

Instruction Manual

2018 NEW

ANDROID INTERFACE

DATE.

2018.11.02



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COMPONENTS

		
<p>ROiK-VV</p>	<p>Power/CAN Cable</p>	<p>Universal Cable</p>
		
<p>LVDS Cable</p>	<p>AV Cable</p>	<p>IR Cable</p>
		
<p>Speaker</p>	<p>External GLONASS GPS Antenna</p>	<p>WiFi/BT Antenna x 2</p>
		
<p>MIC</p>	<p>Key Pad</p>	

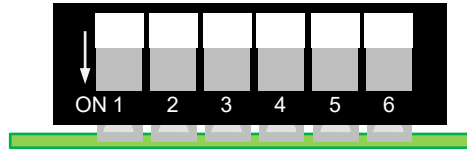
※ ANDROID

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 x 1
USB 3.0	USB3.0 5.0Gbps Port x 1
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)
HDMI OUT	HDMI 2.0, Support maximum 4K@60Hz display
Speaker	2W
I/O	Mic (voice recognition),
Temperature	-20°C ~ 80°C
Operating	-15°C ~ 70°C

※ INTERFACE

Input Spec.	1 x HDMI IN (1280x720), 2 x A/V Input (external video source) 1 x CVBS (Front Camera) 1 x CVBS (Rear Camera)
Output Spec.	1 x Audio L/R Output 1 x LVDS Output (LCD Operation)
Power Spec.	Input Power : 12V DC ~ 24V DC Consumption Power : 12 Watt Max
I/O	Input : 6P Dip Switch Output : 12V Output (3A Max) DVB-T IR (Remote Control) DVD IR (Remote Control)

DIP S/W INFORMATION

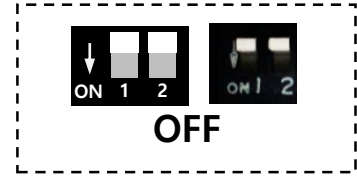
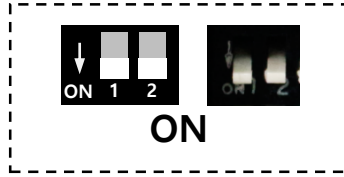
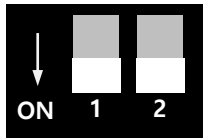


Pin No.	On	Off
1	External Rear Camera Or Using 360 AVM	Original Rear Camera
2	External Front Camera	Skip External Front Camera
3	No Function	
4	IR for ASUKA Touch	IR for Remote Controller
5	Using 360 AVM	360 AVM not used
6	Selection of Car Model (Only Off)	

※ Selection of Car Model

6	Car Model
Off	VOLVO

DIP S/W INFORMATION



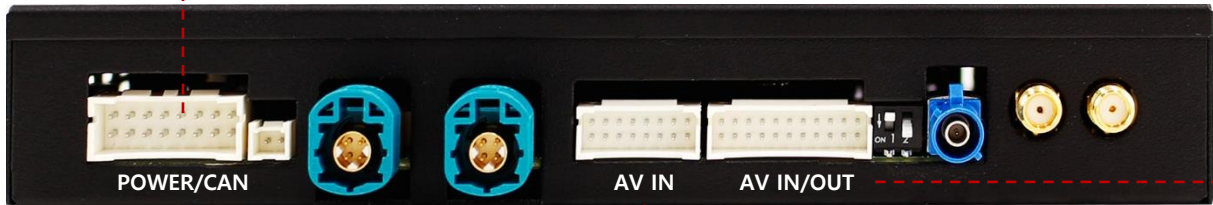
Pin No.	On	Off
1	NC	NC
2	Use External GPS Antenna (DIP S/W 2 Must ON)	Use Car GPS Cable (Option)

CONNECTOR PIN ASSIGNMENT

Power Cable (POWER/CAN)

1	3	5	7	9	11	13	15
2	4	6	8	10	12	14	16

1	3	5	7	9	11	13	15
Yellow		Purple	Green	Gray	White		Brown
BATTERY	N.C	12V_OUT	REVERSE	BUTTON_KEY	ECU_CAN_H	N.C	MON_5V_IN
2	4	6	8	10	12	14	16
Black			Blue	Orange	Blue		
GND	N.C	N.C	REAR_12V	OMNI_KEY	ECU_CAN_L	N.C	N.C



AV Cable (AV IN)

1	3	5	7	9	11	13	15
2	4	6	8	10	12	14	16

1	3	5	7	9	11	13	15
White	White	White	White	White	White	White	White
AV1_IN_V	AV1_IN_R	AV1_IN_L	AV2_IN_V	AV2_IN_R	AV2_IN_L	FRONT_IN	REAR_IN
2	4	6	8	10	12	14	16
Black	Black	Black	Black	Black	Black	Black	Black
GND	GND	GND	GND	GND	GND	GND	GND

Universal Cable (AV IN/OUT)

1	3	5	7	9	11	13	15	17	19	21
2	4	6	8	10	12	14	16	18	20	22

1	3	5	7	9	11	13	15	17	19	21
White	White	White	White						Brown	
SPK_P	AUX_OUT_R	AUX_OUT_L	MIC_P	N.C.	N.C.	N.C.	N.C.	N.C.	DVB-T_IR	DVD_IR
2	4	6	8	10	12	14	16	18	20	22
Black	Black	Black	Black					White	Black	Red
SPN_N	AUX_GND	AUX_GND	MIC_N	N.C.	N.C.	N.C.	N.C.	IR_IN	IR_GND	IR_POWER

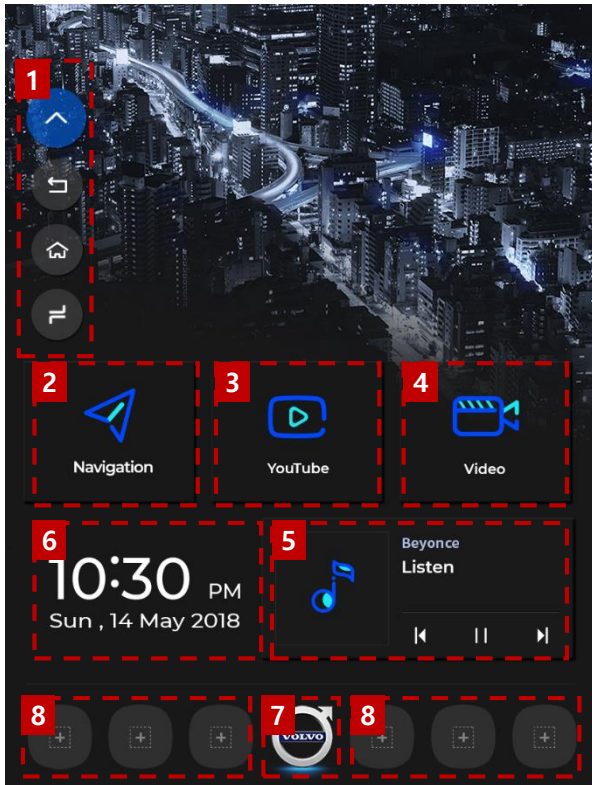
OEM BUTTON USAGE



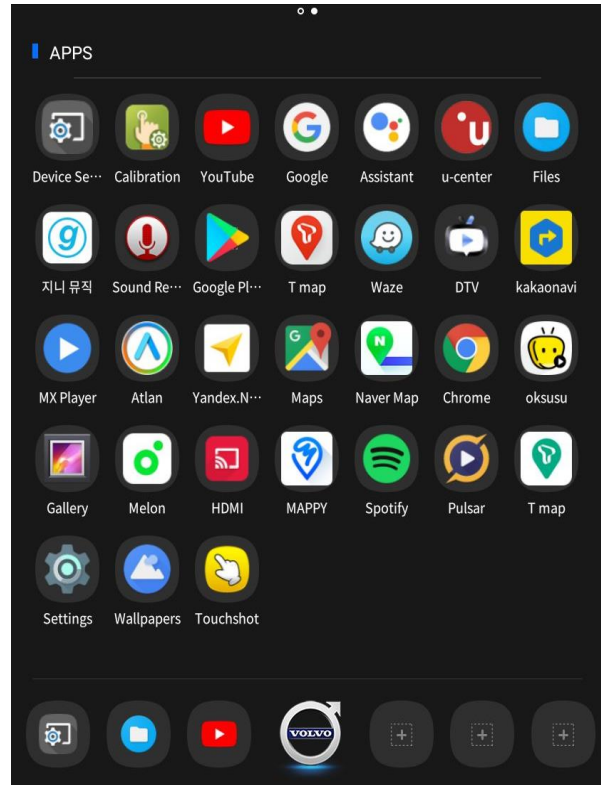
After the car is powered on and the OEM screen is output,
You can change the mode to ROiK screen after 20 seconds.

No.	Button	Press	Function
1	Home Button	Press Long the Button for 2 sec	Change to ROiK
		Press the Button 2 time	Change to HDMI
		Press the Button 3 time	Change to DTV
		Press the Button 4 time	Change to DVD
		Press the Button short Time	Return to the OEM

SCREEN VIEW



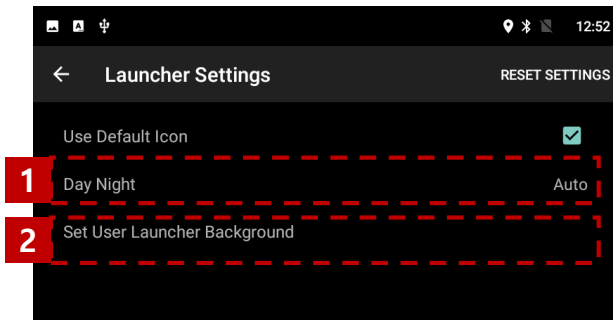
Main Screen



Apps Screen

No.	Button	Function
1	Floating Button	Floating Button (Back, Home button, Multitasking button, External speaker button)
2	NAVIGATION	Quick icon for Navigation Application
3	YouTube	Quick icon for Youtube
4	Multimedia	Quick icon for Multimedia Application
5	Music Player	Music player Widget
6	Time & Date	Time & Date
7	Settings	Open Settings Menu
8	Quick Icon	Custom Quick Icon

SCREEN VIEW – Change Background



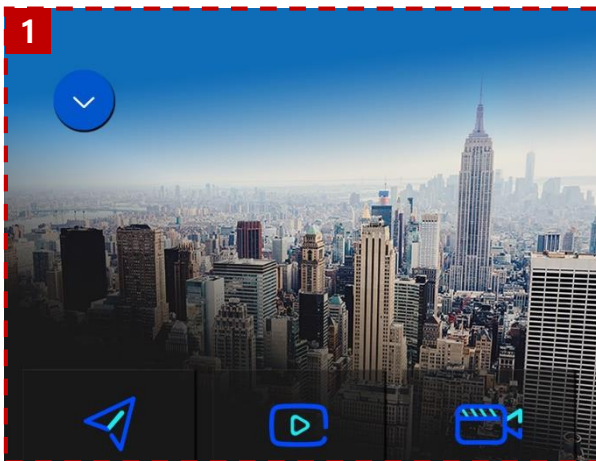
1. background is automatically converted to the actual time change.

(Can be set in device settings > Launcher Settings)

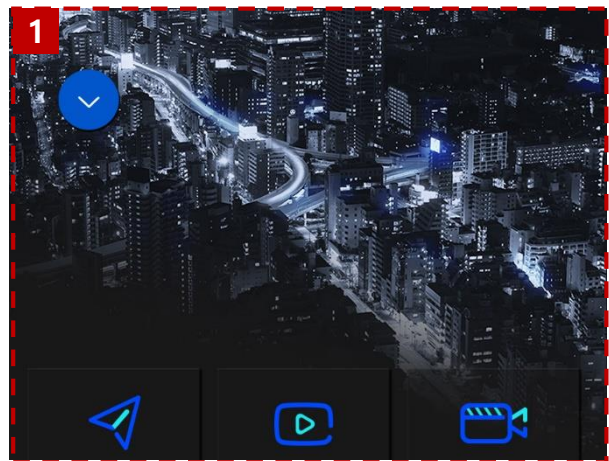
① Automatic / ② Set to Day background image / ③ Set to Night background image

2. Alternatively, you can change the background to another image.

(PNG, JPG / 892x1104 pixel)



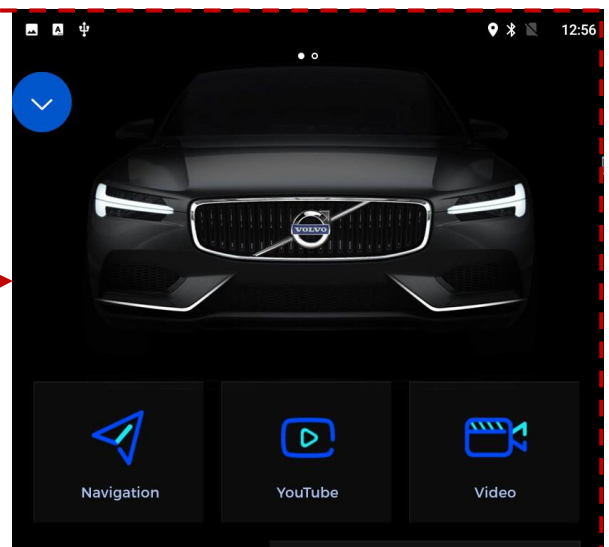
Day Screen



Night Screen



Your image

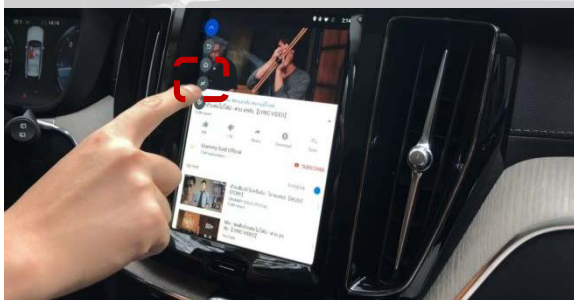


Apply as background

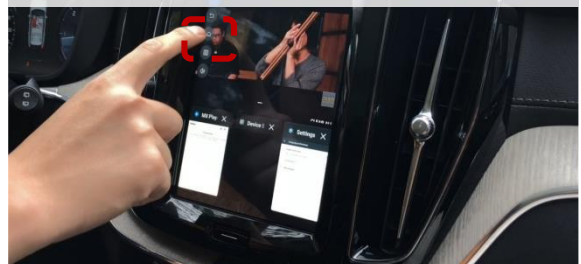
SCREEN VIEW – Split Screen Mode



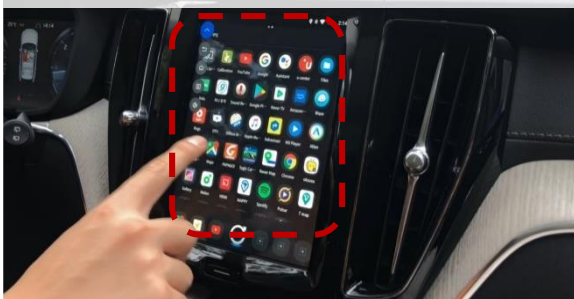
1. Multitasking button Long press



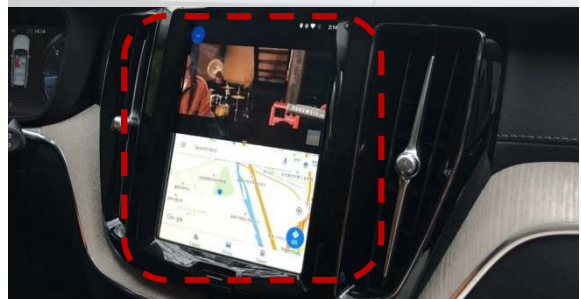
2. Press Home button in Split Screen Mode



3. Select application



4. Enjoy Split Screen Mode

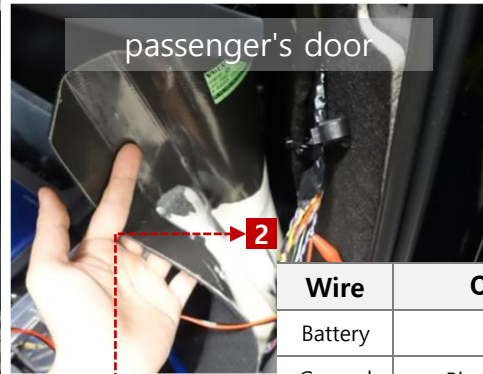


※ Some apps are not work on Split Screen Mode mode

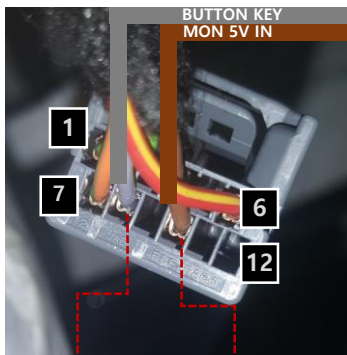
CONNECT CAN/POWER DIAGRAM



1. Connect CAN, BAT, GND to wire between car body and passenger's door

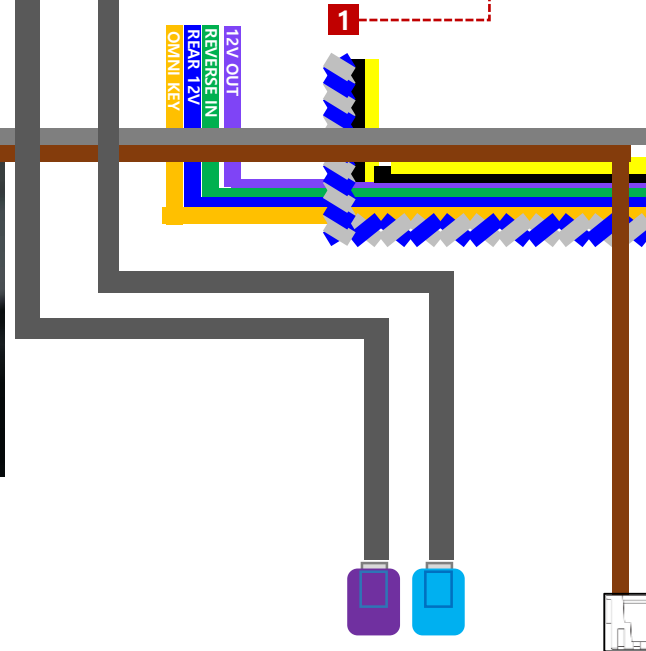


Wire	Color
Battery	Red
Ground	Black / Mint

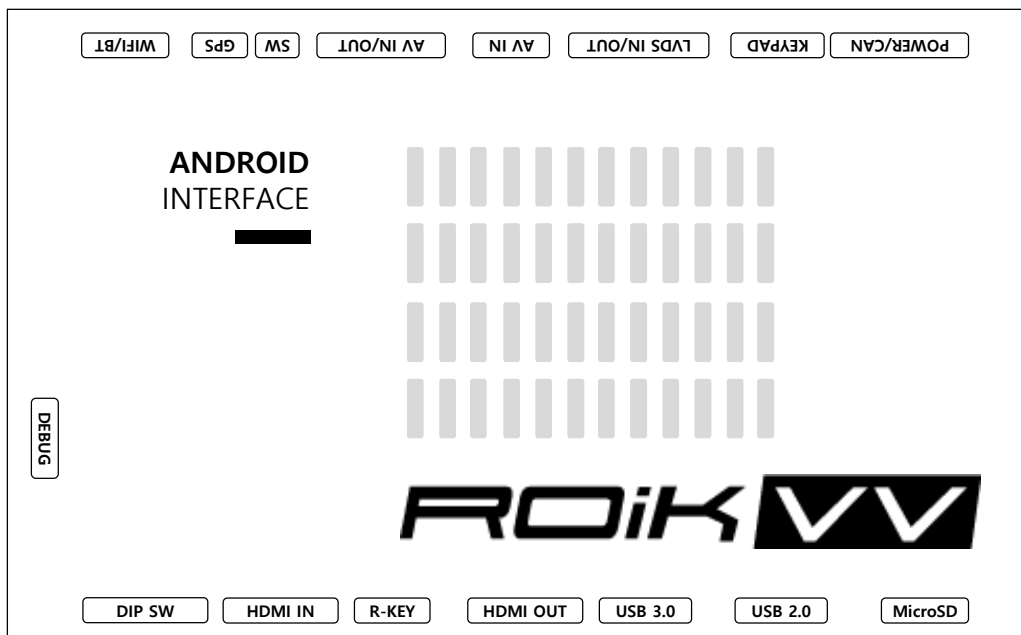


BUTTON KEY **MON 5V IN**

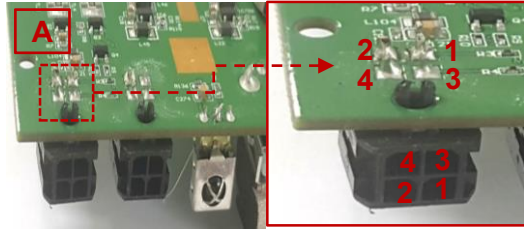
Pin 8 : BUTTON KEY
Pin 10 : MON 5V IN



Wire	Color
CAN H	Violet / White (p5)
CAN L	Violet / Green (p4)

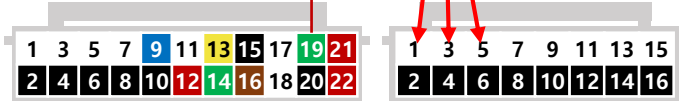
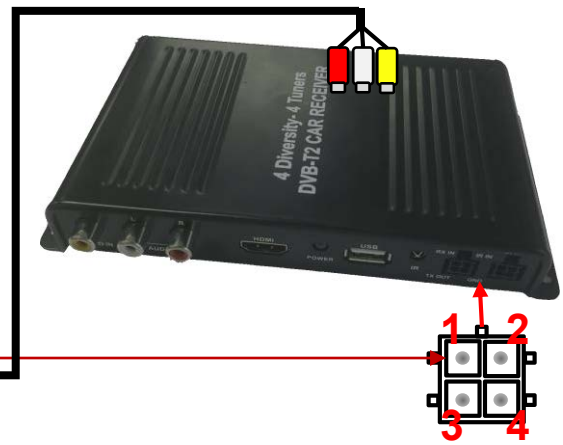


DVB-T CONNECTION DIAGRAM FOR AV INPUT



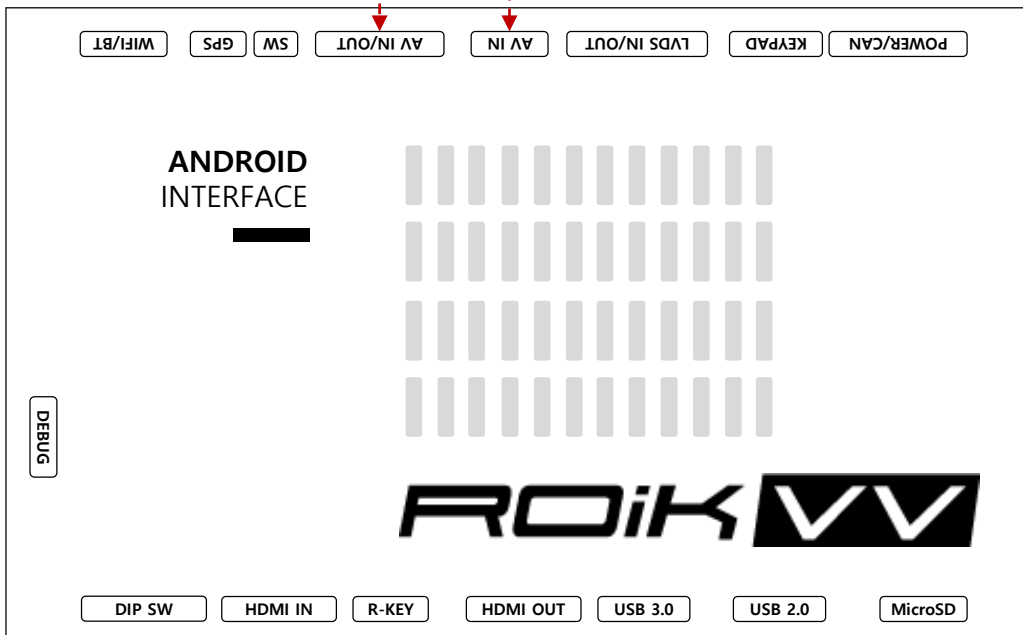
1	IR – DVB-T
2	DO NOT USE.
3	DO NOT USE.
4	DO NOT USE.

Open the cover of DVB-T.
Connect 'DVBT-IR' provided to 'A' on picture



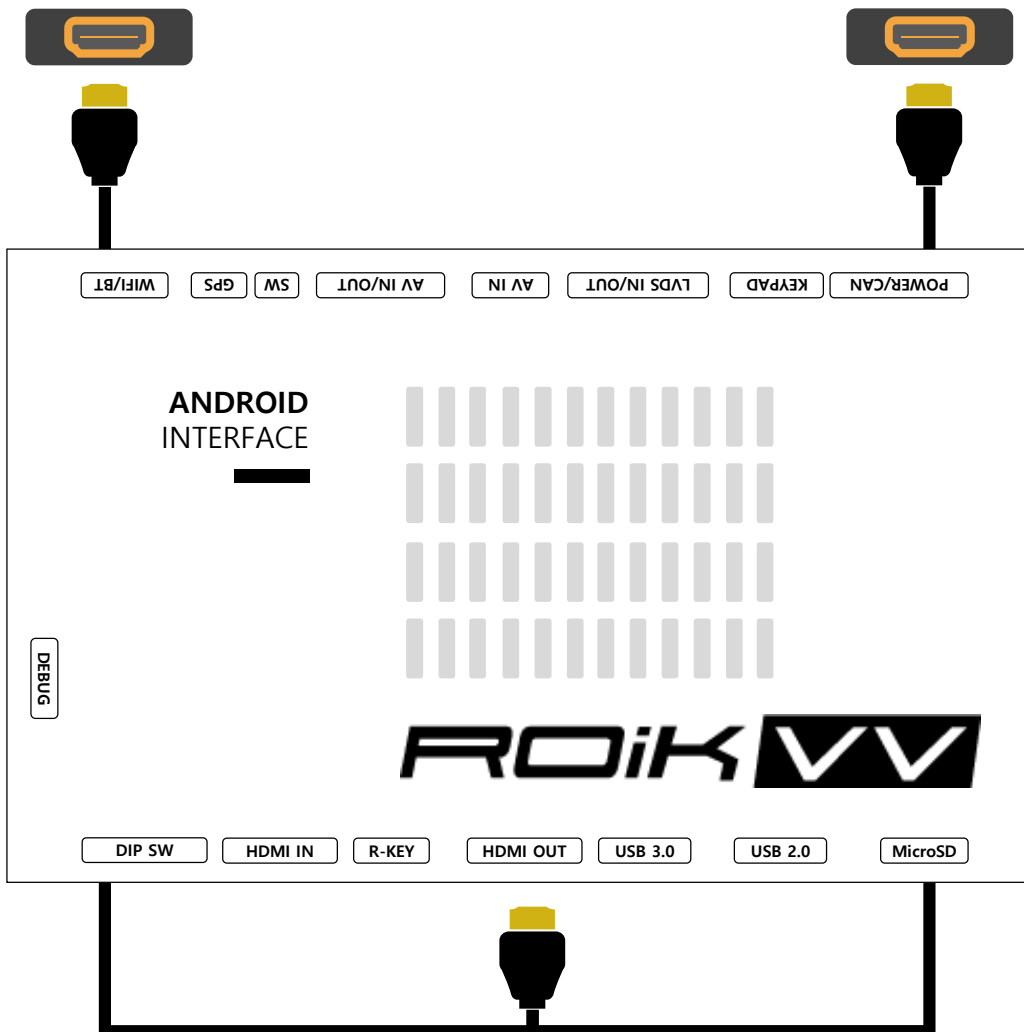
UNIVERSAL CABLE

AV CABLE



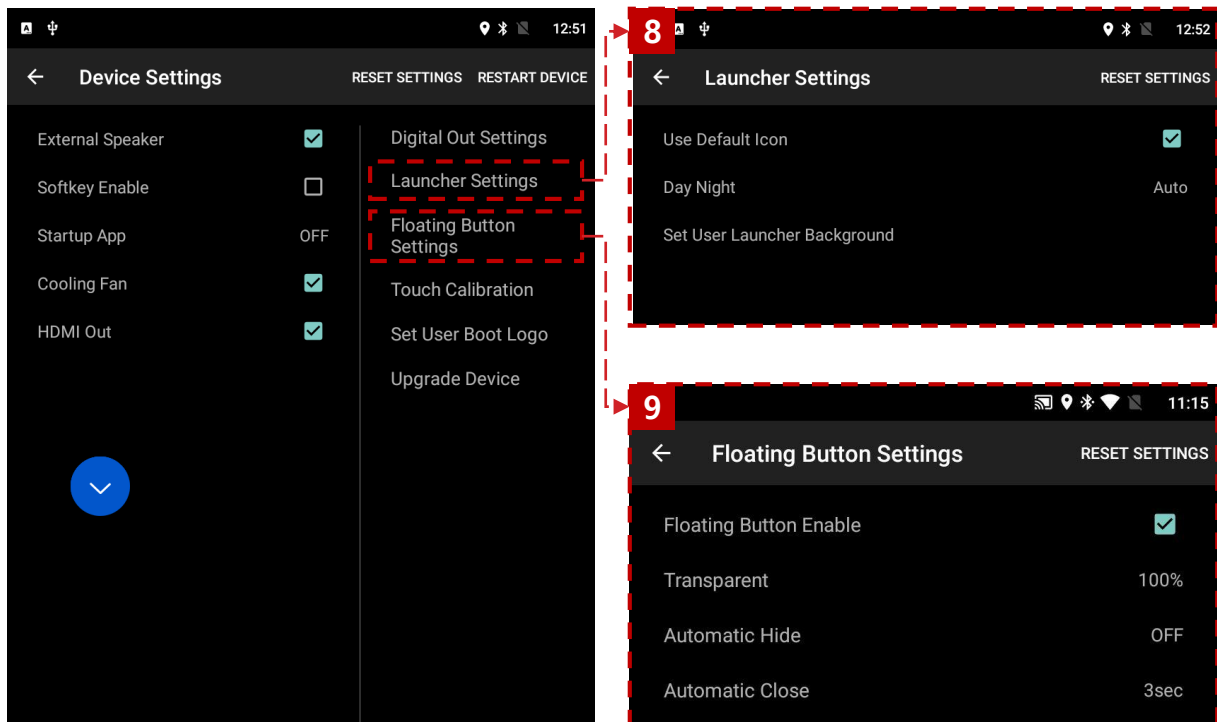
HEADREST MONITOR

※ Headrest Monitor (HDMI Out)



When connecting two or more monitors, An additional HDMI Splitter is required.

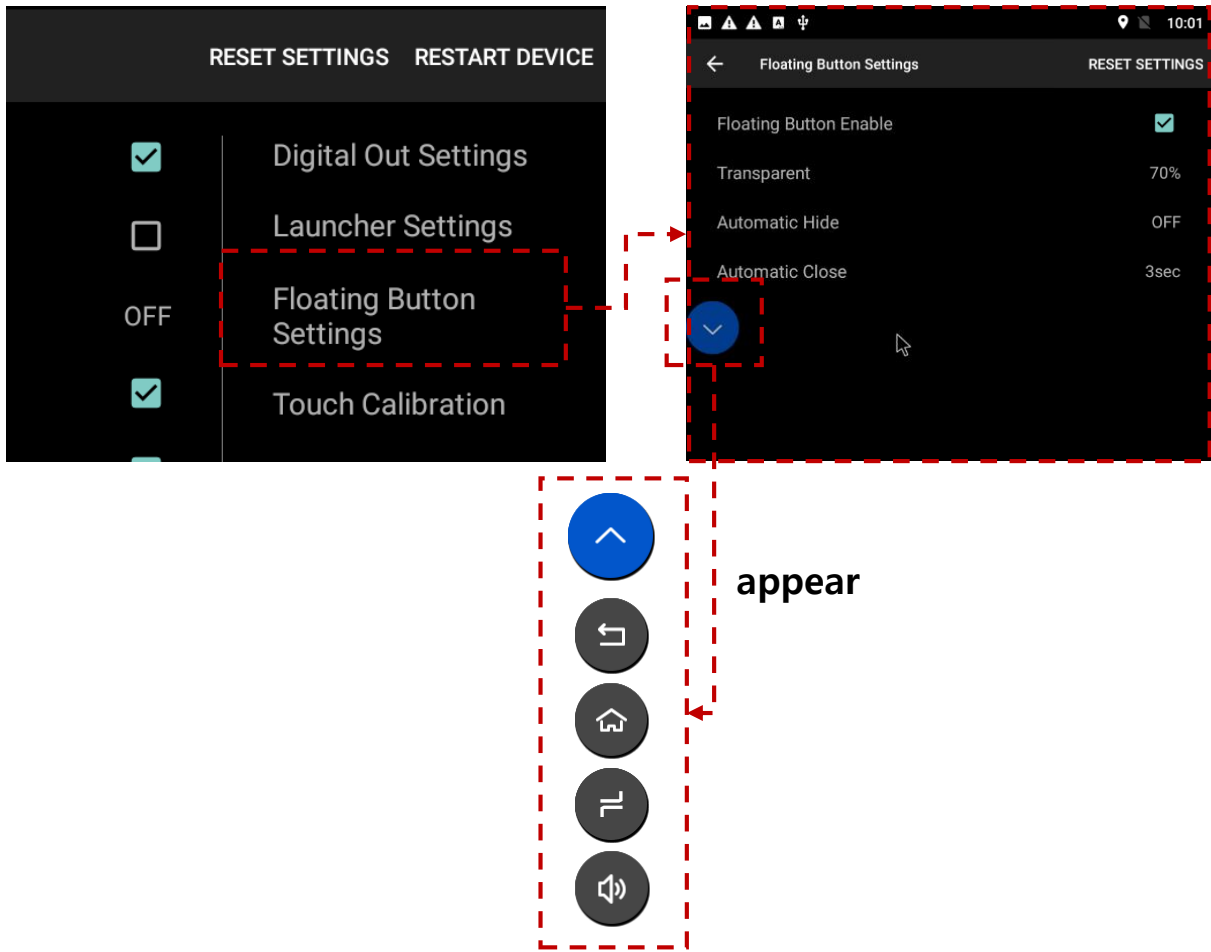
DEVICE SETTINGS



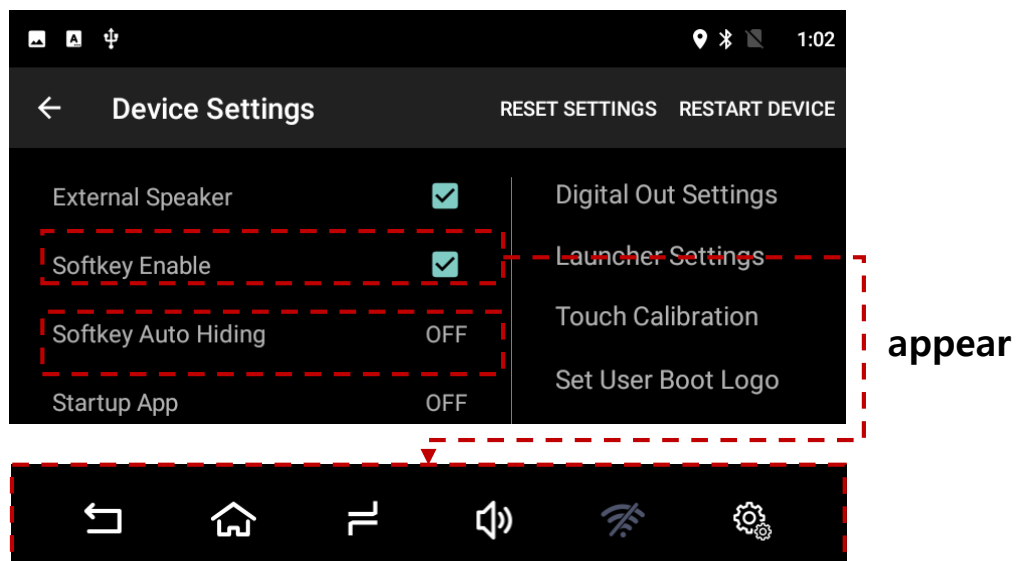
No.	Button	Function	
1	RESET SETTINGS	Reset settings to default	
2	RESET DEVICE	System Reboot	
3	External Speaker	Turn on/off external speaker	
4	Softkey Enable	Using or not using soft keys	
5	Startup App	Select Startup APP	
6	Cooling Fan	Turn on / off Cooling Fan	
7	HDMI Out	Turn on / off HDMI Out	
8	Launcher Settings	Use Default Icon	Set icon of home screen.
		Day Night	select the background of the home screen.
		Set User Launcher Bg	Change the main screen background image (PNG, JPG / 892x1104 pixel)
9	Floating Button Settings	Floating Button Enable	Using or not using floating button
		Transparent	Adjust the transparency of floating buttons
		Automatic Hide	Floating button auto-hide setting
		Automatic Close	Floating button auto-hide setting time
10	Touch Calibration	Touch Calibration (for UART Touch)	
11	Set User Boot Logo	Change boot logo image (PNG, JPG, BMP / 892x1104 pixel)	
12	Upgrade Device	(Hidden menu) Firmware update is available. (See next page)	

DEVICE SETTINGS – Floating Button / Softkey Settings

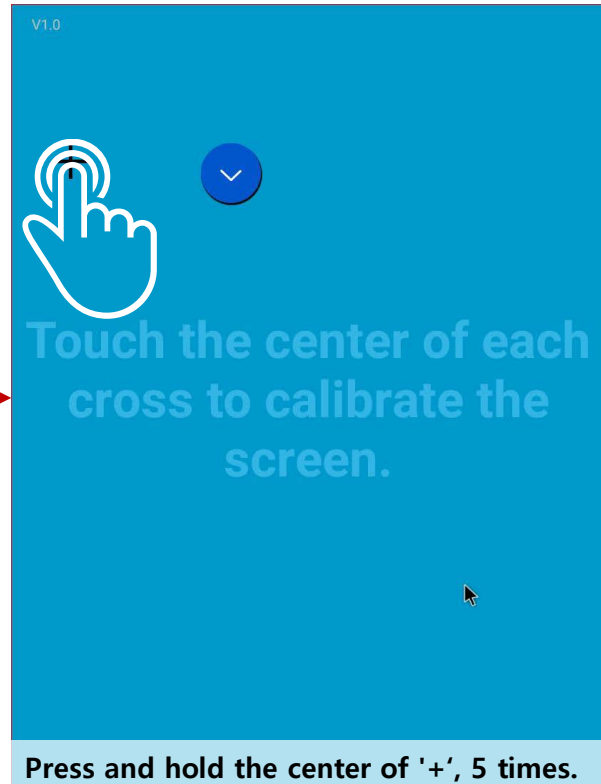
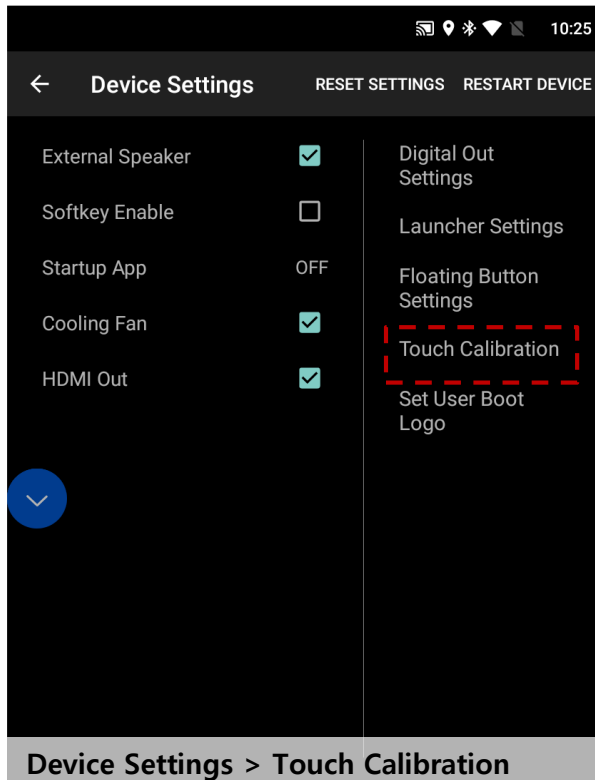
1. Floating Button Use (Disable Softkey)



2. Softlkey Use



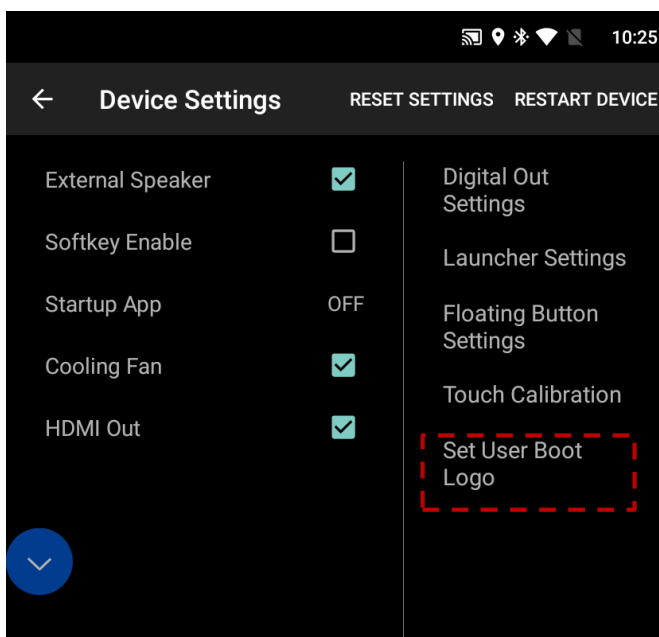
DEVICE SETTINGS – TOUCH CALIBRATION



DEVICE SETTINGS - USER LOGO UPDATE

Set User Boot Logo Activate

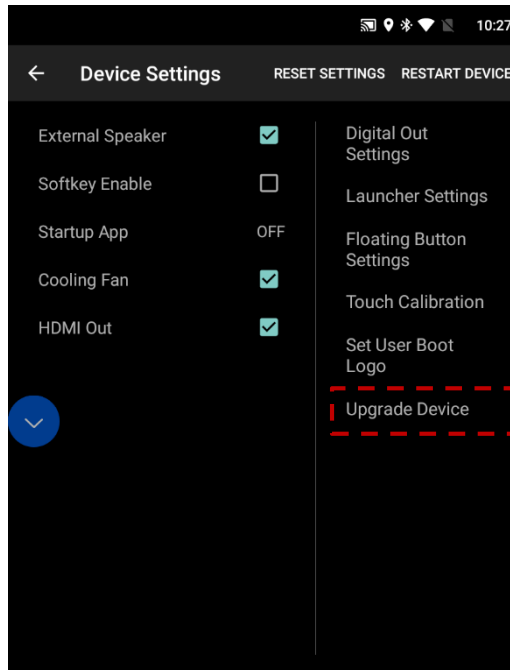
1. Device Setting
2. Click 'Set Use Boot Logo' and select boot logo image.



- ※ File Format : PNG, JPG, BMP
- ※ Image Size : 892px X 1104px

FIRMWARE UPGRADE

A Recommend



Copy 'system_roik10' folder to USB Memory root and insert to USB1 Port.

Select Upgrade Menu, it will start upgrade

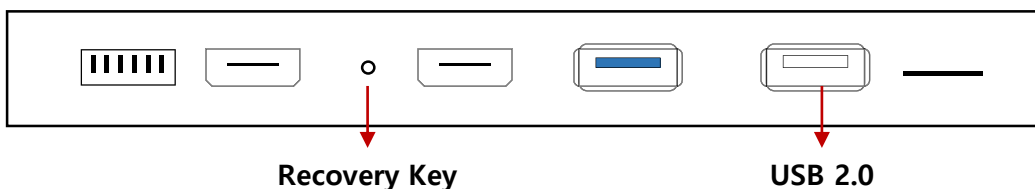
*'/usb disk/system_roik10' Folder have 'update.img' file

* If there is no update file, "Upgrade Device" menu is not show

※ Update Time will 3~4 min, after first time booting take 3~4 min.

※ USB format type = FAT32 / use on USB1 Port only.

B



Copy 'system_roik10' folder to USB Memory root and insert to USB1.

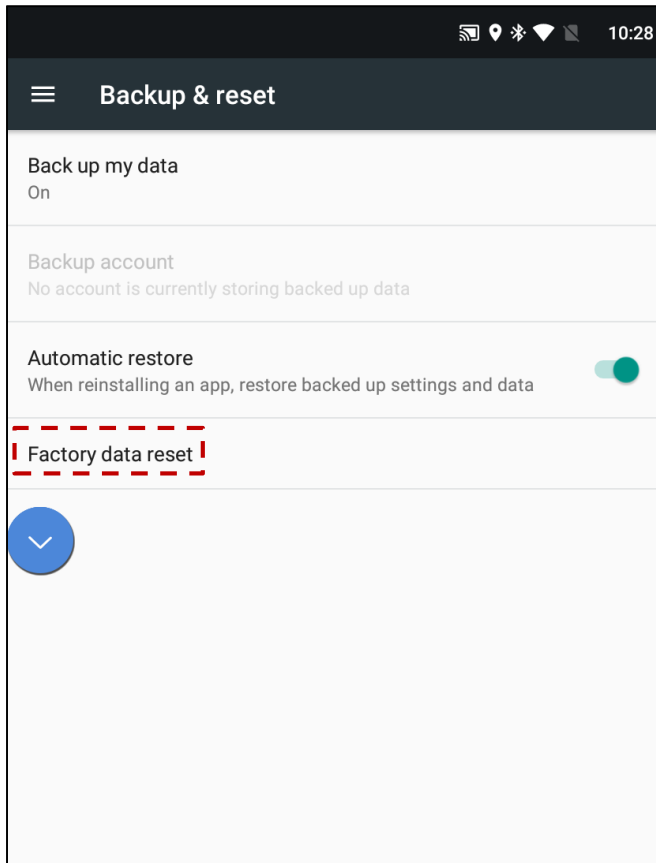
Push hold "Recovery Key" and turn on (re-connect power cable), it will start upgrade

*'/usb disk/system_roik10' Folder have 'update.img' file

※ Update Time will 3~4 min, after first time booting take 3~4 min.

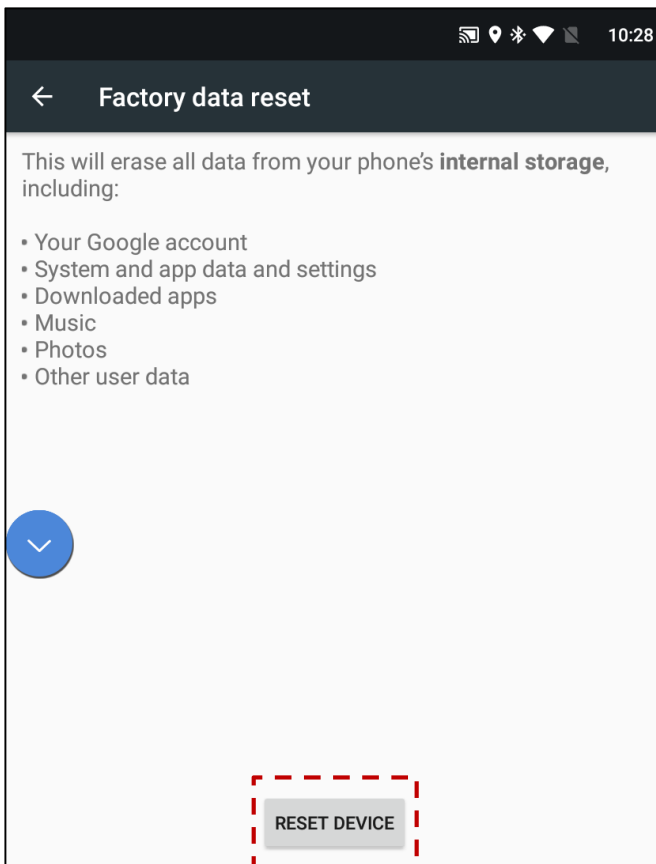
※ USB format type = FAT32 / use on USB1 Port only.

FACTORY RESET



01. Setting

- ▶ Backup & Reset
- ▶ Factory data Reset



02. Select "RESET DEVICE"

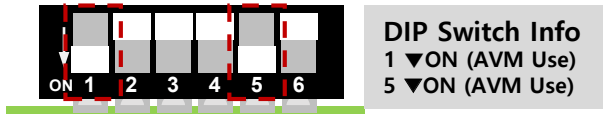
= Factory Reset

Wait until restart unit

※ After reboot system, it takes 3~4 min

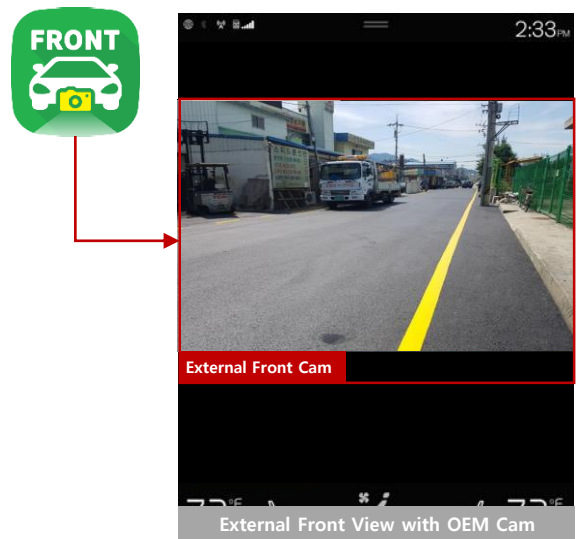
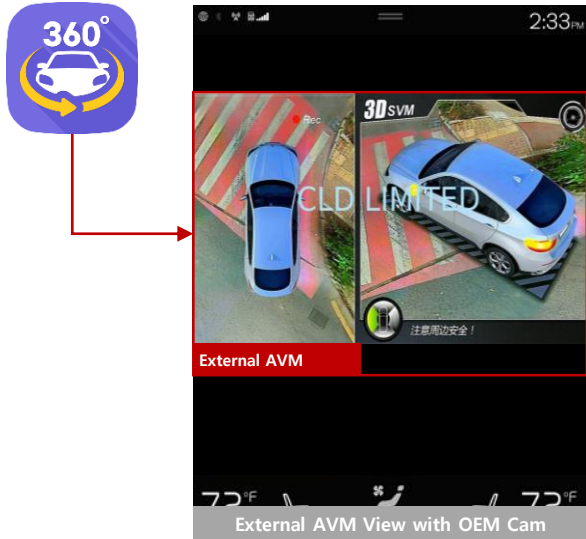
PARKING ASSIST SYSTEM – NO OEM CAMERA

Front View with No OEM Cam (Gear : P / N / D)



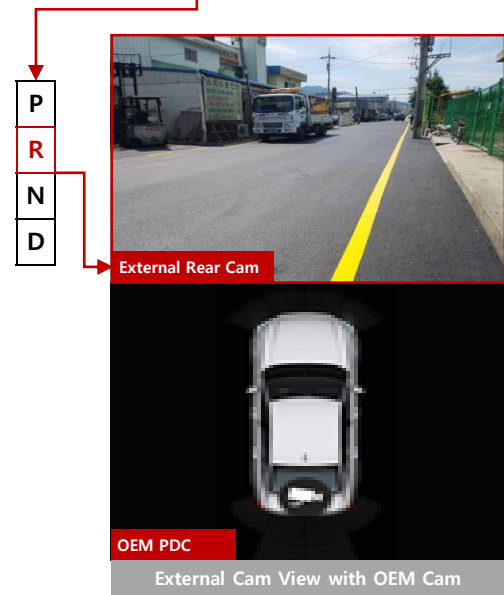
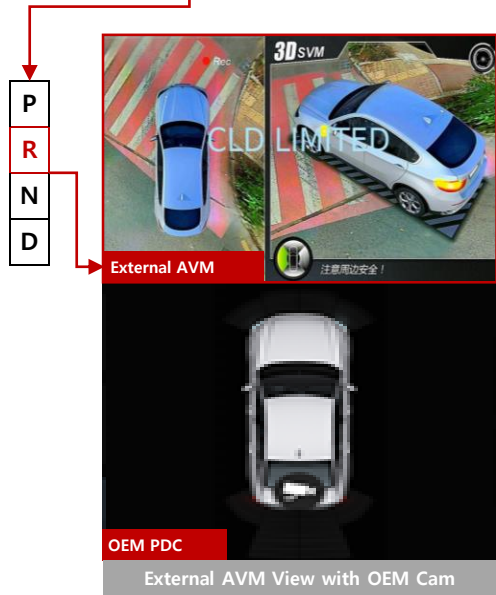
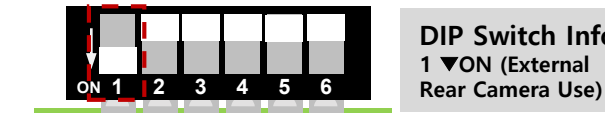
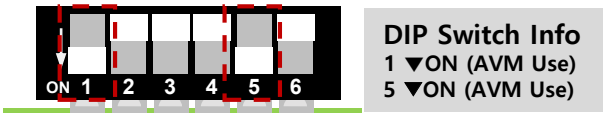
When you set the dip switch, the "AVM" app icon is created on the ROIK screen.

When you set the dip switch, the "Front" app icon is created on the ROIK screen.



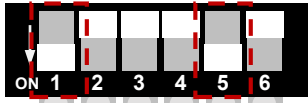
※ To return to the ROIK screen, press the Home button on the OEM.

Rear View with No OEM Cam (Gear : R)



PARKING ASSIST SYSTEM - OEM CAMERA

Front View with OEM Cam (Gear : P / N / D)

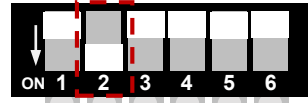


DIP Switch Info
1 ▼ON (AVM Use)
5 ▼ON (AVM Use)

When you set the dip switch, the "AVM" app icon is created on the ROIK screen.

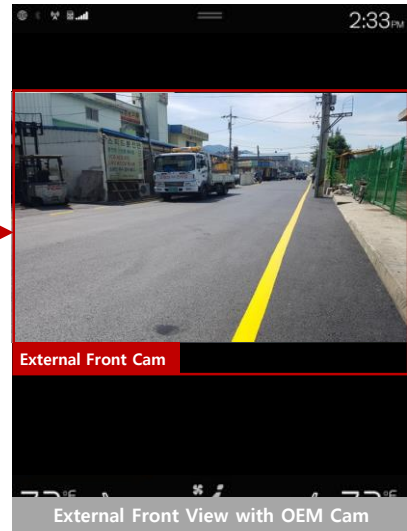


External AVM View with OEM Cam



DIP Switch Info
2 ▼ON (External Front Camera Use)
5 ▼ON (AVM Use)

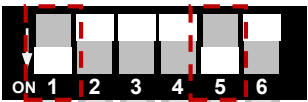
When you set the dip switch, the "Front" app icon is created on the ROIK screen.



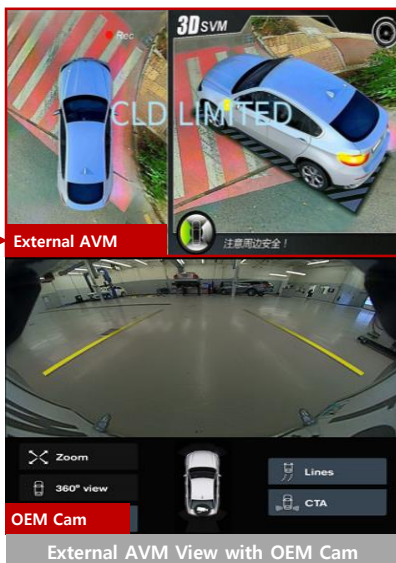
External Front View with OEM Cam

※ To return to the ROIK screen, press the Home button on the OEM.

Rear View with OEM Cam (Gear : R)



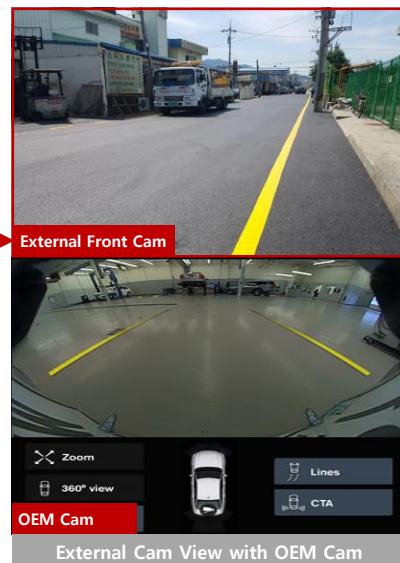
DIP Switch Info
1 ▼ON (AVM Use)
5 ▼ON (AVM Use)



External AVM View with OEM Cam

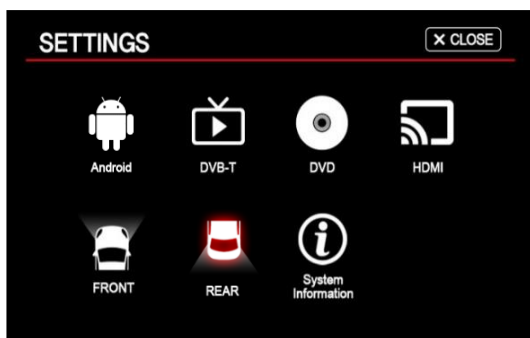
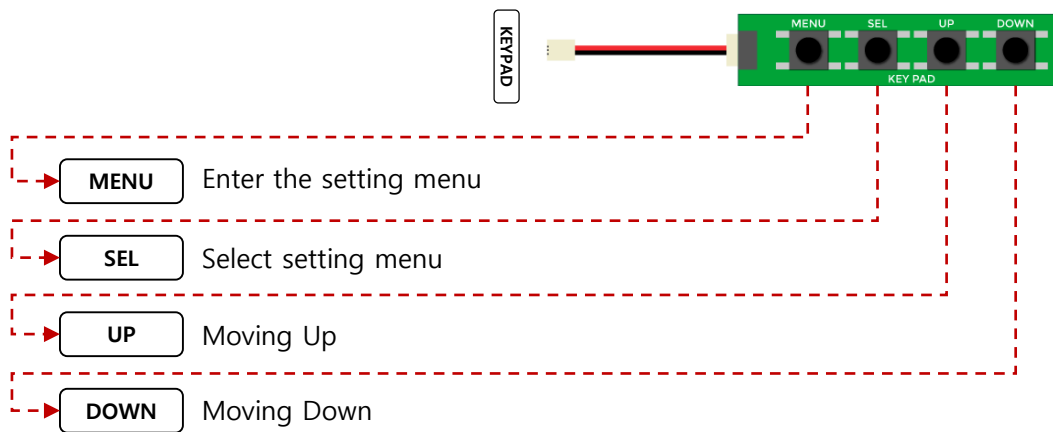


DIP Switch Info
2 ▼ON (External Front Camera Use)
5 ▼ON (AVM Use)

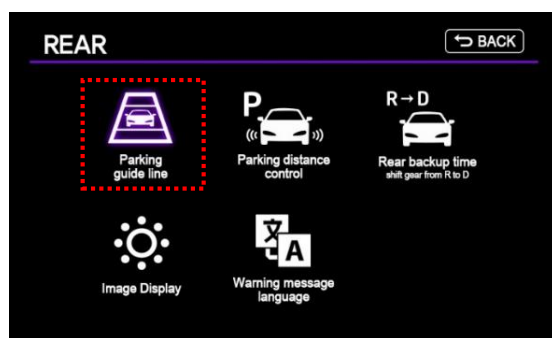


External Cam View with OEM Cam

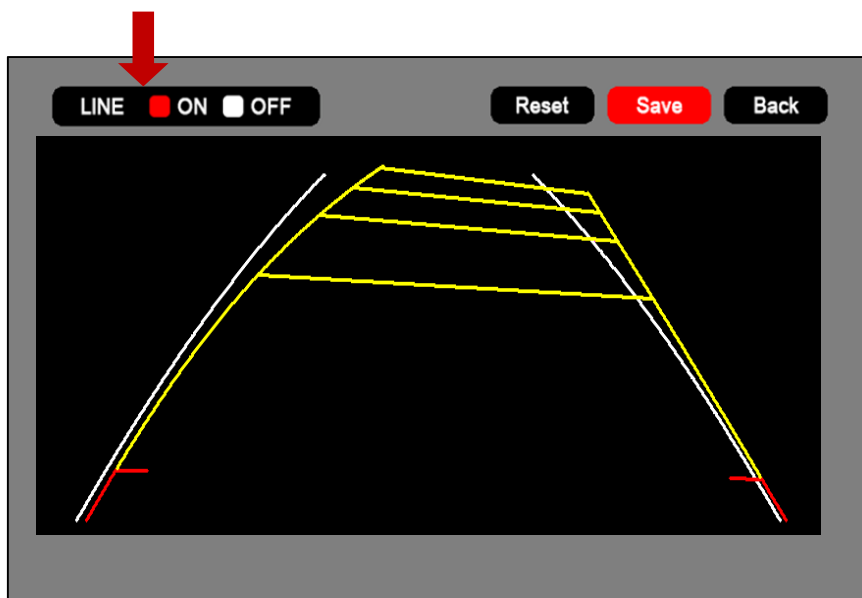
USE PAS-LINE SETTING



Select "REAR"

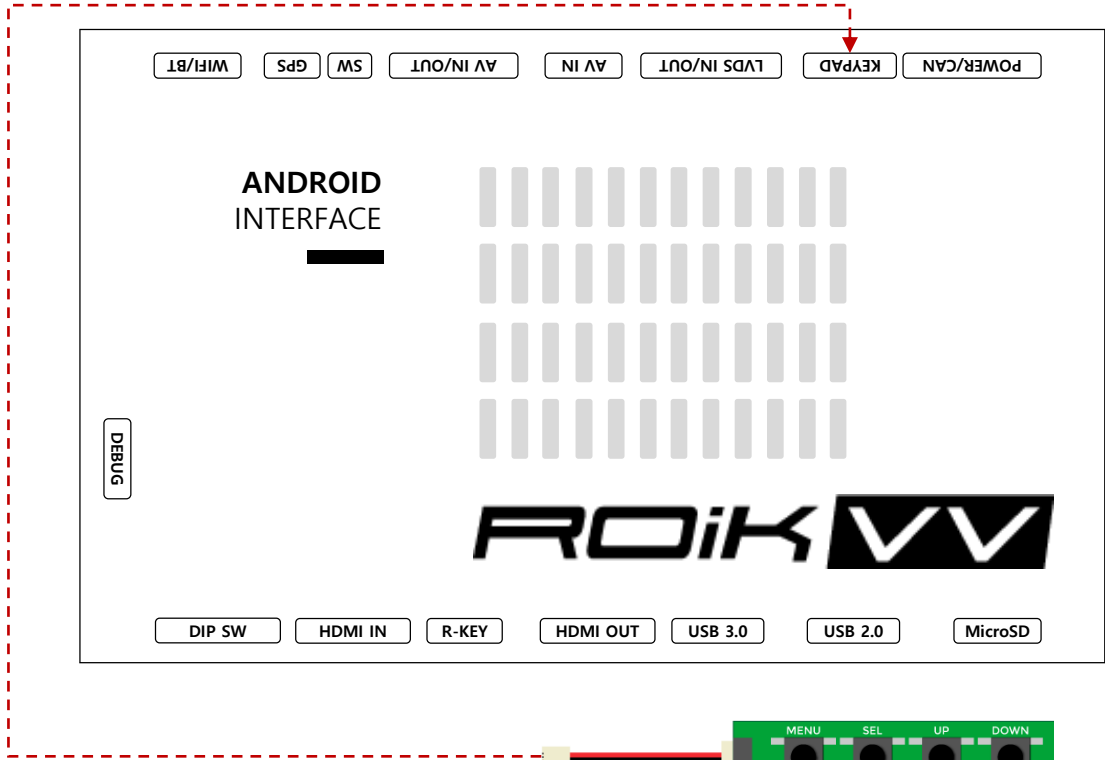


Select "Parking guide line"

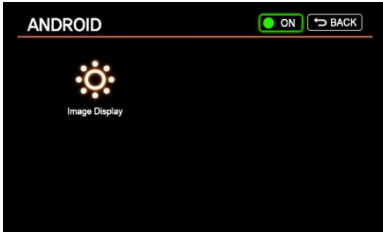
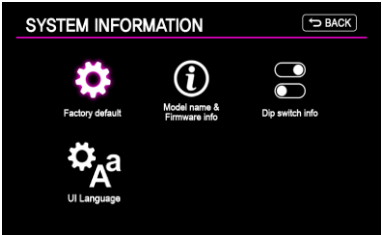
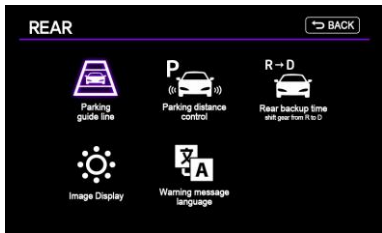
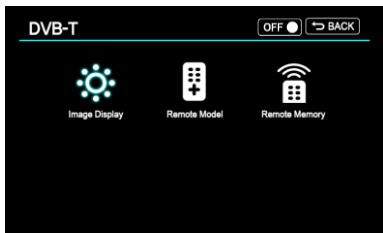
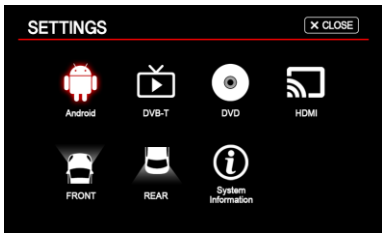


To use pas line, you can use it after selecting line on the setting screen

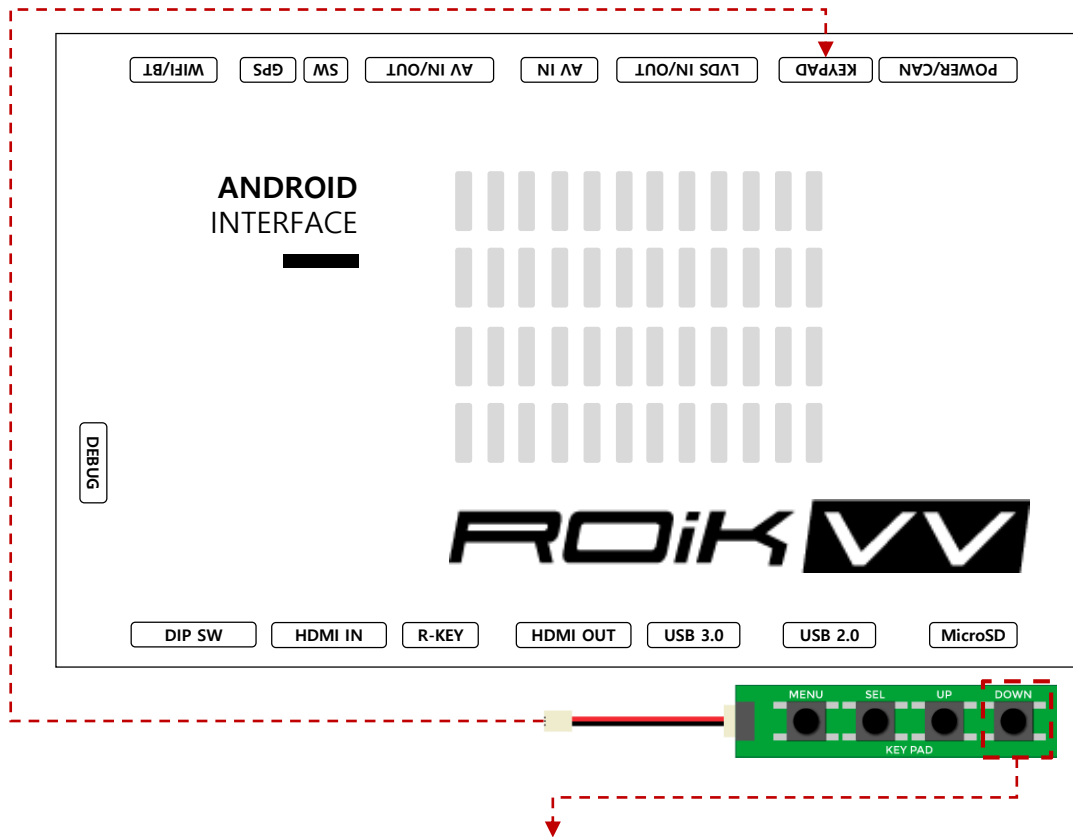
INTERFACE SETTING



- MENU** Enter the setting menu
- SEL** Select setting menu
- UP** Moving Up
- DOWN** Moving Down



QUICK INFO



To Enter Quick Info.

1. Press Menu Button to change oem screen to Interface screen.
2. Press **Down Button** in the interface screen for 3 seconds.

QUICK INFO.

Firmware Info.

Main : 2017 - 08 - 30
Sub : 2017 - 08 - 30
TW8823 : 2017 - 08 - 30

CAN DATA

GEAR : AC MW GZ 01 57 89 89 89
STEER REMOTE : FF FF FF FF FF FF FF FF
PAS : FF FF FF FF FF FF FF FF
PDC : FF FF FF FF FF FF FF FF
BUTTON : FF FF FF FF FF FF FF FF

PIN	DIP S/W Selection		
1	ON	<input type="checkbox"/>	OFF
2	ON	<input type="checkbox"/>	OFF
3	ON	<input type="checkbox"/>	OFF
4	ON	<input type="checkbox"/>	OFF
5	ON	<input type="checkbox"/>	OFF
6	ON	<input type="checkbox"/>	OFF
7	ON	<input type="checkbox"/>	OFF
8	ON	<input type="checkbox"/>	OFF
9	ON	<input type="checkbox"/>	OFF
10	ON	<input type="checkbox"/>	OFF

Quick Info Screen