

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)

Contents

- **Precautions** _____ 
- **Car Compatibility Chart** _____ 
- **Dimension & Exterior** _____ 
- **Components & Optional Parts** _____ 
- **Body Connector specifications** _____ 
- **Body Connector specifications** _____ 
- **Full Installation Diagram** _____ 
- **DIP Switch Settings** _____ 
- **Activation by original buttons** _____ 
- **Resistor Touch Calibration** _____ 
- **Capacitive Touch Setting** _____ 
- **Firmware Upgrade** _____ 

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.

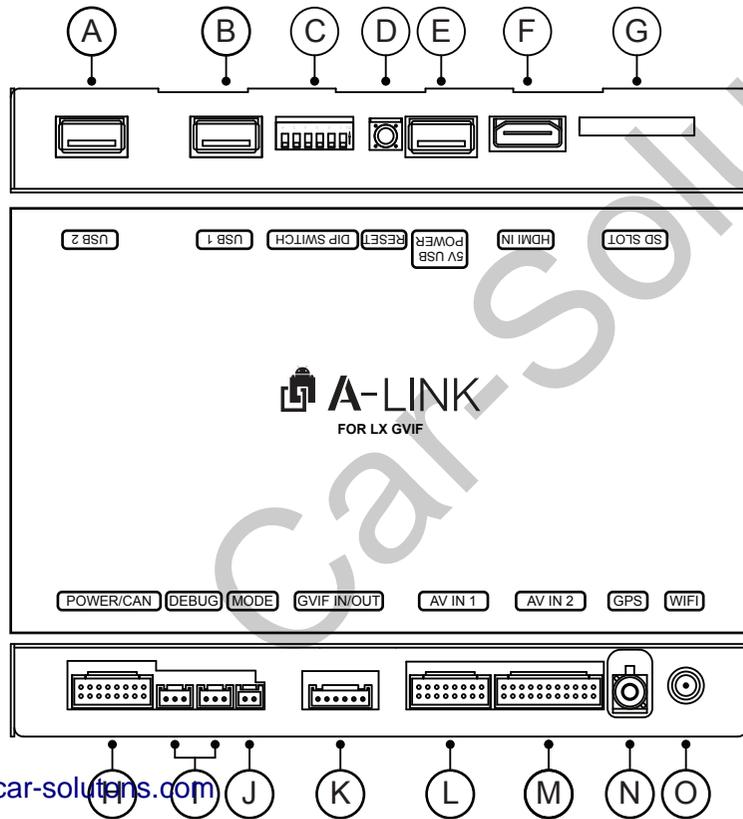
Generally, '5V 1A Power output(5V USB POWER)' is a standard voltage for charging smartphone. If you need higher voltage than 5V, you should add a separate power supply.

- 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.

Dimension



Exterior



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

Components



Power Cable



GVIF Cable



AV 1 Cable



AV 2 Cable



RES Touch Cable



CAP Touch Cable



MIC



External Speaker



External GPS Antenna



HDMI Cable



IR IN Sensor



KEYPAD For setup



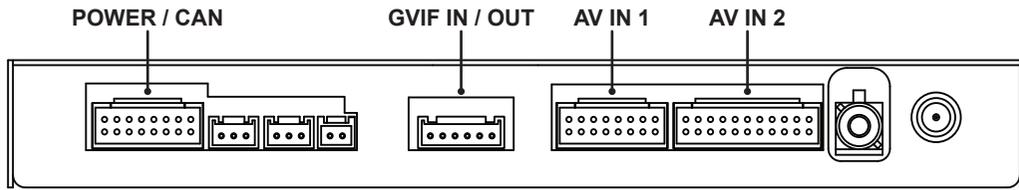
Brackets



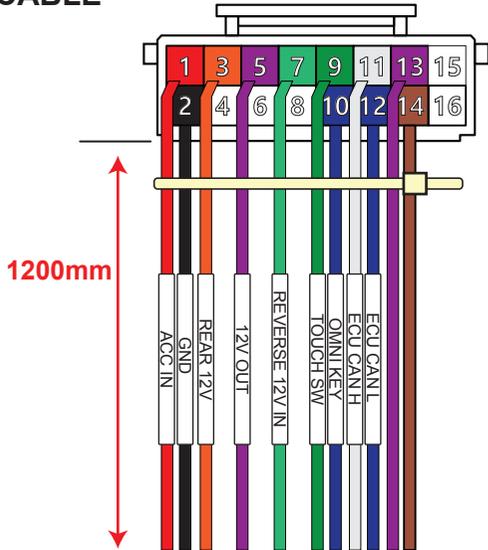
WIFI Antenna

Optional Parts (sold separately at the indiwork)

Body Connector specifications



POWER / CAN CABLE



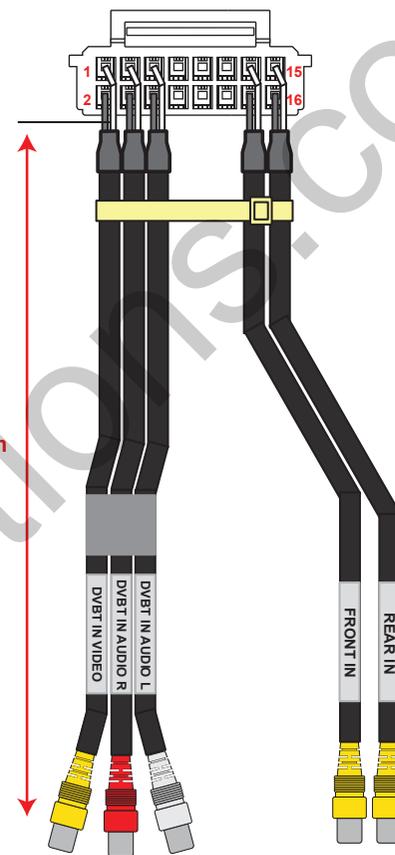
1	ACC INPUT	2	GROUND INPUT
3	RV-CAM POWER OUT	4	
5	12V(ACC) OUT	6	
7	REVERSE DETECTION	8	
9	TOUCH SW	10	OMNI KEY
11	ECU CAN HIGH	11	ECU CAN LOW
13		12	
15		14	

GVIF CABLE



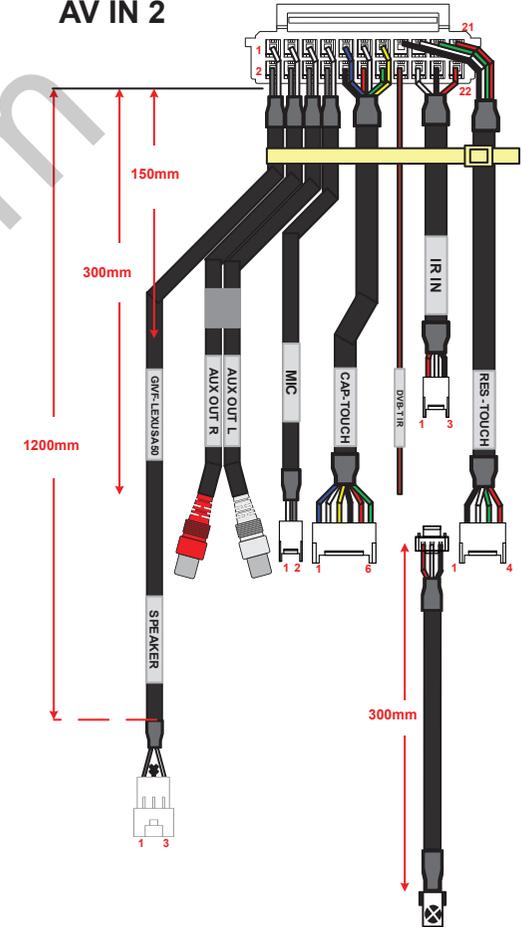
1	GROUND
2	GVIF IN +
3	GVIF IN -
4	GROUND
5	GVIF OUT +
6	GVIF -

AV IN 1



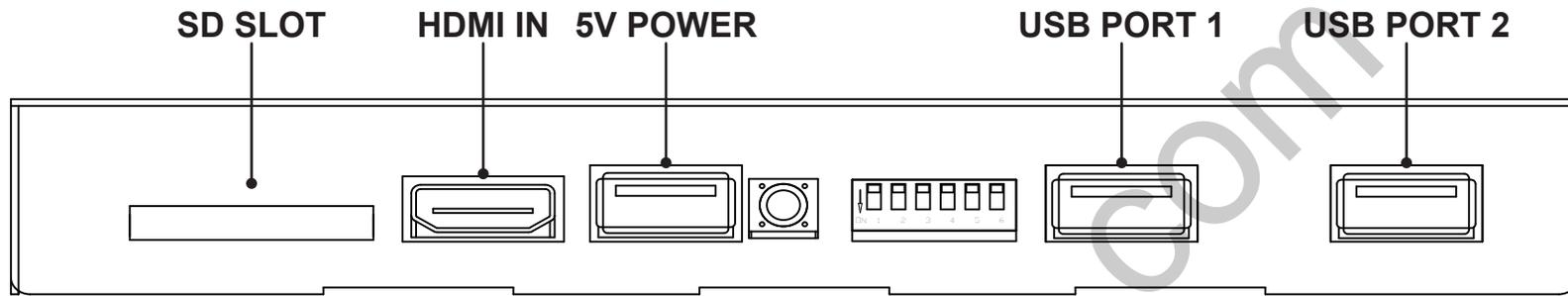
1	DVB_IN_V	2	GND
3	DVB_IN_R	4	GND
5	DVB_IN_L	6	GND
7	N.C.	8	N.C.
9	N.C.	10	N.C.
11	N.C.	12	N.C.
13	FRONT_IN	14	GND
15	REAR_IN	16	GND

AV IN 2

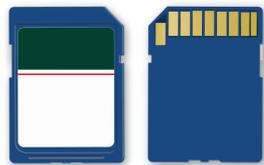


1	SPK +	2	SPK -
3	AUX_OUT_R	4	AUX_GND
5	AUX_OUT_L	6	AUX_GND
7	MIC +	8	MIC -
9	CAP_SCL	10	CAP_GND
11	CAP_SDA	12	CAP_VDD_3.3V
13	CAP_INT	14	CAP_RST
15	TOUCH_X-	16	DVB_T_IR
17	TOUCH_Y-	18	N.C.
19	TOUCH_X+	20	N.C.
21	TOUCH_Y+	22	N.C.

Body Connector specifications



SD CARD



Compatibility Spec

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

HDMI DEVICE



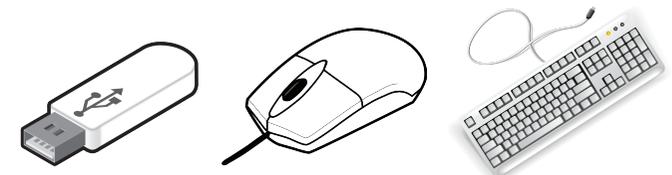
Compatibility Resolution

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



Does NOT External Storage

USB DEVICE

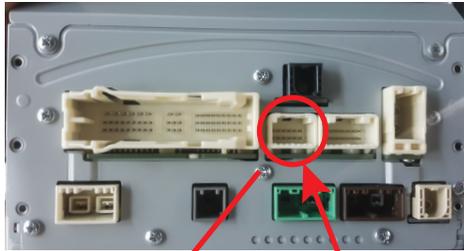


USB2.0 Port

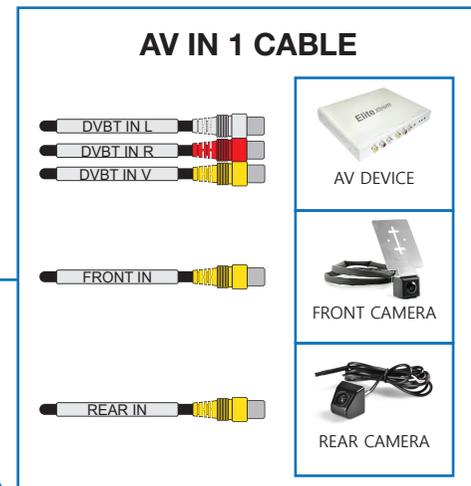
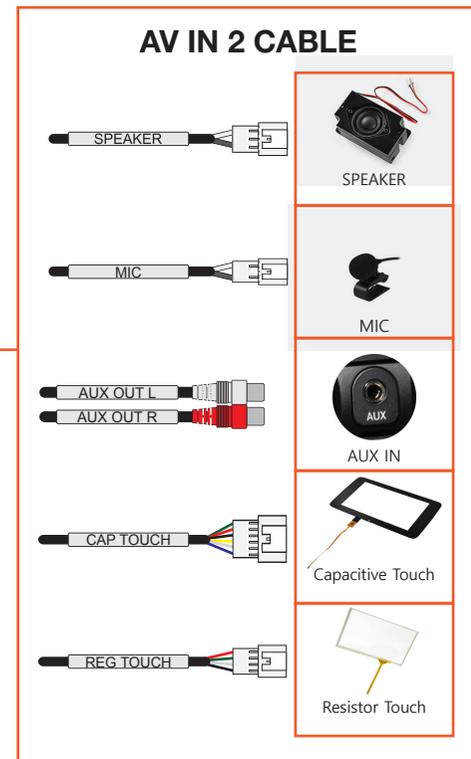
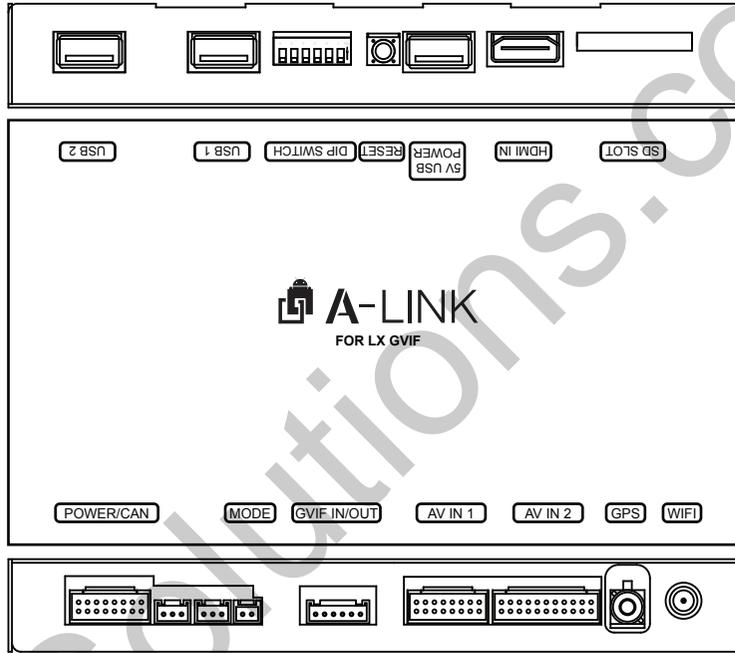
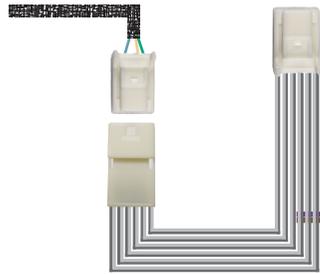
Full Installation Diagram

Click
Go to contents page

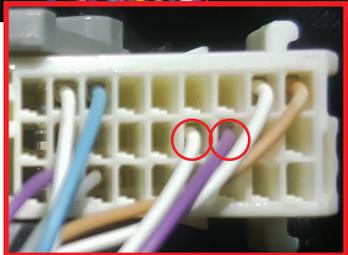
OEM HEAD UNIT



GVIF OUT CABLE



Original Main-Harness

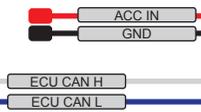


* It might be colors different

support@car-solutions.com
(White) CAN LOW = # PIN

12V OUT (ACC 12V OUT)
Rear 12V
12V POWER OUT FOR BACKUP CAMERA
Reverse 12V IN
Reverse Signal Detection

KEYPAD



GVIF OUT CABLE

GVIF IN CABLE



DIP Switch Settings



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

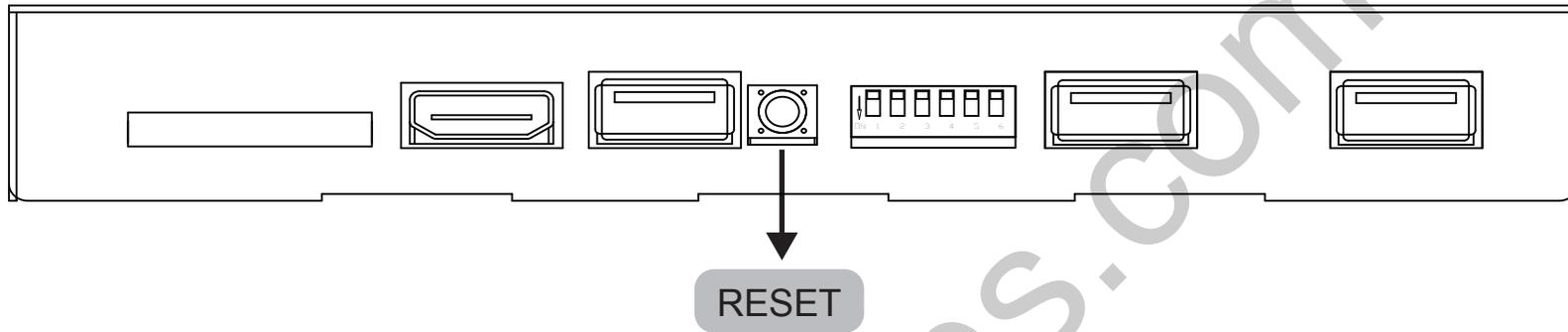
Activation by original buttons



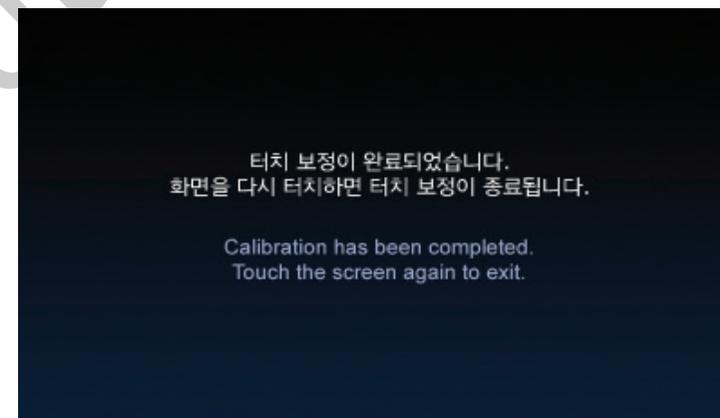
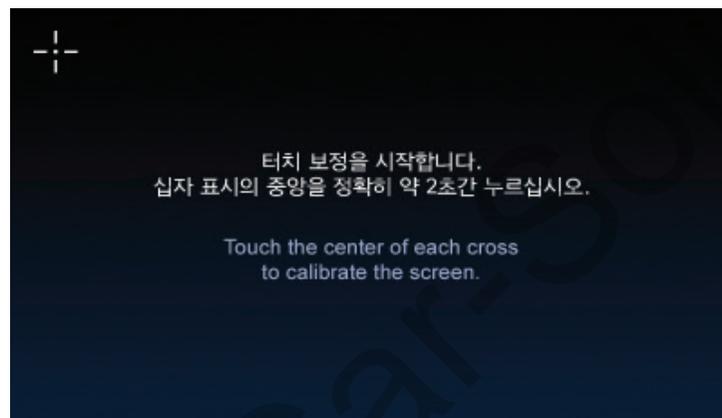
LEXUS OEM BUTTONS

Button	Function	Operation	Remarks
1 MAP	Changing Modes	Press the button 2 seconds	Order : A-LINK → OEM
2 BACK	A-LINK Back/Cancel	Press the button short time	A-LINK back / cancel function
3 4 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
5 MOUSE	A-LINK MOUSE	Used like computer mouse	

Resistor Touch Calibration



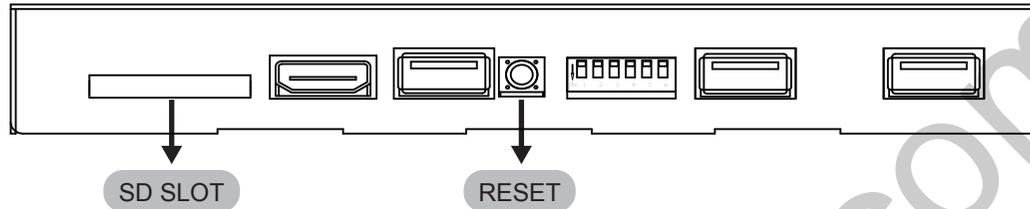
- ※ **Pressing the reset button 2 seconds to enter the touch screen calibration**
- ※ **If it impossible case. connect your mouse to the USB1, 2 port of the A-LINK and use it.**



Press and hold the crosshair to moves to the next.

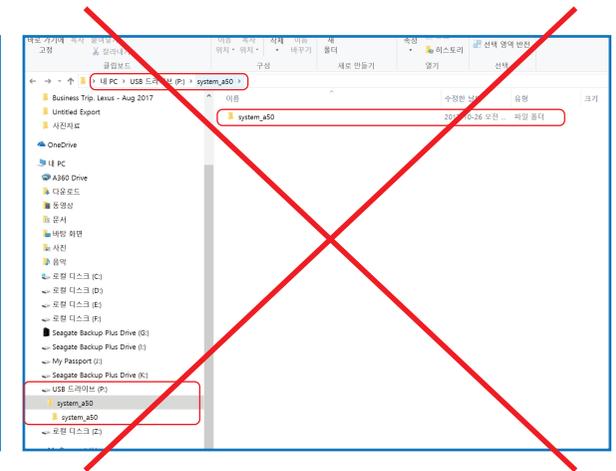
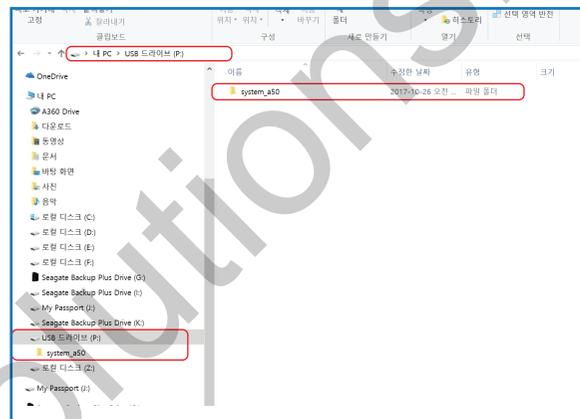
*** Capacitive touch does not need the touch calibration.**

Firmware Upgrade



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

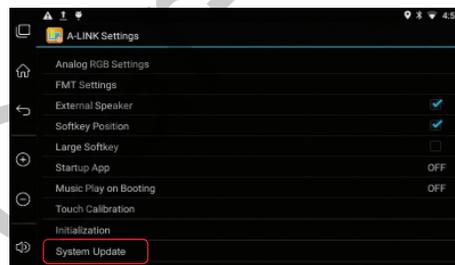
2. Copy the 'system_a50' folder to the root of the SD card



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.
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