

ROiK2 Digital Version



- MODEL : ROiK2 Digital
- DATE : 2016.08.26

1. Main Spec.

OS : Android 5.0.2(Lollipop)

CPU : NXP4330Q - Cortex-A9 Quad Core @1.4Ghz Mali-400 MP4 GPU

Memory : 1GB DDR3 @800Mhz

SD Card : 8GB (SDHC Class10, Max 32GB support, FAT32)

USB : USB2.0 High Speed Port x 2

Telecommunication : 802.11 b/g/n WiFi, Bluetooth 4.0

GPS : Ublox7

Touch : Resistor and Capacitive touch support both

RGB : 800x480 / 480x234

LVDS OUT : Digital 800x480 LVDS OUT

Speaker : 2W

FM Transmitter : 88.0Mhz~108.0Mhz

I/O : AV IN, Stereo Audio Out

Voltage: DC 12V ~ 24V

Temperature : Storage -20 C ~ +80 C/ Operating -15 C ~ +70 C

Size: 122mm(W) x 88mm(H) x 23mm(D)

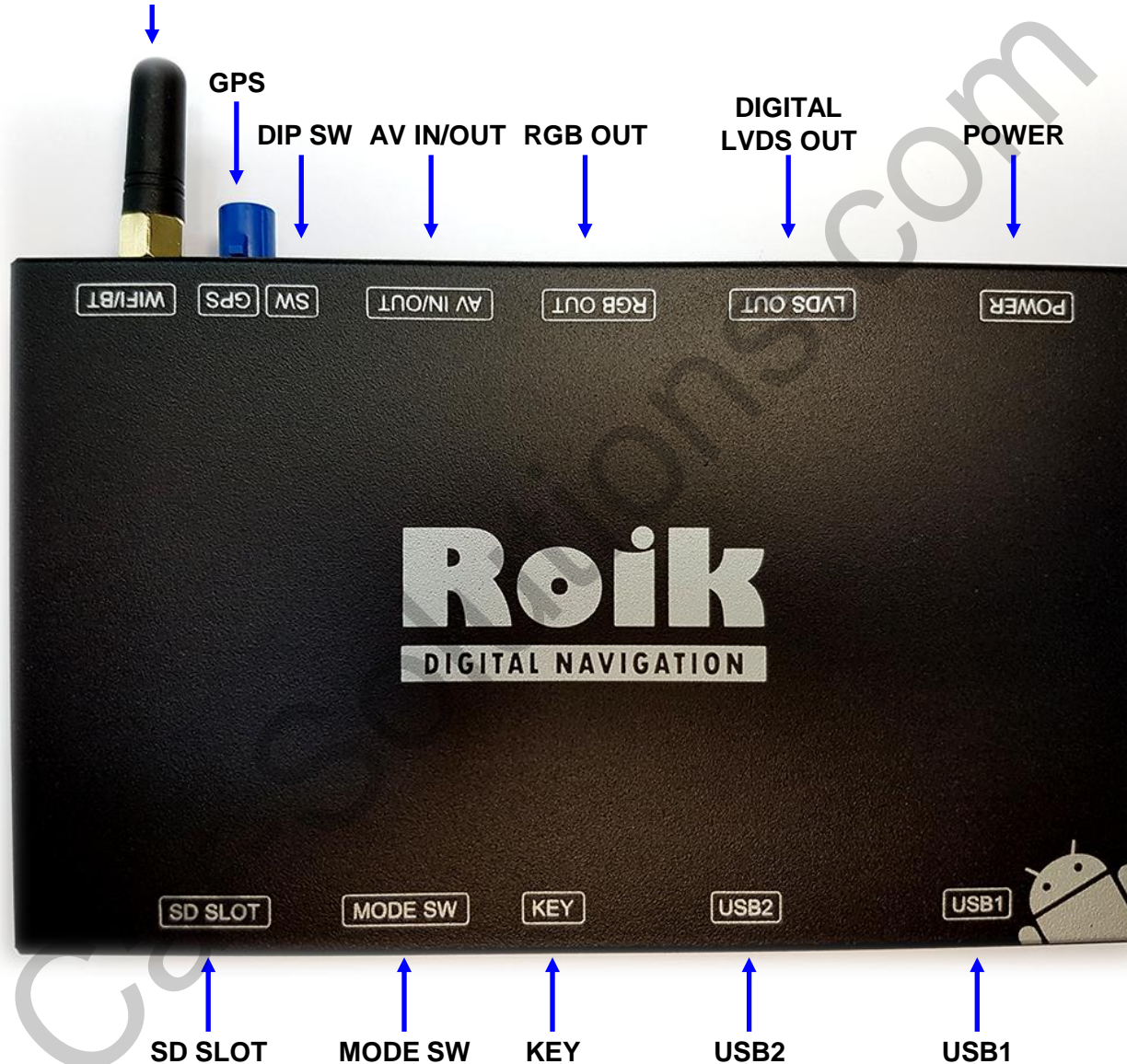
Weight : 184g

2. Dimension

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



3. External Appearance - 1



4. External Appearance - 2



↑
WIFI/BT

↑
GPS

↑
DIP SW

↑
AV IN/OUT

↑
RGB OUT

↑
DIGITAL
LVDS OUT

↑
POWER



↑
SD SLOT

↑
MODE SW

↑
KEY

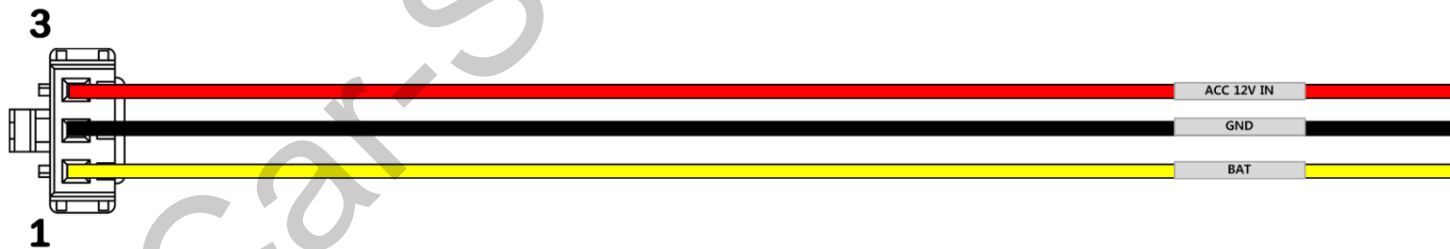
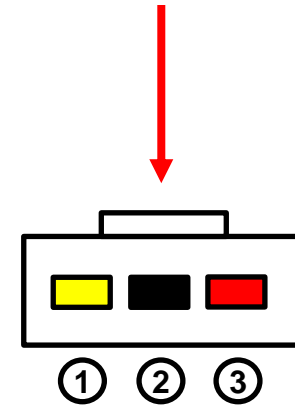
↑
USB2

↑
USB1

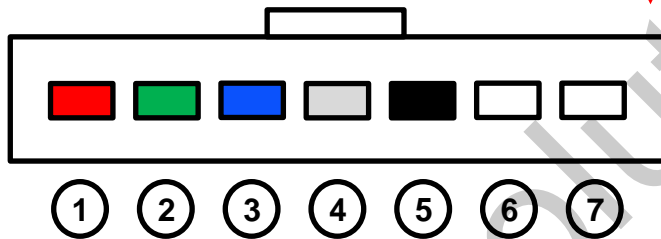
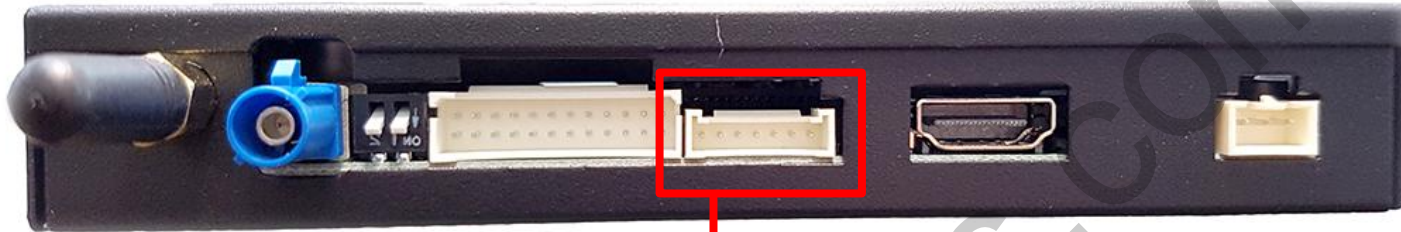
5. Power Connector Pin Assignment



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



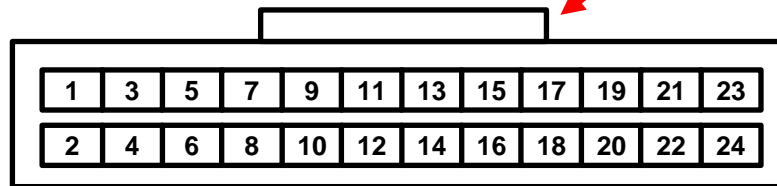
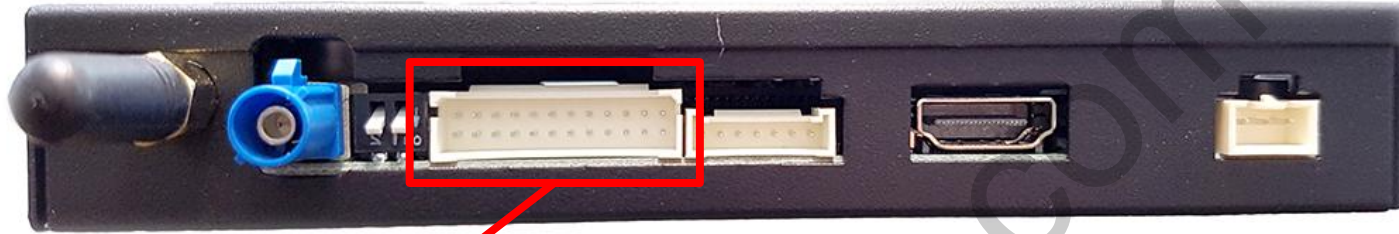
6. RGB OUT Connector Pin Assignment



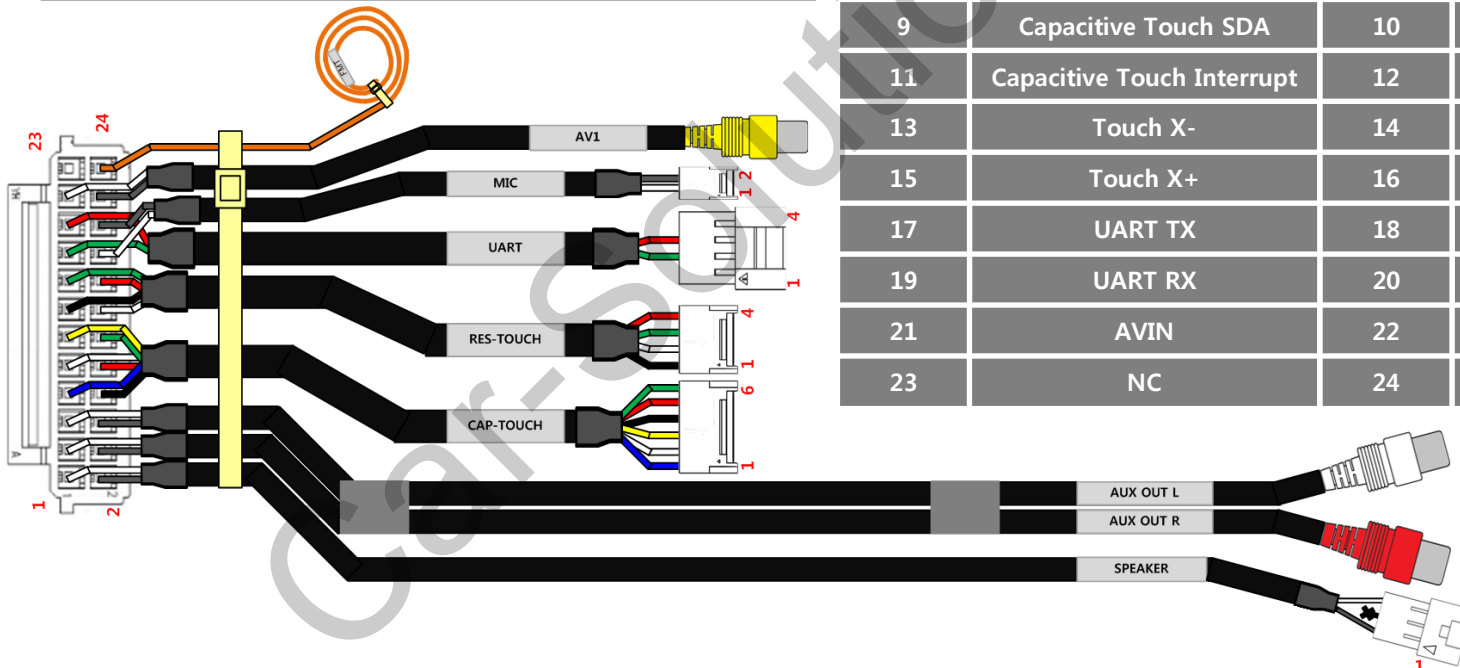
1	Red
2	Green
3	Blue
4	C-Sync
5	GND
6	NC
7	NC



7. AV IN/OUT Connector Pin Assignment



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 ANTENA



8. Product Composition



GPS Box



Power Cable



AV Cable



RGB OUT Cable



External GPS Antenna



MIC



Capacitive Touch Cable



Resistor Touch Cable



Speaker



SD Card



WiFi/BT Antenna



LVDS OUT HDMI Cable

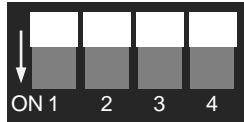
9. DIP S/W Setting

* ON : DOWN, OFF : UP



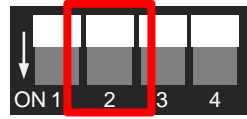
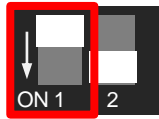
PIN	OFF	ON
1	DIGITAL LVDS OUT	RGB OUT
2	Use Car GPS Cable (Option)	Use External GPS Antenna

*** DIP S/W 2 Must ON**

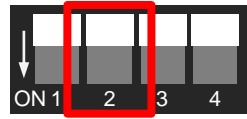
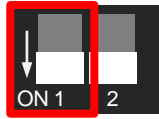


PIN	OFF	ON
1	Resistor Touch, UART Touch	Capacitive Touch
2	RGB 800x480	RGB 480x234
3	NC	NC
4	Capacitive touch – Normal	Capacitive touch – BENZ S-Class(12.3")

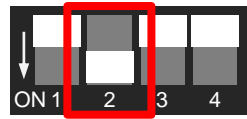
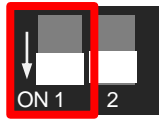
10. DIP S/W Setting 2



DIGITAL LVDS OUT 800x480 (Block RGB Signal)



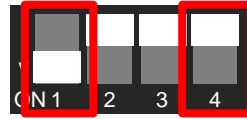
RGB 800x480



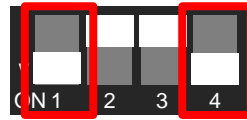
RGB 480x234



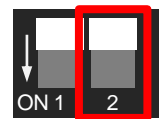
Use UART or Resistor Touch



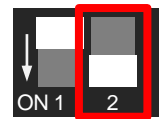
Use Capacitive Touch (Normal)



Use Capacitive Touch (BENZ S-Class(12.3"))

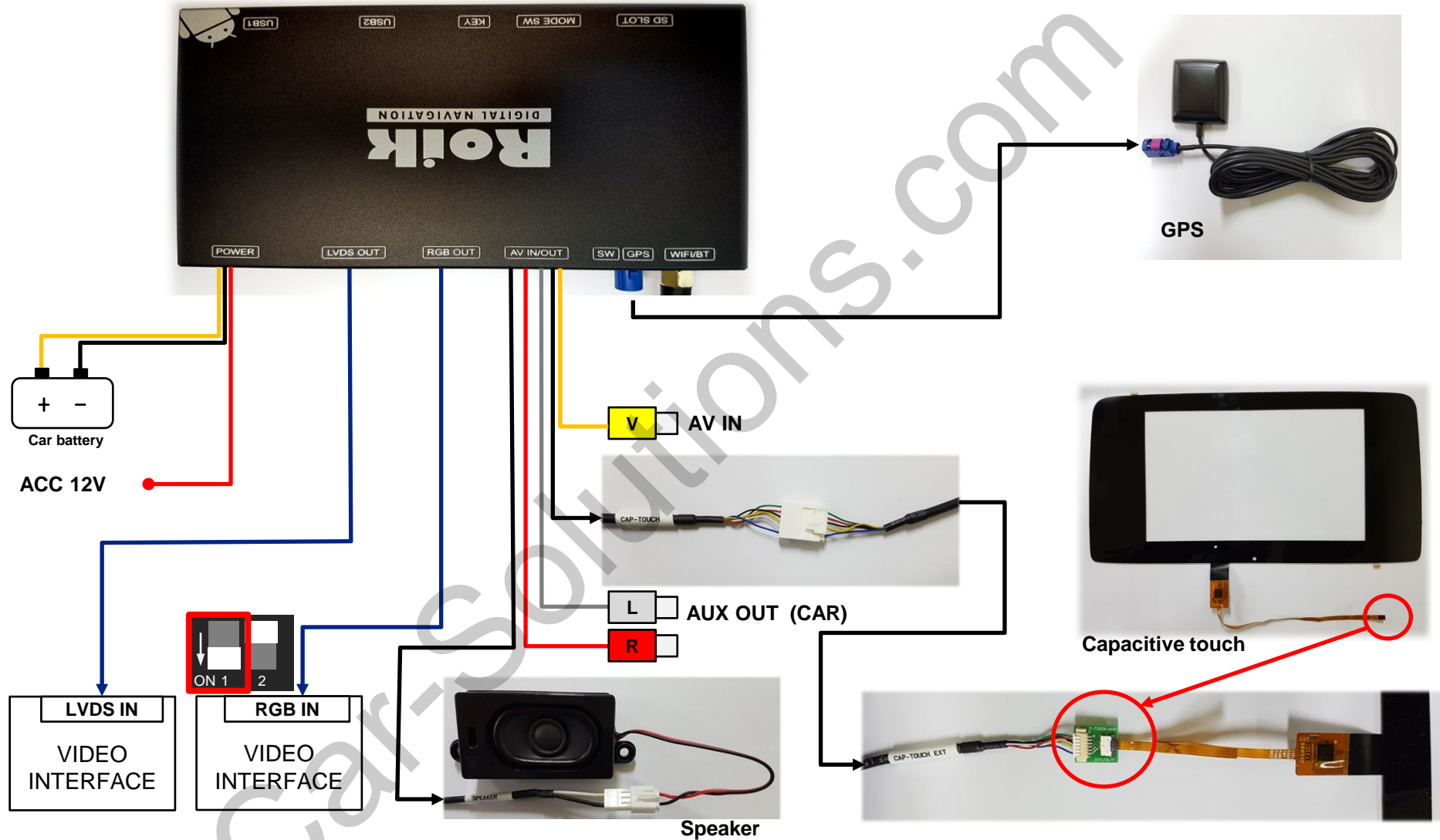


GPS Power OFF(Use car GPS Cable – Option)



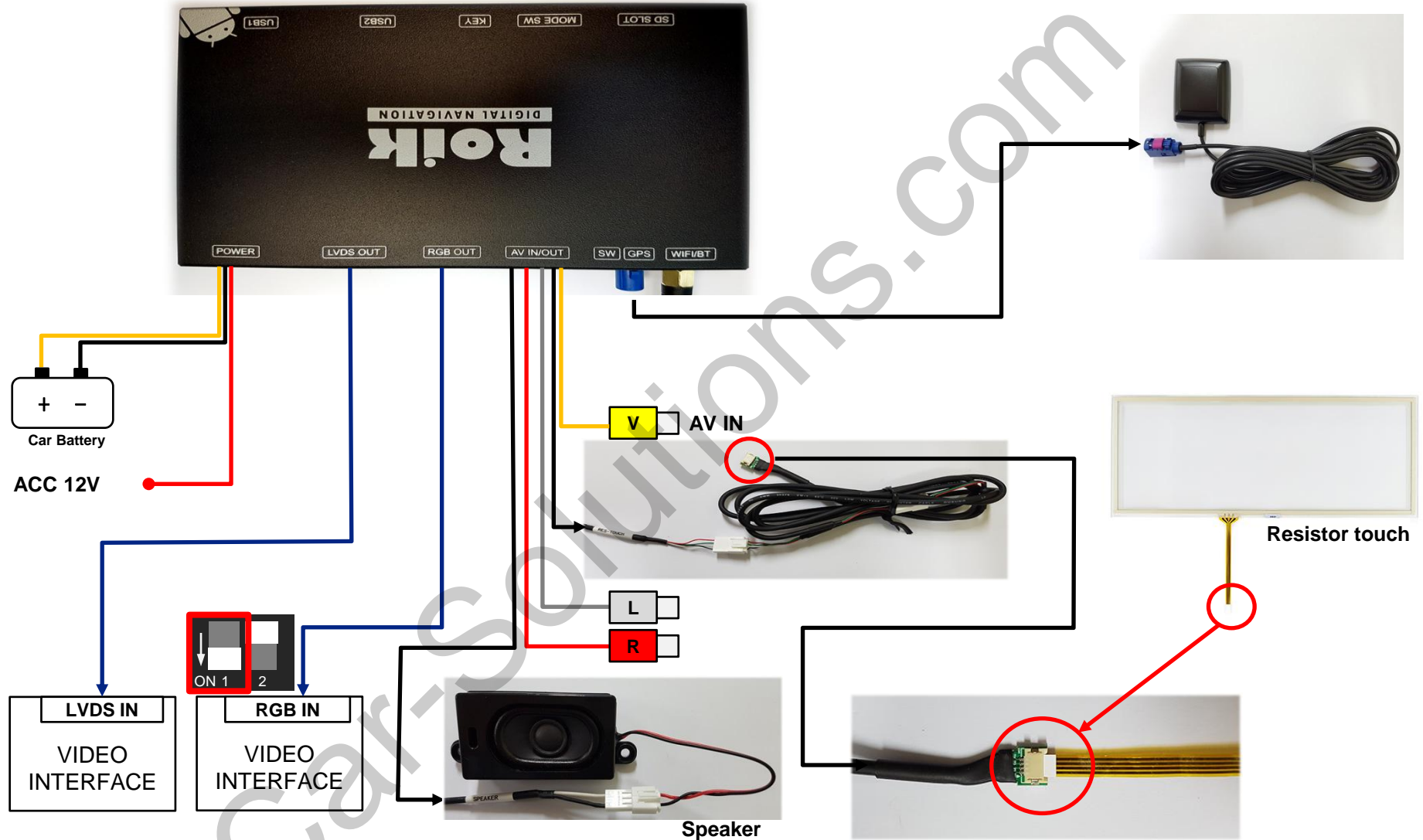
GPS Power ON(Use External GPS Antenna– **MUST ON**)

11. Install Manual - Capacitive touch



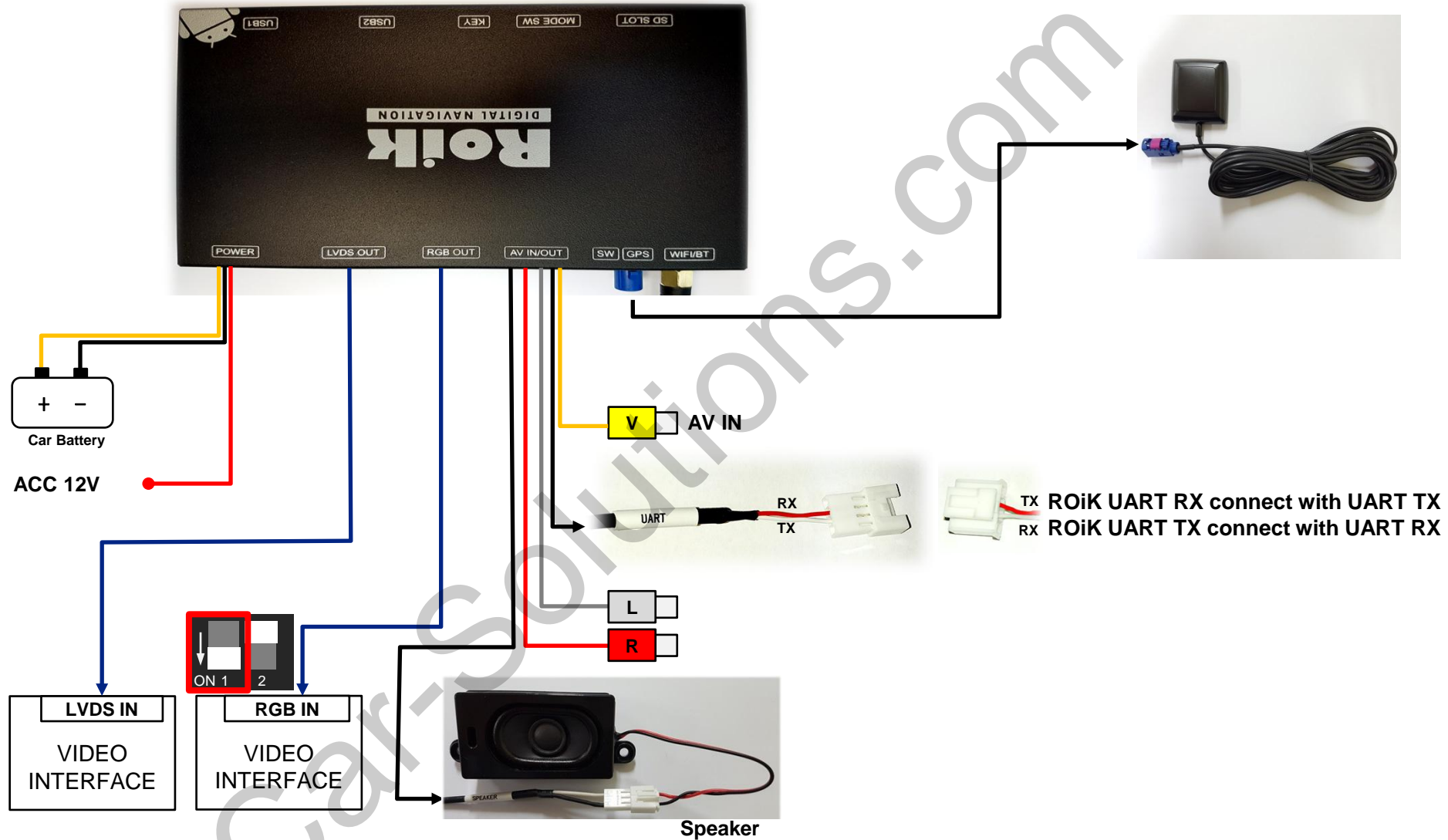
- * Digital LVDS OUT always on , DIP S/W 1 = OFF
- * RGB OUT = DIP S/W 1 = ON
- * Touch = Set DIP S/W 1, 4

12. Install Manual - Resistive touch



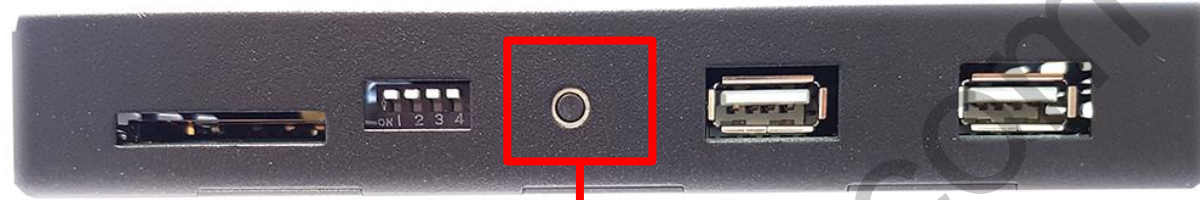
- * Digital LVDS OUT always on , DIP S/W 1 = OFF
- * RGB OUT = DIP S/W 1 = ON
- * Touch = Set DIP S/W 1, 4

13. Install Manual – UART touch

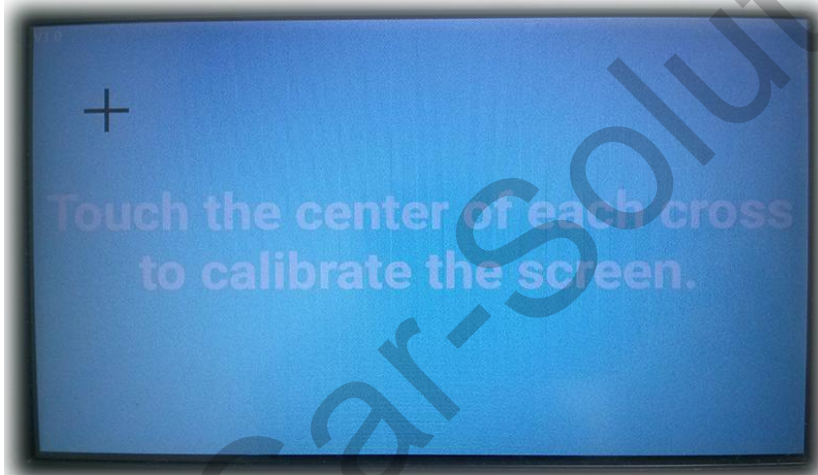


- * Digital LVDS OUT always on , DIP S/W 1 = OFF
- * RGB OUT = DIP S/W 1 = ON
- * Touch = Set DIP S/W 1, 4

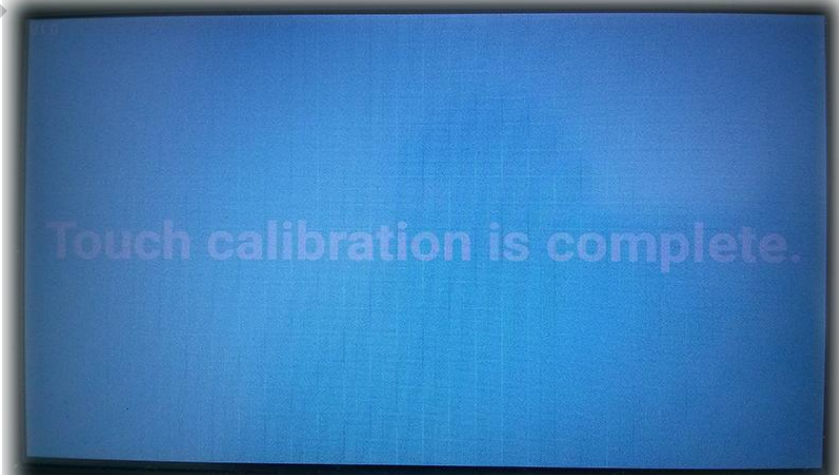
14. Calibration – Resistive touch



Push button 8~10 sec after booting



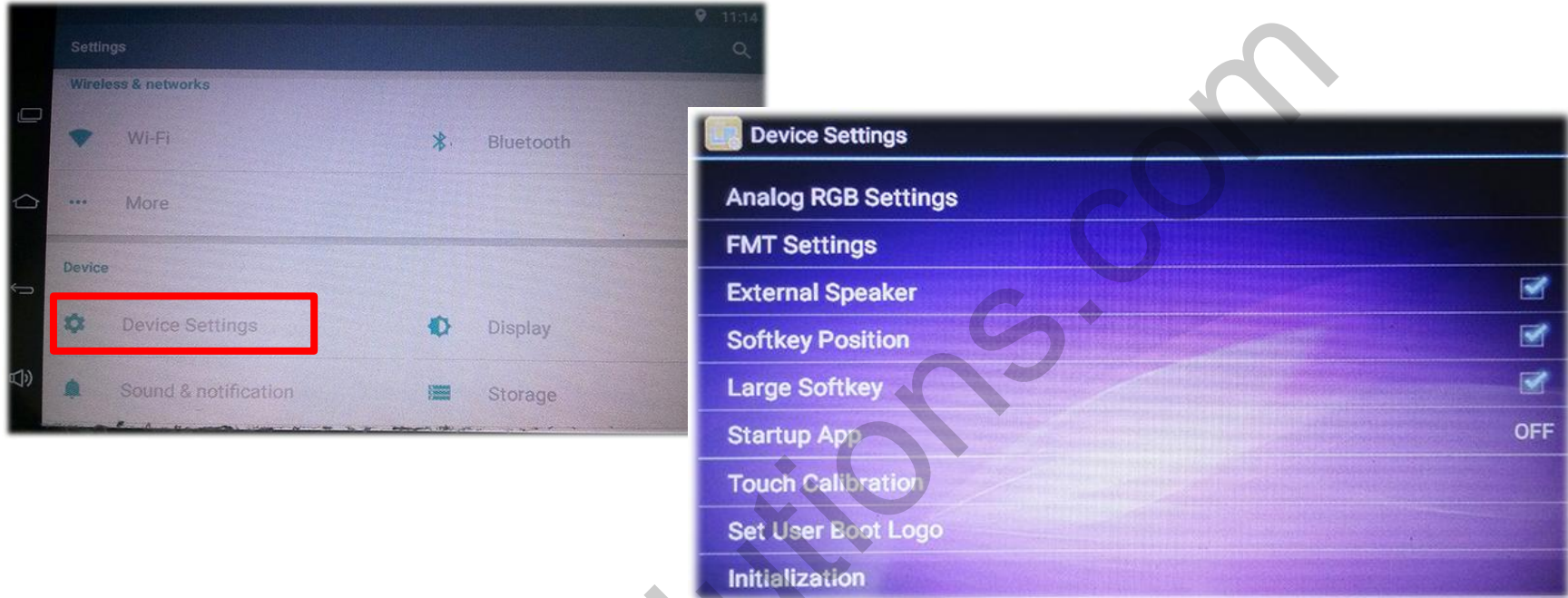
Calibration mode



After calibration, push screen few second

*** Capacitive touch panel no need set calibration**

15. Device Settings



Analog RGB Setting : RGB 800x480 or 480x234 screen change size and position

FMT Setting : Setting FM frequency

External Speaker : Turn on/off external speaker

Softkey Position : Change HOME Menu button position to Right or Left

Large Softkey : Change HOME Menu button Size

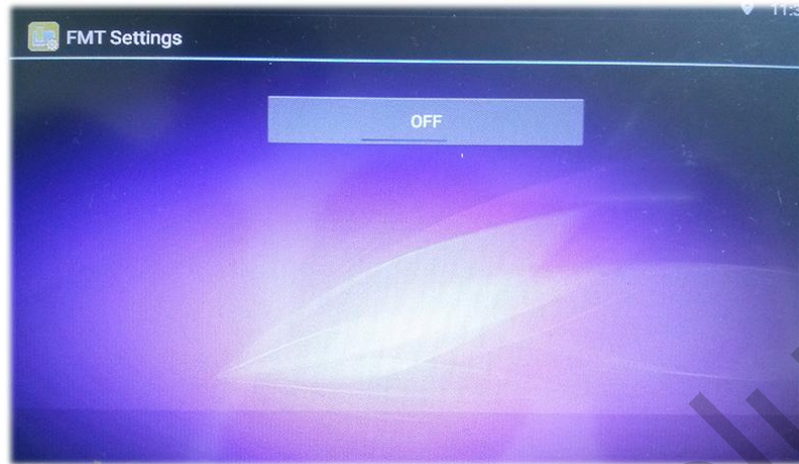
Startup App : Select Startup APP

Touch Calibration : Set resistive touch calibration. (No need to set Capacitive touch panel)

Set User Boot Logo : 800x480 Pixel Size

Initialization : Reset Device Settings

16. FMT Settings



FM Transmitter On/Off or select FM frequency.

Button + , - change FM frequency by 0.05Mhz FM.

17. User Logo Update



Hidden Menu

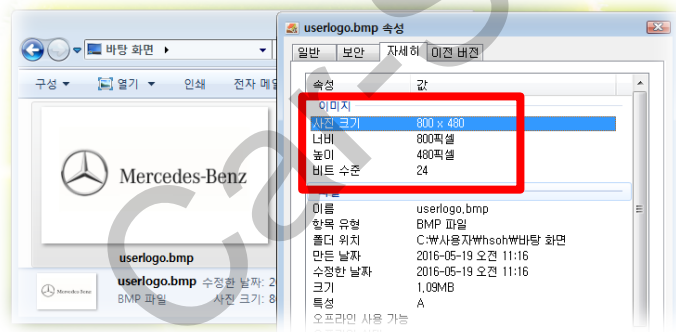
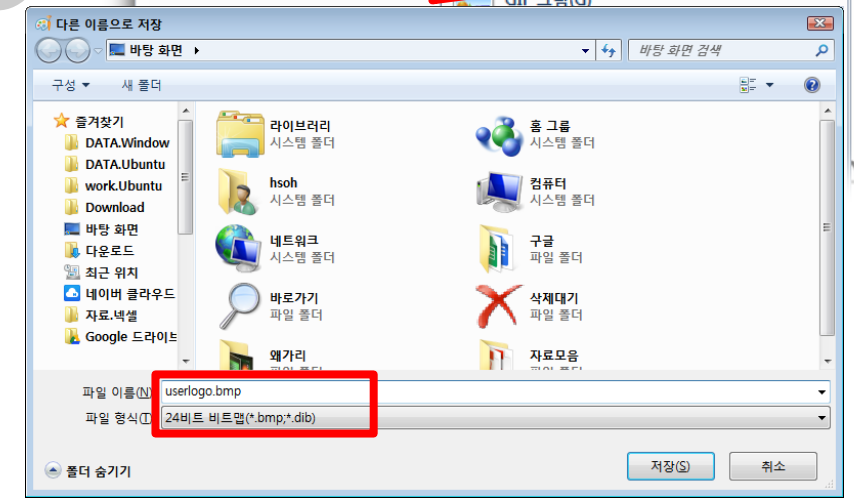
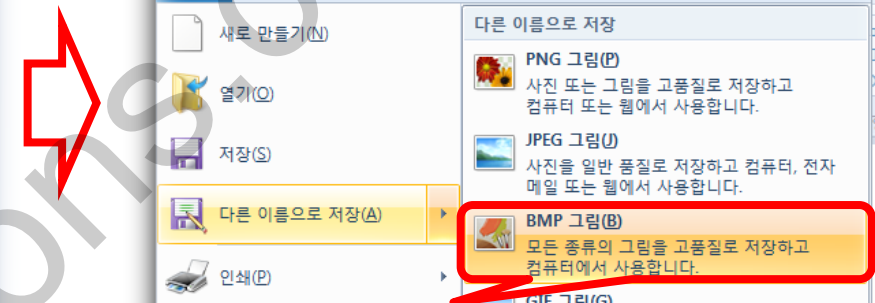
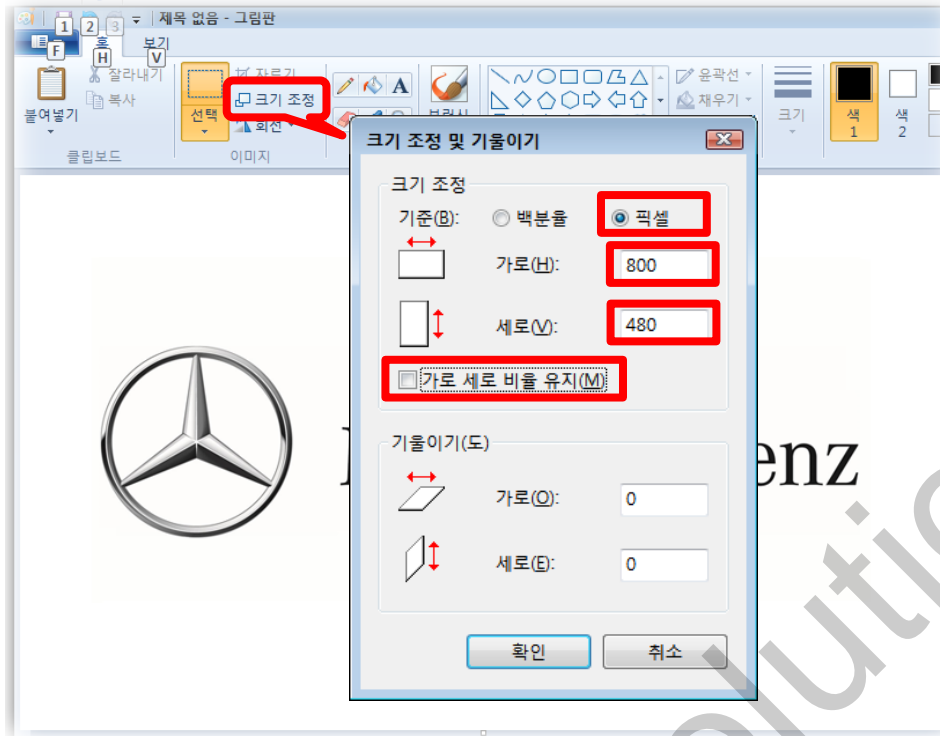
Set User Boot Logo Activate

1. On SD-Card Root folder exist "userlogo" file. (File type = BMP image file)
2. Run Device Setting App
3. Click 'Set Use Boot Logo' and reboot ROIK

If bmp file path is not on "/sdcard/userlogo", and file name is not same, 'Set User Boot Logo' not activate

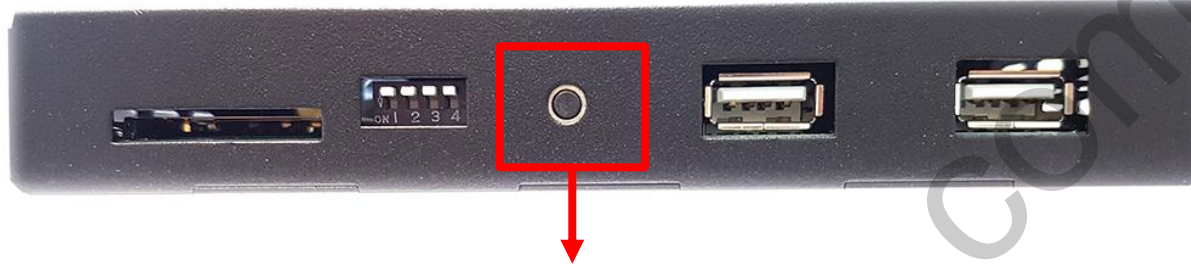
*** userlogo = 800x480 pixel , 24bit bmp file**

18. User Logo Update – Logo File Format



userlogo = 800x480 pixel , 24bit bmp file

19. Firmware Upgrade



Copy 'system_roik2' folder to SD Card root and insert to GPS.

Push hold this button and turn on (connect power cable), it will start upgrade

*'/sdcard/system_roik2' Folder have 'partmap.txt / boot.img / root.img' files

