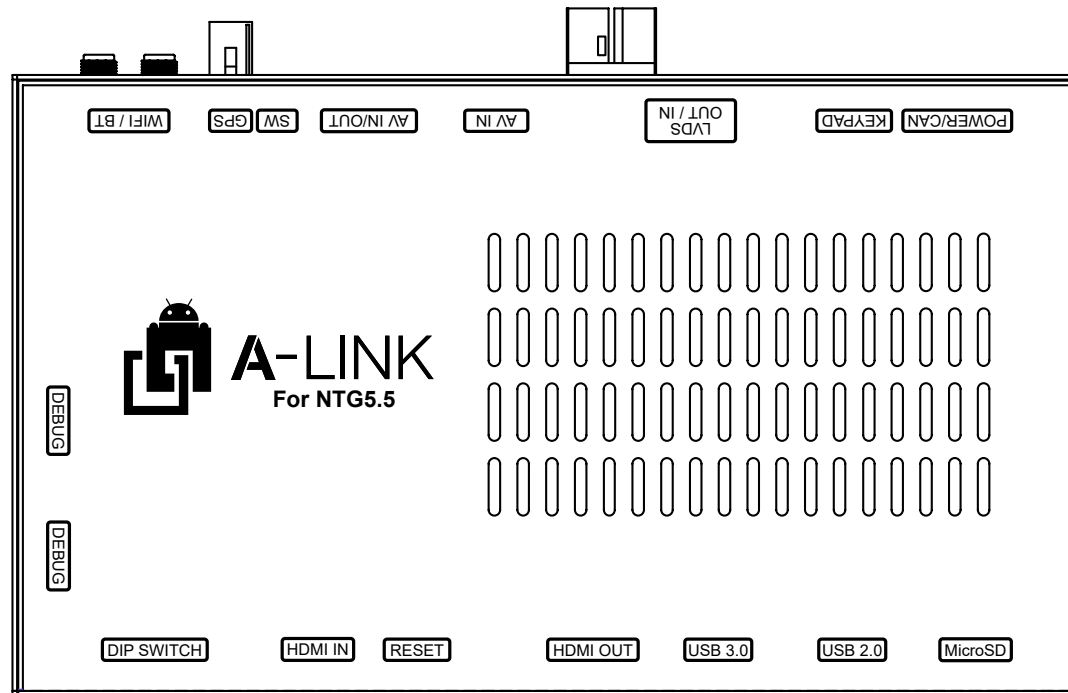


Instruction Manual

High-Definition Android System <All in One>

A-LINK HD for NTG5.5



Model Name	A-LINK for NTG55
Latest Firmware Date	2019 - 08 - 02
Manual Version	Rev. 1.2
Language	English

Main Specifications

OS	Android 7.1.2(Nougat)
CPU	Six-Core 64bit Server Class Cortex-A72 Core @2.0Ghz, Mali-T860 Quad-Core GPU (Total Ten-Core)
VPN	H.264/H.265/VP9 up to 4Kx2K@60fps (4K Video)
Memory	2GB DDR3
USB	USB2.0 High Speed Port
USB 3.0	USB3.0 5.0Gbps Port
Wireless	2.4GHz/5GHz Dual-Band WiFi, Support 802.11a/b/g/n/ac, Bluetooth 4.1
GPS	Ublox8 GPS (GLONASS/BEIDOU/GALILEO/QZSS/SBAS)
Touch	Capacitive touch
LVDS OUT	1280x720 video IN -> Digital 800x480 LVDS OUT (LVDS Scale adjustment)
HDMI IN	DC 12V ~ 24V
HDMI OUT	HDMI 2.0, Support maximum 4K@60Hz display
Speaker	2W
I / O	Stereo Audio Out, Mic (voice recognition), CVBS Out(On LVDS Out)
Input Power	DC 8V ~ 24V
Temperature	-20°C ~ 80°C
Operationg	-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 thecaused by natural disasters.

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

Contents

- Precautions _____ 
- Car Compatibility Char _____ 
- Dimension & Exterior _____ 
- Components & Optional Parts _____ 
- Body Connector specifications _____ 
- Body Connector specifications _____ 
- Full Installation Diagram _____ 
- DIP Switch Settings _____ 
- Activation by original buttons _____ 
- Android Control with original buttons _____ 
- DVB-T, DVD Connection Diagram _____ 
- How to use Launcher and Device Setting _____ 
- Android Firmware _____ 
- Recovery Android Software _____ 
- Settings (How To Use KEYPAD) _____ 
- Settings HDMI _____ 
- Settings HDMI, NAVIGATION _____ 
- Settings REAR VIEW _____ 
- Settings REAR VIEW _____ 
- Settings FRONT VIEW (OEM Camera delay time setting) _____ 
- Settings DVB-T , DVD _____ 

Precautions

▪ A-LINK for NTG55 - 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

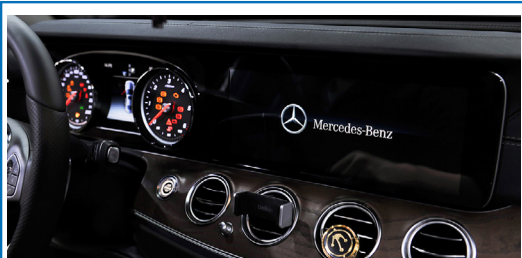
The 'POWER / CAN Cable' should always be connected last and be disconnected first.

When the reverse gear is not detected by CAN-BUS,
the 'REVERSE 12V IN wire' should be spliced with 12V power of reverse light.

- 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

Car Models	Specific Models	Production Year	Specific Models	Screen Size
E-CLASS	W213	2016 -	- Comand APS NTG 5.5	12.3 inch
				8.4 inch
CLS-CLASS	C257	2018 -	- Comand APS NTG 5.5	12.3 inch
S-CLASS (facelift)	W222	2018 -	- Comand APS NTG 5.5	12.3 inch
G-CLASS	W463	2018 -	- Comand APS NTG 5.5	12.3 inch



Mercedes NTG5.5 <12.3 inch>



Mercedes NTG5.5 <12.3 inch>



E-Class



2019 CLS-Class



2019 S-Class
*facelift

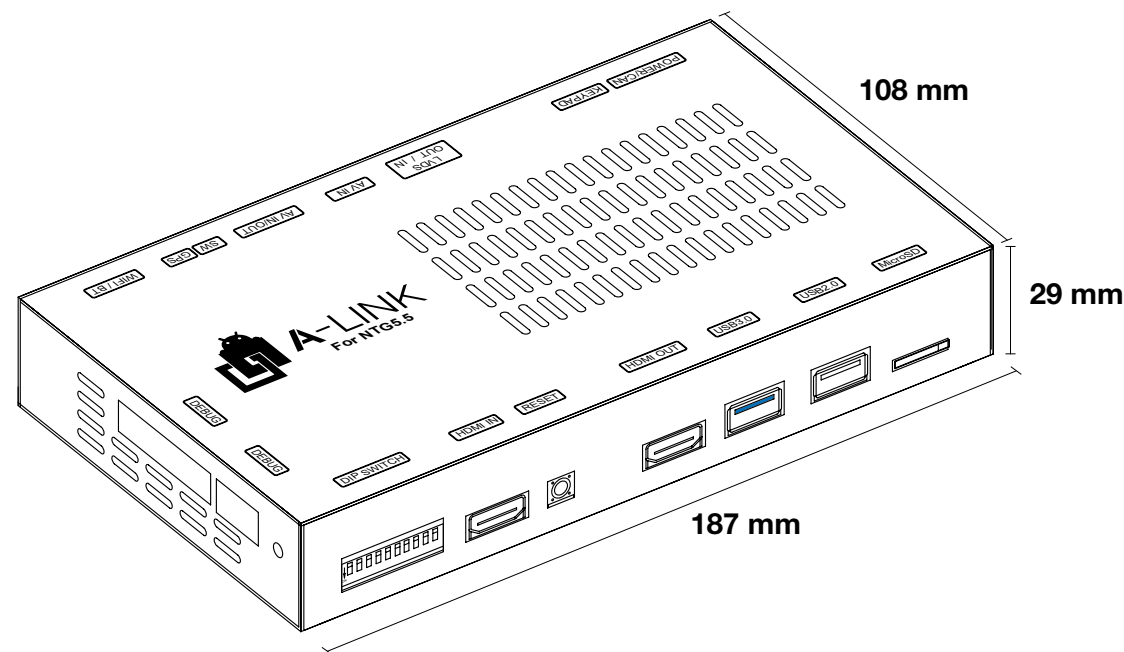


2019 G-Class

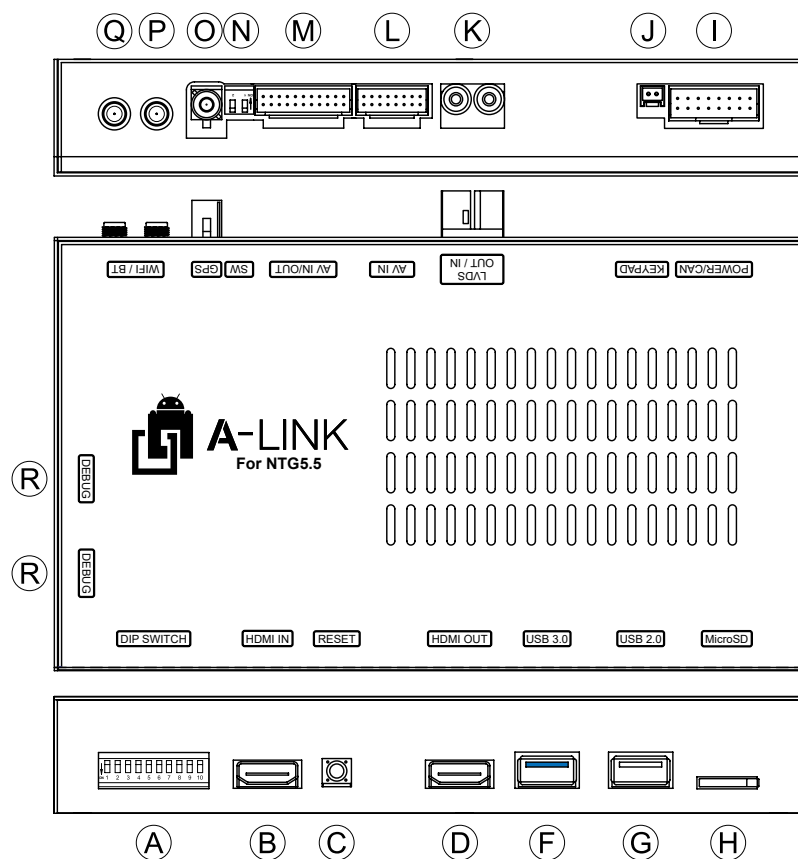


Click
Go to contents page

Dimension



Exterior



- | | |
|----------------|-----------------|
| (A) DIP SWITCH | (I) POWER / CAN |
| (B) HDMI IN | (J) KEYPAD |
| (C) RESET | (K) LVDS IN/OUT |
| (D) HDMI OUT | (L) AV IN |
| (F) USB 3.0 | (M) AV IN/OUT |
| (G) USB 2.0 | (N) SW |
| (H) Micro SD | (O) GPS |
| | (P) WIFI |
| | (Q) BLUETOOTH |

Components



1. Quadlock Harness



2. Main Power Cable



3. LVDS Cable



4. AV IN / OUT Cable



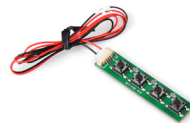
5. AV Cable



6. Capacitive Touch Cable



7. External GPS



8. KEYPAD



9. MicroPhone



10. IR Sensor



11. BT / WIFI Antenna

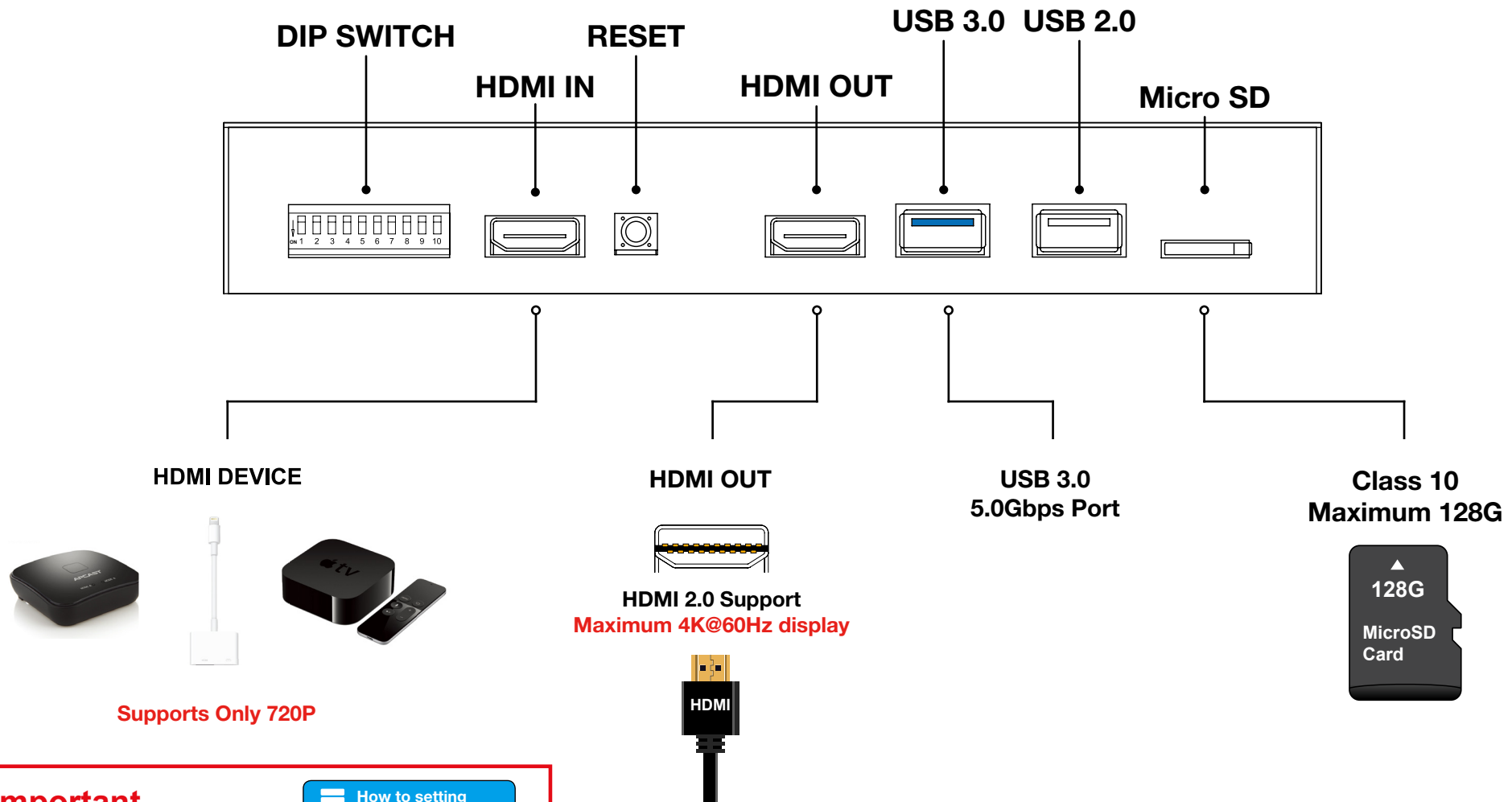


12. External Speaker



13. Brackets

Body Connector specifications



Important

Using for "HDMI" port should be select
"Input Device Model" in setting menu

If it does not selected input device model
The screen might be able to white, black screen(not working)



How to setting
HDMI Input Device



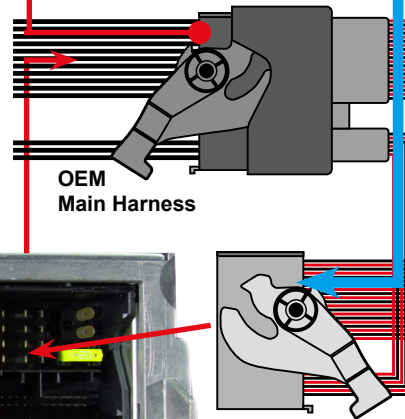
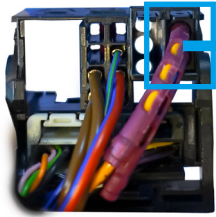
Click
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Full Installation Diagram

Click
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Important
If there is Optical harness
It should be moved to
provided main connector

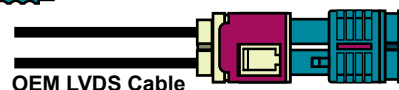


OEM
Main Harness

GPS FAKRA

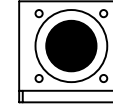


LVDS Cable

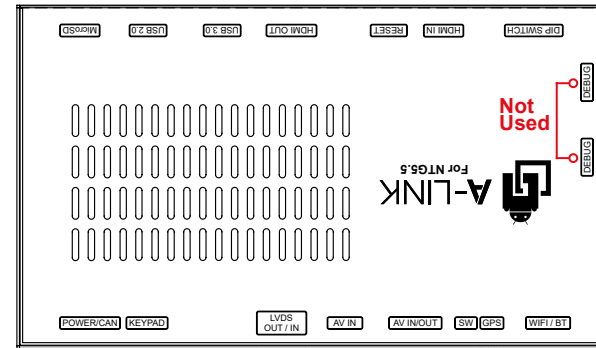


OEM LVDS Cable

Reset Switch

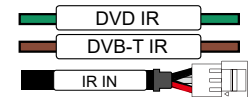
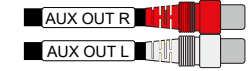


Operation	Operation
Press Shot time 1 seconds	Start the Touch Calibration
Press Long time 5 seconds	Restart the Device

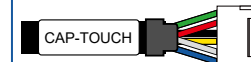


Not
Used

AV IN/OUT Port



How to Wire & Setting
DVD,DTB-TV Remote controller



How to setting
Capacitive touch



Microphone



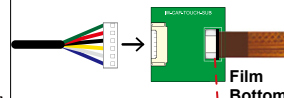
External Speake



Microphone



DVB-T , DVD



Film
Bottom



Capacitive Touch

AV IN Port



DTV and DVD



Front Camera



Rear Camera

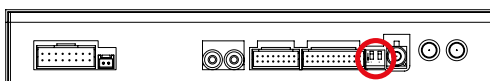
DIP Switch Settings



PIN	ON (▼)	OFF(▲)
1	HDMI Mode	Skip HDMI Mode
2	External Rear View Camera	Original Rear View Mode (OEM CAMERA)
3	External Front View Camera(AV1 Mode)	Skip External Front View Camera(AV1 Mode)
4	DVB-T Mode	Skip DVB-T Mode
5	DVD Mode	Skip DVD Mode
6	Not Using Control Android by Original Buttons (Only Touch Panel)	Using Control Android by Original Buttons
7	Select car model	
8		
9		
10		

No.7	No.8	No.9	No.10	Car Model	Code Name	Screen Size
OFF(▲)	OFF(▲)	OFF(▲)	OFF(▲)	E-Class	W213	12.3 inch
				CLS-Class	C257	
				S-Class *facelift	W222	
				G-Class	W463	
OFF(▲)	OFF(▲)	OFF(▲)	ON(▼)	E-Class	W213	8.4 inch

DIP Switch Settings



PIN	ON (▼)	OFF(▲)
1	Not Used (default "OFF")	
2	Not Used (default "ON")	



Important DIP Switch No.6 "OFF"



If the DIP Switch "No.6" is setted to "OFF"



Very Sometimes. The OEM system(OEM radio) will be Shutdown (Black screen and Warring message in Instrument Cluster panel <EX : "Active Parking assistant and PARKTRONIC Does not work">)

If you are **can not accept it problem**. Please. turn ON the DIP Switch to "**No.6 ON**"

Of Course.
If the driver press the button radio power ON/OFF

The OEM system will be restarted and working. Come back to normal

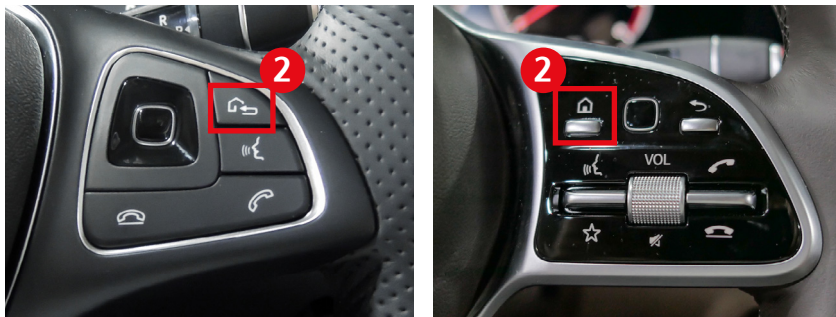
Activation by original buttons



Mercedes NTG5.5 Controller



Mercedes NTG5.5 Radio Buttons



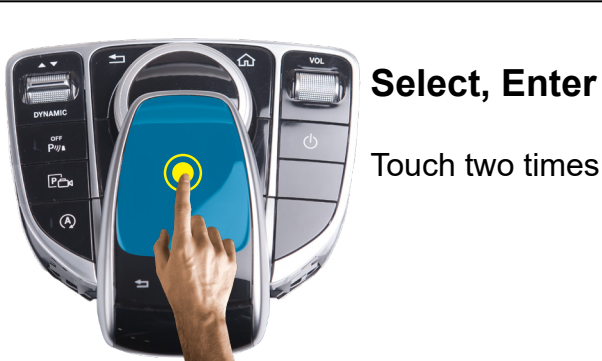
W213 Steering Wheel Buttons

Button	Function	Operation	Remarks
1 MODE	Changing Modes	Press the button 2 seconds	Order : Android → HDMI → DVB-T → DVD → OEM
		Press the button 2 seconds	Return to the OEM mode in any modes.
2 MODE	Changing Modes (Front Cam)	Press the button 2 seconds	Order : AV1 (Front View Camera)
		Press the button short time	Order : AV1 → Previous screen
1 MODE	Reset	Press the button 10 seconds	You can use this function when you get in trouble

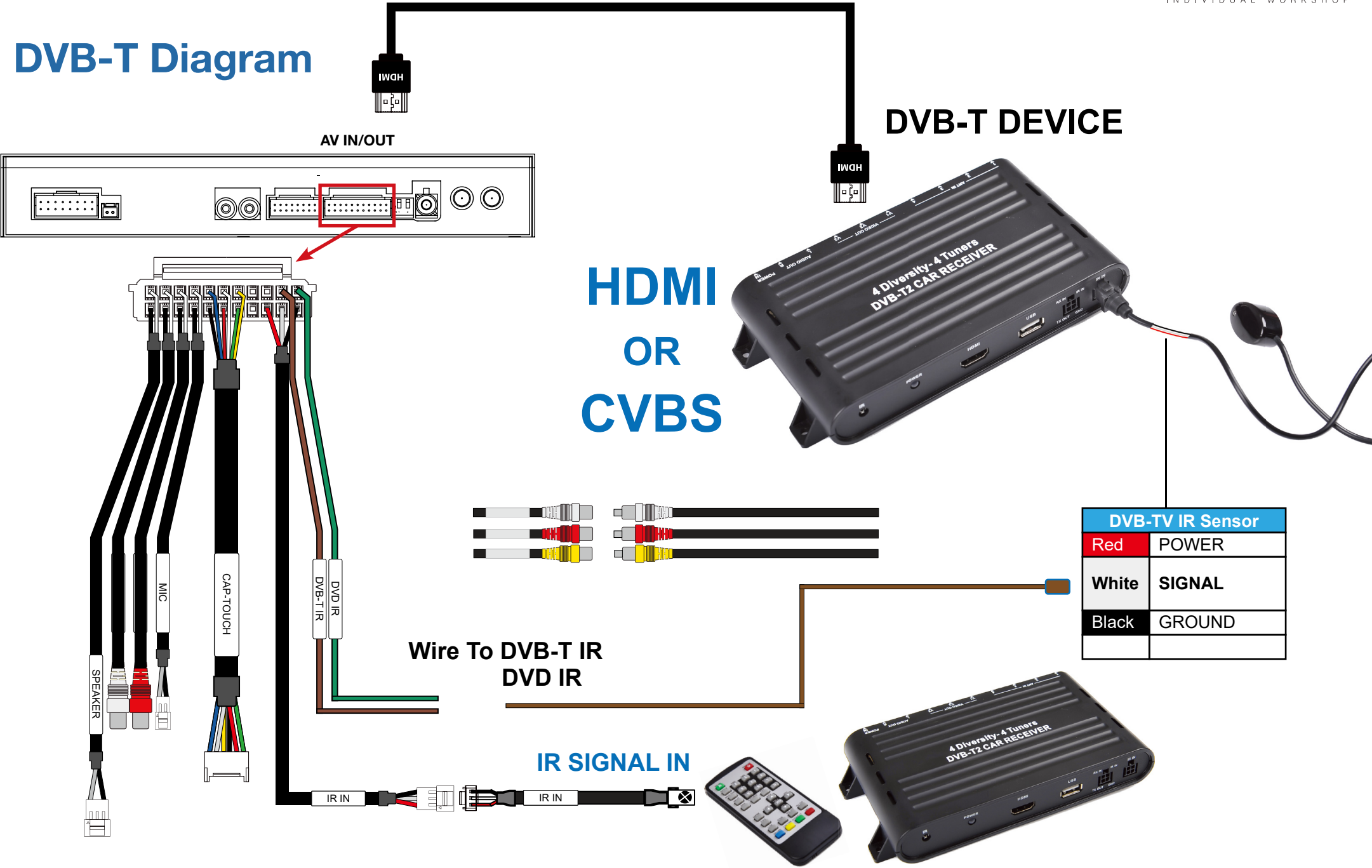
Activation by original buttons



Button	Operation	Function
1 Back	Press the button shot time	Back to previous menu
2 Home	Press the button shot time	Back to Home Main page
3 Back	Press the button shot time	Back to previous menu
	Press the button 2 seconds	Google assistant "OK Google"
4 Next Track	Press the button shot time	Task-Manager
	Press the button 2 seconds	Picture In Picture "PIP"
5 Home	Press the button shot time	Back to Home Main page
Dial	Turn the dial Left, Right	Move Left,Right
7 8 Dial	Move the dial Left or Right	Next or Previous page
9 10 Dial	Move the dial UP or Down	Move Up,Down
	Move the dial 2 seconds UP or Down	Zoom In, Zoom Out, (Should using in a GPS application)
Drag	Drag the Area	Back to previous menu

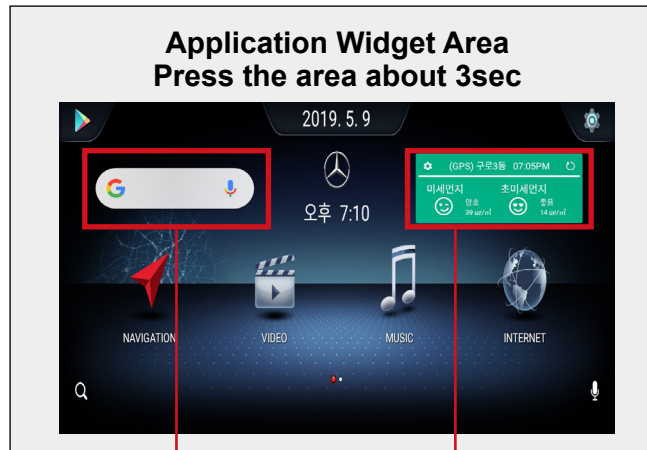


DVB-T Diagram

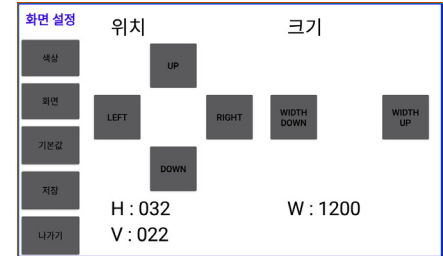


How to Use Launcher AND Device Setting APP

Click
Go to contents page

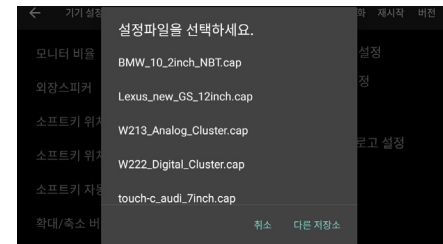


Digital Out Settings



Adjust the screen size and position and color

Capacitive Touch Setting



• W213_Analog_Cluster



• W222_Digital_Cluster



• 12.1inch Right_Driver's_Japan ver

Set User Boot Logo

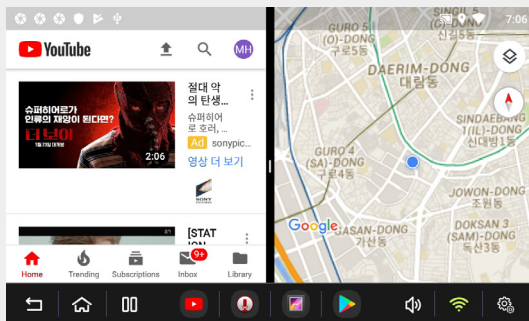
- File Format : PNG, JPG, BMP
- Image Size : 1280px X 720px

External Speaker ON / OFF



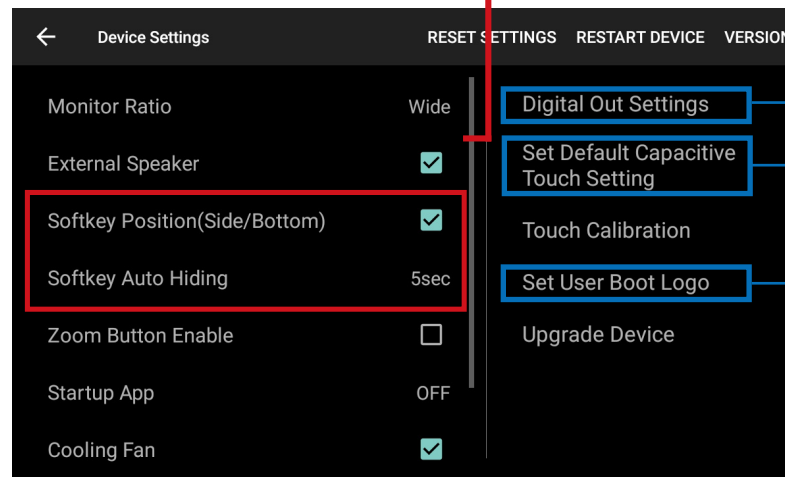
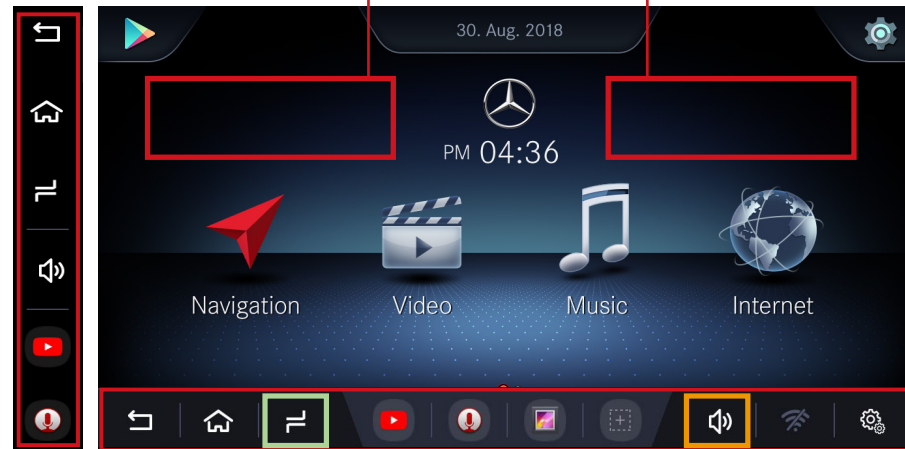
Press the Button 2sec

"PIP" Function



Press the Button 2sec

※ Some applications may not supports PIP function.

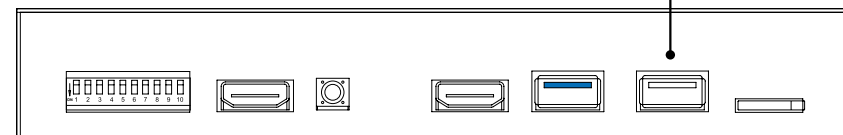


Android Firmware



Only USB2.0 port supports for Android Firmware

USB 2.0

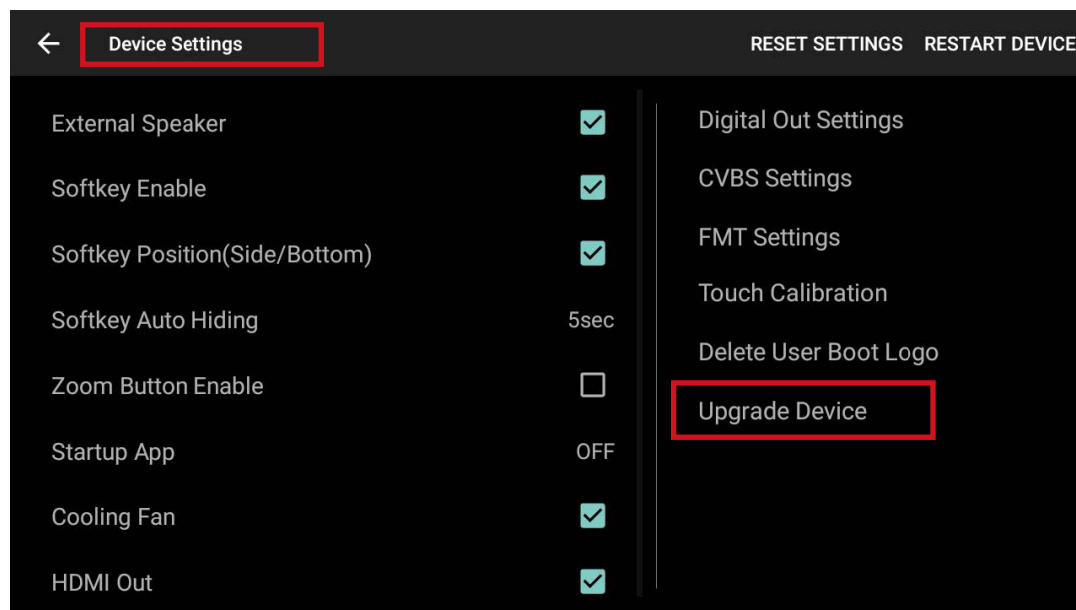
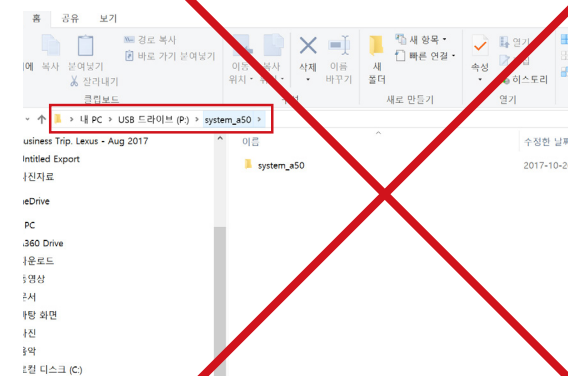
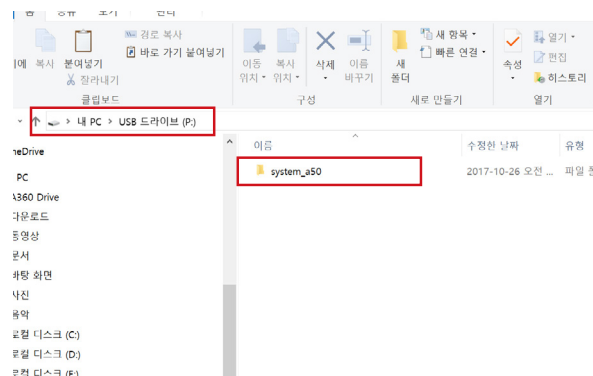


1. Download firmware in "indiwork" website

<http://indiwork.co.kr/a-link-firmware-update-international/>

2. Copy the "system_a10" folder to the sd card root directory

*** USB format type = FAT32**



A-LINK DEVICE SETTING

- Copy the 'system_a10' folder to the root of the SD card.
- Select the 'setting > system update', and press the OK button.
- After, Enter to screen that to update the firmware.

*** Update Time will 4~5 min, and first booting time will be 4~5 min.**
*** Should be factory reset. when it done firmware**

Recovery Android Software



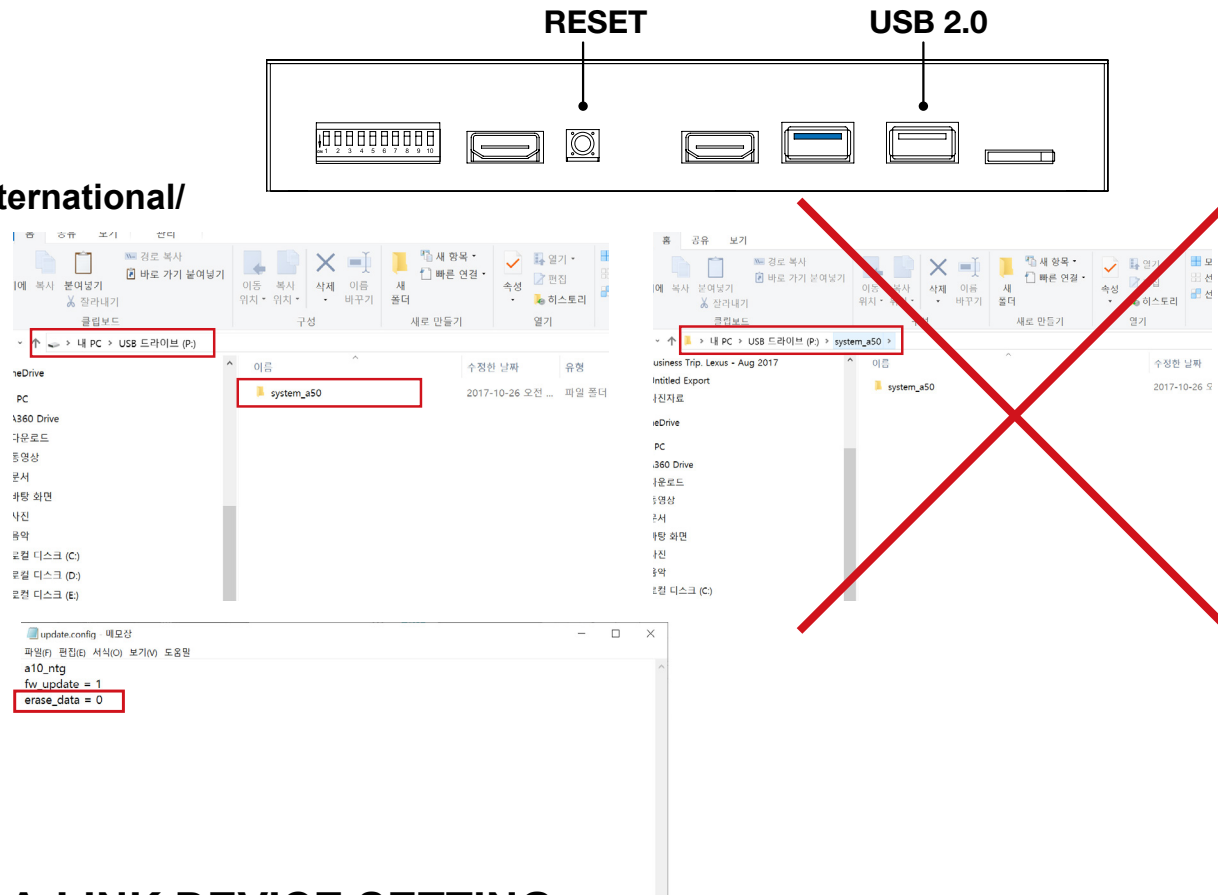
Only USB2.0 port supports for Recovery software

1. Download firmware in "indiwork" website

<http://indiwork.co.kr/a-link-firmware-update-international/>

2. Copy the "system_a10" folder to the sd card root directory

*** USB format type = FAT32**



3. OPEN file "update.config" with notepad

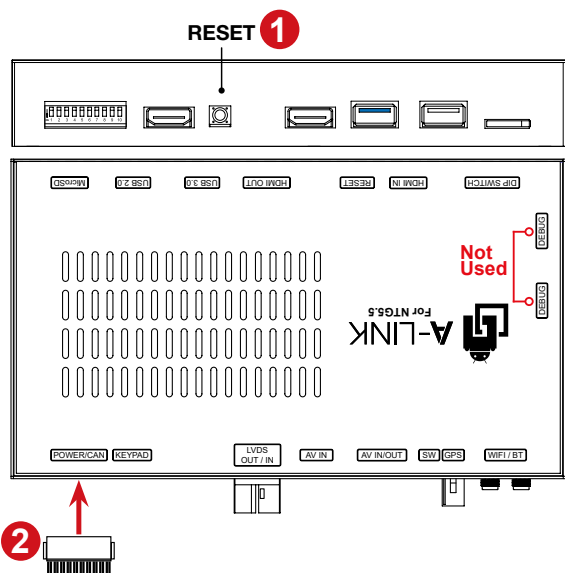
Change to text and Save

erase_data = 0 → erase_data = 1

A-LINK DEVICE SETTING

- Copy the "system_a10" folder to the sd card root directory
- Hold the "Recovery Key" button and Re-connect power cable in the same time

- * Update Time will 4~5 min, and first booting time will be 4~5 min.**
- * Should be factory reset. when it done firmware**



Settings (How To Use KEYPAD)

KEYPAD - Function #1

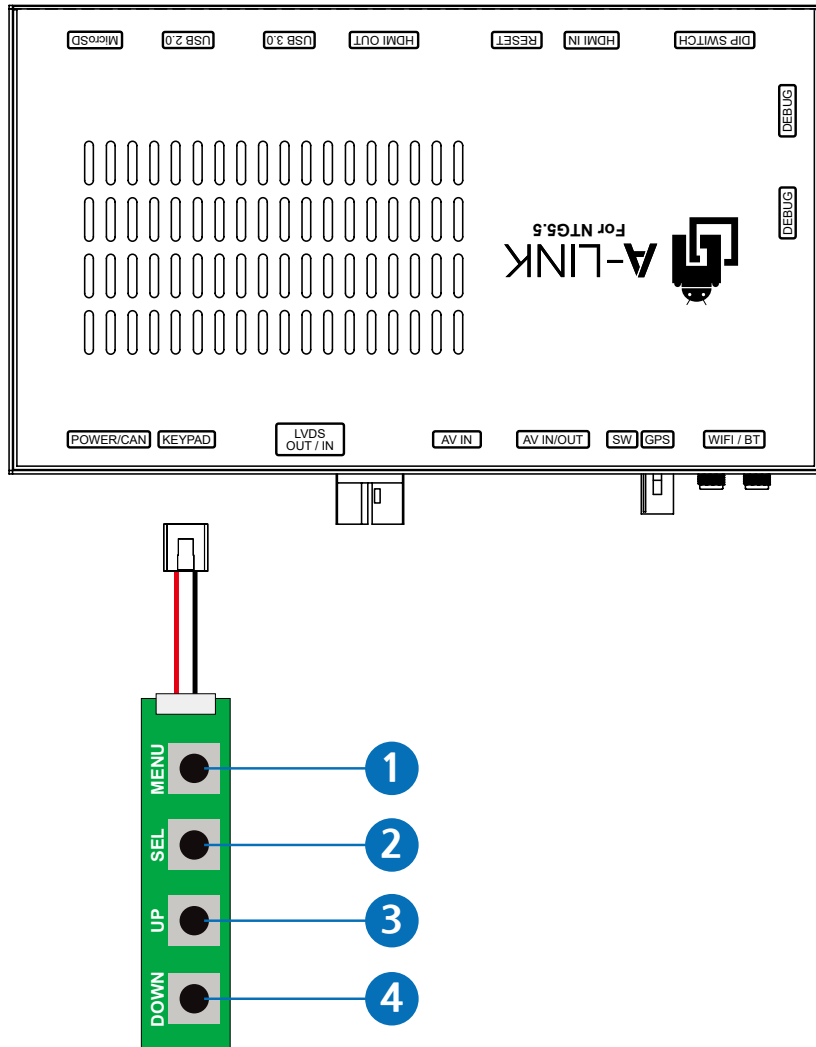
Button	Function	Operation	Remarks
1 MENU	Changing Modes	Press the button short time	Order : Android → HDMI → DVB-T → DVD → OEM
2 SEL	Setting Menu ※ Only in a Android, HDMI,DVB-T,DVD screen	Press the button short time	

KEYPAD - Function #2

Button	Function	Operation
1 MENU	Back to previous menu When press the button short.	Press the button short time
2 SEL	Select the setting menu and setting values.	Press the button short time
3 UP 4 DOWN	Move the menu-pointer and adjust the setting values	Press the button short time



**Important !! When enter setting mode.
Must enter from the Android screen.**



Settings

HDMI	INPUT SOURCE	DEFAULT
-----	INPUT DEVICE	AVM
-----	BRIGHT	DTV
NAVIGATION	CONTRAST RED	
REAR VIEW	CONTRAST GREEN	
FRONT VIEW	CONTRAST BLUE	
DTV		
DVD		
CUSTOM		
EXIT		

HDMI	INPUT SOURCE	DEFAULT
-----	INPUT DEVICE	AVM
-----	BRIGHT	DTV
NAVIGATION	CONTRAST RED	
REAR VIEW	CONTRAST GREEN	
FRONT VIEW	CONTRAST BLUE	
DTV		
DVD		
CUSTOM		
EXIT		

HDMI - DEFALUT

- INPUT SOURCE (Hdmi device model select)

- DEFALUT (Basic HDMI Device)
- AVM (360° Around View Camera)
- DTV (Digital Television)

- INPUT DEVICE ("DEFALUT" INPUT SOURCE)

- APCAST 720 *Supports Only 720P
- Apple TV 720 *Supports Only 720P
- Xiaomi TV 720 *Supports Only 720P

Important

Using for "HDMI" port should be select
"Input Device Model" in setting menu

If it does not selected input device model
The screen might be able to white, black screen (not working)

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

HDMI INPUT - AVM

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

- AVM KEEPING TIME

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

- PGS (Parking Guide System)

- Adjust position of parking guide lines and select the lines 'ON or OFF'.

Settings

HDMI	INPUT SOURCE	DTV
-----	INPUT DEVICE	DEFAULT
-----	BRIGHT	128
NAVIGATION	CONTRAST RED	128
REAR VIEW	CONTRAST GREEN	128
FRONT VIEW	CONTRAST BLUE	128
AV2 (DTV)	REMOTE OSD ON / OFF	ON
DTV	REMOTE TYPE	ALPINE
DVD	MEMORY UP ①	0x807f807f
EXIT	MEMORY DOWN ②	0x807f807f
	MEMORY LEFT ③	0x807f807f
	MEMORY RIGHT ④	0x807f807f
	MEMORY OK ⑤	0x807f807f
	MEMORY MENU ⑥	0x807f807f
	MEMORY EXIT ⑦	0x807f807f
	MEMORY ETC1 ⑧	0x807f807f
	MEMORY ETC2 ⑨	0x807f807f

HDMI	BRIGHT	128
-----	CONTRAST RED	128
-----	CONTRAST GREEN	128
NAVIGATION	CONTRAST BLUE	128
REAR VIEW		
FRONT VIEW		
DTV		
DVD		
CUSTOM		
EXIT		

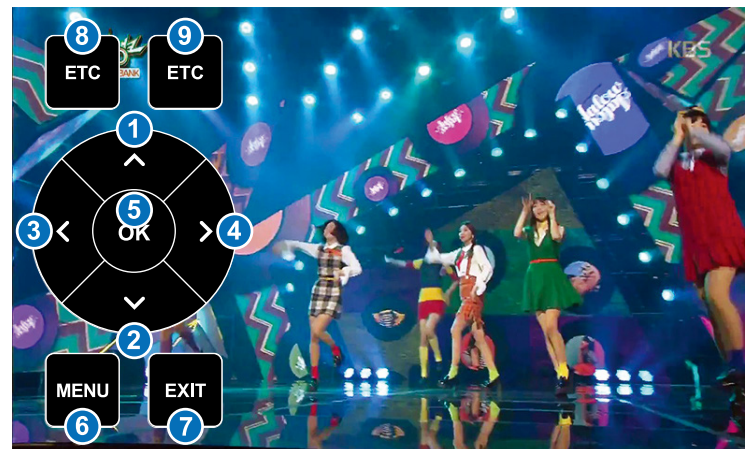
HDMI INPUT - DTV

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

- REMOTE OSD ON / OFF

· You can control to some of function on DTV remote control by OSD UI



- REMOTE TYPE

· ALPINE · GEX909DTV · HIT7700

NAVIGATION <ANDROID>

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

Settings

HDMI	INPUT SOURCE	OEM CAMERA
-----	BRIGHT	AVM (AROUND VIEW)
-----	CONTRAST RED	EXTERNAL CAMERA
NAVIGATION	CONTRAST GREEN	
REAR VIEW	CONTRAST BLUE	
FRONT VIEW		
DTV		
DVD		
CUSTOM		
EXIT		

REAR VIEW INPUT - OEM CAMERA

- INPUT SOURCE

- OEM CAMERA
- **AVM** (360° Around View Camera)
- EXTERNAL CAMERA

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

HDMI	INPUT SOURCE	AVM (AROUND VIEW)
-----	BRIGHT	128
-----	CONTRAST RED	128
NAVIGATION	CONTRAST GREEN	128
REAR VIEW	CONTRAST BLUE	128
FRONT VIEW	AVM KEEPING TIME R → D	7 Sec
DTV	AVM KEEPING TIME P → D	7 Sec
DVD	PGS ON / OFF	OFF
CUSTOM	PGS - HORIZONTAL	128
EXIT	PGS - VERTICAL	128

REAR VIEW INPUT - AVM

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

- AVM KEEPING TIME

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

- PGS (Parking Guide System)

- Adjust position of parking guide lines and select the lines 'ON or OFF'.

Settings

HDMI	INPUT SOURCE	EXTERNAL CAMERA
-----	BRIGHT	128
-----	CONTRAST RED	128
NAVIGATION	CONTRAST GREEN	128
REAR VIEW	CONTRAST BLUE	128
FRONT VIEW	PGS ON / OFF	OFF
DTV	PGS - HORIZONTAL	128
DVD	PGS - VERTICAL	128
CUSTOM		
EXIT		

REAR VIEW INPUT - EXTERNAL CAMERA

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

- PGS (Parking Guide System)

· Adjust position of parking guide lines and select the lines 'ON or OFF'.

Settings

HDMI	INPUT SOURCE	OEM CAMERA
-----	CAM KEEPING TIME R → D	7 Sec
-----	CAM KEEPING TIME P → D	7 Sec
NAVIGATION		
REAR VIEW		
FRONT VIEW		
DTV		
DVD		
CUSTOM		
EXIT		

FRONT VIEW INPUT - OEM CAMERA

- CAM KEEPING TIME

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

HDMI	INPUT SOURCE	EXTERNAL CAMERA
-----	BRIGHT	128
-----	CONTRAST RED	128
NAVIGATION	CONTRAST GREEN	128
REAR VIEW	CONTRAST BLUE	128
FRONT VIEW	CAM KEEPING TIME R → D	7 Sec
DTV	CAM KEEPING TIME P → D	7 Sec
DVD		
CUSTOM		
EXIT		

AV1 (FRONT VIEW INPUT) - EXTERNAL CAMERA

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

- FRONT CAM KEEPING TIME

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

Settings

HDMI	BRIGHT	128
-----	CONTRAST RED	128
-----	CONTRAST GREEN	128
NAVIGATION	CONTRAST BLUE	128
REAR VIEW	REMOTE OSD ON / OFF	ON
FRONT VIEW	REMOTE TYPE	ALPINE
DTV	MEMORY UP ①	0x807f807f
DVD	MEMORY DOWN ②	0x807f807f
CUSTOM	MEMORY LEFT ③	0x807f807f
EXIT	MEMORY RIGHT ④	0x807f807f
	MEMORY OK ⑤	0x807f807f
	MEMORY MENU ⑥	0x807f807f
	MEMORY EXIT ⑦	0x807f807f
	MEMORY ETC1 ⑧	0x807f807f
	MEMORY ETC2 ⑨	0x807f807f

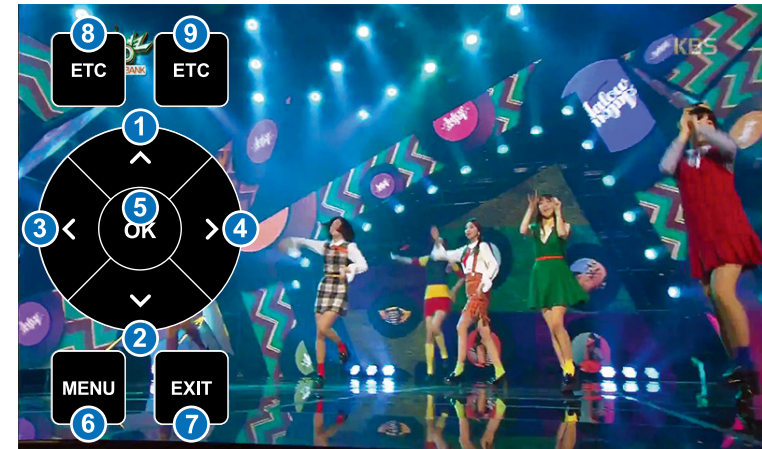
DTV , DVD

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

- REMOTE OSD ON / OFF

· You can control to some of function on DTV remote control by OSD UI



- REMOTE TYPE

· ALPINE · GEX909DTV · HIT7700

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