

Instruction Manual



ROiK-10

ANDROID NAVIGATION

DATE.

2018.08.08



COMPONENTS

[ANDROID NAVIGATION]

ROiK-10

		
<p>ROiK-10</p>	<p>Power Cable</p>	<p>AV Cable</p>
		
<p>RGB OUT Cable</p>	<p>External GLONASS GPS Antenna</p>	<p>MIC</p>
		
<p>Capacitive Touch Cable</p>	<p>Resistor Touch Cable</p>	<p>Speaker</p>
		
<p>WiFi/BT Antenna x 2</p>	<p>LVDS OUT HDMI Cable</p>	<p>CVBS OUT Cable</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 2

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)

Touch Resistor/Capacitive touch

RGB OUT 1280x720 video IN -> 800x480 OUT or 480x234 OUT
(RGB Scale adjustment)

LVDS OUT 1280x720 video IN -> Digital 800x480 LVDS OUT
(LVDS Scale adjustment)

CVBS OUT 1280x720 video IN -> CVBS OUT

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)

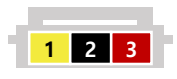
Input Power DC 8V ~ 24V

Temperature -20°C ~ 80°C

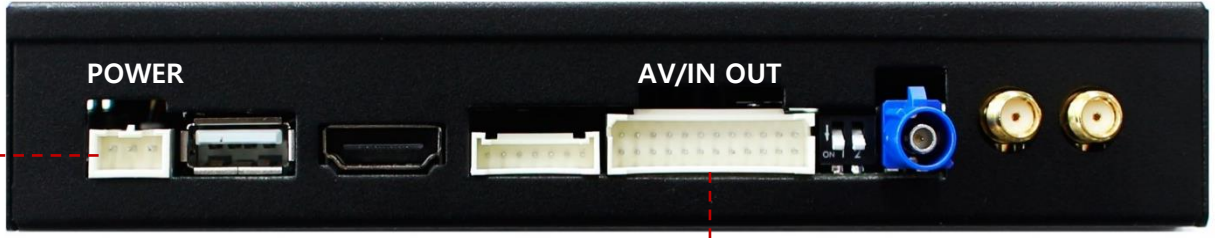
Operating -15°C ~ 70°C

CONNECTOR PIN ASSIGNMENT – POWER / AV

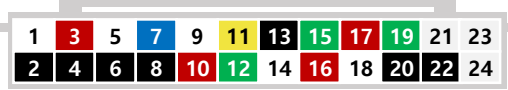
Power Cable (POWER/CAN)



1	2	3
Yellow	Black	Red
BATTERY Power	GND	ACC 12V IN

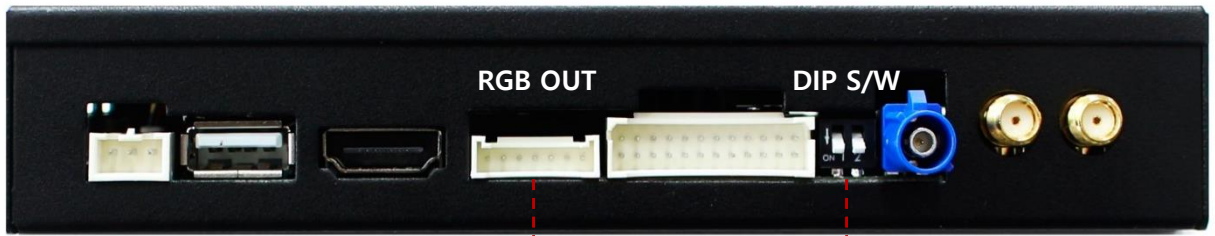


AV Cable (AV IN/OUT)



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

CONNECTOR PIN ASSIGNMENT – RGB OUT / CVBS OUT



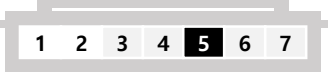
RGB OUT Cable (RGB OUT)



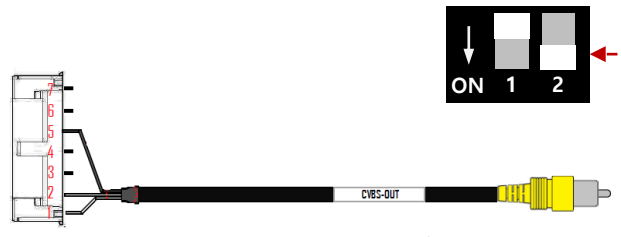
1	2	3	4	5	6	7
Red	Green	Black	White	Black		
Red	Green	Blue	C-Sync	GND	NC	NC



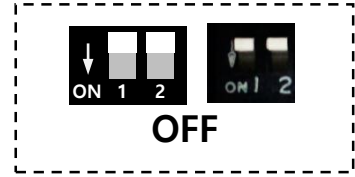
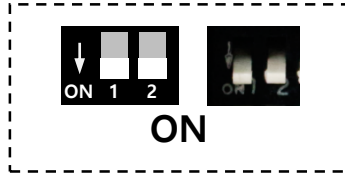
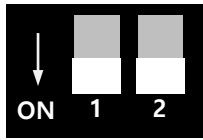
CVBS OUT Cable (RGB OUT)



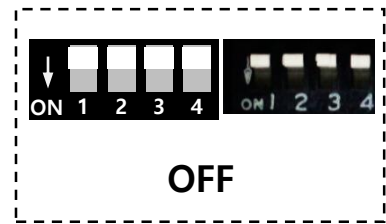
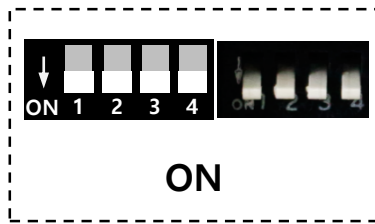
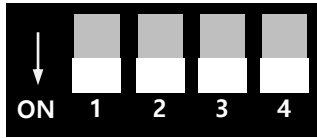
1	2	3	4	5	6	7
White	White			Black		
CVBS	CVBS	NC	NC	GND	NC	NC



DIP S/W INFORMATION



Pin No.	ON	OFF
1	RGB OUT	DIGITAL LVDS OUT CVBS OUT
2	Use External GPS Antenna (DIP S/W 2 Must ON)	Use Car GPS Cable (Option)



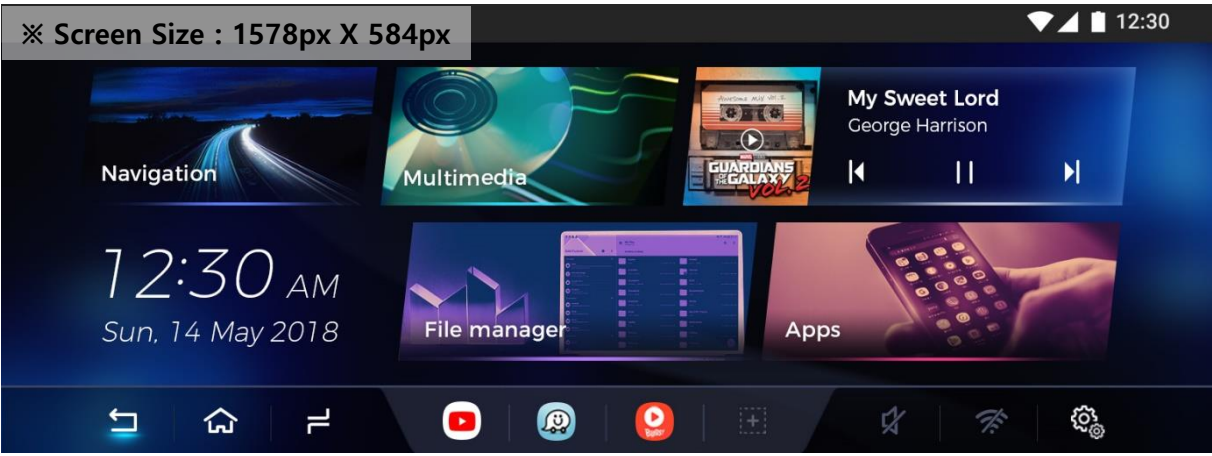
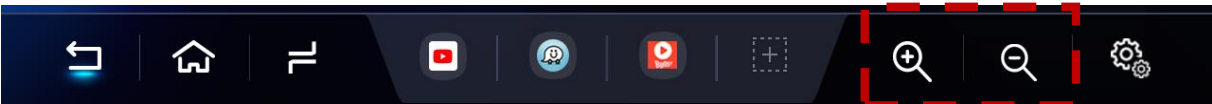
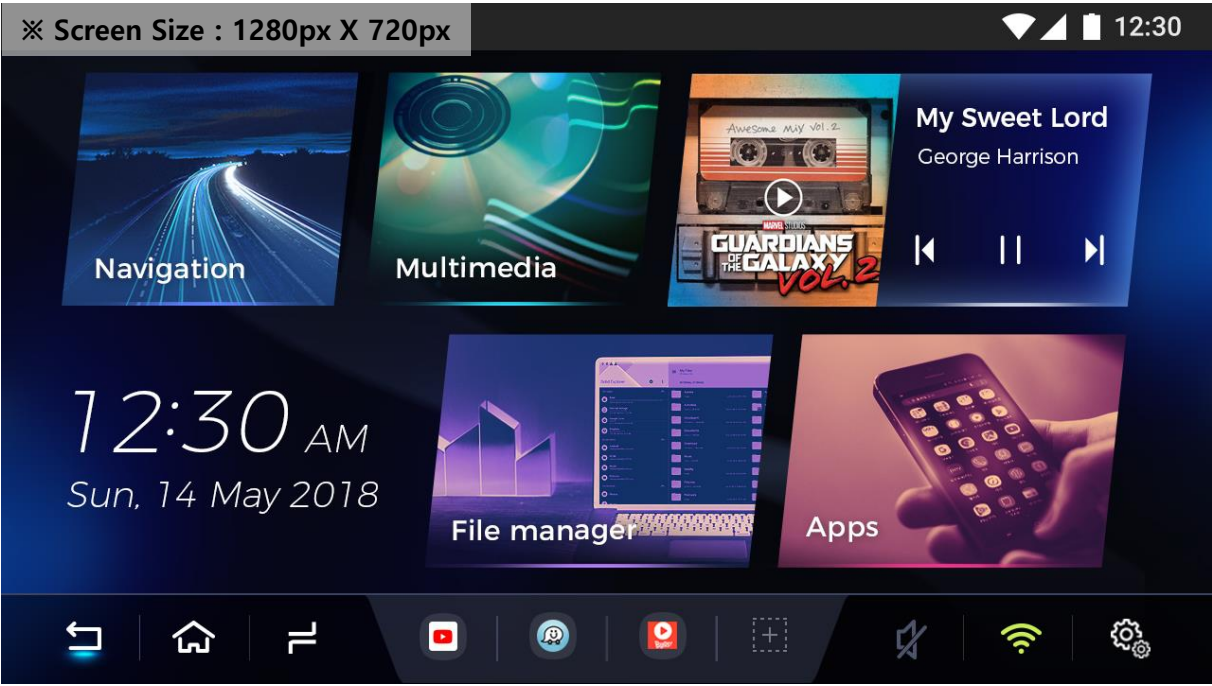
Pin No.	ON	OFF
1	Capacitive Touch	Resistive Touch, UART Touch
2	RGB 480x234	RGB 800x480
3	NC	NC
4	NC USE DIP S/W4 when DIP S/W 1 is ON	NC

	DIGITAL LVDS OUT 800x480 (Block RGB Signal) CVBS OUT		Use UART or Resistive Touch
	RGB 800x480		Use Capacitive Touch (GOODIX GT9XX)
	RGB 480x234		GPS Power OFF (Use car GPS Cable - Option)
			GPS Power ON (Use External GLONASS GPS Antenna - MUST ON)

SCREEN VIEW

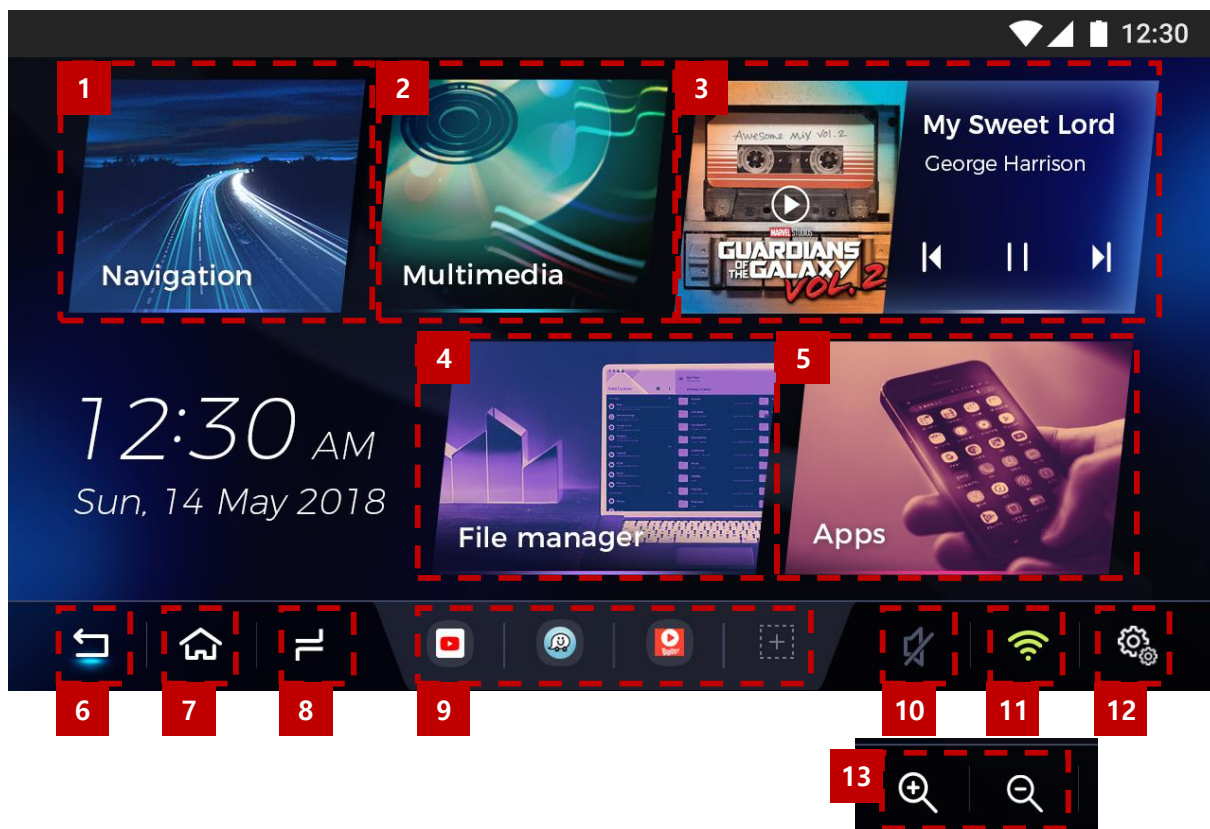
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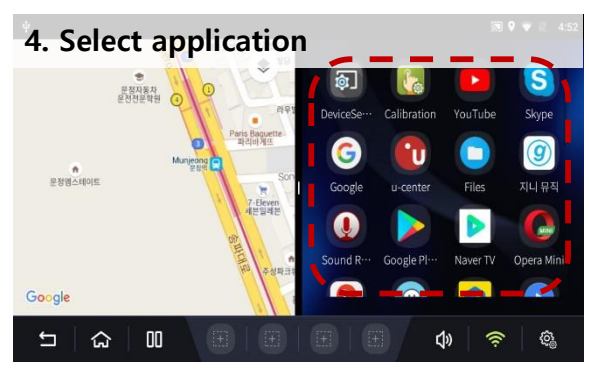
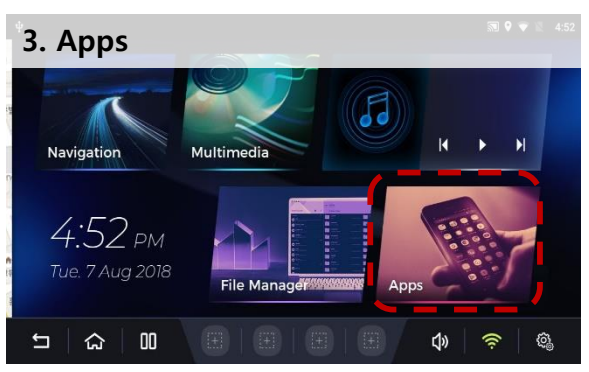
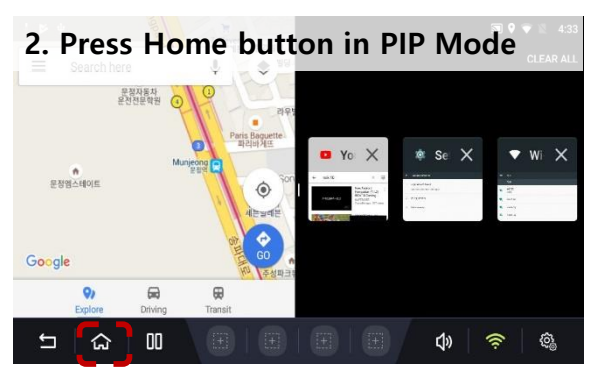
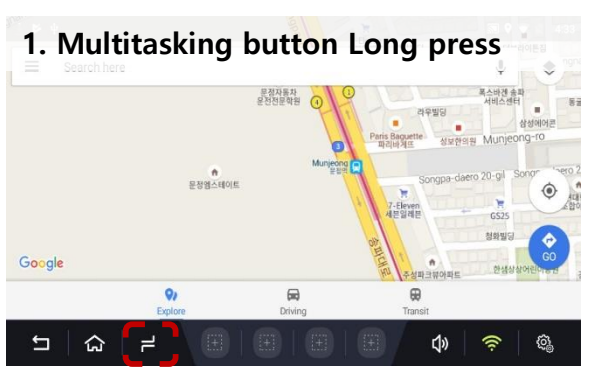
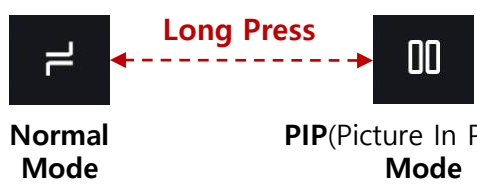
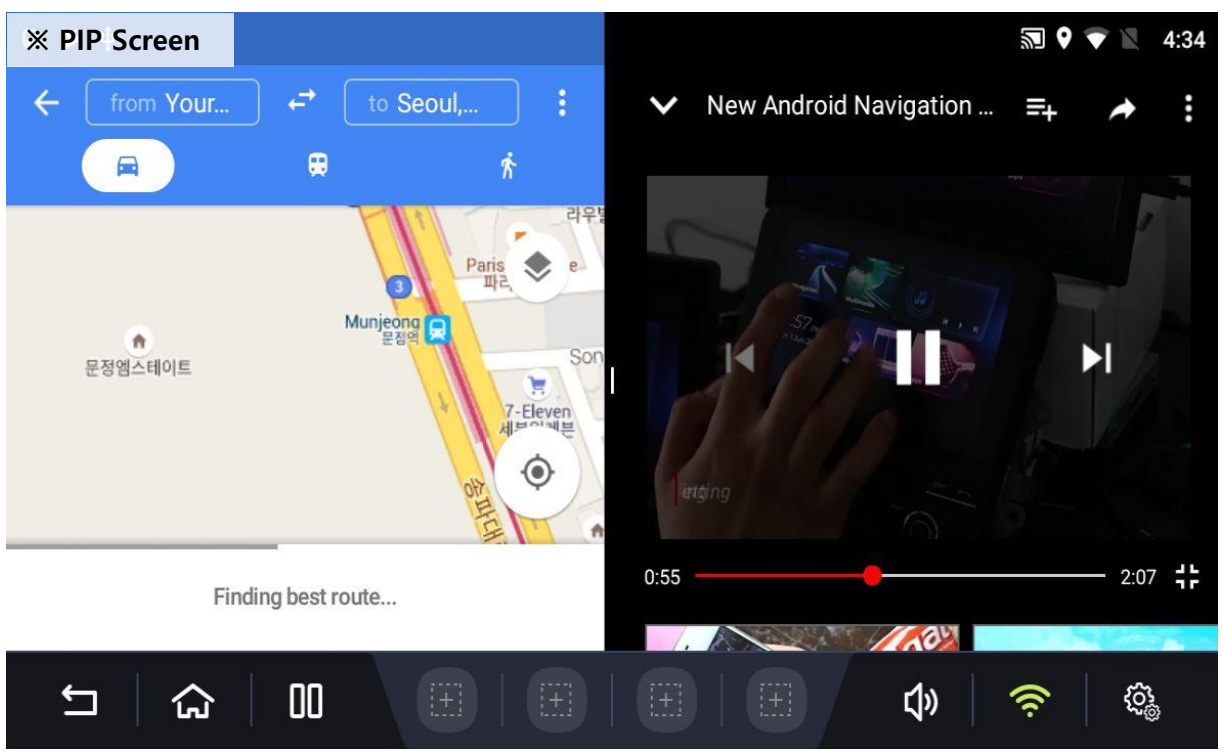
※ This icon will show when Dip s/w set to use "Resistive Touch", or it will show car have a resistive touch. automatically

SCREEN VIEW



1	NAVIGATION	Quick icon for Navigation Application
2	Multimedia	Quick icon for Multimedia Application
3	Music Player	Music player Widget
4	File Manager	Quick icon for File Manager Application
5	APPS	Application List
6	Back Button	Return
7	Home Button	Home
8	Multitasking	1. Multitasking 2. PIP Mode by Long Press
9	APP Shortcut	Quick icon
10	Sound	Volume control
11	WiFi	Open Wifi setting screen
11	Settings	Open Android Settings
12	Zoom Tool	Screen Zoom in / out

SCREEN VIEW – Split Screen Mode(PIP)

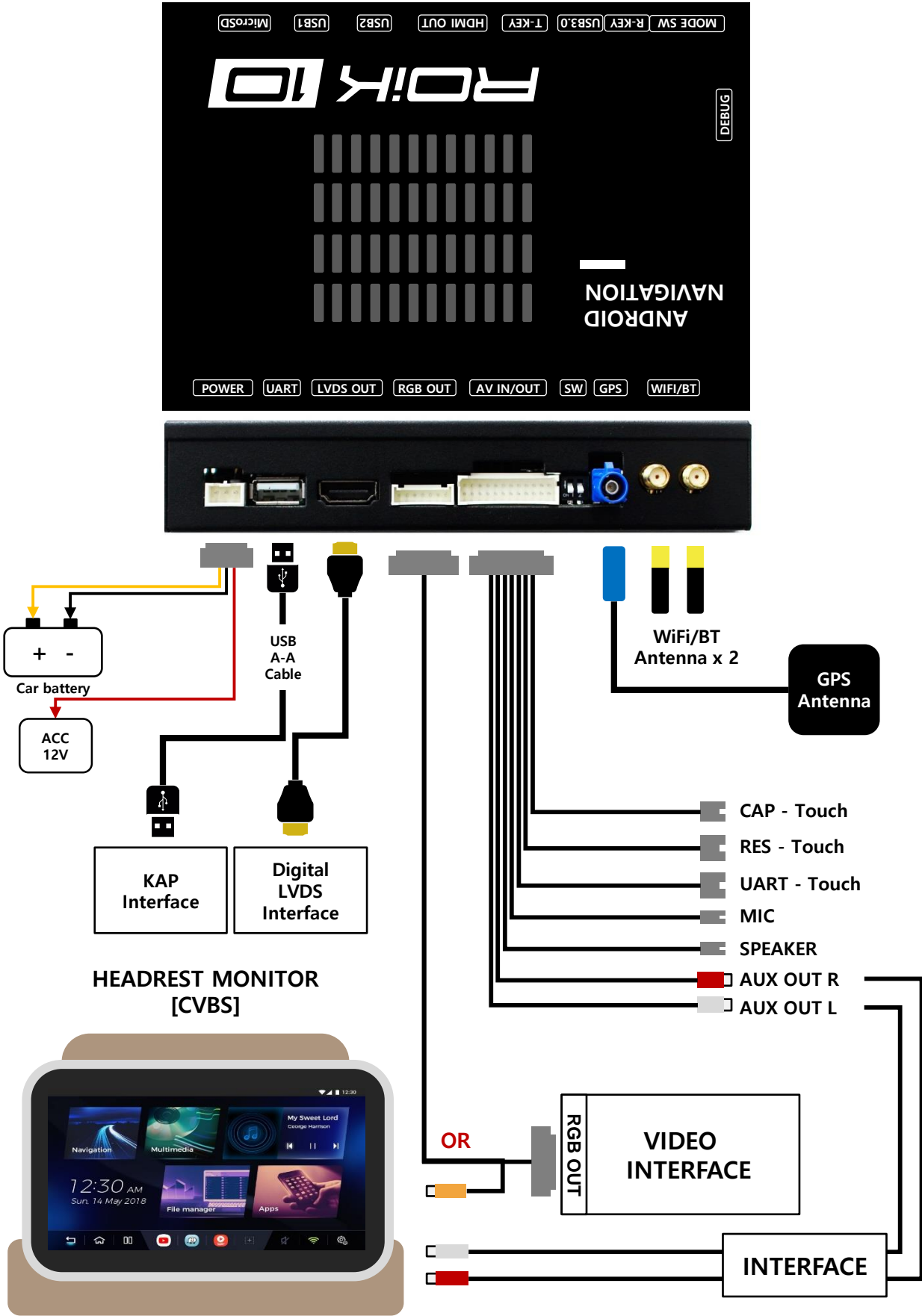


※ Some apps are not work on PIP mode

CABLE CONNECTION

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CABLE CONNECTION

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※ Play movies or music using USB or Micro-SD Card

※ Firmware update is available only by "USB1"

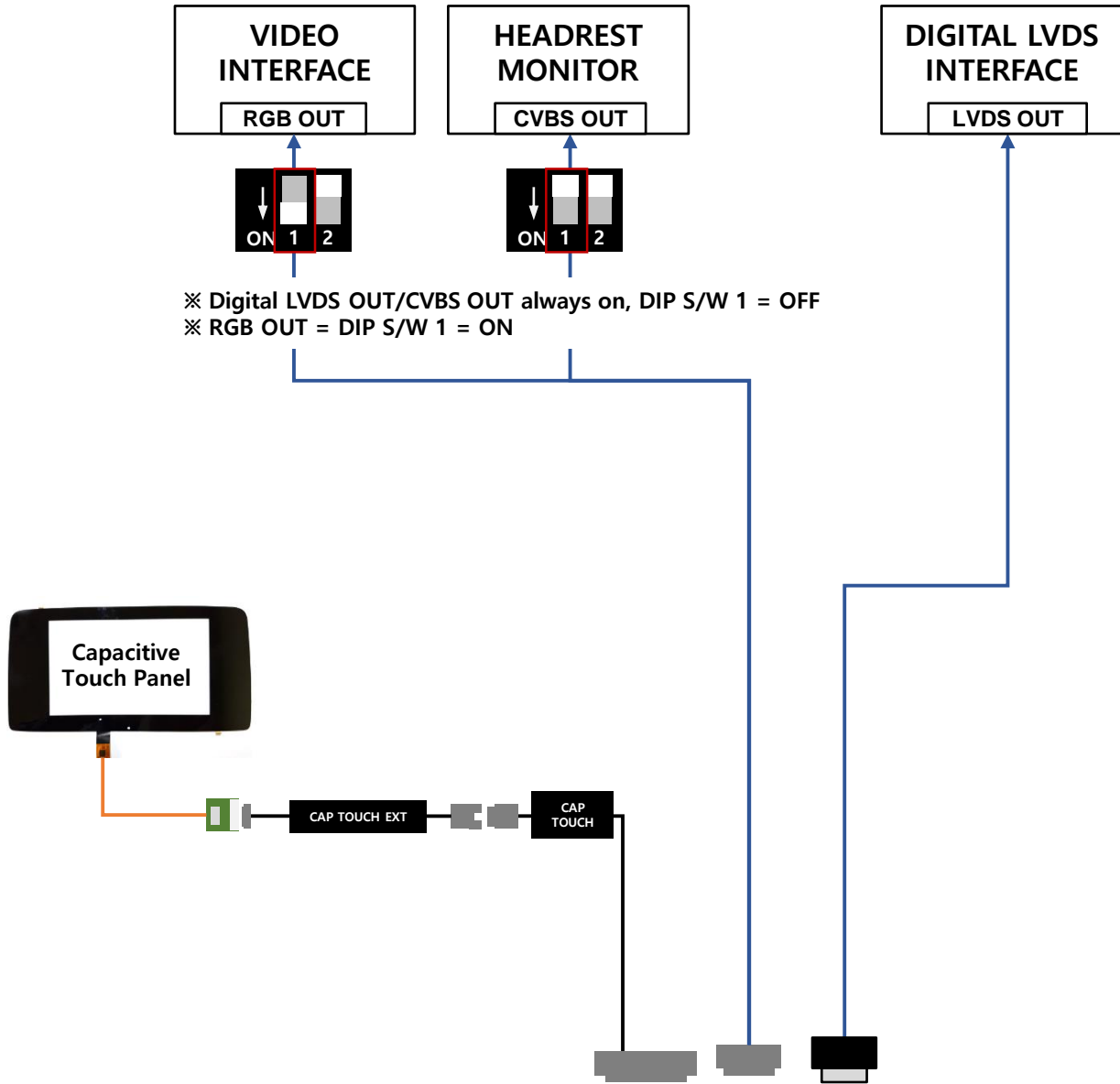
HEADREST MONITOR [HDMI]



CABLE CONNECTION – CAPACITIVE TOUCH

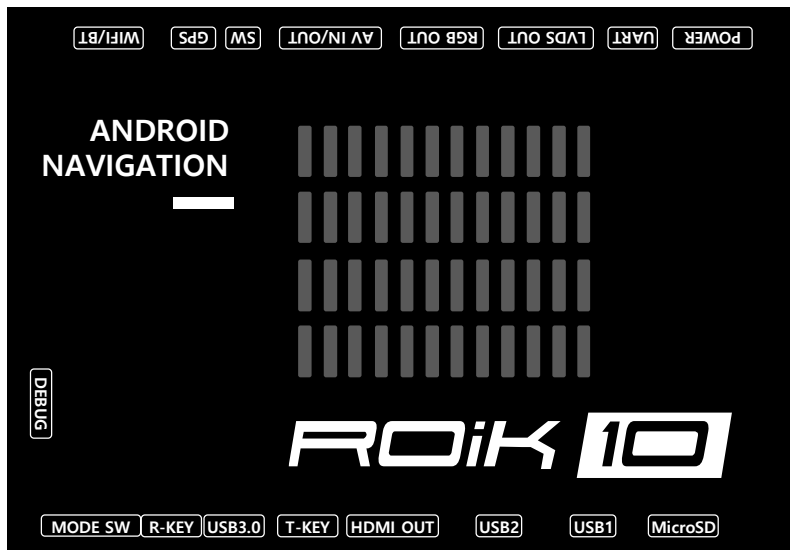
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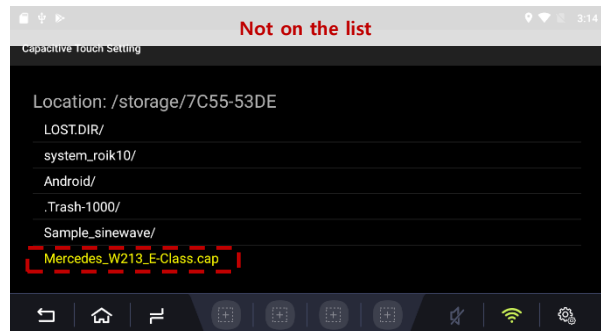
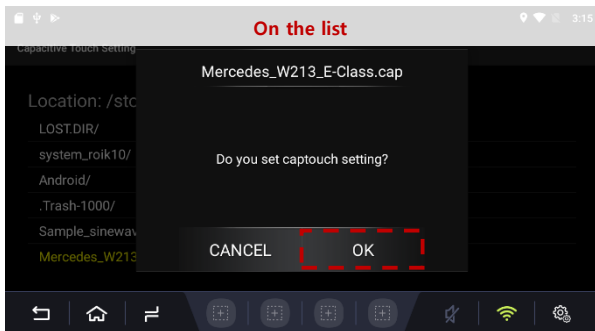
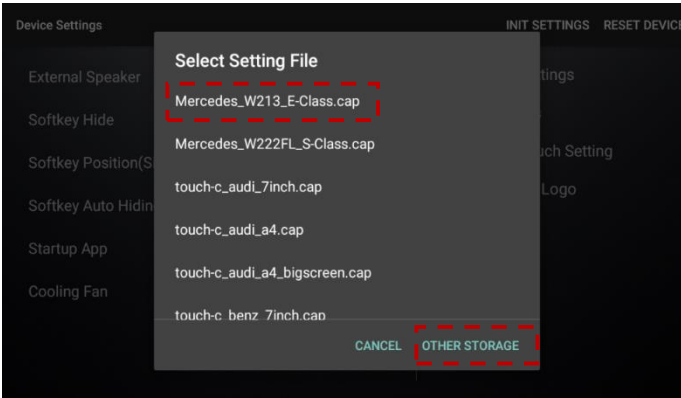
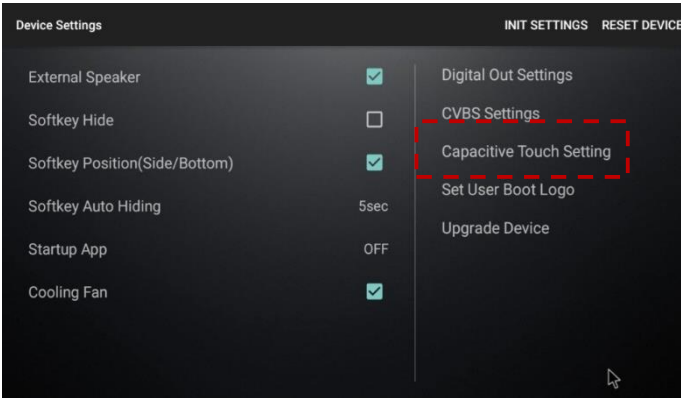
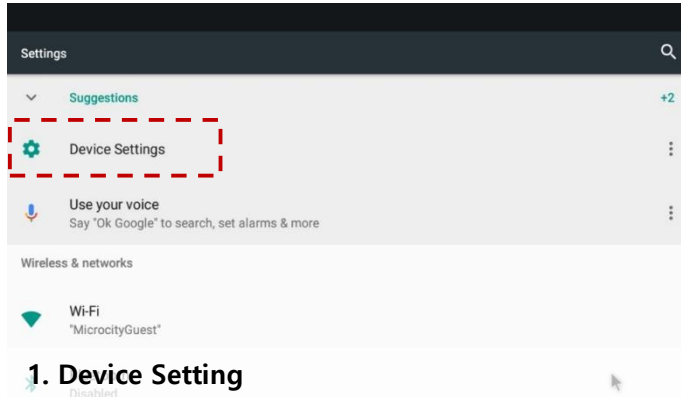


Use Capacitive Touch (Goodix GT9xx)

※ Capacitive Touch = DIP S/W 1 = ON



Capacitive Touch Setting (GOODIX GT9xx)

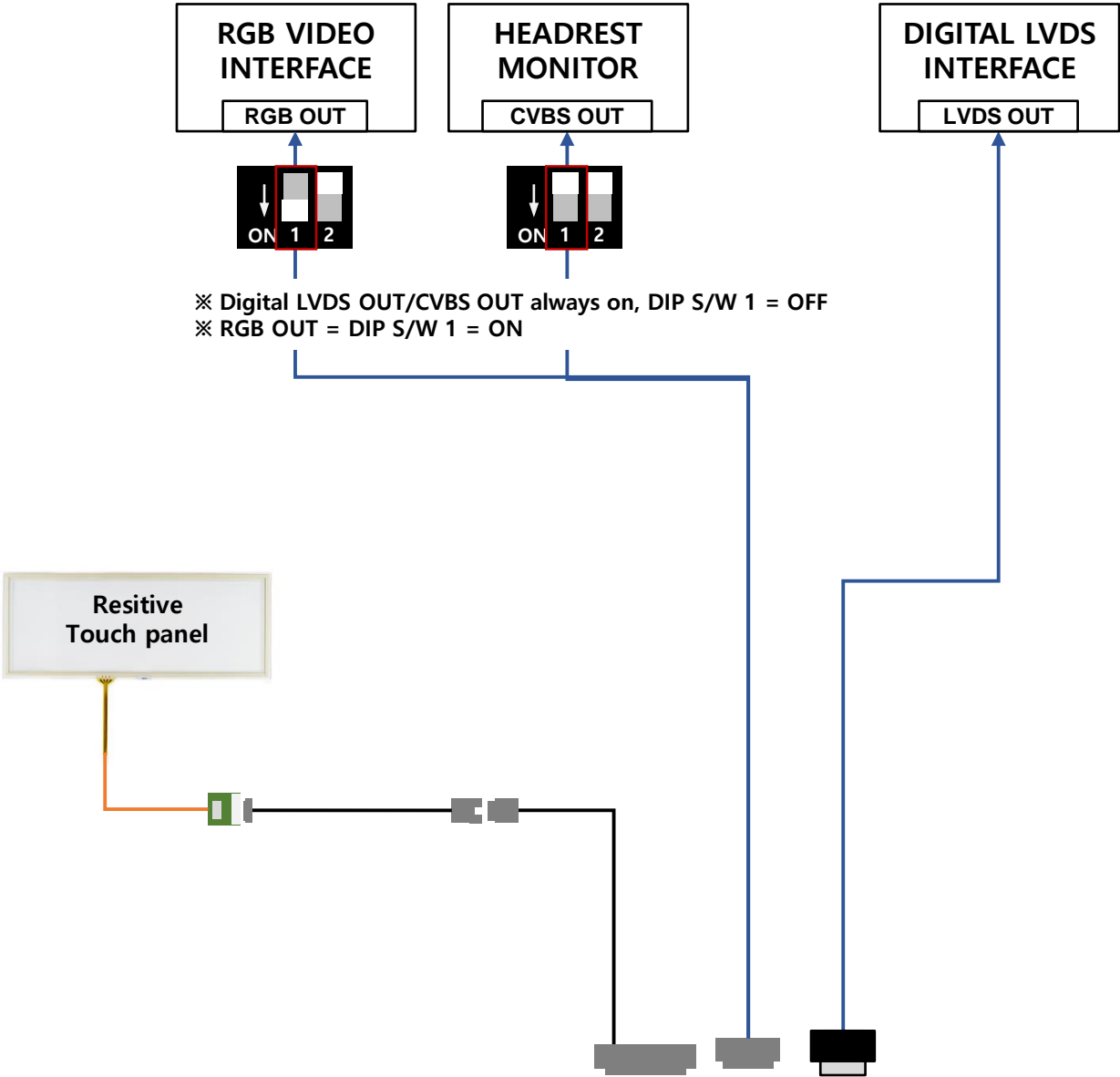


※ DIP S/W 1 = ON : Capacitive Touch Goodix GT9xx Model

CABLE CONNECTION - RESISTIVE TOUCH

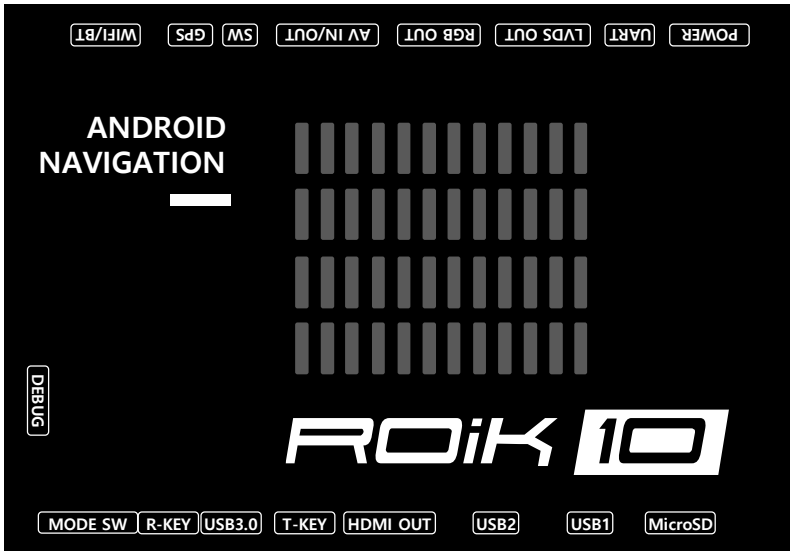
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※ Digital LVDS OUT/CVBS OUT always on, DIP S/W 1 = OFF
 ※ RGB OUT = DIP S/W 1 = ON

Resistive Touch panel



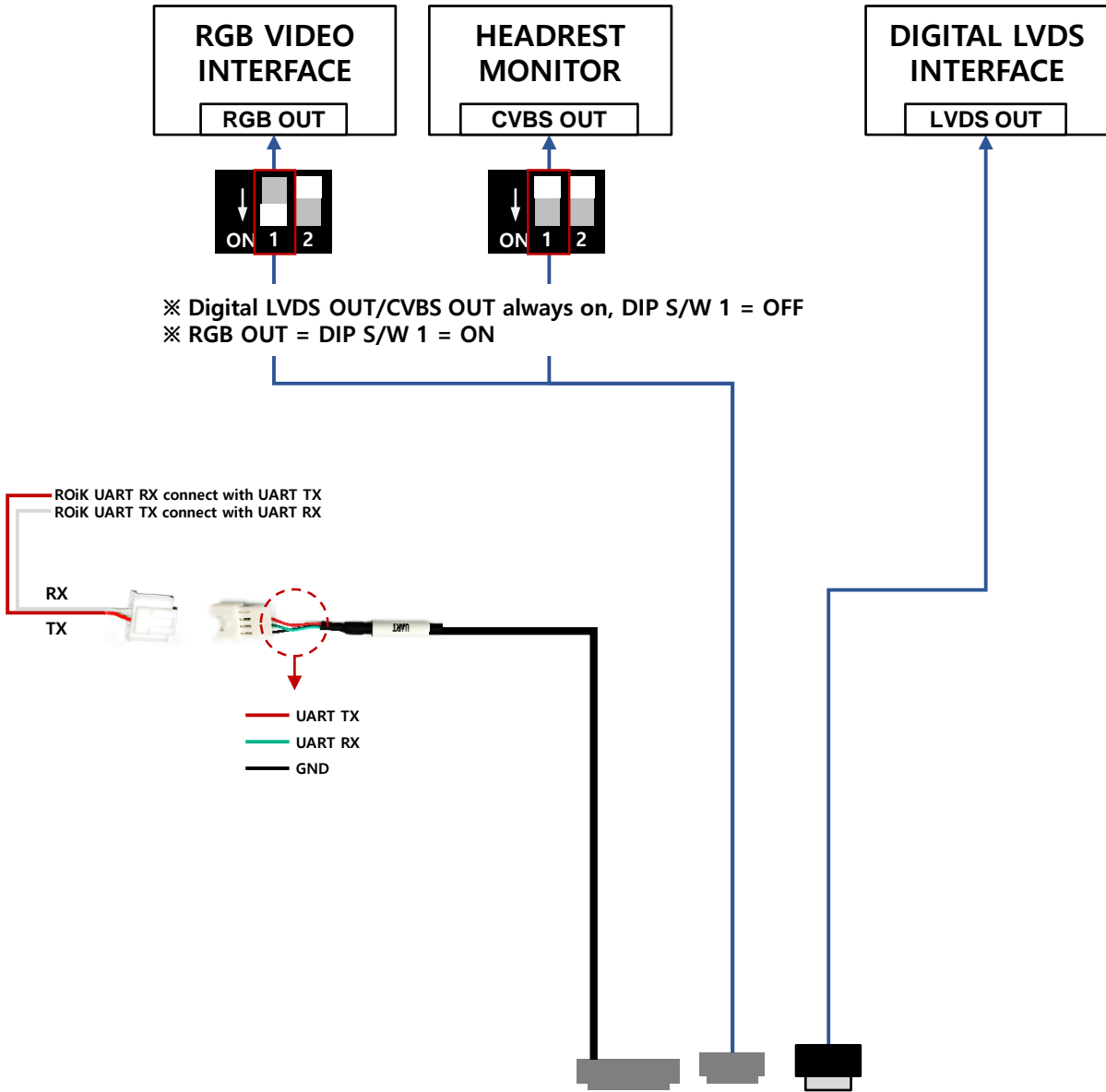
Use Resistive Touch

※ Resistive Touch = DIP S/W 1 = OFF

CABLE CONNECTION - UART TOUCH

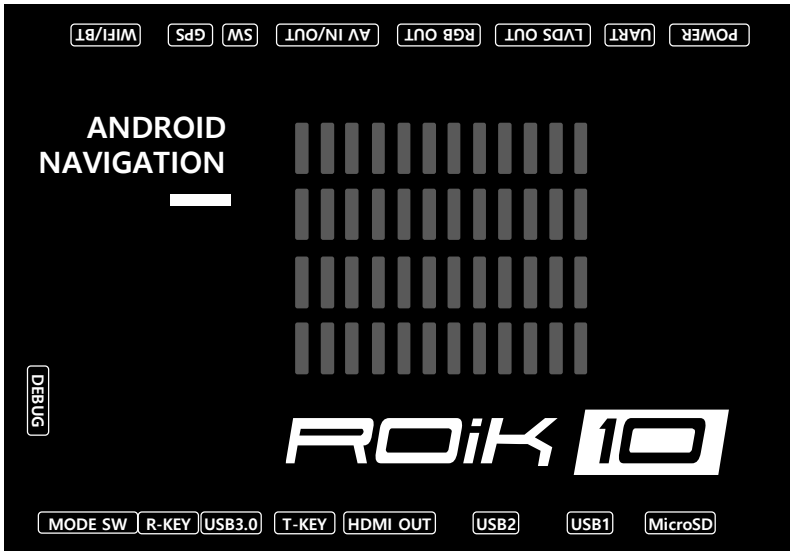
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Use UART Touch

※ UART Touch = DIP S/W 1 = OFF



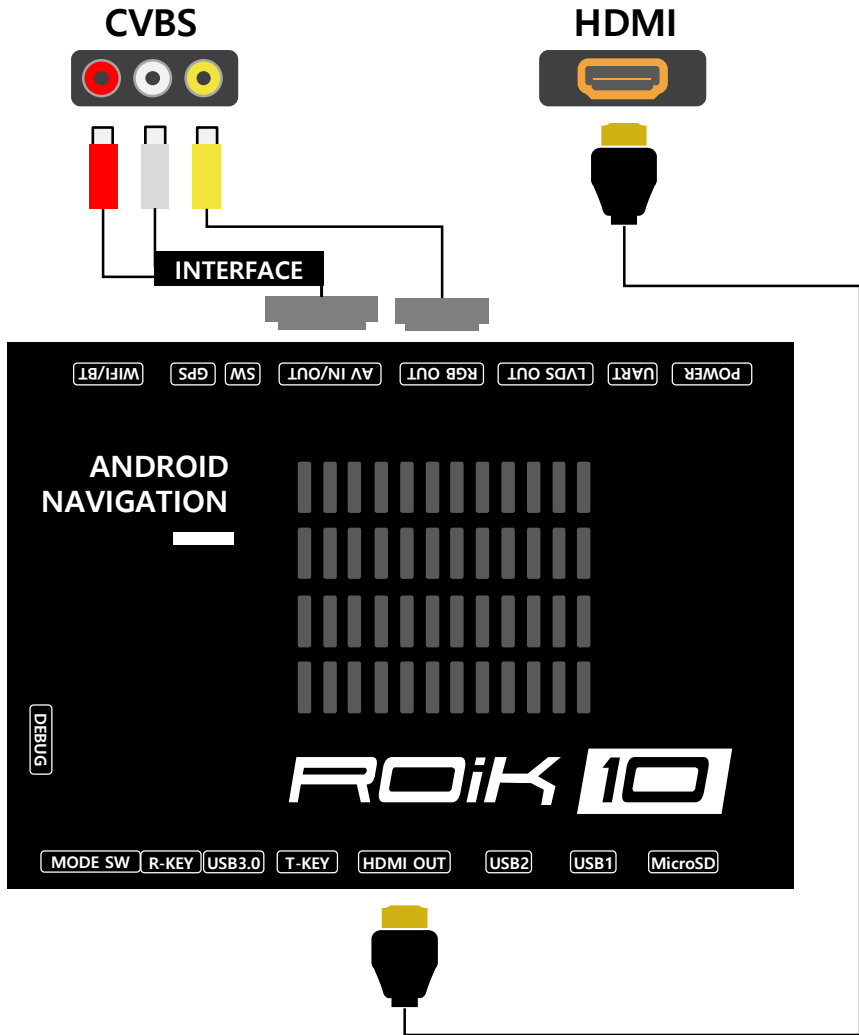
HEADREST MONITOR

[ANDROID NAVIGATION]

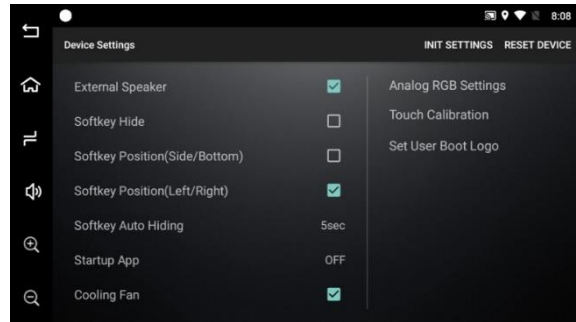
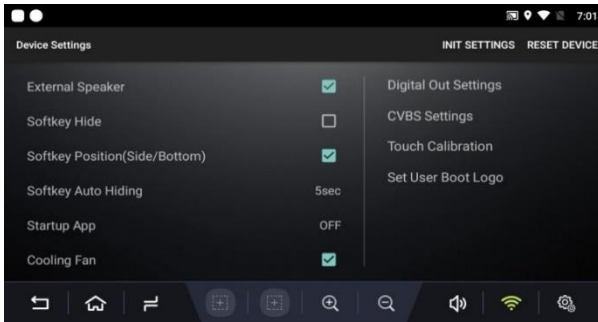
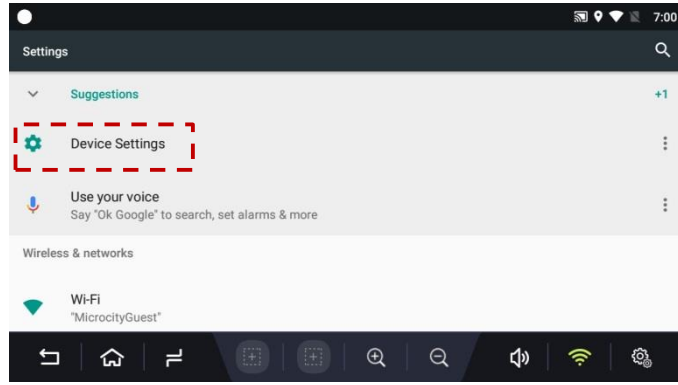
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※ Headrest Monitor (CVBS or HDMI)

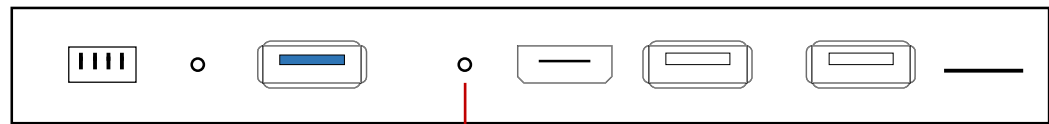


DEVICE SETTINGS

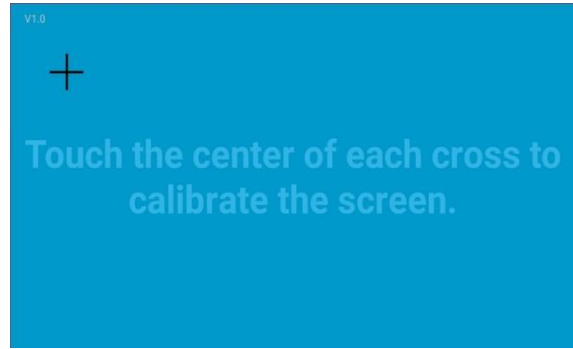


INIT SETTING	Reset settings to default
RESET DEVICE	System Reboot
Digital Out Setting (Digital Out Mode)	LVDS screen change horizontal and change h/v position
Analog RGB Setting (RGB Out Mode)	RGB 800x480 or 480x234 screen change size and position
External Speaker	Turn on/off external speaker
Softkey Position	Change HOME Menu button position to Right or Left, Side or Bottom
Softkey Auto Hiding	Change HOME Menu button automatic hiding function
Startup App	Select Startup APP
Touch Calibration	Set resistive touch calibration. (No need to set Capacitive touch panel)
Set User Boot Logo	File Format : PNG, JPG, BMP Image Size : 1280 X 720 pixel
Cooling Fan	Turn on/off Cooling Fan

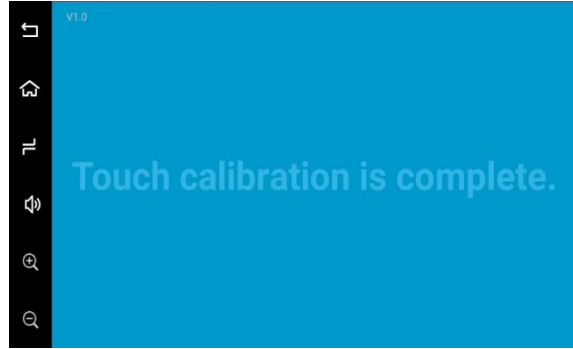
CALIBRATION-RESISTIVE TOUCH



Push button 2~3 sec after booting



Calibration mode



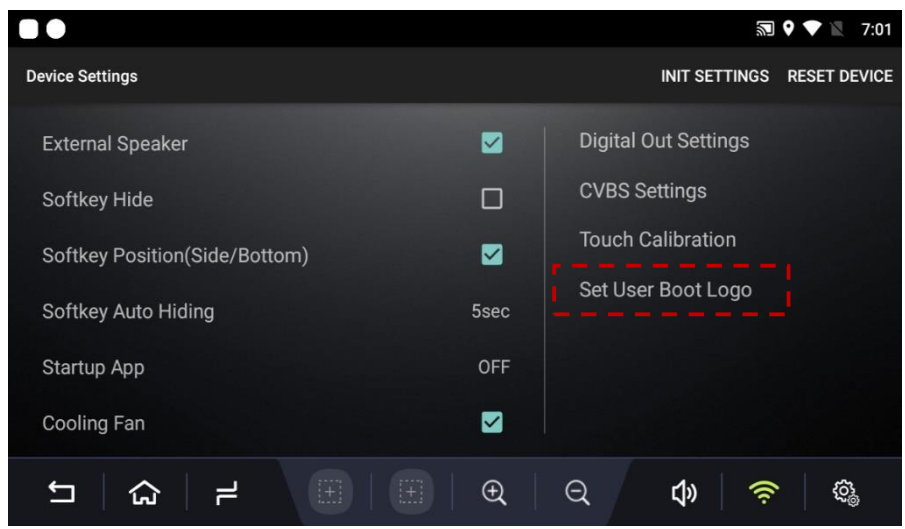
After calibration, push screen few second

※ Capacitive touch panel no need set calibration

USER LOGO UPDATE

Set User Boot Logo Activate

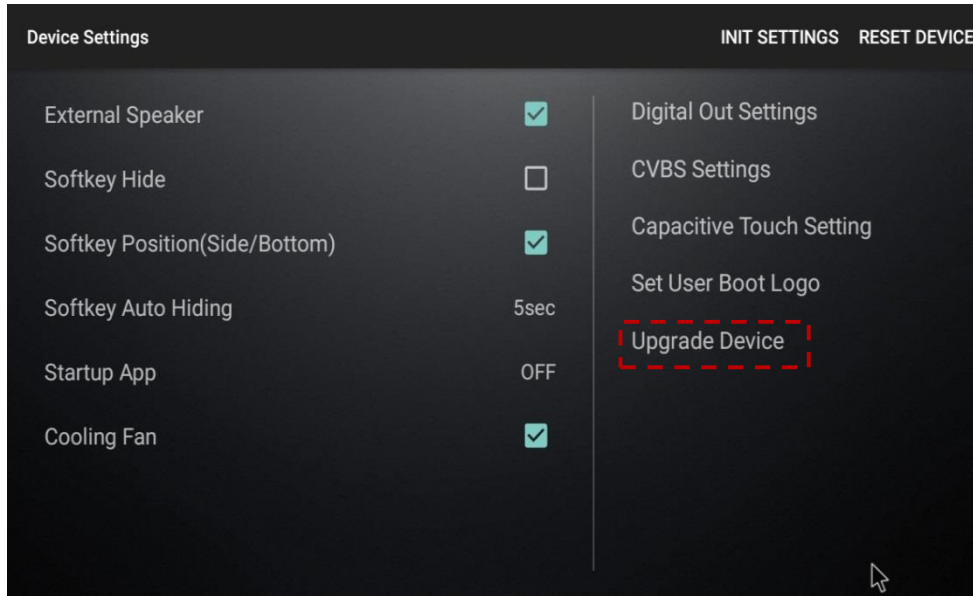
1. Run Device Setting App
2. Click 'Set Use Boot Logo' and select boot logo image.



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

FIRMWARE UPGRADE

A Recommend



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

Select Upgrade Menu, it will start upgrade

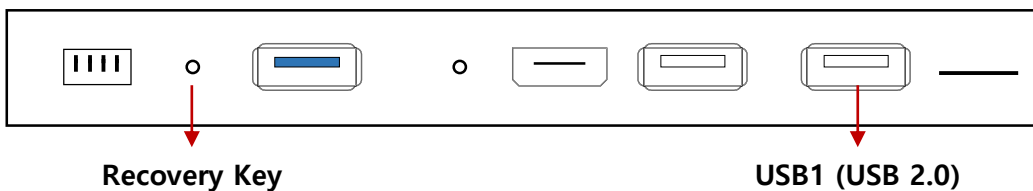
*'/usb disk/system_roik10' Folder have 'update.img' file

* 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

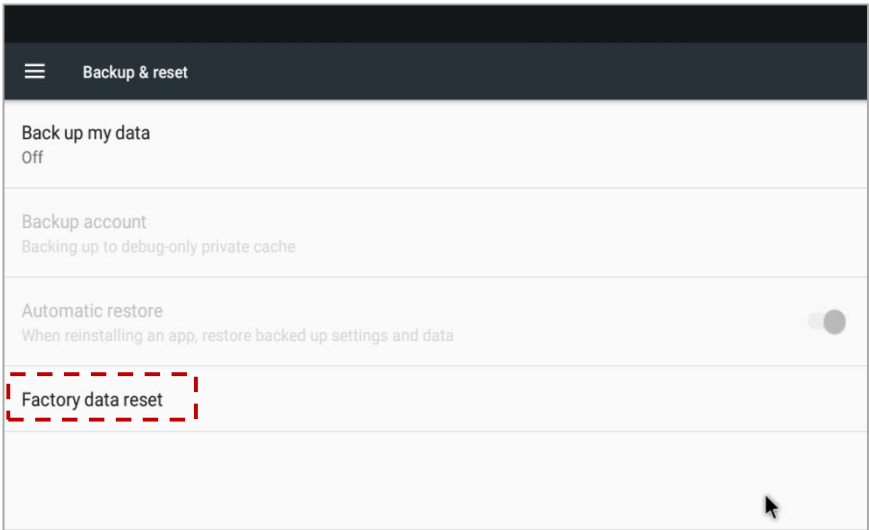
*'/usb disk/system_roik10' Folder have 'update.img' file

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

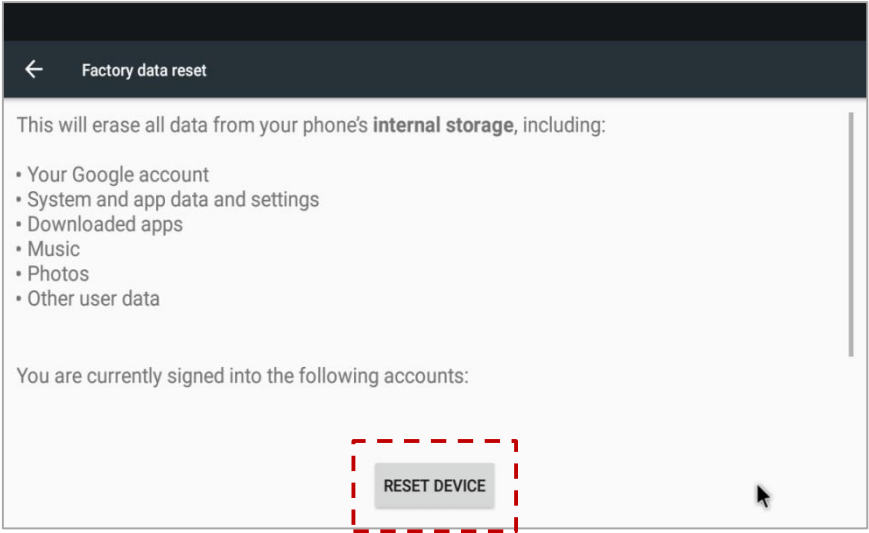
※ USB format type = FAT32 / use on USB1 Port only.

FACTORY RESET

A Recommend



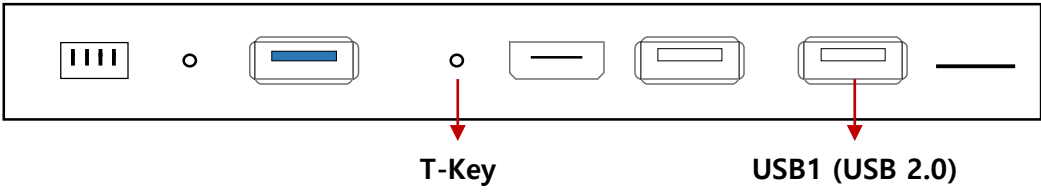
- 01. Setting
 - ▶ Backup & Reset
 - ▶ Factory data Reset



- 02. Select "RESET DEVICE"
= Factory Reset
Wait until restart unit

※ After reboot system, it takes 3~4 min

B



Re-connect power cable While Press button

※ After reboot system, it takes 3~4 min



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