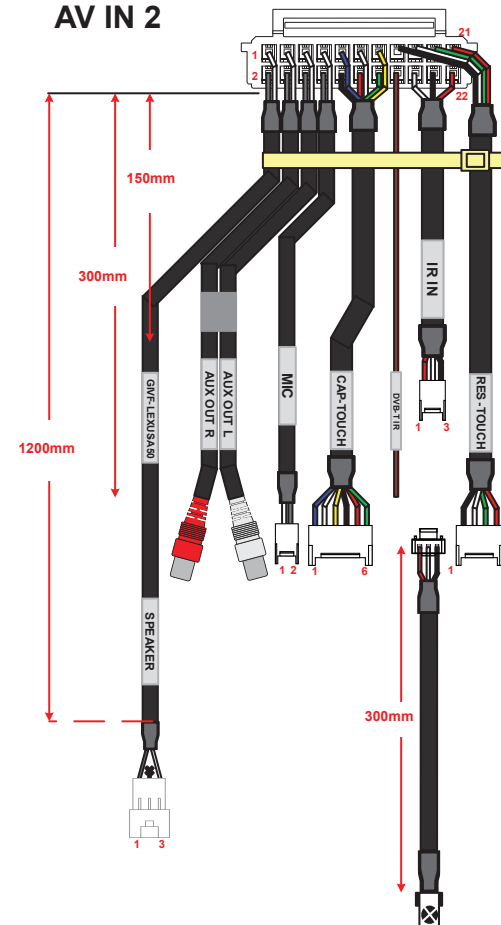
1	GROUND
2	GVIF IN +
3	GVIF IN -
4	GROUND
5	GVIF OUT +
6	GVIF -

## AV IN 1



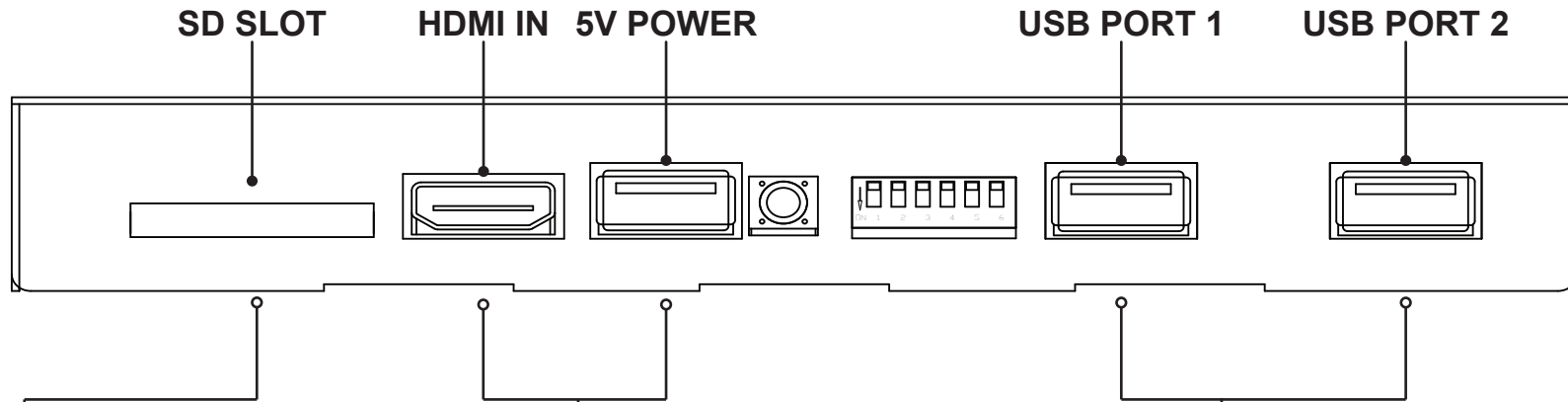
1	DVB_IN_V	2	GND
3	DVB_IN_R	4	GND
5	DVB_IN_L	6	GND
7	N.C.	8	N.C.
9	N.C.	10	N.C.
11	N.C.	12	N.C.
13	FRONT_IN	14	GND
15	REAR_IN	16	GND

## AV IN 2

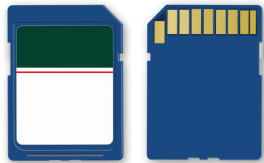


1	SPK +	2	SPK -
3	AUX_OUT_R	4	AUX_GND
5	AUX_OUT_L	6	AUX_GND
7	MIC +	8	MIC -
9	CAP_SCL	10	CAP_GND
11	CAP_SDA	12	CAP_VDD_3.3V
13	CAP_INT	14	CAP_RST
15	TOUCH_X-	16	DVB_T_IR
17	TOUCH_Y-	18	N.C.
19	TOUCH_X+	20	N.C.
21	TOUCH_Y+	22	N.C.

# Body Connector specifications



## SD CARD



### Compatibility Spec

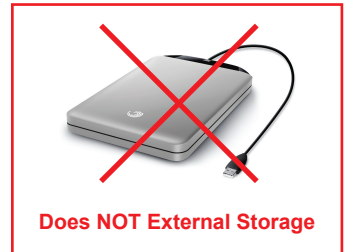
Speed Class : Class10  
Max Storage Capacity : 32GB  
FORMAT : FAT32

## HDMI DEVICE



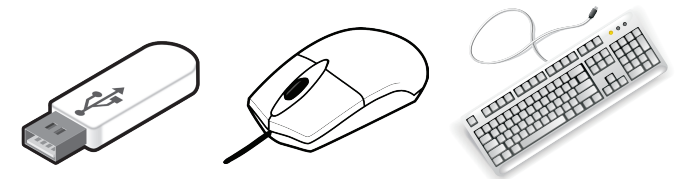
### Compatibility Resolution

Supports Only 720P  
**Does Not Supports 4K, 1080P,**



**Does NOT External Storage**

## USB DEVICE



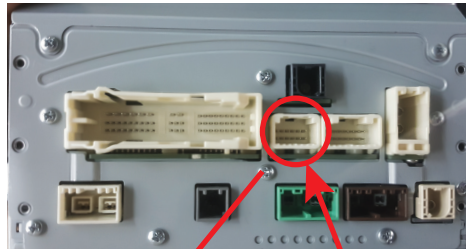
USB2.0 Port

# Full Installation Diagram

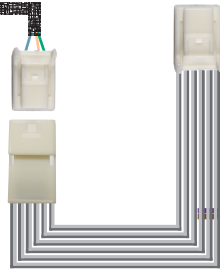


Click  
Go to contents page

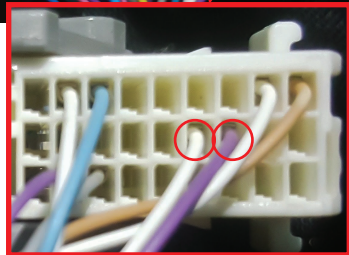
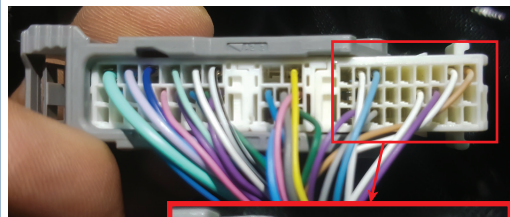
OEM HEAD UNIT



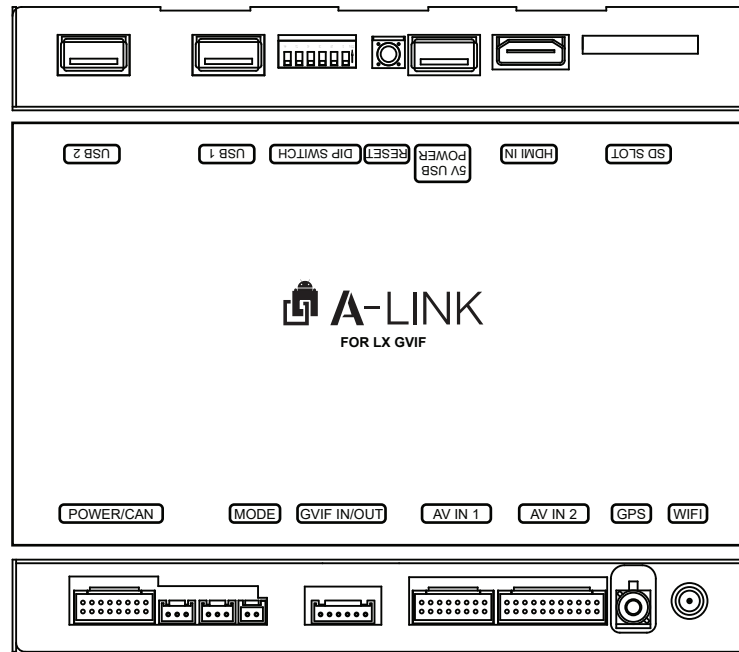
GVIF OUT CABLE



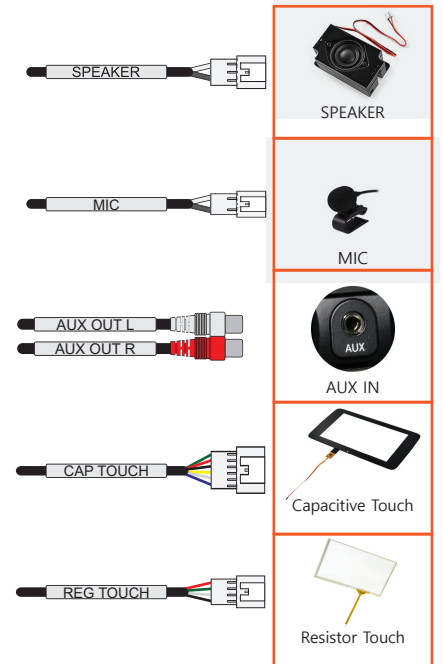
Original Main-Harness



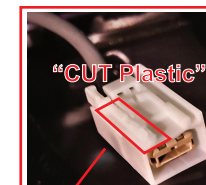
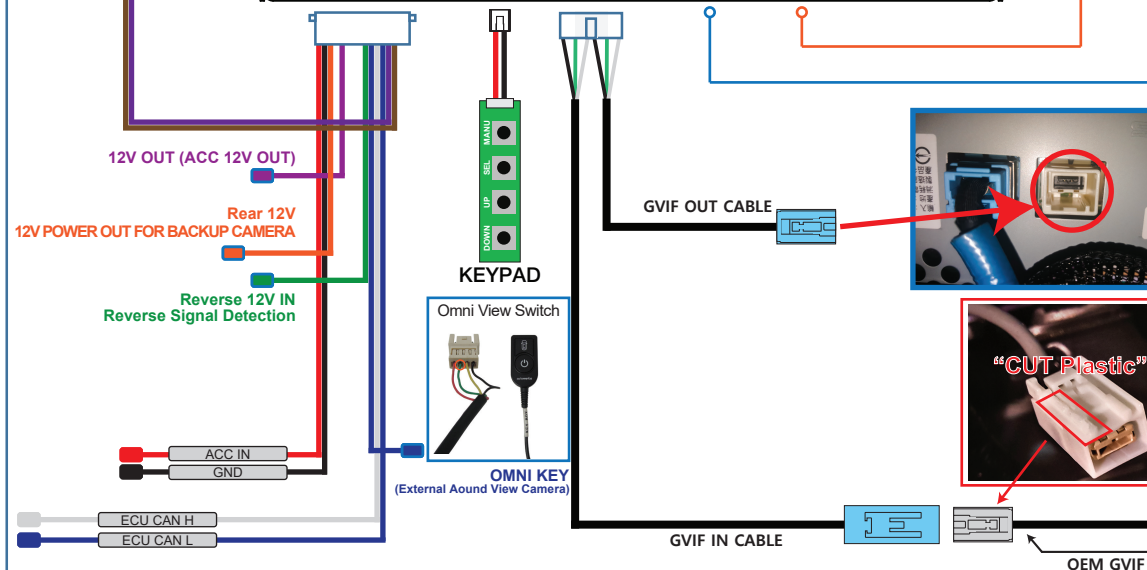
※ It might be colors different  
(Purple) CAN HIGH = # PIN  
(White) CAN LOW = # PIN



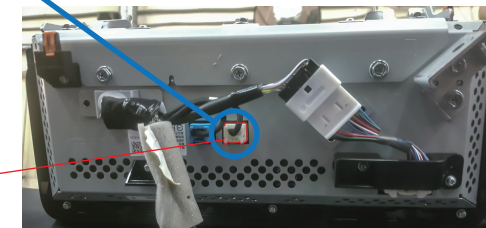
AV IN 2 CABLE



AV IN 1 CABLE



Lexus OEM Screen



# DIP Switch Settings



No.1	No.2	No.3	No.4	No.5	No.6	Car Model
OFF (▲)	OFF (▲)	OFF (▲)	OFF (▲)	OFF (▲)	OFF (▲)	Lexus RX, LX



# Activation by original buttons

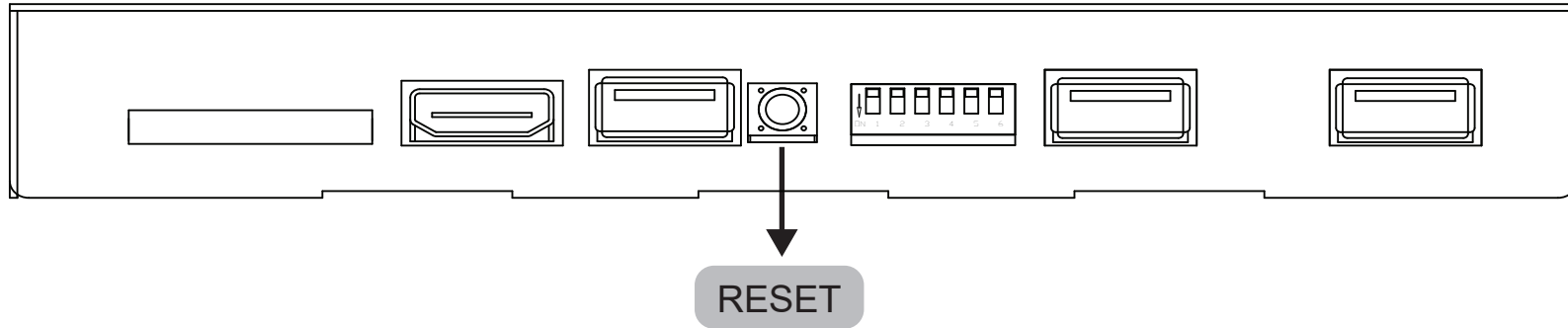


**LEXUS OEM BUTTONS**

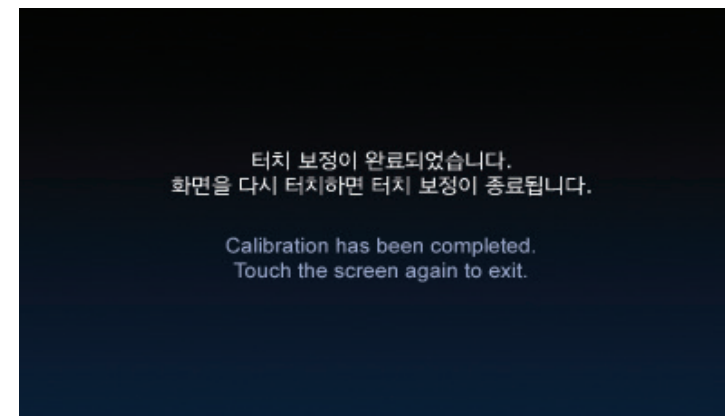
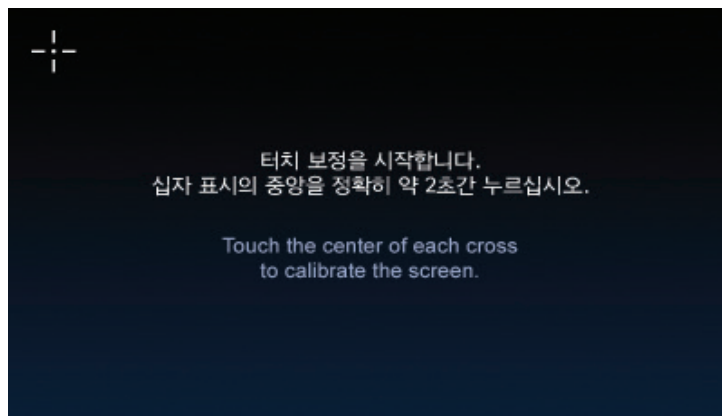
Button	Function	Operation	Remarks
<b>1</b> MAP	Changing Modes	Press the button 2 seconds	Order : A-LINK → OEM
<b>2</b> BACK	A-LINK Back/Cancel	Press the button short time	A-LINK back / cancel function
<b>3 4</b> UP , DOWN	A-LINK Next Track Previous Track	Press the button short time	Use in music, video, apps of A-LINK Next Track / Previous Track
<b>5</b> MOUSE	A-LINK MOUSE	Used like computer mouse	



# Resistor Touch Calibration



- ※ **Pressing the reset button 2 seconds to enter the touch screen calibration**
- ※ **If it impossible case. connect your mouse to the USB1, 2 port of the A-LINK and use it.**



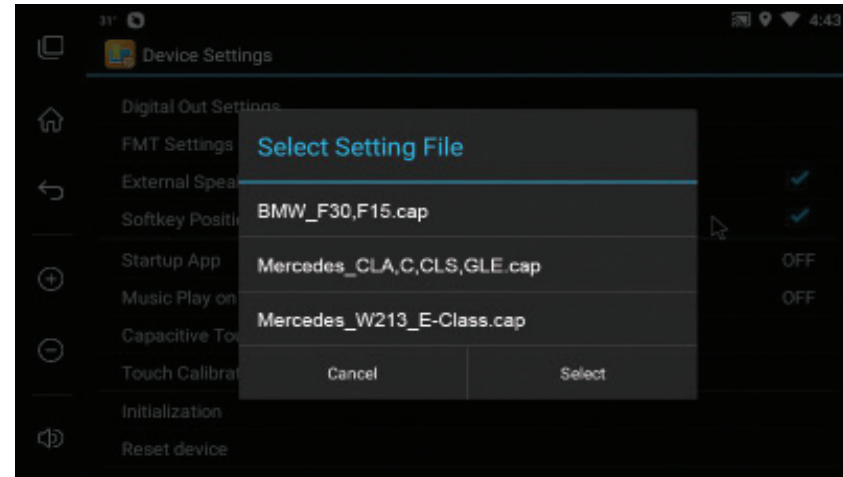
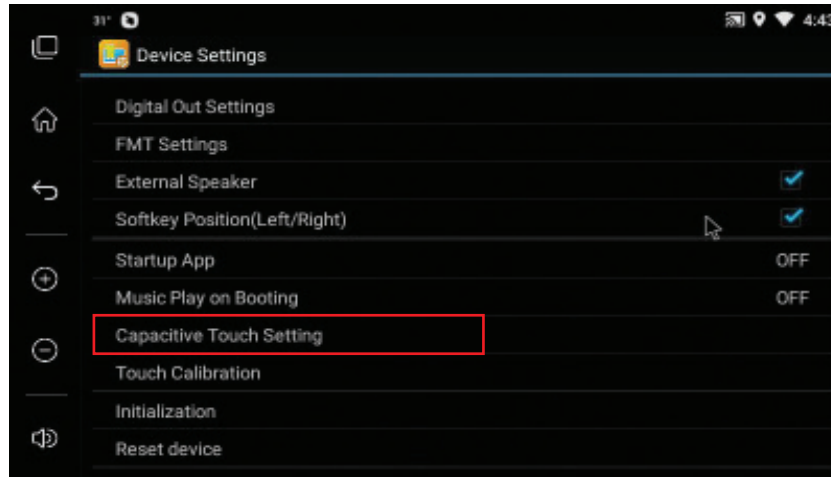
Press and hold the crosshair  
to moves to the next.

**\* Capacitive touch does not need the touch calibration.**

# Capacitive Touch Setting

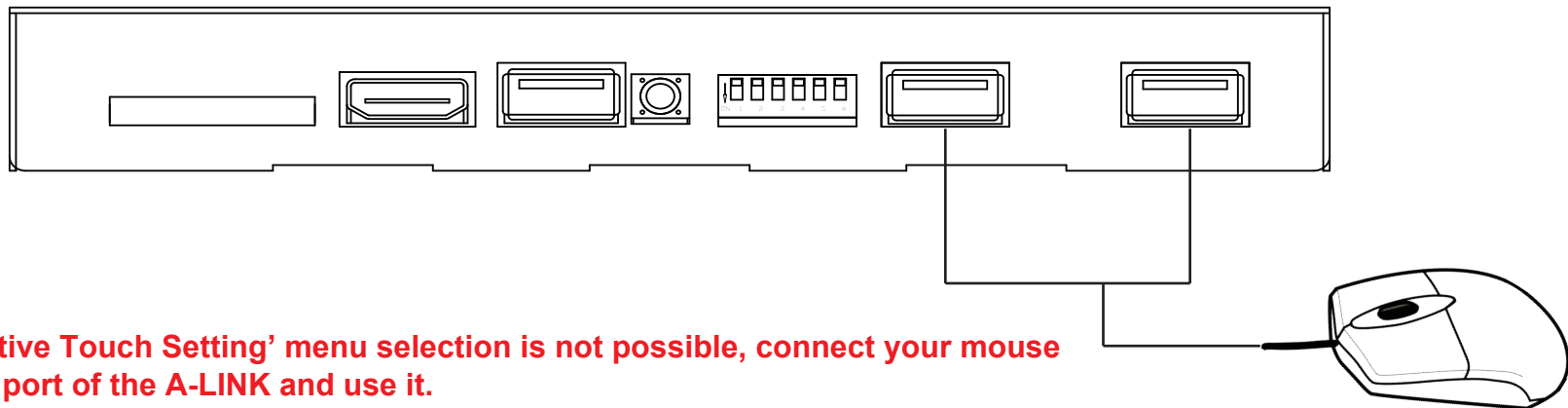


## 1. Device Settings



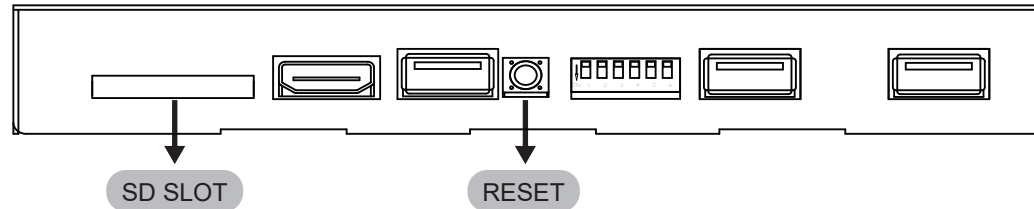
2. Enter the **Capacitive Touch Setting**.

3. **Select the appropriate touch panel.**



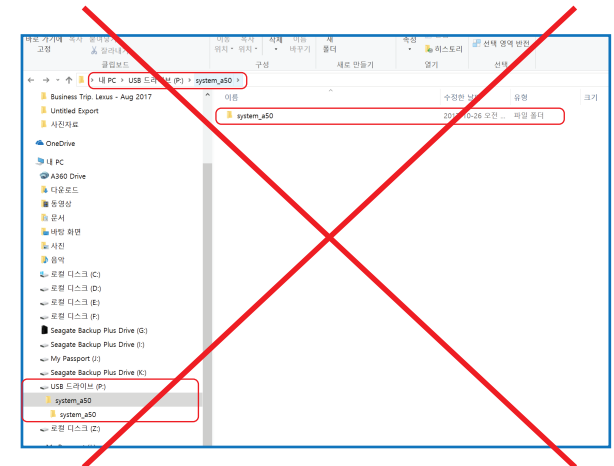
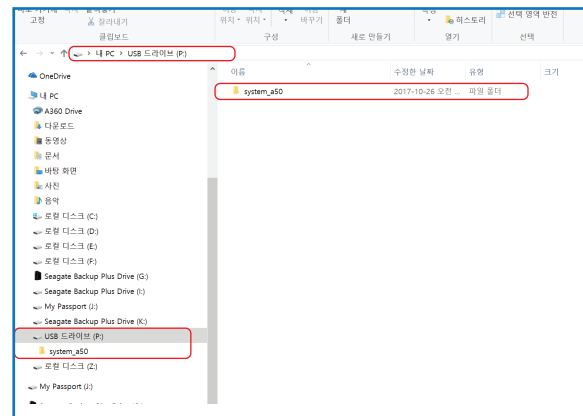
\* If the 'Capacitive Touch Setting' menu selection is not possible, connect your mouse to the USB1, 2 port of the A-LINK and use it.

# Firmware Upgrade



1. Download firmware in "indiwork" website  
<http://indiwork.co.kr/a-link-firmware-update-domestic/>

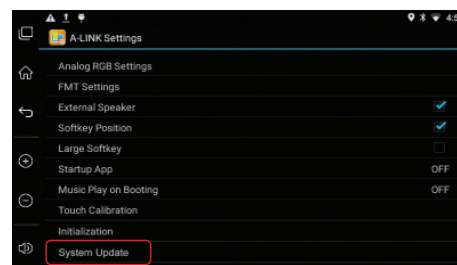
2. Copy the '**system\_a50**' folder to the root of the SD card



3. Insert SD card and run "**Device Settings**" app



4. Enter system update



## Another way to firmware upgrade

3. Press holding reset button and connect power connct
4. It will be firmware automatically

**\* Never turn off the power during the update. If problems occur, please turn off the power and proceed with the update again.**

www.**INDIWORK**.co.kr

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