

User Manual



A-LINK

ANDROID CAR SOLUTION



How To Use A-LINK Launcher

01. Main Screen



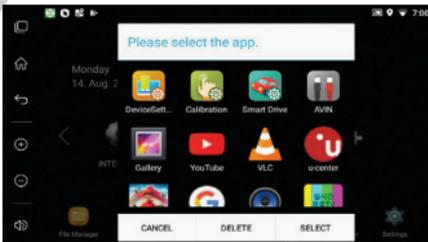
- ① Status alert bar.
- ② Quick navigation bar.
 - ② - ① (Recent App) : User can see running applications and manage them.
 - ② - ② (Home Key) : Back to Home screen.
 - ② - ③ (Back) : Go to the previous step.
 - ② - ④ (Zoom) : Zoom in the map.
 - ② - ⑤ (Zoom out) : Zoom out the map.
 - ② - ⑥ (Sound setting) : Turn up and turn down the volume.
- ③ Automatically displays the logo of each vehicle. If it does not have a logo, basic is the Android logo.
- ④ Displays the current date and day of the week, and time.
- ⑤ Displays the current weather through graphic.
- ⑥ Main Icon : Basically there are 8 icons (applications) on the main screen of A-LINK. User can change preferred applications for these icons.
- ⑦ User can put favorite applications to launch quickly.
- ⑧ App Drawer : See all applications in the system.

* If press the button 2sec over. The external speaker will be on/off.
* Drag the any screen →. (Back) : Go to the previous step.

02. Replace The Main Apps

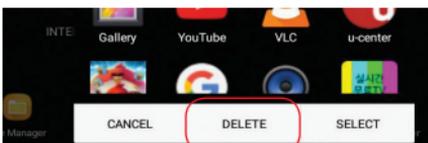


1. Long press your desired app in app drawer.



2. App selection window

- ① The window for selecting an app appears.
- ② Choose one icon of main icon that your target app wants to be linked with.
- ③ Press "SELECT" button to save your app to main screen.



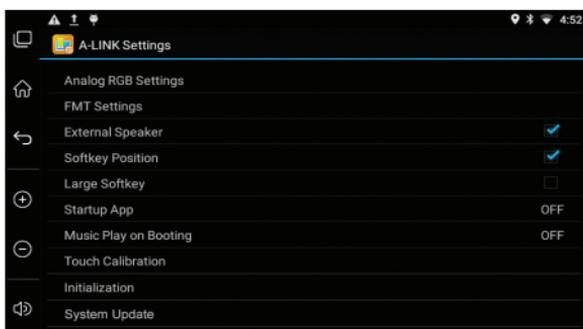
3. Favorite Apps icon removal

- ① Long press one of target icon, then the app change window appears.
- ② Press "DELETE" button.

Device Settings

01. Main Screen

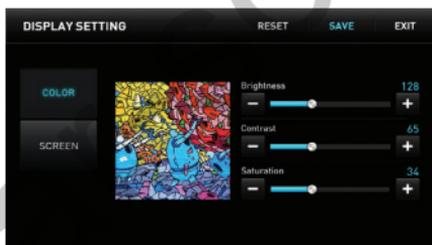
This is the setting menu for a comfortable use of the A-LINK.



- **Analog RGB Setting** : Adjust the screen size and position of RGB 800x480 or 480x234. (The RGB setting should not be reflected to LVDS.)
- **FMT Setting** : Set the FM frequency for outputting sound.
- **External Speaker** : Turn on or off the sound output of the external speaker.
- **Softkey Position** : Change the location of the home menu button to the left or right.
- **Large Softkey** : Change the size of the home button area.
- **Startup App** : Choose the App that want to start at boot time.
- **Touch Calibration** : Start the adjustment for the resistor touch. (* Capacitive touch does not need the touch calibration.)
- **Set User Boot Logo** : Change the boot logo (BMP / 800x480 size).
- **Initialization** : Initializes the setting value.

02. Analog RGB Settings

Change the color options and set the size and location to fit on screen of the RGB.



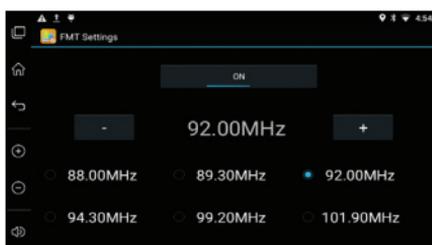
1. COLOR

You can adjust all functions and all setting values like brightness, screen color, position & size.



2. SCREEN

03. FMT Settings

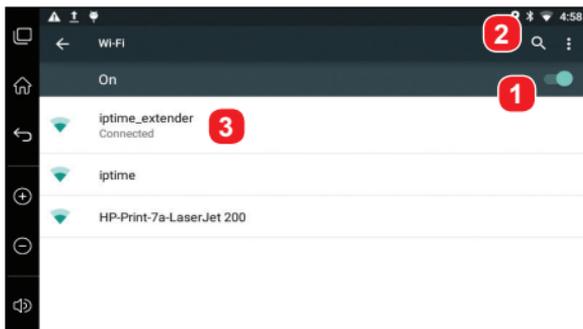


You can turn on or turn off the FM Transmitter.

And, select an FM frequency for output. you can change the FM frequency using the buttons by 0.05Mhz units.

How To Connect To WIFI

A-LINK gets Internet via Wi-Fi dongle from Wi-Fi AP or Mobile Hot Spot.

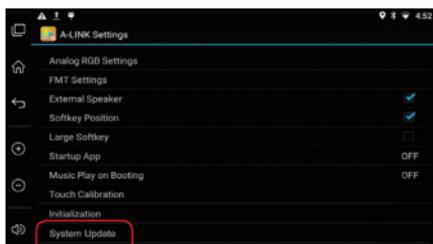


① **Wi-Fi ON/OFF**

② **Reload** : Wi-Fi Network search.

③ **Connected** : Shows currently connected Wi-Fi network, with long press, user can see the status.

How To Use A-LINK Launcher

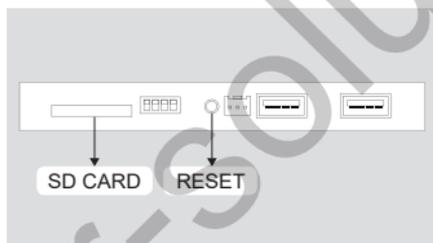


1. A-LINK Setting App

① Copy the '**system_a50**' folder to the root of the SD card.

② Select the '**setting > system update**', and press the OK button.

③ After, Enter to screen that to update the firmware.



2. 02. A-LINK Body

① Copy the '**system_a50**' folder to the root of the SD card.

② Turn on the **power** while pressing the '**Reset**' key of A-LINK.

③ After, Enter to screen that to update the firmware.



* After the firmware update is completed, the system will be rebooted. (It will be take 3minutes.)

* The '**partmap.txt / boot.img / root.img**' files are contained in the '**/sdcard/system_a50**' folder.

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

* After completing the update, **please delete** the '**system_a50**' folder not to do update again.

* You can download the update file from the official website.

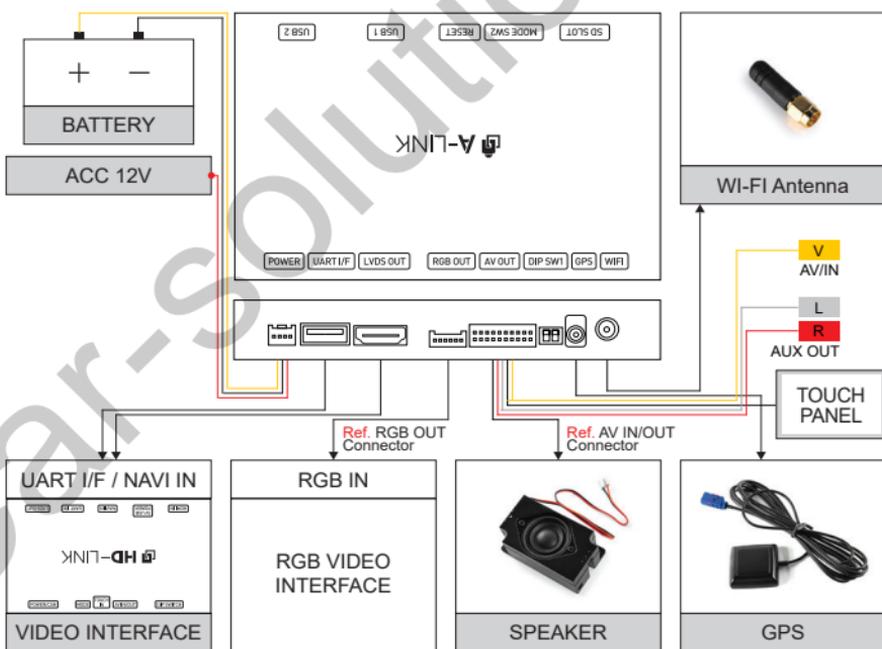
support@car-solutions.com

www.car-solutions.com

Precautions

- ① This product is assistive devices that help the driving safely. Do not drive by rely solely on this product.
- ② 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.
- ③ GPS Satellite reception may be unstable in a particular area or some vehicles that have the special tinted windows and electromagnetic interference.
- ④ Please read the manual prudently before using this product. And then use this product correctly.
- ⑤ Please make sure to follow all instruction from manual.
- ⑥ To avoid any risk of electric shock or other injuries, please never disassemble and reassemble this product.
- ⑦ Never feed power to other electronic products by cutting the insulation of the power supply lead of this product and tapping into the lead. The current capacity of the lead will be exceeded, causing overheating.
- ⑧ 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.
- ⑨ 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.
- ⑩ 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. Failure to do so may result in an accident.
- ⑪ Please remember to wear your seat belt at all the times while operating your vehicle. If you are in an accident, your injuries can be considerably more severe if your seat belt is not properly buckled.
- ⑫ Company can not be held responsible for incidental damages of the driver caused as a result of using the product.

Full Connection Diagram



- USB1 and USB2 port is supports external keyboard and mouse.
- Do not connect the external hard drive to the USB1 and USB2 port.
- Press the reset button briefly to enter the touch screen calibration.
- Press and hold the reset button for more than 5 seconds. The unit will be rebooted.
- The LVDS OUT video output is using the HDMI terminal. But, it is not the HDMI output.
- UART USB connection is only compatible with the HD-LINK interface for the smart drive function.
- You should check the names and colors of each wires exactly, before you connect the wires.
- The product should be powered off before unplugging the HDMI cable.

Pin Assignment - 01. Power Connector



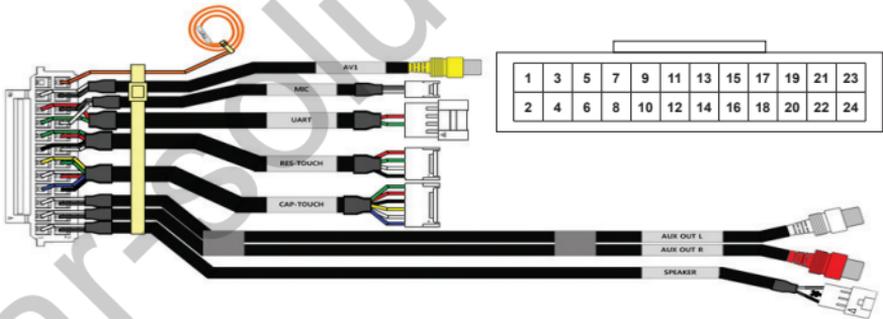
1	BAT(Battery Power)	3	HD-LINK ACC 12V IN
2	GND		

Pin Assignment - 02. RGB OUT Connector



1	Red	5	GND
2	Green	6	NC
3	Blue	7	NC
4	C-Sync		

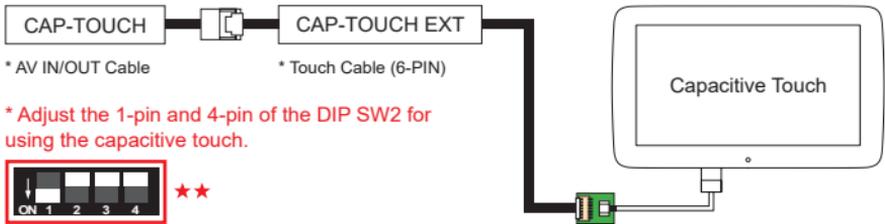
Pin Assignment - 03. AV IN/OUT Connector



1	Speaker +	2	Speaker -
3	AUX OUT R	4	GND
5	AUX OUT L	6	GND
7	Capacitive Touch SCL	8	GND
9	Capacitive Touch SDA	10	Capacitive Touch 3.3V
11	Capacitive Touch Interrupt	12	Capacitive Touch Reset
13	Touch X-	14	Touch Y-
15	Touch X+	16	Touch Y+
17	UART TX	18	MIC +
19	UART RX	20	MIC -
21	AVIN	22	GND
23	NC	24	FMT ANTENNA

Touch Panel Connection

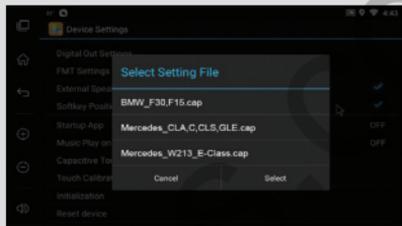
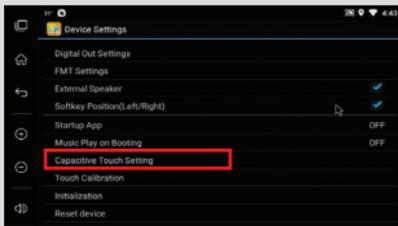
01. Capacitive Touch



Setting - Capacitive Touch

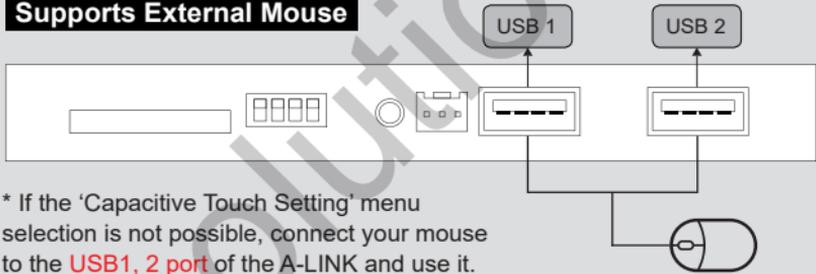


1. Enter the **Device Settings**.

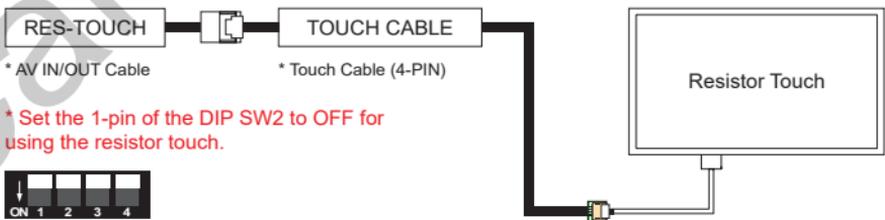


2. Enter the **Capacitive Touch Setting**. 3. Select the appropriate touch panel.

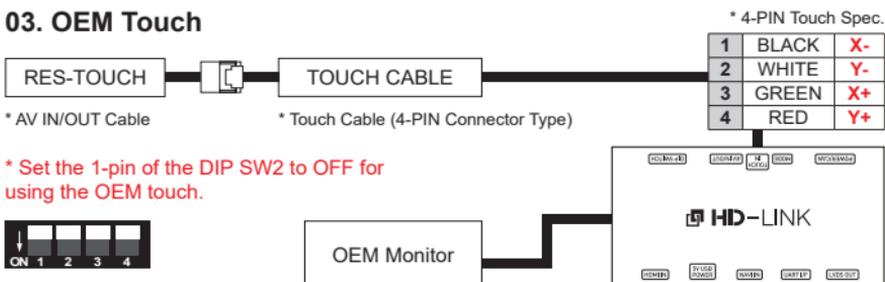
Supports External Mouse



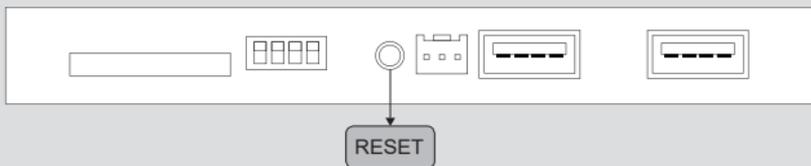
02. Resistor Touch



03. OEM Touch



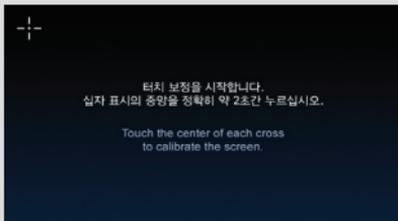
Calibration - Resistor / OEM Touch



※ Pressing the reset button briefly to enter the touch screen calibration.

After completion of the boot, press and hold the reset button for more than 5 seconds. The unit will be rebooted.

※ USB1 and USB2 port is supports external keyboard and mouse.



Press and hold the crosshair to moves to the next.



Press and hold the screen to shut down the screen.

* Capacitive touch does not need the touch calibration.

DIP S/W Setting - *ON : DOWN, OFF : UP



PIN	OFF	ON
1	Digital LVDS OUT	RGB OUT
2	GPS Fakra (Use The Original GPS Jack By Jack Cable (Option))	External GPS Antenna

PIN	OFF	ON
1	Resistor Touch, UART Touch	Capacitive Touch
2	RGB 800x480	RGB 480x234
3	NC	NC
4	NC	NC

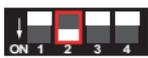
* Digital LVDS OUT is always output. But, only when the 1-pin of SW is OFF, the Digital LVDS OUT is output in normal sync timing.



* DIGITAL LVDS OUT 800x480 (RGB output cut off)



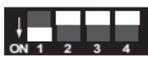
* RGB 800x480



* RGB 480x234



* UART or Resistor Touch



* Capacitive Touch - Normal (Need Touch Setting)



* GPS Fakra (Use The Original GPS Jack By Jack Cable (Option))



* External GPS Antenna

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
Size	146mm(W) x 88mm(H) x 23mm(D)