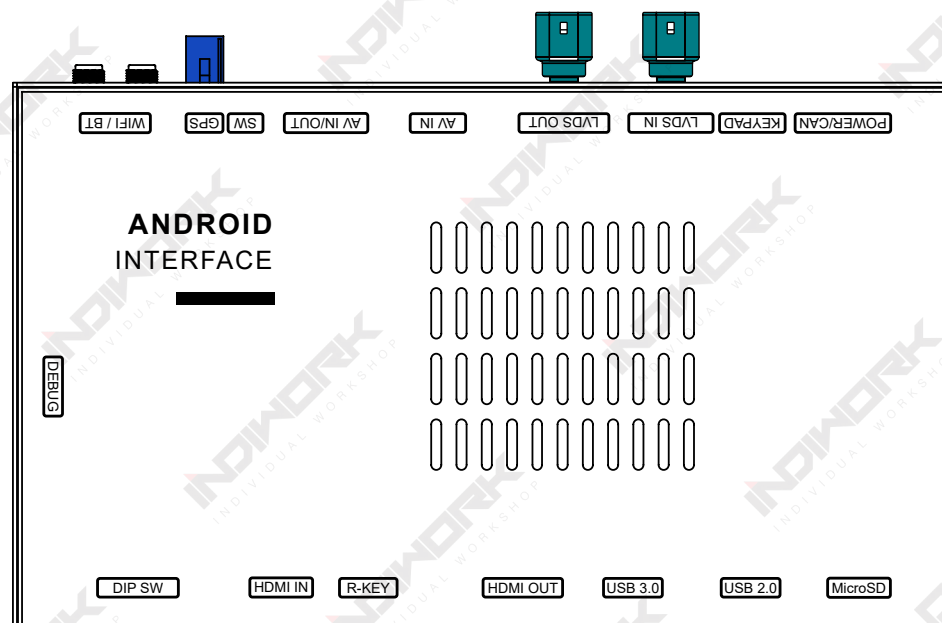


Instruction Manual

All in One Type Android System

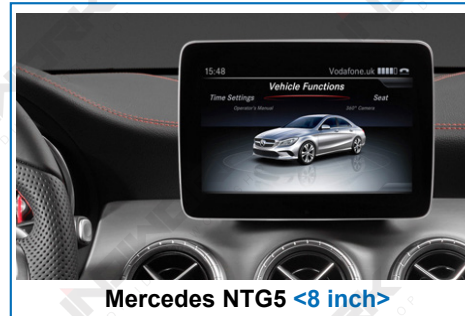
A10-NTG5



Model Name	A-LINK2-NTG5
Latest Firmware Date	2019 - 11 - 12
Manual Version	Rev. 1.0
Language	English

Car Compatibility Chart

Car Models	Specific Models	Production Year	Specific Models	Screen Size
A-Class *facelift	W176	2016 - 2018	- COMAND APS NTG 5.0/5.1/5.2 (ONLINE) and AUDIO 20.	7 inch 8 inch
CLA-Class *facelift	C117	2016 - 2018	- COMAND APS NTG 5.0/5.1/5.2 (ONLINE) and AUDIO 20.	7 inch 8 inch
B-Class *facelift	W246	2015 - 2019	- COMAND APS NTG 5.0/5.1/5.2 (ONLINE) and AUDIO 20.	7 inch 8 inch
C-Class	W205	2014 - 2019	- COMAND APS NTG 5.0/5.1/5.2 (ONLINE) and AUDIO 20.	7 inch 8.4 inch
E-Class	W212	2015 - 2017	- COMAND APS NTG 5.0/5.1/5.2 (ONLINE) and AUDIO 20.	7 inch
CLS- -Class	W218	2015 - 2018	- COMAND APS NTG 5.0/5.1/5.2 (ONLINE) and AUDIO 20.	7 inch
S-Class	W222	2014 - 2018	- COMAND APS NTG 5.0/5.1/5.2 (ONLINE) and AUDIO 20.	12.1 inch
GLA-Class	X156	2015 - 2018	- COMAND APS NTG 5.0/5.1/5.2 (ONLINE) and AUDIO 20.	7 inch 8 inch
GLC-Class	X253	2015 - 2019	- COMAND APS NTG 5.0/5.1/5.2 (ONLINE) and AUDIO 20.	7 inch 8.4 inch
GLE-Class	W166	2015 - 2019	- COMAND APS NTG 5.0/5.1/5.2 (ONLINE) and AUDIO 20.	8 inch
V-Class	W447	2015 - 2019	- COMAND APS NTG 5.0/5.1/5.2 (ONLINE) and AUDIO 20.	7 inch 8.4 inch



A, CLA-Class
***facelift**



B-Class
***facelift**



C-Class



CLS-Class
***facelift**



S-Class



GLA-Class



GLC-Class



GLE-Class

Components



Main Power Cable



Main Harness



**LVDS Cable
(Male to Male)**



**LVDS Cable
(Female to male)**



AV IN / OUT Cable



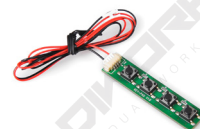
AV Cable



Capacitive Touch Cable



External GPS



KEYPAD



MicroPhone



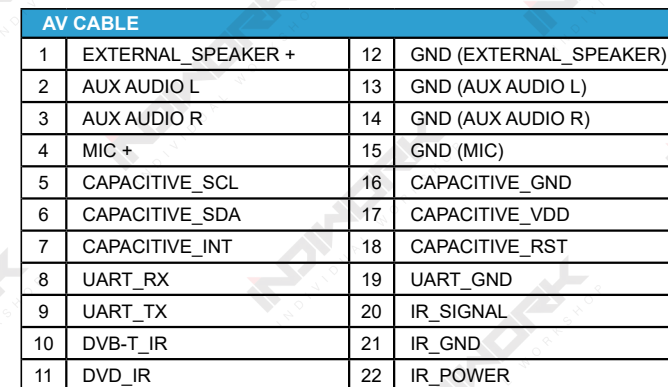
IR Sensor



BT / WIFI Antenna

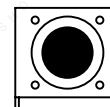


External Speaker



Full Installation Diagram

Reset Switch



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

12V ACC Power Out

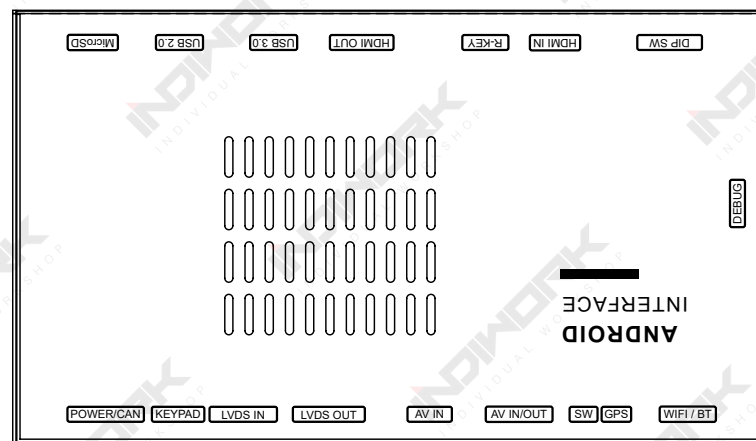
For external device (Front Cam, DVD,DTV,Etc..) Power

REVERSE IN

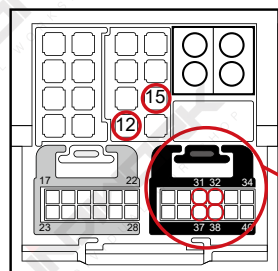
When the reverse gear is not detected by CAN-BUS, the 'REVERSE 12V IN wire' should be spliced with 12V power of reverse light.

REAR 12V

For the external rear view camera power
When the shift gear to reverse. the power will be "ON"



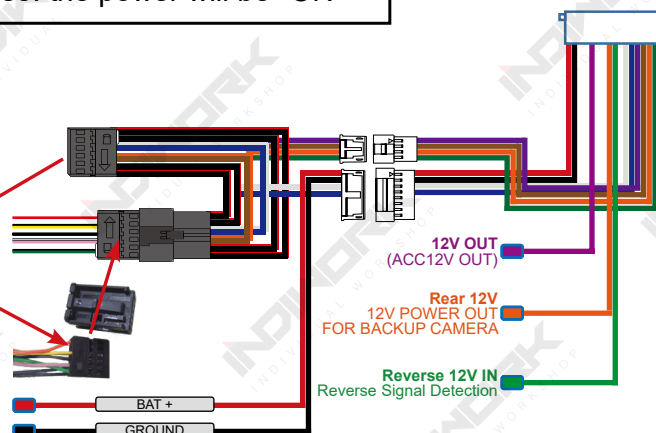
NTG5 Main Connector



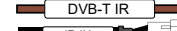
(Red) B+ Pin # 15 = ■
(Brown) Ground Pin # 12 = ■

(Yellow/White) Pas Can High Pin # 37 = ■
(Yellow) Pas Can Low Pin # 31 = ■

(Black/White) CMD CAN OUT H Pin # 38 = ■
(Black) CMD CAN OUT L Pin # 32 = ■



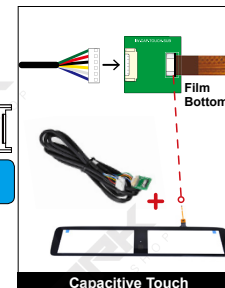
AV IN/OUT Port



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



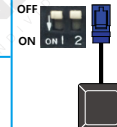
How to setting Capacitive touch



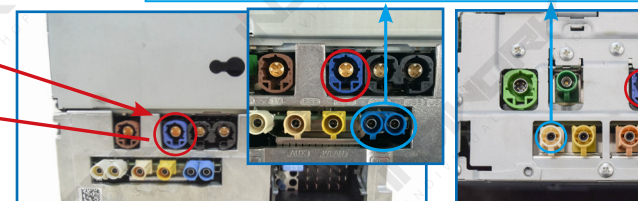
AV IN Port



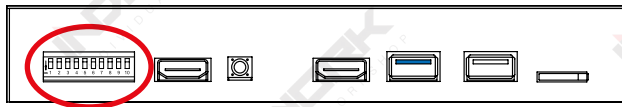
External GPS



GPS Fakra IN / OUT Cable



DIP Switch Settings



OFF
ON



ON : ↓



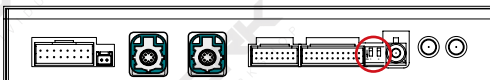
OFF : ↑



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	Select car model	
7		
8		
9		
10		

No.7	No.8	No.9	No.10	Car Model	Code Name	Screen Size
OFF(▲)	OFF(▲)	OFF(▲)	OFF(▲)	CLA-Class	C177	7 inch 8 inch
				B-Class	W246	
				E-Class	W212	
				CLS-Class	C218	
OFF(▲)	OFF(▲)	ON(▼)	ON(▼)	GLE-Class	W166	7 inch
				C-Class	W205	
				GLC-Class	X253	
OFF(▲)	OFF(▲)	OFF(▲)	ON(▼)	V-Class	W447	8.4 inch
				C-Class	W205	
				GLC-Class	X253	
OFF(▲)	OFF(▲)	ON(▼)	OFF(▲)	V-Class	W447	12.1 inch
OFF(▲)	OFF(▲)	ON(▼)	OFF(▲)	S-Class	W222	
OFF(▲)	ON(▼)	OFF(▲)	OFF(▲)	S-Class * Special case	W222	12.1 inch

DIP Switch Settings



OFF
ON



ON : ↓

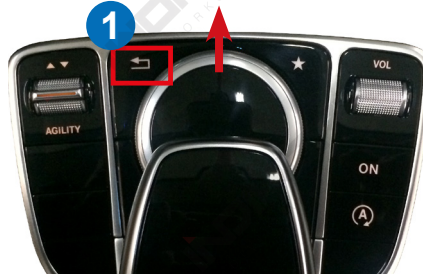
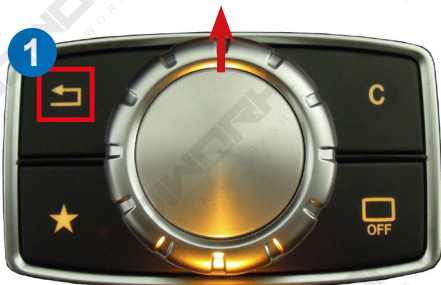


OFF : ↑



PIN	ON (▼)	OFF(▲)
1	Not Used (default "OFF")	
2	Using External GPS	Using GPS Fakra Cable

Activation by original buttons



Mercedes NTG5 Controller



Steering Wheel Buttons

Button	Function	Operation	Remarks
1 2 Back Hang Up	Changing Modes	Press the button 2 seconds	Order : Android → HDMI → DVB-T → DVD → OEM
		Press the button short time	Return to the OEM mode in any modes.
4 Back	Changing Modes (Front Cam)	Press the button 2 seconds	Order : AV1 (Front View Camera)
		Press the button short time	Order : AV1 → Previous screen
1 Back	Reset	Press the button 10 seconds	You can use this function when you get in trouble * Android power reset
3 Dial Up	Changing Modes	Move the dial to up 2 seconds	Switch Rear screen between OEM and External Rear Camera in a shift gear "R" * The screen mode is saved.

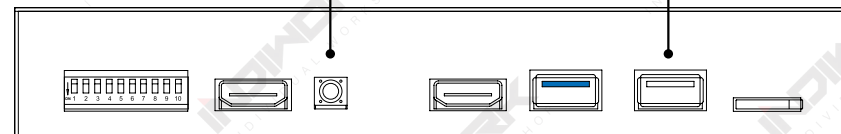
Android Firmware



Only USB2.0 port supports for Android Firmware

Recovery Key

USB 2.0

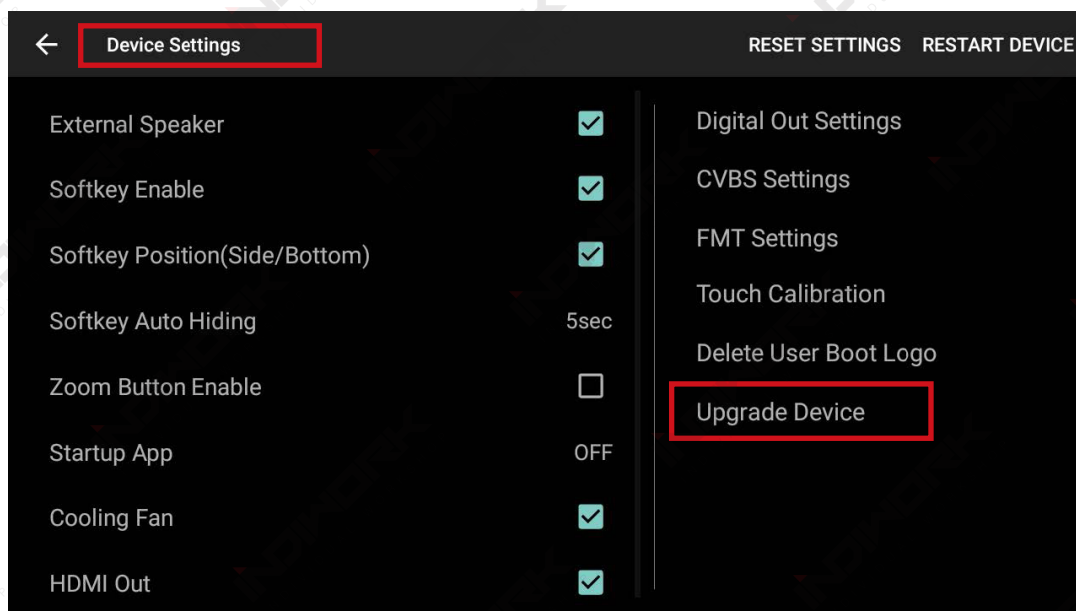
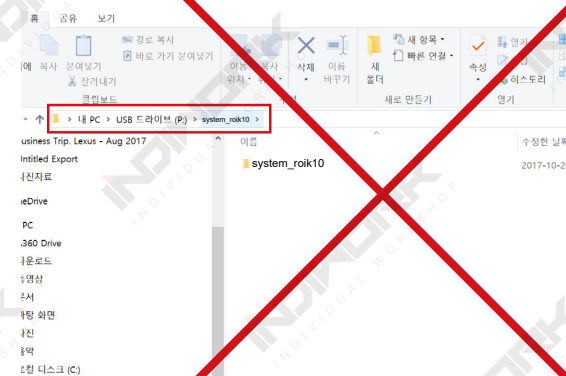
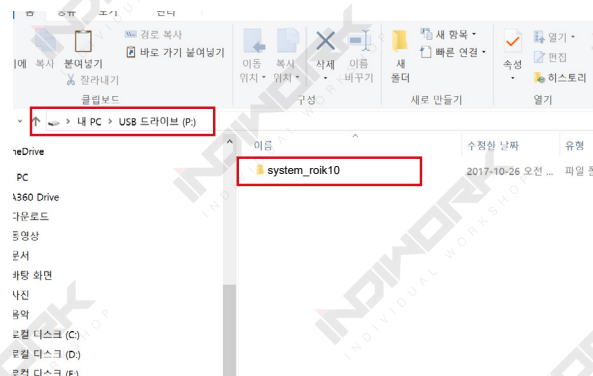


1. Download firmware in "indiwork" website

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

2. Copy the "system_roik10" folder to the sd card root directory

*** USB format type = FAT32**



A-LINK DEVICE SETTING

- Copy the 'system_roik10' folder to the root of the SD card.

THERE ARE TWO WAYS FOR START THE FIRMWARE.

- Select the 'setting > system update', and press the OK button.
It will start upgrade

- Push hold "Recovery Key" and turn on (re-connect power cable),
It will start upgrade

*** 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/>

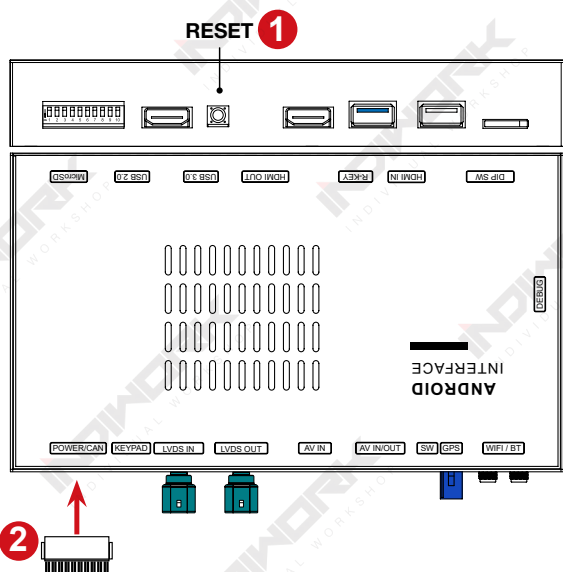
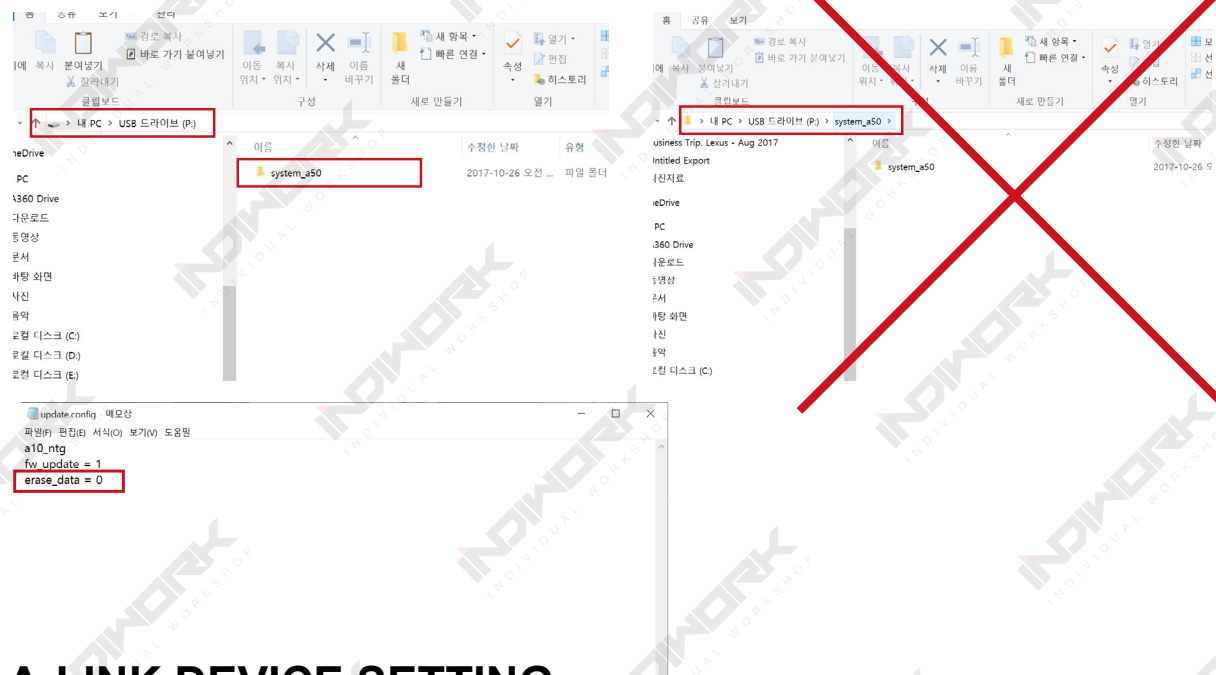
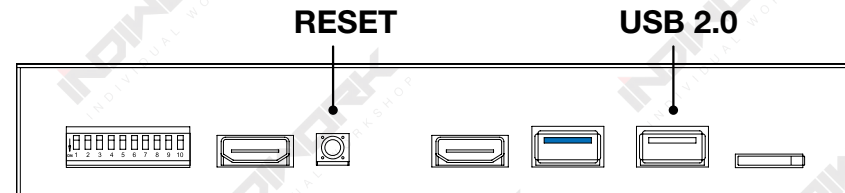
2. Copy the "system_a10" folder to the sd card root directory

*** 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

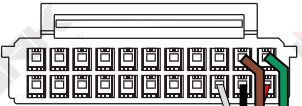
*** Update Time will 4~5 min, and first booting time will be 4~5 min.**

*** Should be factory reset. when it done firmware**

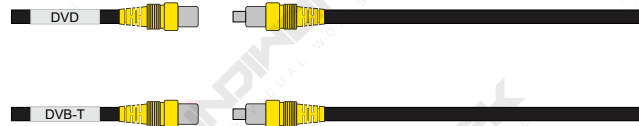
DVB-T Diagram

DVB-T OR DVD DEVICE

AV CABLE



CVBS



Wire To DVB-T IR
DVD IR

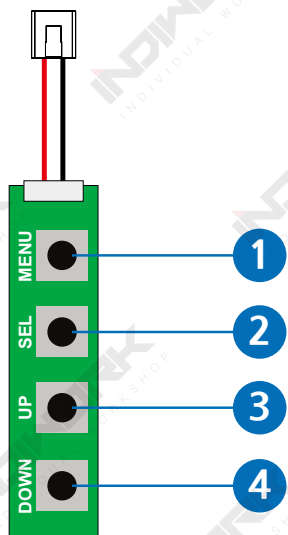
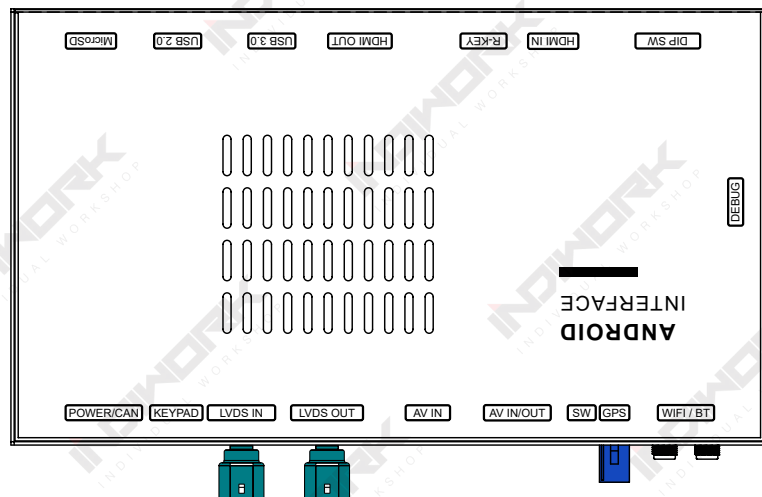
IR SIGNAL IN



DVB-TV IR Sensor	
Red	POWER
White	SIGNAL
Black	GROUND

Settings (How To Use KEYPAD)

KEYPAD - Function #1



Button	Function	Operation	Remarks
1 MENU	Changing Modes	Press the button short time	Order : HDMI → NAVI → DVB-T → DVD → OEM
2 SEL	Enter into the setting menu	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

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

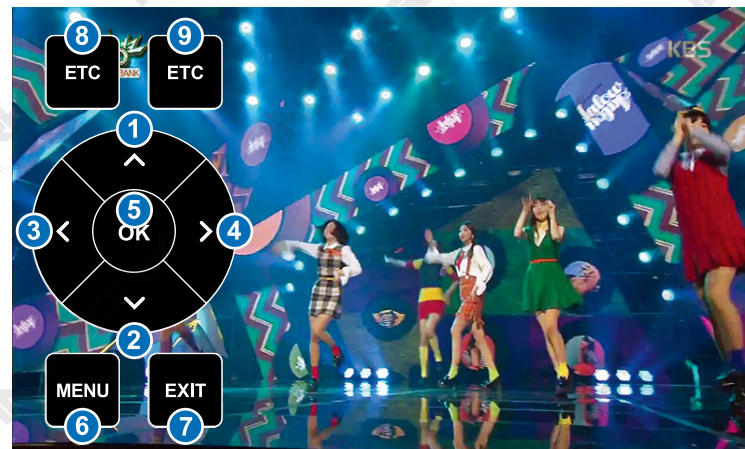
HDMI INPUT - DTV

- 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

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		

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 - OEM CAMERA

- INPUT SOURCE

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

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

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		

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		

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.

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

HDMI	TOUCH SEL	ANDROID
-----	FIRST SCREEN	OEM

NAVIGATION		
REAR VIEW		
FRONT VIEW		
DTV		
DVD		
CUSTOM		
EXIT		

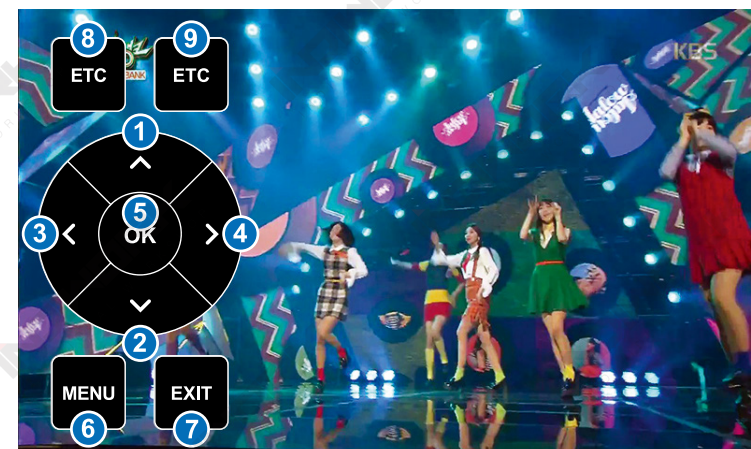
DTV , DVD

- 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

CUSTOM

- First Screen "ANDROID"

It will be changed to android screen in 5 sec automatically
When turn the key to ACC

www.  **INDIWORK** .co.kr

Copyright © indiwork. All Rights Reserved.