Installation Manual
Q-ROI-ONE-5 Series

Warning / Precautions!

> ⚠️ **Warning**
>
> - Do not modify, dismantle or unintended operation this system outside Q-roi After Sales. Damage occurred by unintended operation may cause Q-roi After Sales service void.
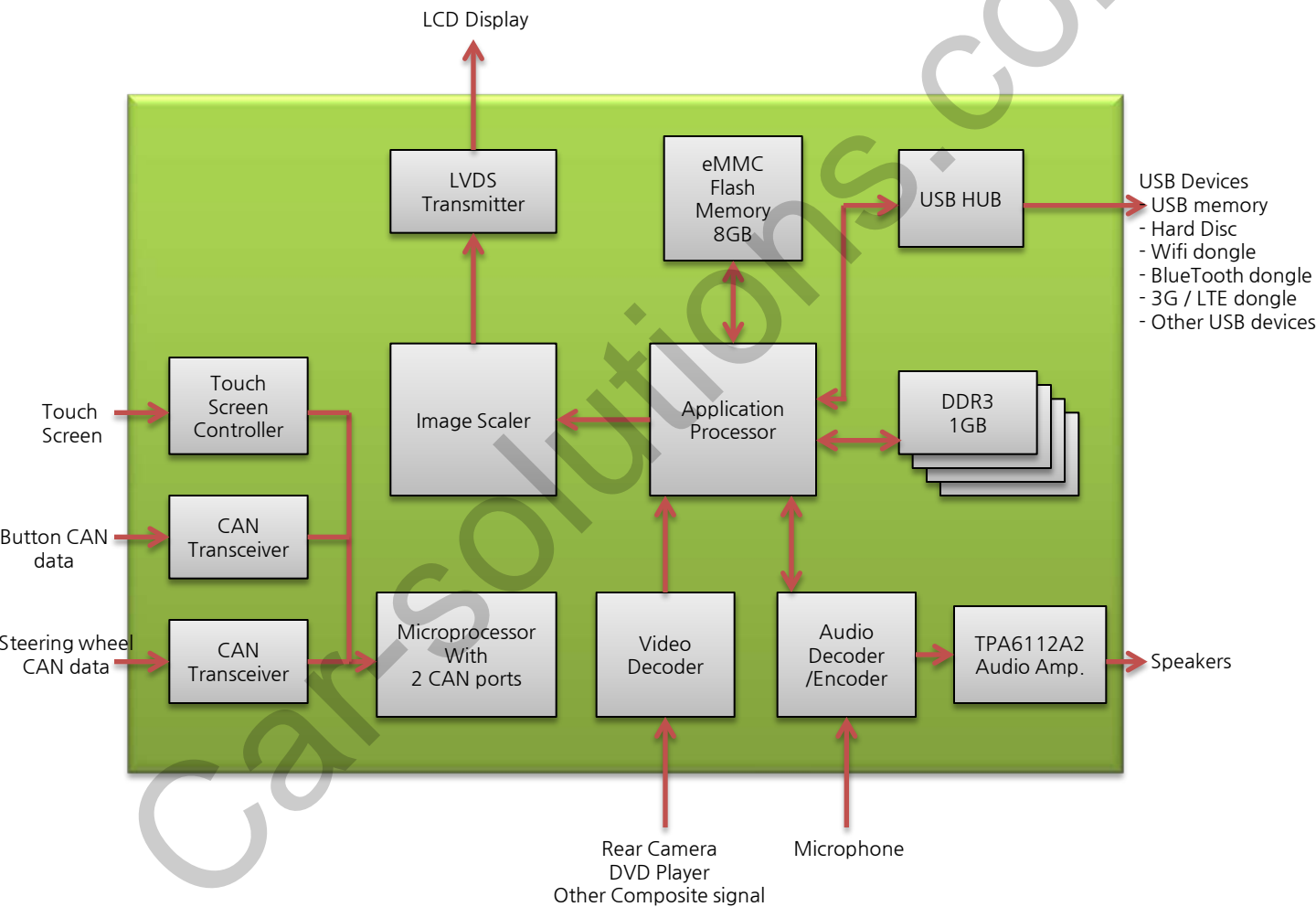
> ⚠️ **Warning**
>
> - Always wear seatbelt. When the vehicle is suddenly stop can cause injury.
>
> - Remove dust, oil, and waste on the display.
>
> - Incidental damages (including, without limitation, consequential damages due to the use of this unit and the dead loss of business profit, changes, loss of memory contents, etc) will not be taken responsibility.
>
> - Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.
>
> - The engine is off while the system operates for long time, battery may be discharged.
>
> - This product is not a substitute for your personal judgment. Any route suggested by this navigation system may never supersede any local traffic regulation. Do not follow route suggestions if the navigation system instructs you to perform an unsafe or illegal maneuver.

1. General Spec

OS		Android 4.2.2 (Jelly Bean)
CPU		Telechips TCC8930 (1GHz Cortex A9 DualCore)
Display		OEM LCD
Internal Memory		DDR3 1GB RAM + 8GB eMMC
External Memory		SDHC Slot Support (up to 64GB)
Function		A/V Input x 3, Rear Cam Input x 1, CAN(Controller Area Network) x 2, Mic x 1, External Speaker x 1 (mono), External Audio Out x 1(Car Aux),
Output		LVDS (thru Video Interface), RGB (thru Sub-Board)
Touch Type		Resistive Touch
GPS		SiRF
Resolution		800*480
USB		USB 2.0 x 2
Input Voltage		12V
Temperature		operating 0 C to 60 C
		Storage -20 C to 60 C
Languages		multi-languages
LCD	Size	10.2 inch(Diagonal)
	Driver element	a-Si TFT active matrix
	Resolution	1280*480
	Display mode	Normally White, Transmissive
	Surface treatment	Anti-Glare

2. System Diagram

LCD Display

LVDS Transmitter

eMMC Flash Memory 8GB

USB HUB

USB Devices
USB memory
- Hard Disc
- Wifi dongle
- BlueTooth dongle
- 3G / LTE dongle
- Other USB devices

Touch Screen

Touch Screen Controller

Image Scaler

Application Processor

DDR3 1GB

Button CAN data

CAN Transceiver

Steering wheel CAN data

CAN Transceiver

Microprocessor With 2 CAN ports

Video Decoder

Audio Decoder /Encoder

TPA6112A2 Audio Amp.

Speakers

Rear Camera
DVD Player
Other Composite signal

Microphone

3. Components

10.2 Inch Monitor
(QCPASS0587)

Power Cable* 1ea
(HPOWER0077)

WIFI dongle * 1ea
(ETCETC0110)

3G dongle * 1ea
(ETCETC0155)
(Option)

Multi Cable* 1ea
(HARETC0108)

SD extension cable* 1ea
(HARETC0080)

B/T Board * 1ea
(QCPASS0481)
(Option)

Microphone cable * 1ea
(MICPHO0002)
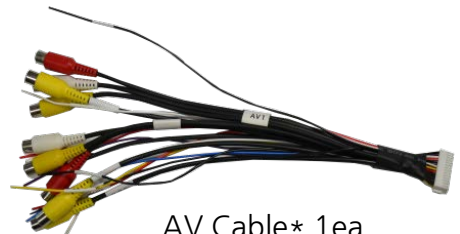
GPS Antenna * 1ea
(GPSANT0007)

USB Cable* 1ea
(HARETC0111)

MODE switch cable* 1ea
(HARETC0001)

REAR CAMERA cable * 1ea
(HARETC0002)

AV Cable* 1ea
(HAVCAB0026)

4. Exterior

①	USB CABLE	⑨	DIP S/W(I/F)
②	MULTI CABLE	⑩	OEM LCD CABLE
③	SD EXTENTION CABLE		
④	AV CABLE		
⑤	POWER CABLE		
⑥	SPEAKER		
⑦	OTG(사용하지 않음)		
⑧	DIP S/W(MAIN)		

4. Original button usage

※ First, Long press memory button #8 to set up switching Aux function.(Original function)
   If you press memory button #8, Aux and modes will switch at the same time.

〈Voice button〉

〈Memory Button #8〉

※Short Press ：Switching Modes
                (Q-ROI ↔ OEM)

※ Long Press ：Switching Mode
                (Q-ROI↔OEM)
   Short Press ：Go to Main Menu

※ Short Press
  ：Navigation Quick
    button

1

Spin left/right ：Move to up/down
                   in Menu

1

Push Left ：Move to backward in Menu
Push Right ：Move to forward in Menu
Push ：Select / Confirm

〈I-DRIVE〉

※ Long Press ：Q-roi reset

※Short press Audio or Back or CD or Tel button to switch to OEM

5. Cautions before Installation

- Ignition key should be taken off before starting installation, interface power connection must be the last step in installation.

- Power cable should be separated when connecting interface.

- Should be no any electronic devices or magnetic pole around installation place.

- All steps of installation should be done by well-trained specialist.

- Dismantling without manufacturer's permission can not be guaranteed, (No permission to break attached label on the board.)

- Kindly check all parts are in the box, when receiving the product, if anything missing, inform to the supplier or manufacturer.

- Install GPS away from electromagnetic devices such as black boxes, Hi-Pass and etc.

- Advisable to Install GPS at the edge of dash board or a front window or a rear window.

- Install GPS antenna mounted on window or roof facing to Sky .

- According to our sales policy, any problems caused by user's mistake, careless can not be guaranteed.

6. Installation

6.1 Dip Switch

- I/F(Dip Switch ②)

PIN	Functions	Dip S/W
1		NO USE
2	Select PDC Type	2, 3 - OFF : PDC is located in the right of the screen
3		2-ON, 3-OFF : PDC is located in the middle of the screen
4		
5		NO USE
6		
7		
8	Reset factory settings (not use for user)	OFF : DEFAULT ON : Product factory reset

-MAIN(Dip Switch ①)

PIN	Functions	Dip S/W
7	Rear camera	ON : External Camera OFF : OEM Camera

※ Please make sure to disconnect the power cable of the interface and reconnect the power cable again to apply the dip switch setting whenever changing DIP switch. Otherwise, DIP switch setting will not be applied.

6. Installation

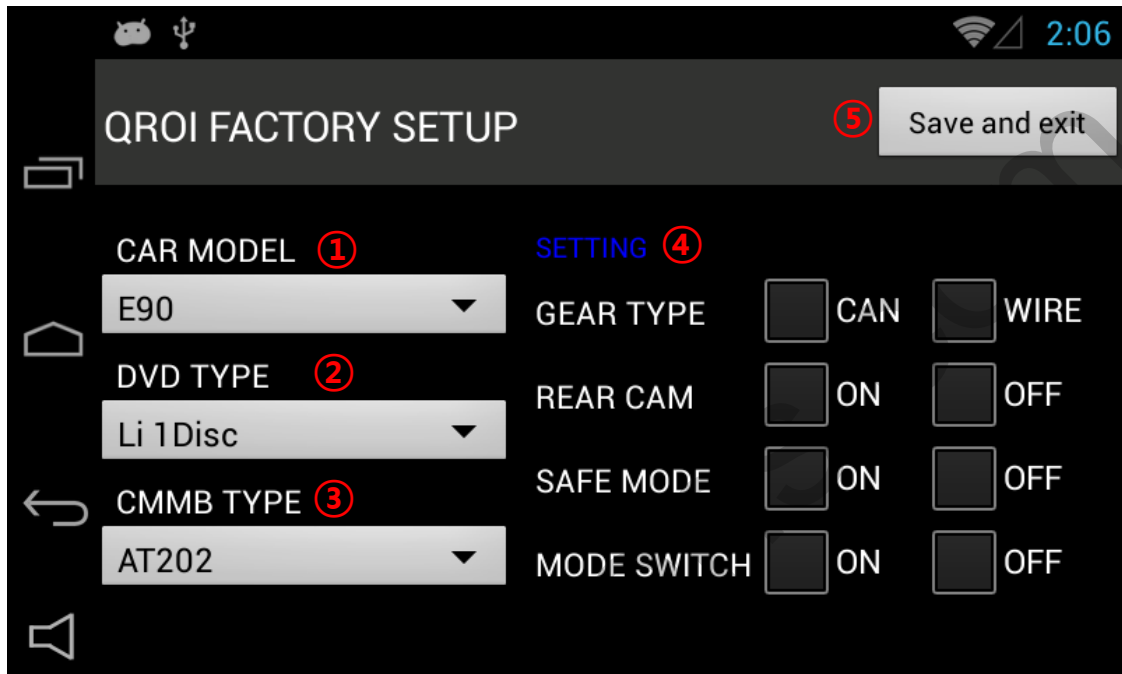## 6.2 Setting Factory Menu
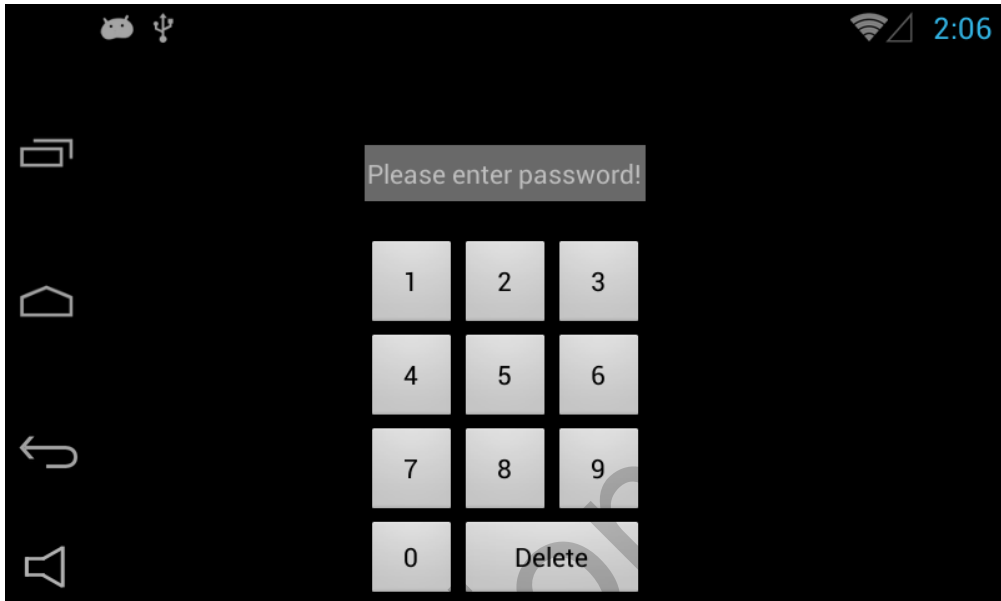
※ APPS→FACTORY SETTING

① Put Password and change program upgrade and set-up of external device. (Only Installers are authorized)

　※ Please contact the manufacturer to get Password.

6. Installation

6.3 Setting Factory Menu

① CAR MODEL : No use

② DVD TYPE : Only for DVD connected to A/V

               (Connect IR-AV1 to DVD to use DVD as touch Screen)

③ CMMB SELECT : Select DTV model (Only Chinese)

④ SETTING

  - GEAR CHECK TYPE : Detecting rear camera via either CAN or Rear Lamp.

  - REAR CAM : Put "On" – External rear camera
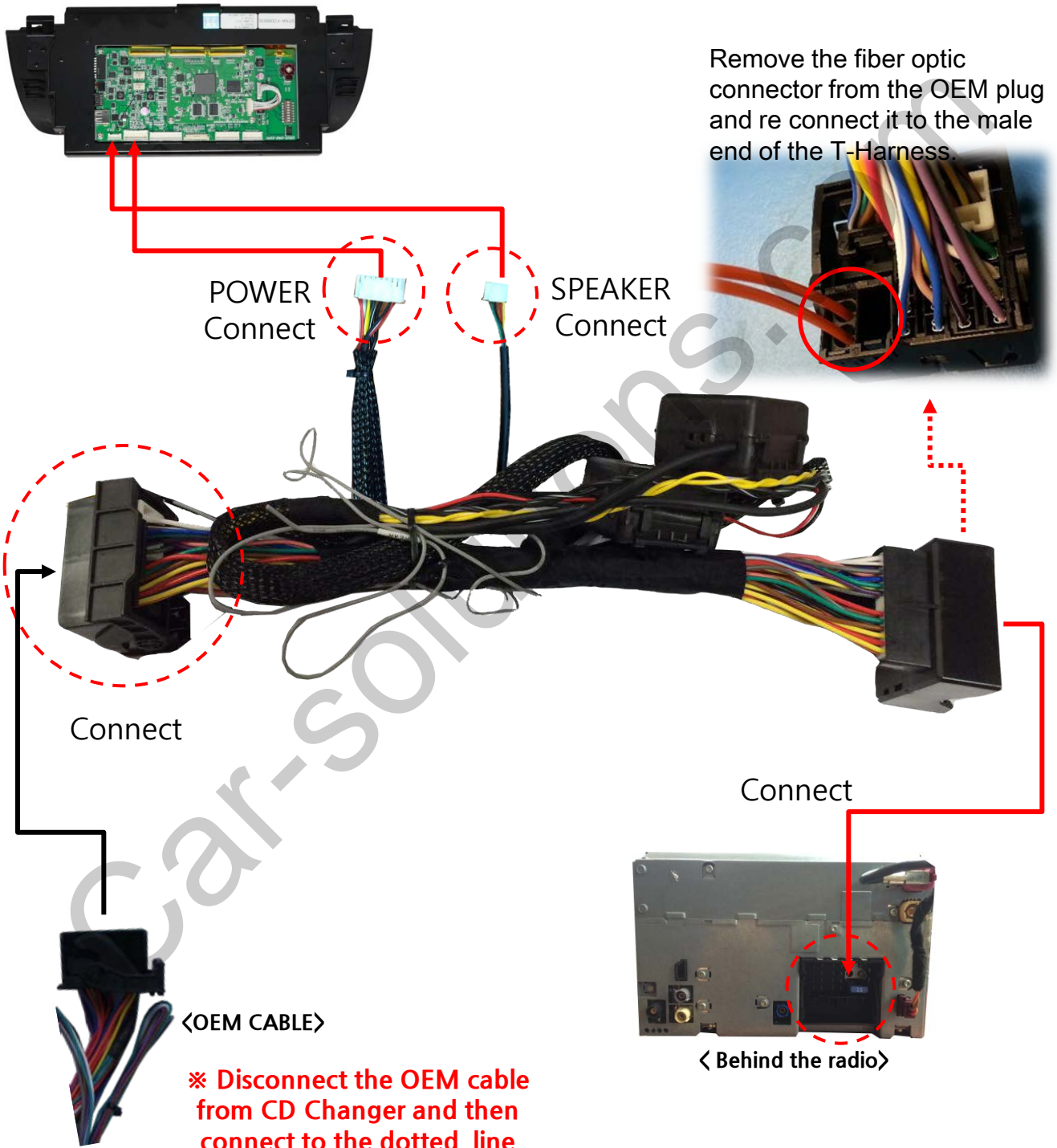
            Put "Off " – OEM Camera

  - SAFE MODE : Either Enable or Unable to watch Video while driving

  - MODE SWITCH : NO use

⑤ SAVE & EXIT : Save and Reboot

6. Installation

6.4 Installation Diagram

※ ※ Disconnect an OEM LCD cable from a monitor and connect it to QROI ONE Monitor.

AV Cable

SD Extension Cable

Power Cable

Speaker

Multi Cable

USB Cable

OEM LCD Cable

6. Installation

6.5 Connection of Power cable

Remove the fiber optic connector from the OEM plug and re connect it to the male end of the T-Harness.

POWER Connect

SPEAKER Connect

Connect

Connect

〈OEM CABLE〉

※ **Disconnect the OEM cable from CD Changer and then connect to the dotted line**

〈 Behind the radio〉

7. Quality Warranty

This product has been tested and have passed under our strict quality control. If the failure occurred due to the carelessness of workmanship within one year after the purchase, we are responsible to repair free of charge.
Please bring this warranty to dealer whom you purchased this product from at the repair time. Should this warranty not presented, repair charged will be on customer. Please keep this warranty card.

Warranty			
Product name	Q−ROI ONE BM 5S		
Warranty period	1 year	Purchase date (yy/mm/dd)	
Customer	Address		
	TEL		
	Name		
Dealer	Address		
	Name		