

# Operation manual

## QROIX Android system

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# Warning / Precautions!

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**Warning**

- Installation must be done at designated QROI A/S center. Do not dismantle, modify and install the product in the unauthorized places. In case of product failure while installing the product in the unauthorized places warranty will be void



**Warning**

- Always wear a seatbelt. In case of a sudden stop, it may cause a passenger harm
- Remove dust, oil, and waste on the display.
- Manufacturer does not take a responsibility of Incidental damages that occurs whether or not passengers use its product.
- Drivers must not use/control the product while driving. Park the car in a safe place in the first place before using it.
- Do not use the product for a long time while engine is turned off. The car battery might go flat.
- A map guided on the screen might not be in concordance with the actual road condition. In a such condition, follow the actual traffic situation.

# 1. Features

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- Android 8.1 (OREO)
- Powerful RAM and Internal Storage spec ([RAM 4GB LPDDR3 & 32GB eMMC](#))
- Powerful CPU (ARM Cortex-A72 + Cortex-A53@2.0GHz ([HEXA CORE](#))  
ARM Mali-T860 ([QUAD CORE](#)) )
- Allows installing and updating various application via Android PlayStore
- Provides High quality video display (720P, simultaneous Video Output of LVDS and HDMI)
- Multiple ways to store data and communication ports (3 \* USB, 1\*Micro SD slot)
- Supports AUX OUT by Bluetooth and FMTX
- Access to the Internet & Data via WiFi and 4G Data via Dongle  
(Dongle Option)
- Program & FW update by USB Thumb memory stick

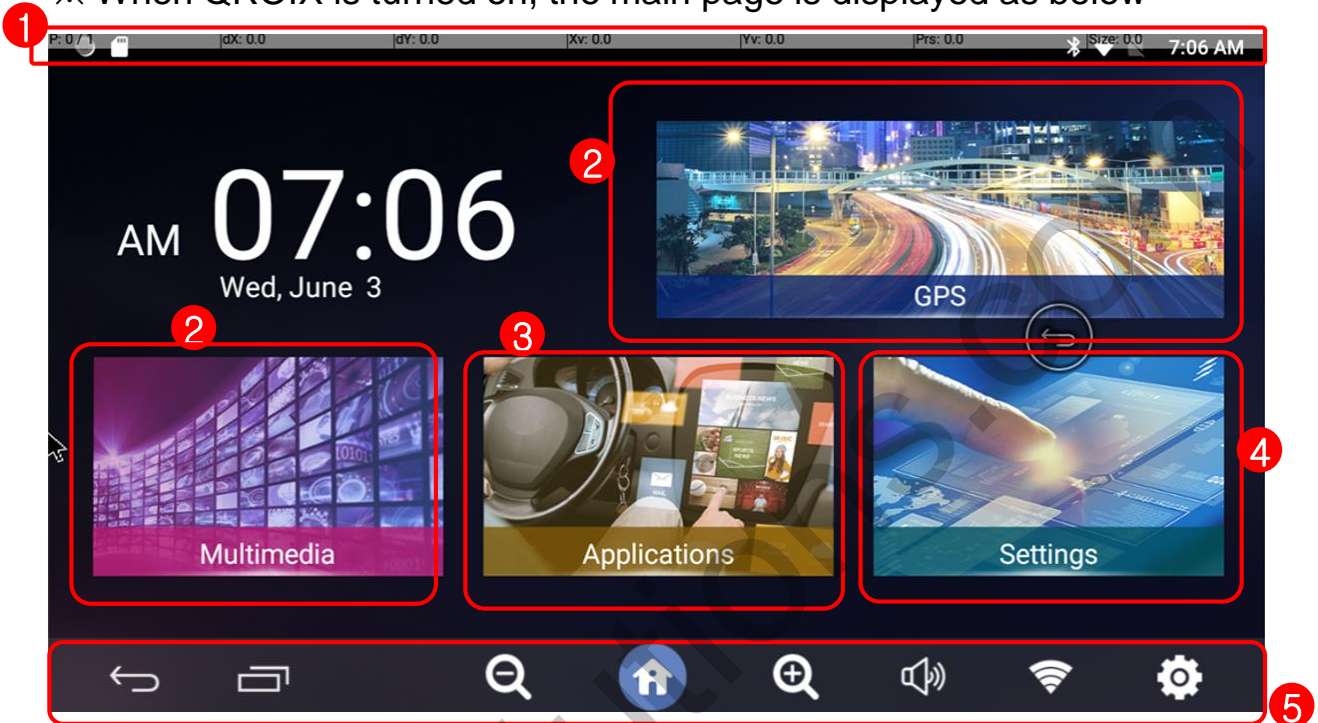
## 2. Specification

CATEGORY		SPECIFICATION
OS Version		8.1 (OREO)
CPU		ARM Cortex-A72 + <a href="#">Cortex-A53@2.0GHz</a> (HEXA CORE) ARM Mali-T860 (QUAD CORE) - <b>for GPU</b>
Memory	RAM	<b>4GB LPDDR3</b>
	INTERNAL STORAGE	<b>32 GB eMMC</b>
	EXTERNAL STORAGE	microSD slot (MAX 128GB)
Network	WI-FI	802.11 a/b/g/n/ac (2.4 GHz / 5 GHz) Internally on board with Antenna
	BLUETOOTH	4.0 (Internally on board with Antenna)
	MODEM	<b>LTE + UMTS + GSM</b> <b>(CONNECT TYPE : External USB Dongle type): Option</b>
	GPS	GPS + GLONASS
Video	OUT	LVDS 5CH x 1 / HDMI x 1
	IN	None
Audio	OUT	AUX + SPK + BT AUX + FM TX
	IN	MIC
USB PORT		HOST x 3 (Internal 2.0 Port x 1 + 3.0 Port x 1 / Extension Cable Port x 1) OTG x 1
TOUCH INPUT		Resistive + Capacitive + UART
Language		Mult-Language
Power		DC 9V ~ 18V
Operating Temperature		-10°C ~ 70°C
Storage Temperature		-20°C ~ 80°C

# 3. How to use

## 3.1 Main page

※ When QROIX is turned on, the main page is displayed as below



### ① Status bar

Dragging down the status bar to view the information in details

### ② Main icons

QROIX provides four main icons on the first page.

GPS and Multimedia icons operate as shortcuts to run the certain apps. (Users can set up the shortcut apps.)

### ③ Apps

Display the list of Android application

### ④ Settings

Change the settings

### ⑤ Menu Bar : When dragging up the bottom, the menu bar comes.



: Display and delete the apps from the recent operating apps list



: Go back to main page



: Go back to the previous page

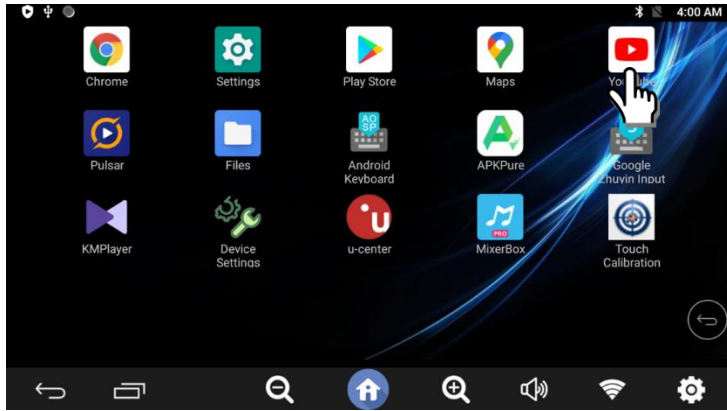


: Go to WiFi setting

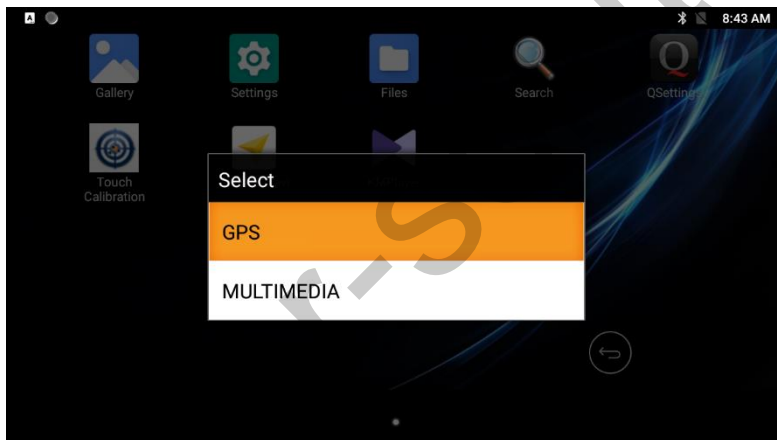
# 3. How to use

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## 3.2 Change shortcut icons



1. Click the app with long press to make the shortcut on the main page.




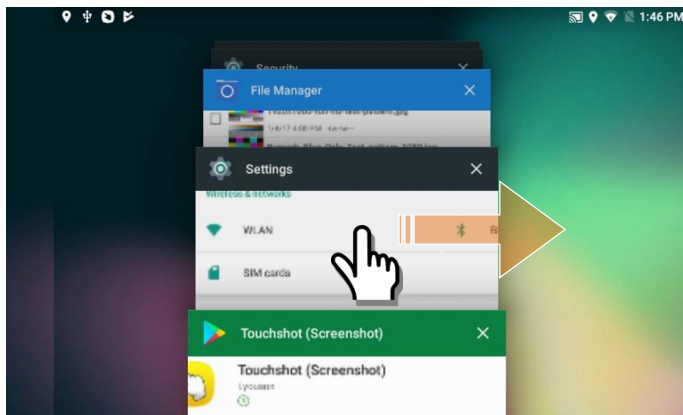
2. Select the place to put in between GPS and MULTIMEDIA.

# 3. How to use

## 3.3 Bottom Menu bar

※ Menu bar helps to use QROI in a easier way.


1.  (Multi key): Find, open and close recent apps




- Once the button is pressed, the recent apps will be displayed as shown on the left

- Replay the application when the application is clicked

- Remove the application on the recent apps by dragging left or right

2.  (Home key): (While running application) Go back to Home page  
(Long press) play Google Now

3.  (back button): move to the previous page

4.  : Turn on/off or Volume up/down Q-ROI sound

- click the button to open the new window as shown on the left

- AUX : Volume up/down Aux sound when the sound is connected to Car aux

- Speaker : Volume up/down the sound from the supplied speaker. In case of "Off", the supplied speaker will not have sound and only car aux will work

- MUTE : mute on/off







# 3. How to use

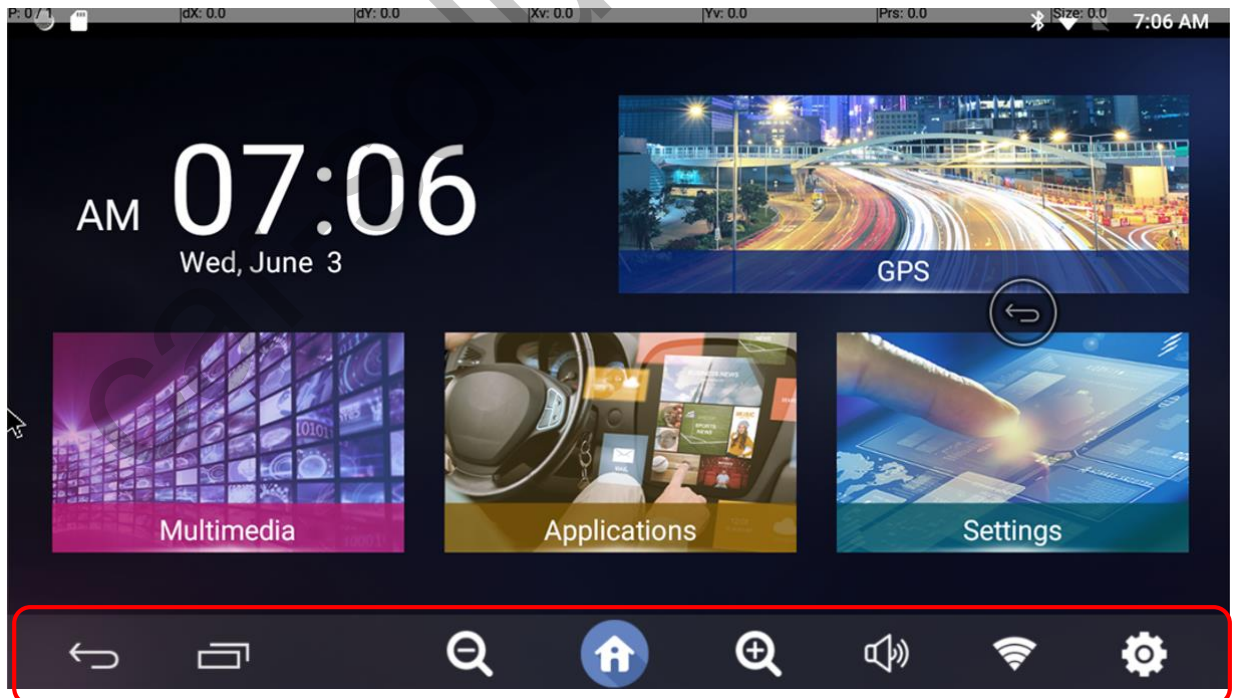
## 3.3 Bottom Menu bar

※ Menu bar helps to use QROI in a easier way.

5.   : On maps, these are the functions for zoom in and zoom out

6.  : Going to WiFi setting directly


7.  : Going to Android setting directly



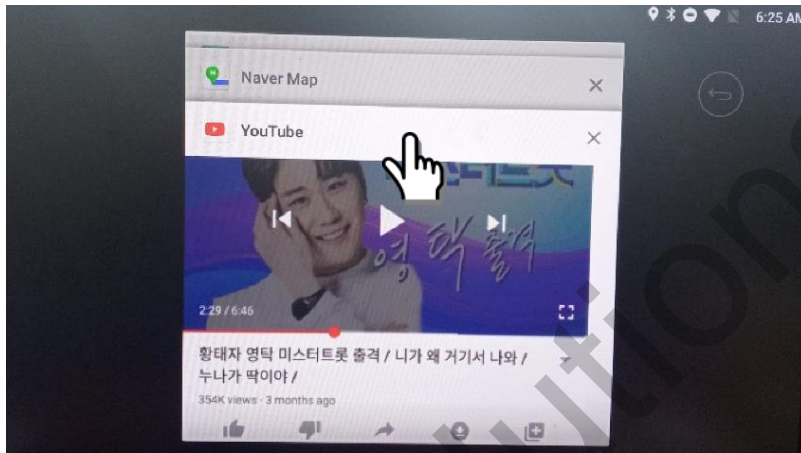


# 3. How to use

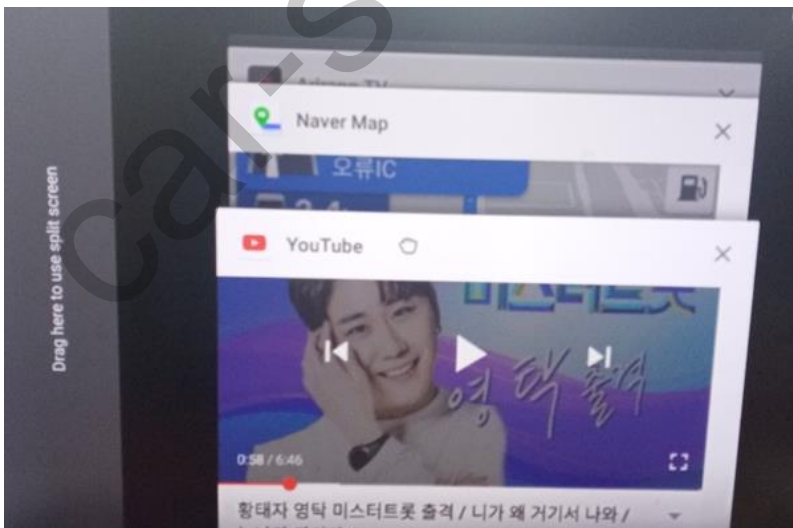
## 3.4. How to use PIP function

1.  Please tap this multi-key icon

2. Please select and hold the app which you want to make PIP.



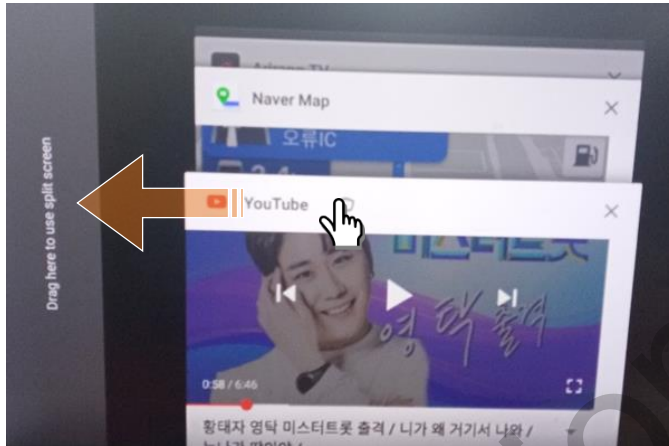
3. On the left side, the message shows that 'Drag here to use split screen'.



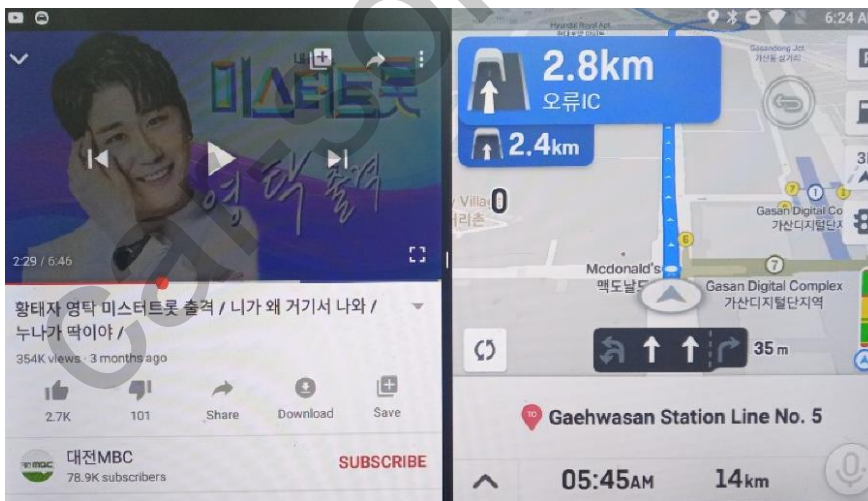
# 3. How to use

## 3.4. How to use PIP function

4. Please drag the app to the left side.

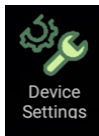


5. Then PIP screen will be operated without any problems.

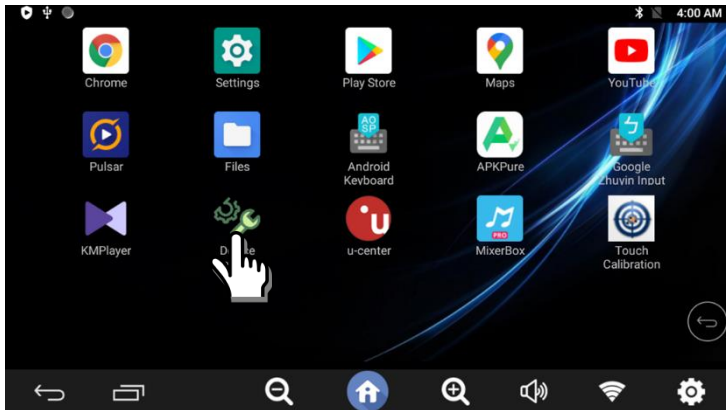


# 4. Settings

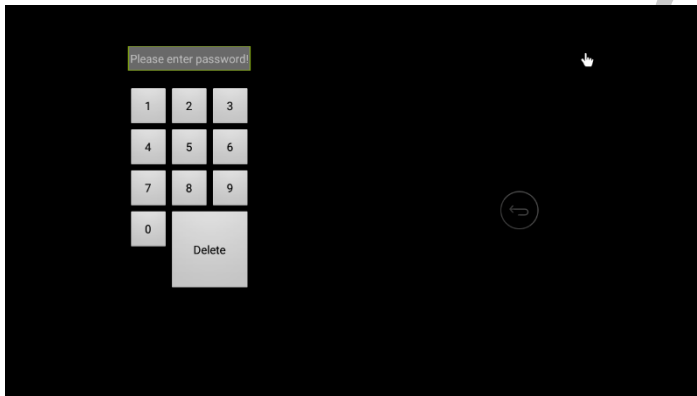
## 4.1 QROI SETTINGS



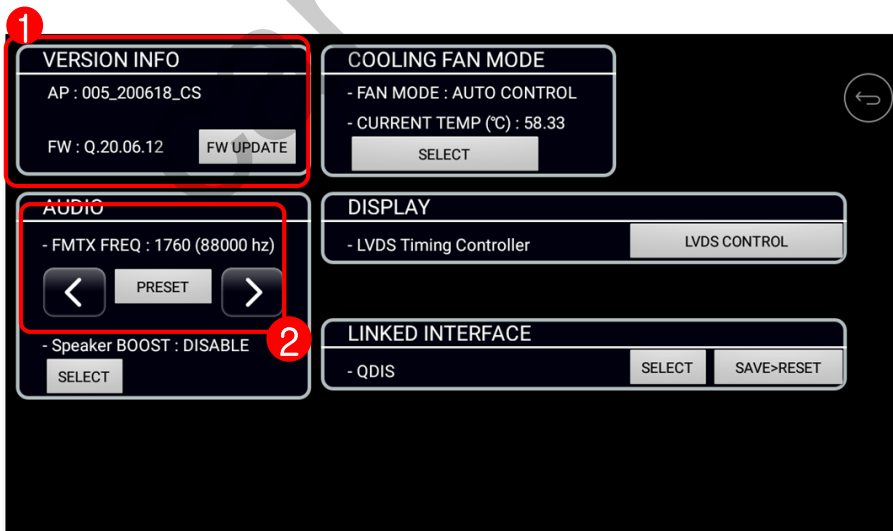
### Device Settings



\*Please tap Device Setting on App list.



\*The Passwords are 0603.



1

\*Can check AP and FW versions.

\*Can do FW Update with plugging USB memory stick

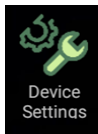
\*AP Update is automatically activated by plugging USB memory stick.

2

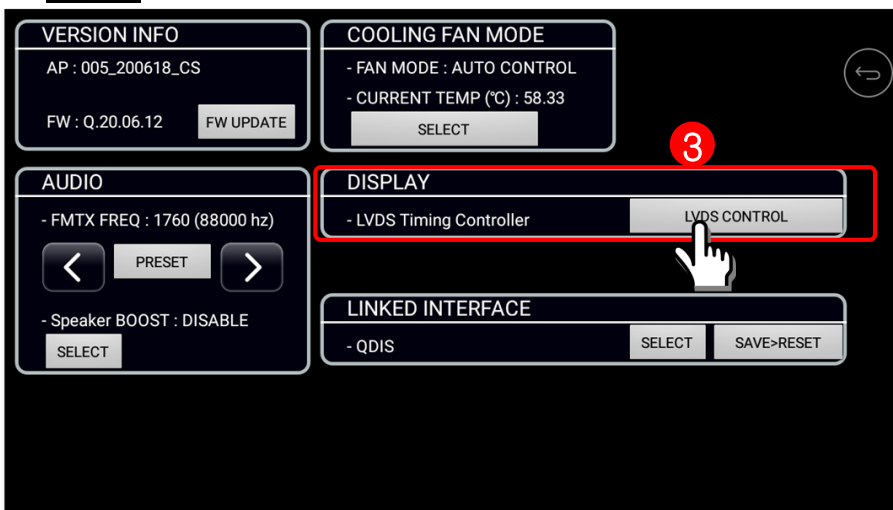
\*Can set up FMTX

# 4. Settings

## 4.1 QROI SETTINGS



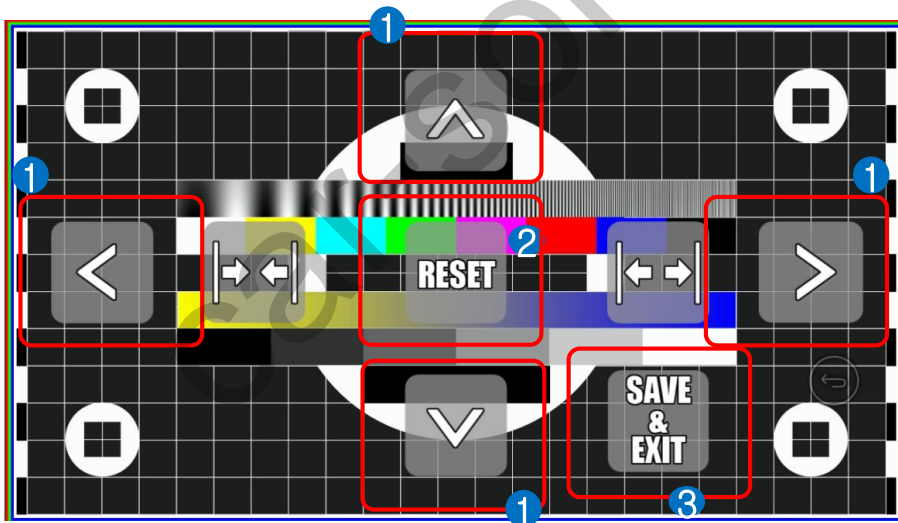
### Device Settings



3

\* LVDS Timing Setting : adjustable LVDS Picture

: Please tap the LVDS button. Then below picture shows on the screen.



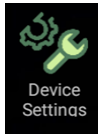
1 Move the position along with the arrows.

2 Reset

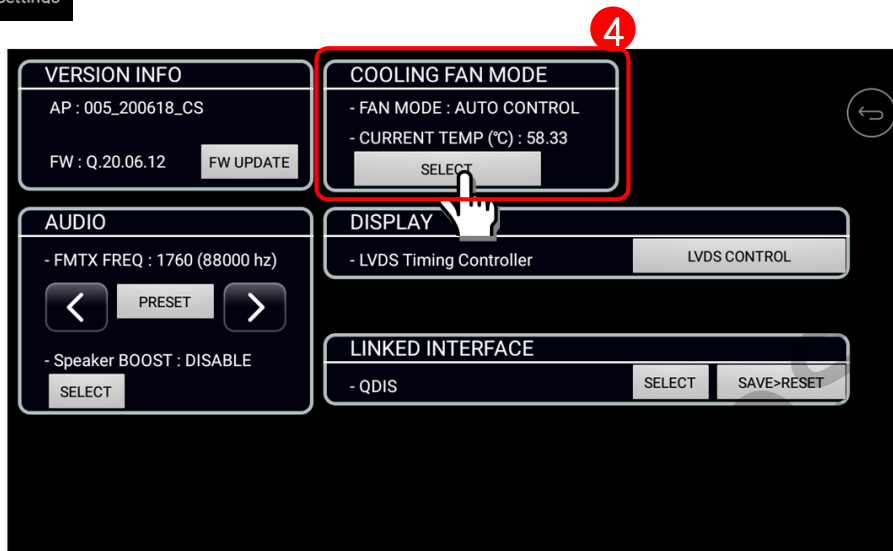
3 Save & Exit : Saving the changed setting values and going out of LVDS setting page.

# 4. Settings

## 4.1 QROI SETTINGS

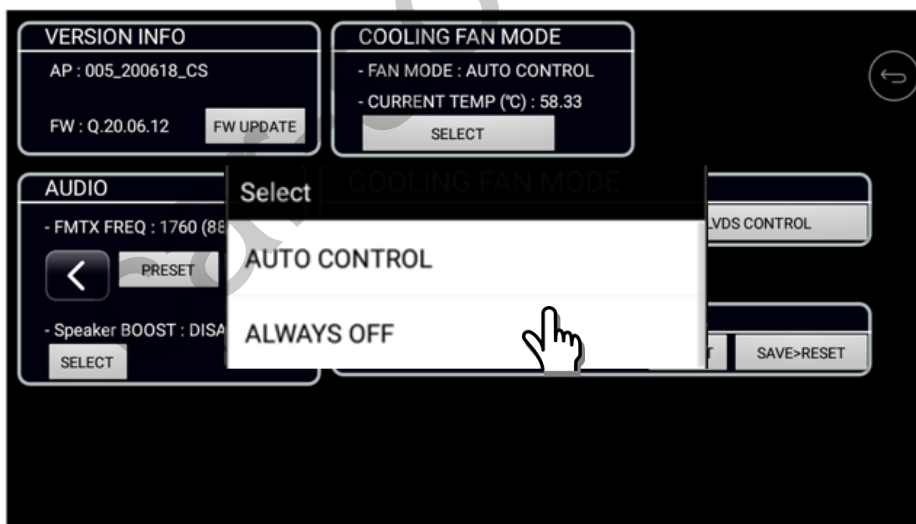


### Device Settings



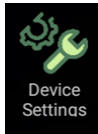
#### 4 \*Cooling Fan Mode

: Please tap Mode select.

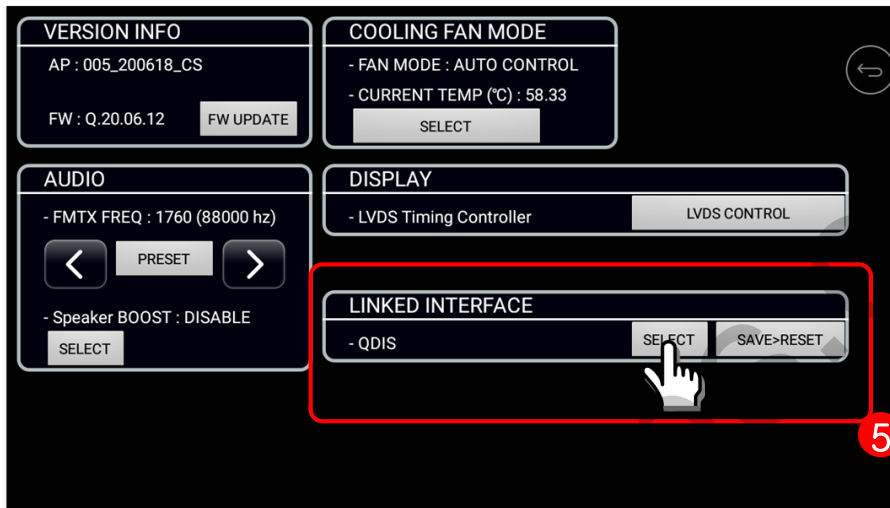


# 4. Settings

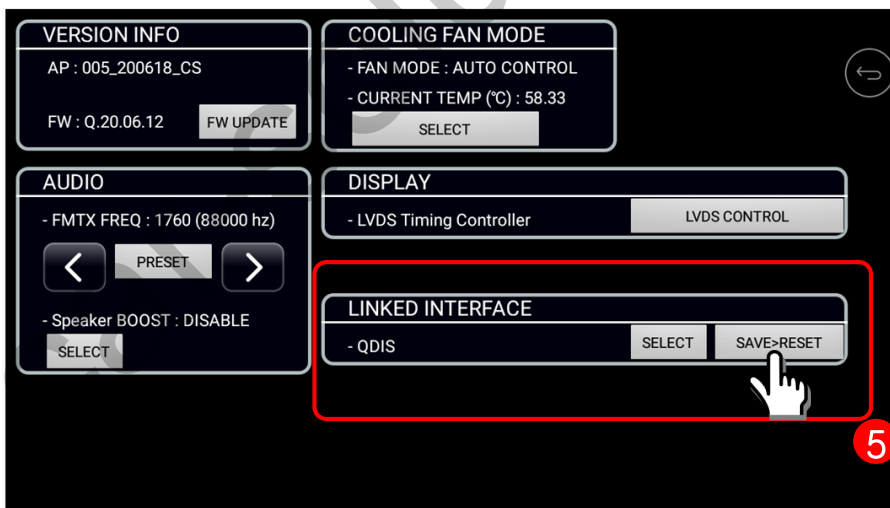
## 4.1 QROI SETTINGS



### Device Settings



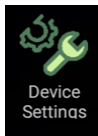
5 \*Interface Setting: Select Interface Touch Protocol



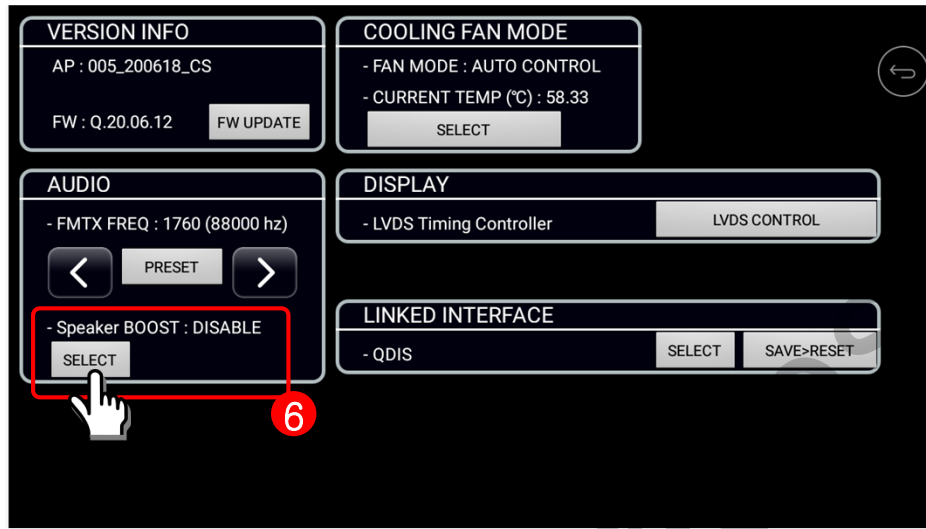
After selection, please tap Save → RESET button, in order to save the chosen Interface protocol.

# 4. Settings

## 4.1 QROI SETTINGS

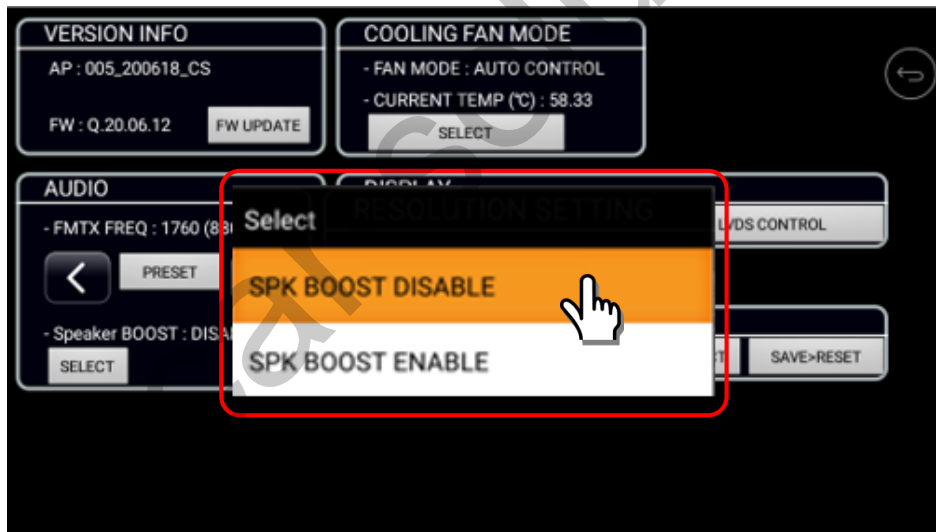


### Device Settings



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\*SPK BOOST: When Tap it, there are two options.



When SPK BOOST Enable is selected, Speaker volume Gain will be increased.



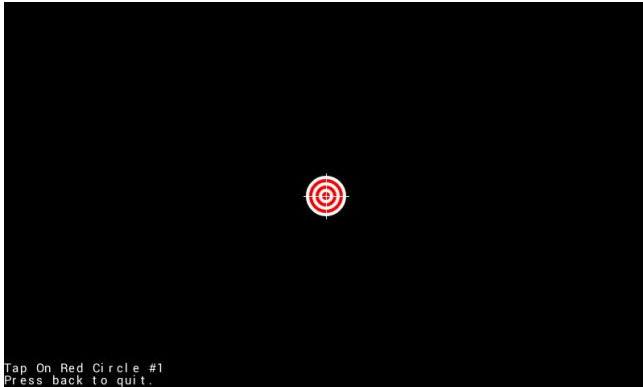
# 4. Settings

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## 4.2 Touch Calibration



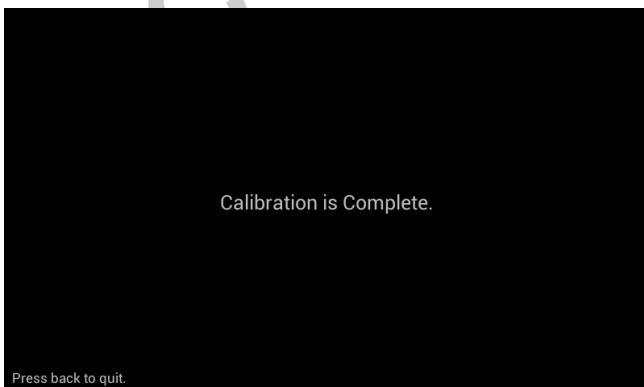
App list ► Touch Calibration



- Touch Calibration.



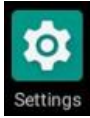
- Press each target position by a finger.



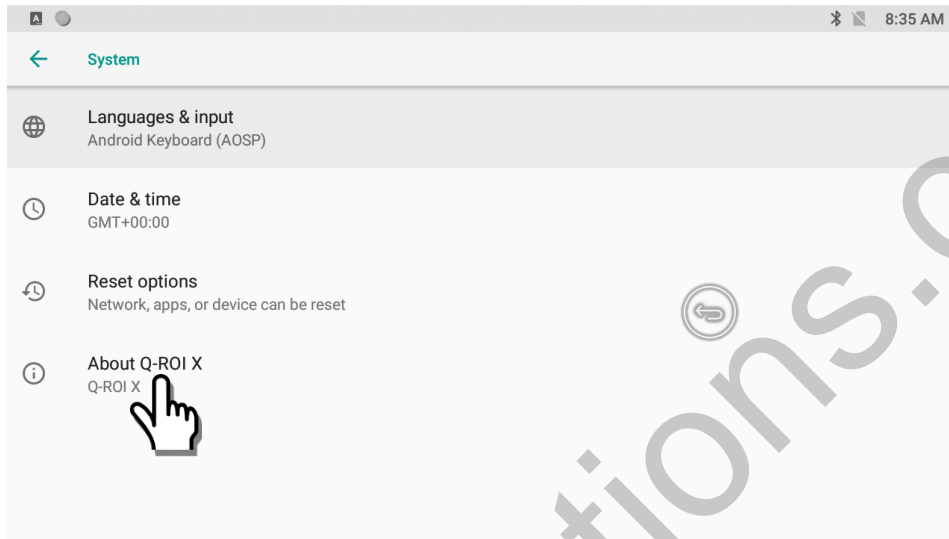
- Completed.

# 4. Settings

## 4.4 System Info



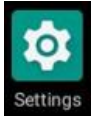
Settings ► System ► About QROI X



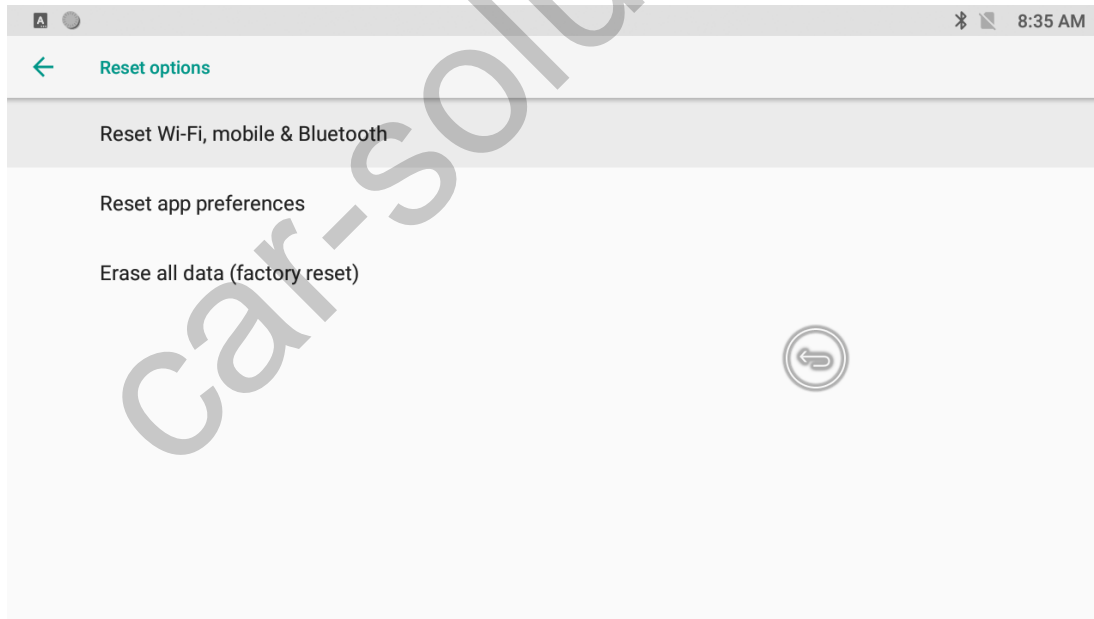
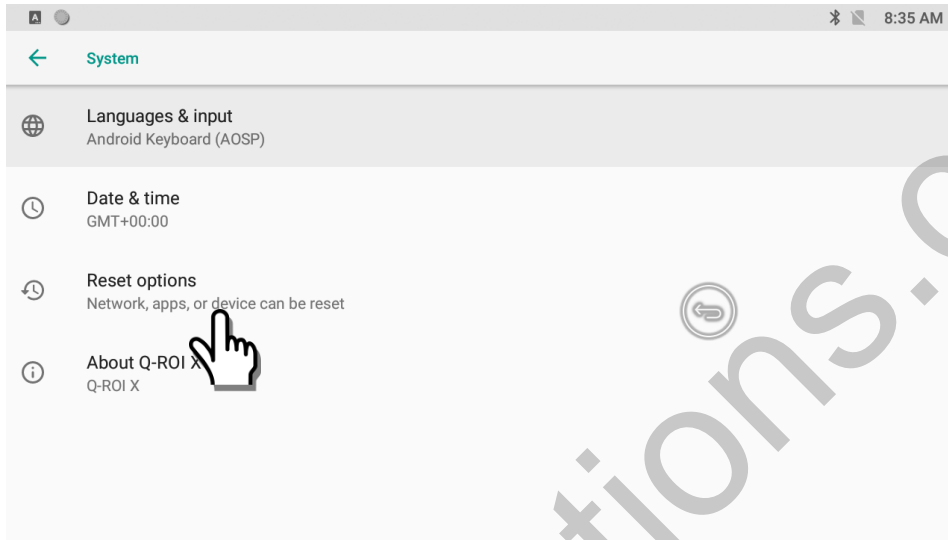
\*Can check the Android Version, Build Number and AP Version, as well as Released date

# 4. Settings

## 4.5 System Reset



Settings ► System ► Reset Options



# 5. HOW TO UPGRDE PROGRAMS

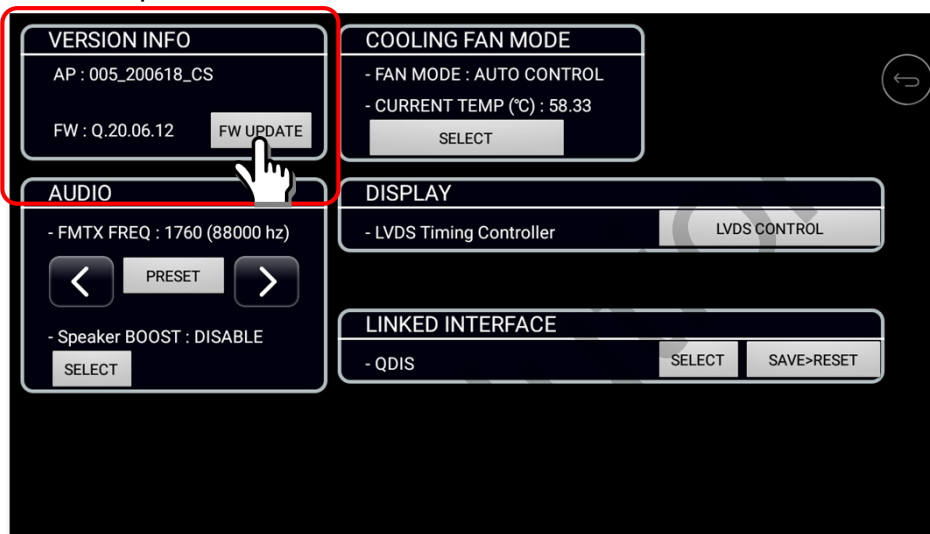
## 5.1 How to upgrade FW

\*How to do FW Update.

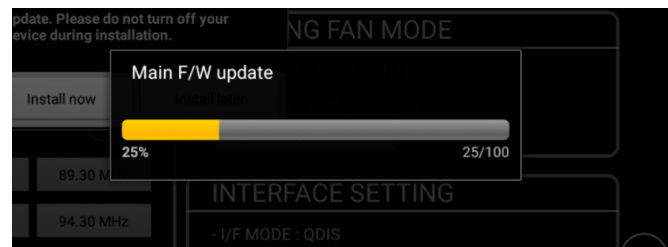
1. Please copy and paste **FW.QVL** on USB memory stick root.
2. Please connect the USB memory stick to QROIX USB port. (Please don't connect it to OPTION port.)



3. Please go to Device settings.
4. Then please click FW UPDATE button on the menu.



5. The pop up screen comes. Then please tap 'install now'.



6. The progress bar comes. After finishing the upgrade, QROIX reboots itself.

# 5. HOW TO UPGRDE PROGRAMS

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## 5.1 How to upgrade APP program

**\*How to do APP Update.**

1. Please copy and paste **update.zip** file on USB memory stick root.
2. Then please insert it to QROIX USB port. (Please don't use OPTION Port.)
3. After that, please turn on QROIX again.
4. Automatically, update process is activated.