



EMERALD
MOBILE INTEGRATIONS

AUDI A4/A5 non-MMI

Model: QVL-A4L-V6

Specification & Installation

-AUDI A4/A5 Feature

- Control DVD, NAVI by touch (Optional)
- Remote button value copy function (Refer to page no. 24)
(Only available in models with remote)
- More convenient installation via sub-board.
- Plug & Play by LVDS cable
- Own positioning function on RGB&AV mode.

-Precaution

- You must keep the car key taken off from the car while you work this and finally, connect power of the interface.
- When to connect the interface cable, you must keep the power cable taken off.
- You must work this at the environment without any static electricity or damages.
- All of process on this installation should be done by professionals.
- You must not break the labels attached on the board, if it's broken, no warranty.
- When you receive this package you have to check whether there's any parts not included and you have to contact us right away.
- Our repair service do not accept any problems caused by user's any fault or carelessness.

-Main Spec.

1. Input Spec. (MULTI VIDEO INTERFACE)

- 1 x Analog R,G,B,Sync
- 1 x CVBS(REAR CAMERA) Input. (Rear camera source)
- 3 x A/V (NTST & PAL) Input.
- 1 x LCD Input (Car system Input)

2. Output Spec.

- 2 X CVBS OUTPUT (Video Out for installing Headrest monitor)
- 1 x Audio OUTPUT
- 1 X LCD OUTPUT(LCD Operation)

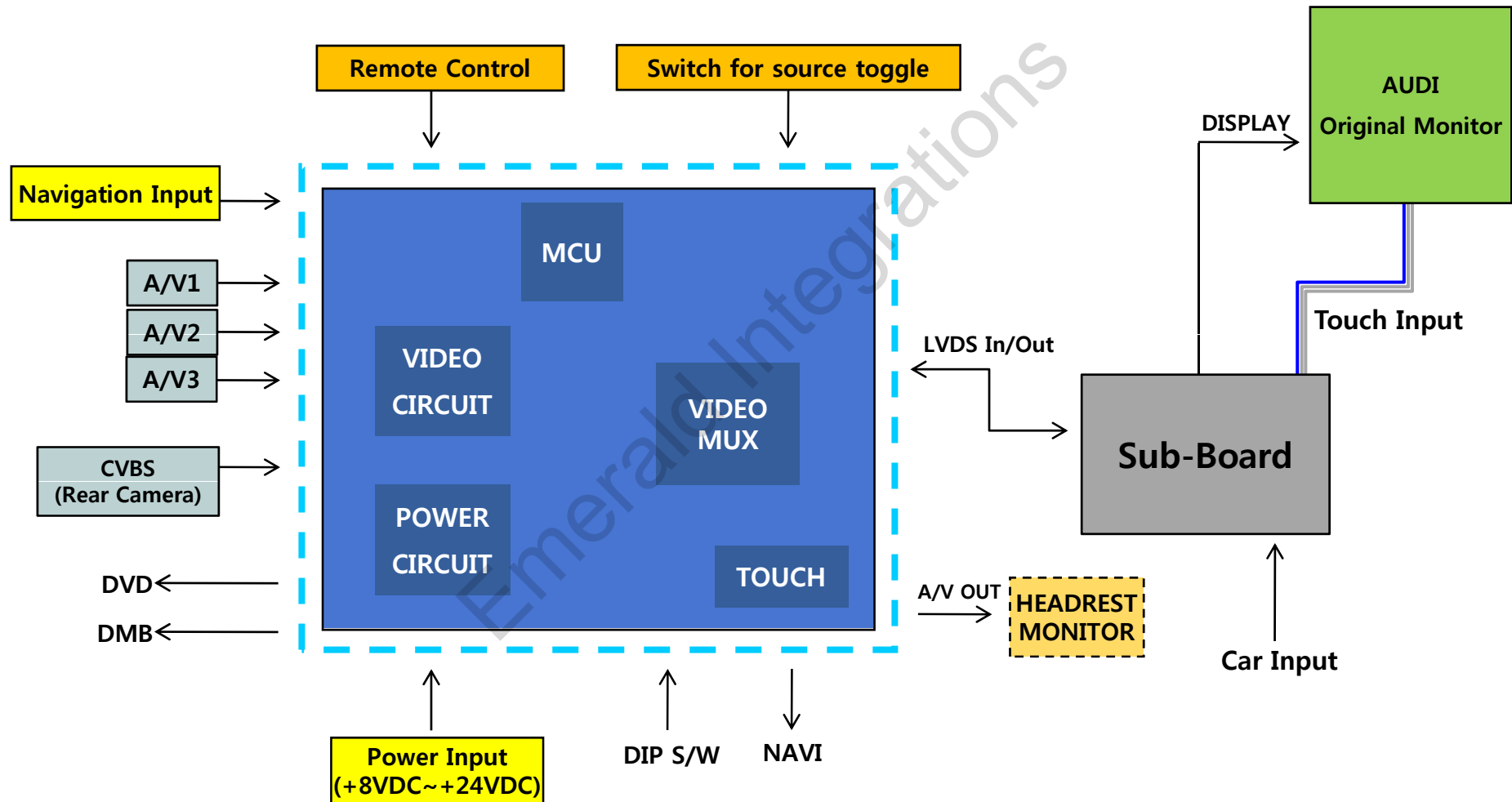
3. Electric Power Spec.

- Input Power : 8VDC ~ 24VDC
- Consumption Power : 12WATT, Max

4. Switching AV Source

- Possible to skip AV source while switching Mode (AV source) by DIP S/W (Refer to the DIP S/W page)
- By remote control
- By toggle switch
- By Touch (Optional)

-System Composition

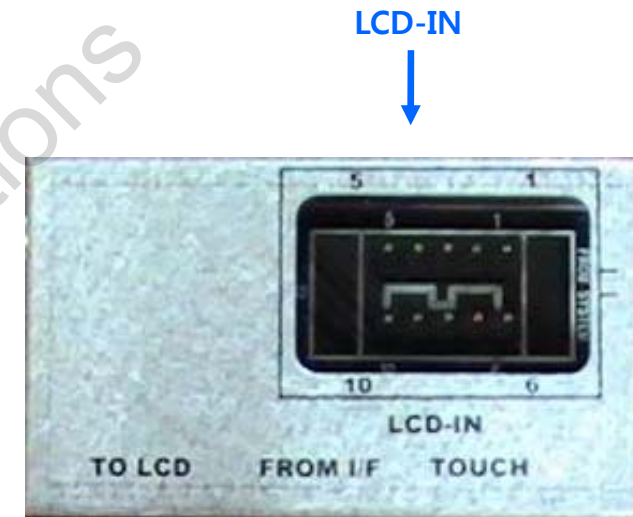
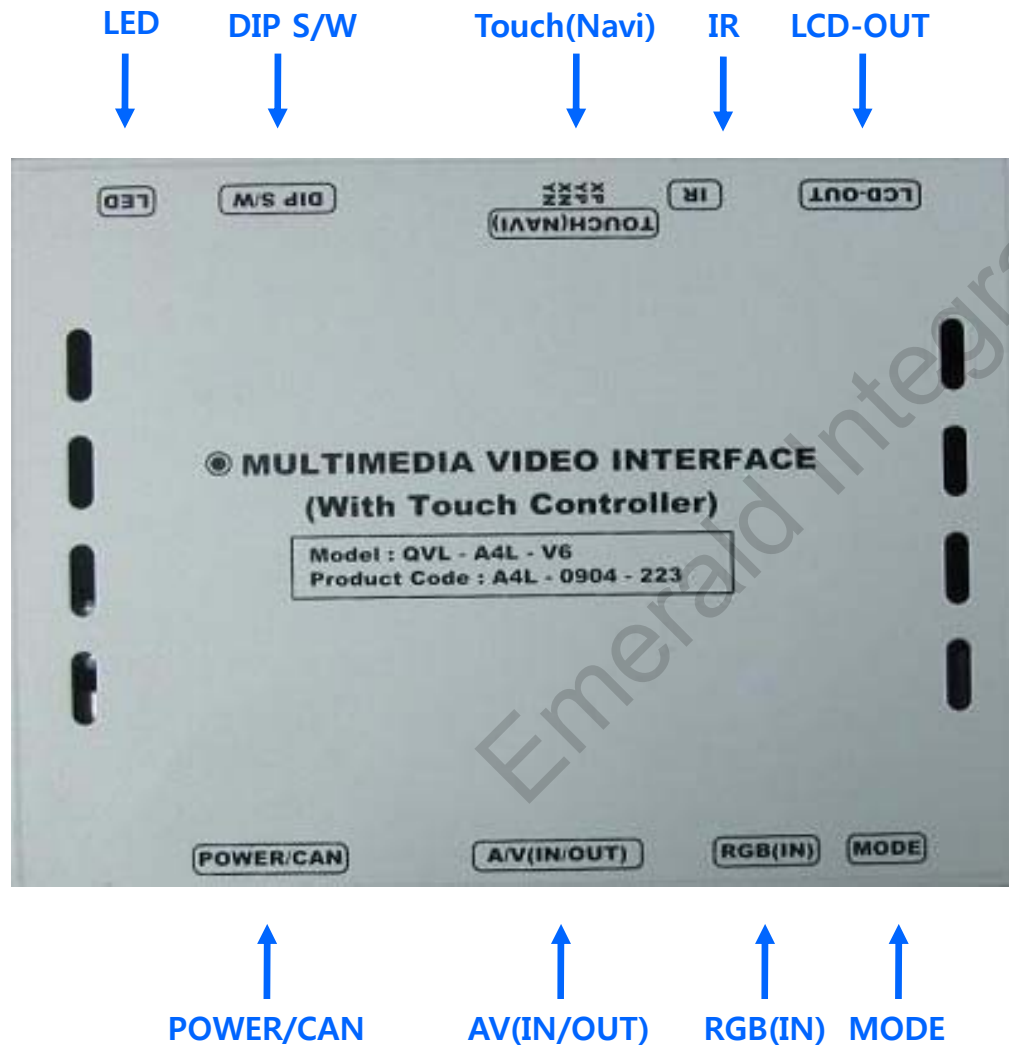


- Outline Dimension

130mm * 105mm * 20mm



-External Appearance



External Appearance



↑
POWER

↑
A/V(IN/OUT)

↑
RGB(IN)

↑
MODE



↑
LCD-OUT

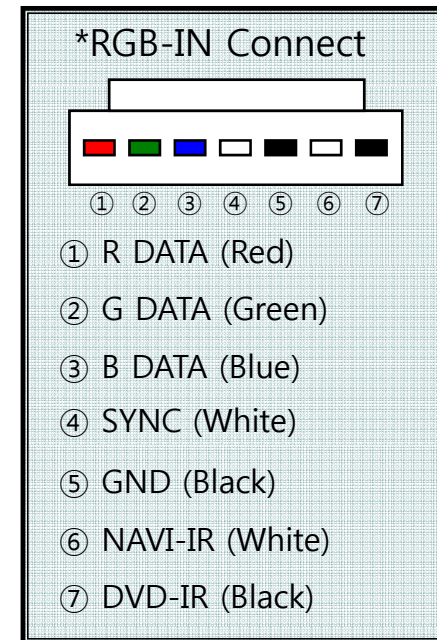
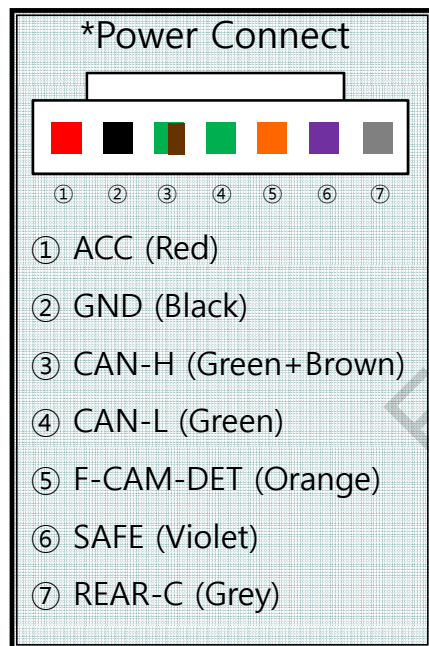
↑
IR

↑
TOUCH

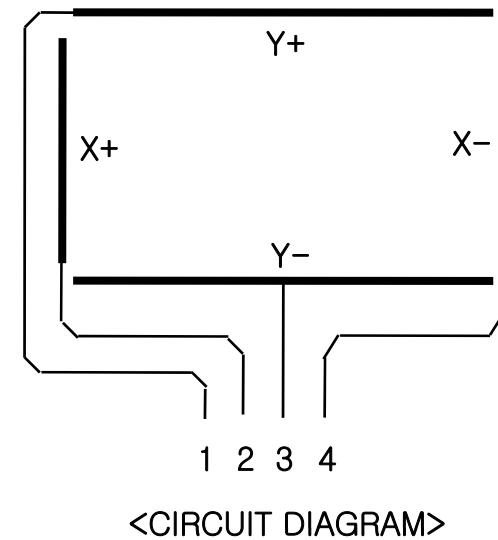
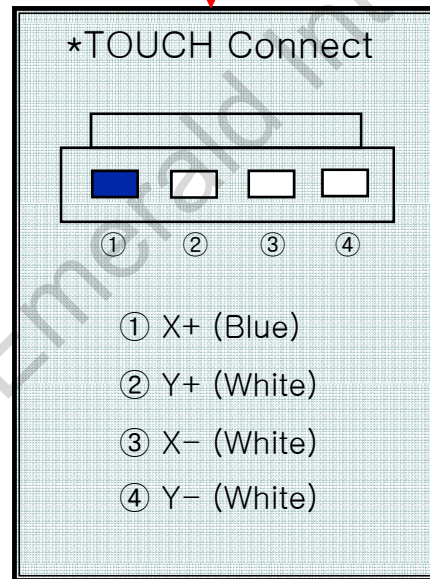
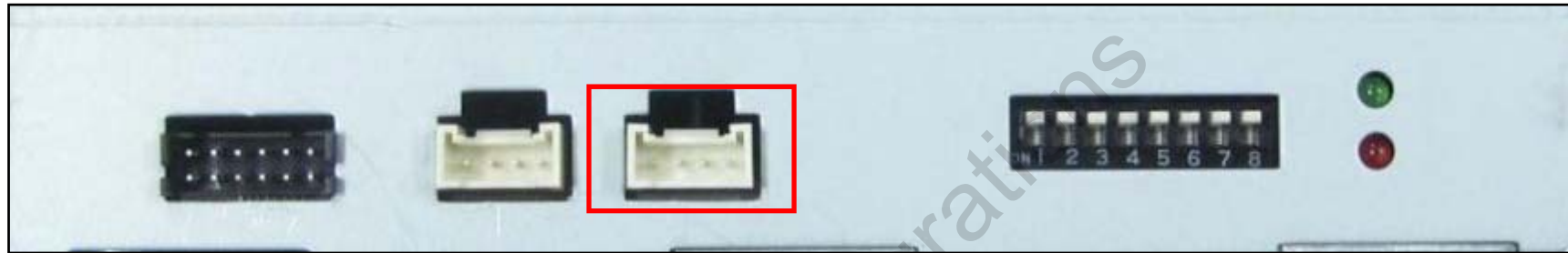
↑
DIP S/W

↑
LED

Connector Pin Assignment



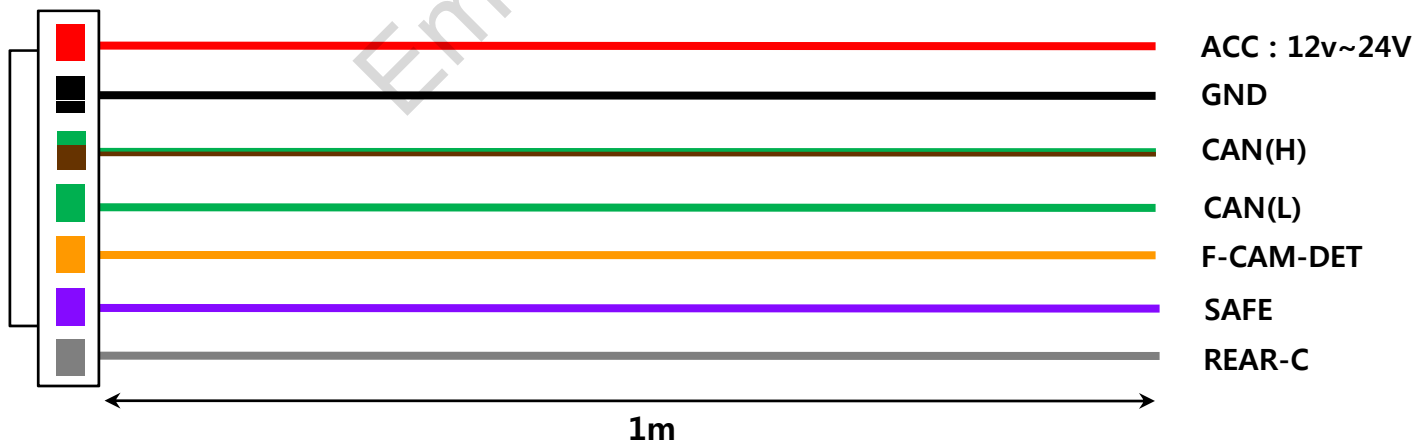
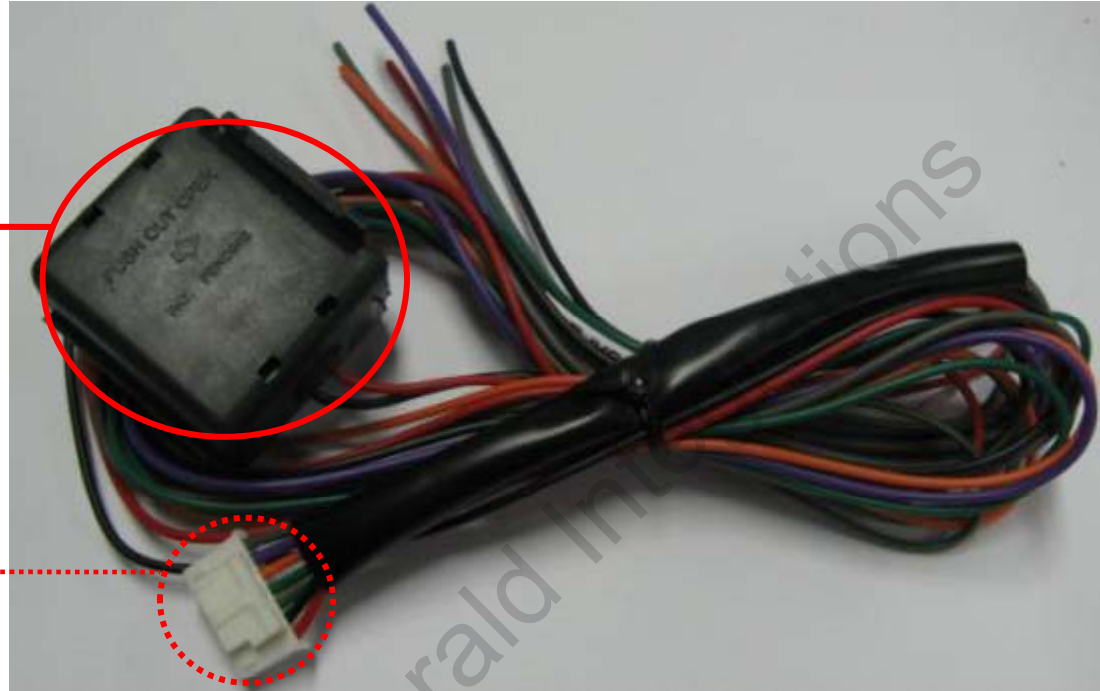
Connector Pin Assignment



Connector Pin Assignment

* Power Cable

**FILTER
& FUSE BOX**



-DIP SW

#PIN	FUNCTION	DIP S/W Selection
1	RGB INPUT MUTE	ON : Skipping RGB Mode OFF : RGB Display
2	A/V 1 MUTE	ON : Skipping A/V 1 OFF : A/V1 Display
3	A/V 2 MUTE	ON : Skipping A/V 2 OFF : A/V2 Display
4	A/V 3 MUTE	ON : Skipping A/V 3 OFF : A/V3 Display
5	N.C	
6	N.C	
7	Rear Mode	ON : External Rear Camera OFF : OEM Rear Camera
8	OEM Navi Mute	ON : In case of OEM Navi installed OFF : In case of OEM Navi not installed

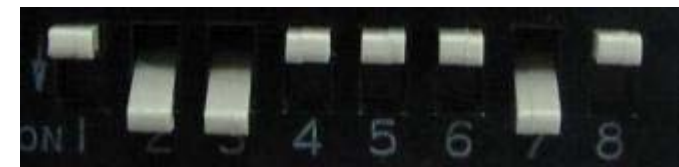
※ ON : DOWN, OFF : UP

※DIP S/W Use Example

[AUDI A4/A5]

- Use Input Mode : A/V3(DVD), Navigation (RGB)
- Rear Camera : When to be installed on CVBS 4
- When original Navi is not installed

- ▷ DIP S/W : 1 → OFF
- ▷ DIP S/W : 2,3 → ON
(INPUT MODE SKIP)
- ▷ DIP S/W : 4 → OFF (enable A/V3)
- ▷ DIP S/W : 5 → OFF (ON)
- ▷ DIP S/W : 6 → OFF (ON)
- ▷ DIP S/W : 7 → ON (enable CVBS4)
- ▷ DIP S/W : 8 → OFF



-REMOTE CONTROL



POWER & PIP: N.C

MENU : OSD operation

OK : Select

▲ : Up

▼ : Down

◀ : Left, Long press - Factory Mode operation

▶ : Right

***FACTORY MODE (Interface setting)**

: Operated by long press with ◀ button or
Pressing UP→DOWN→UP→MENU in order

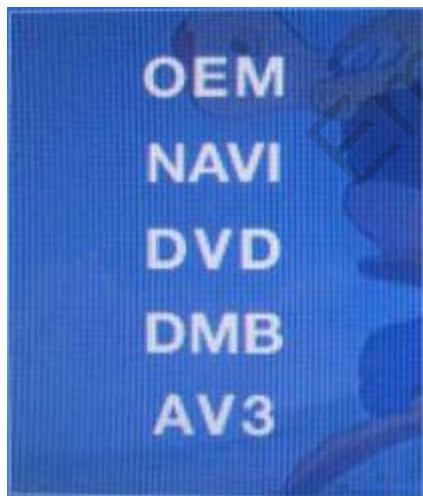
-OSD Menu : DVD (Optional)

※ For DVD OSD Menu operated, DVD must be connected with AV1 and DVD IR wire of RGB cable has to be wired with DVD's remote sensor.



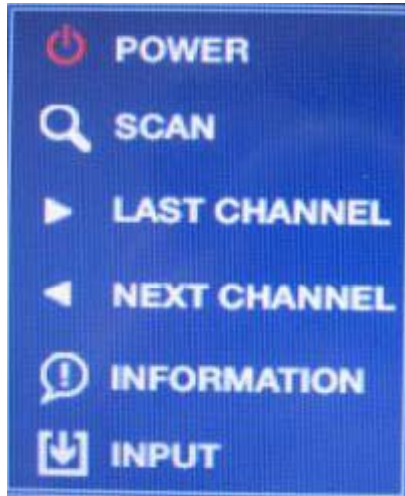
On AV1 mode, once touch the screen, Menu window appears like left picture. If no action for 5 sec or touch any other parts of the screen, this will disappear.

When selecting "INPUT", Menu window for mode switching appears like the below picture.



When the Menu appears as left picture, you can switch to as desired by touch.

-OSD Menu: DMB, NAVI



On AV2 mode, once touch the screen, Menu window appears like left picture. If no action for 5 sec or touch any other parts of the screen, this will disappear.

When selecting "INPUT", Menu window for mode switching appears like the below picture.



When Navigation is operated, if touching any point at the screen for more than 2 sec, Mode change menu will be appeared at the middle of the screen like left picture, navigation will stop temporarily and once touching any point excluding "menu" at the screen, it gets back to operation.

※ This Menu supports 2 languages (English, Chinese), you can select language on OSD menu

-OSD(On Screen Display)

※OSD Menu : Operated by Menu button on Remote.

• Analog RGB Mode



• Video Mode

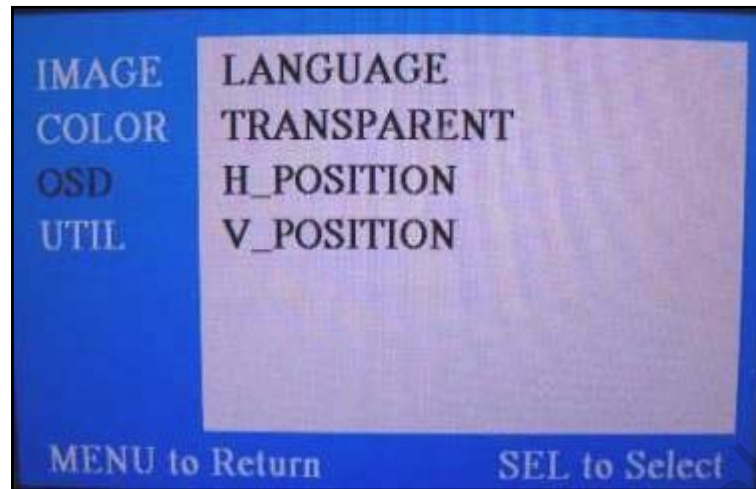


IMAGE Menu

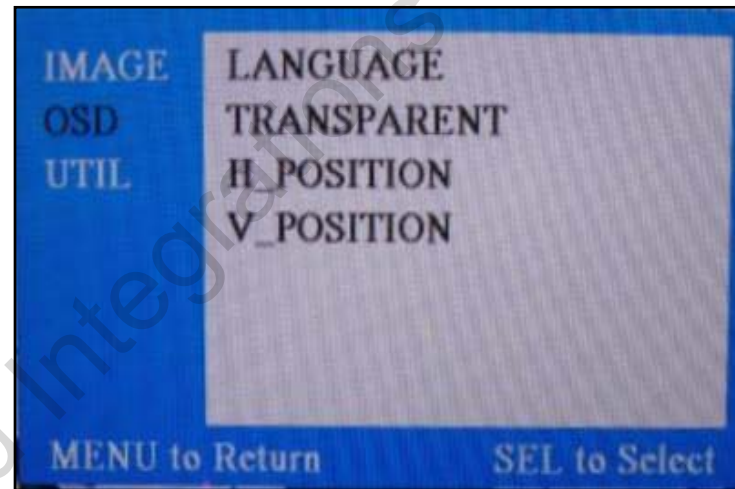
- BRIGHTNESS
- CONTRAST
- SATURATION
- HUE
- SHARPNESS
- USER IMAGE

OSD(On Screen Display)

- Analog RGB Mode



- Video Mode

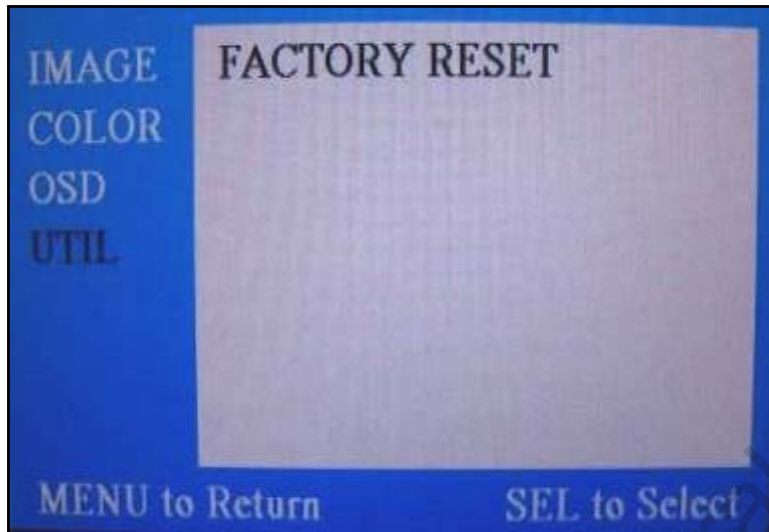


OSD Menu

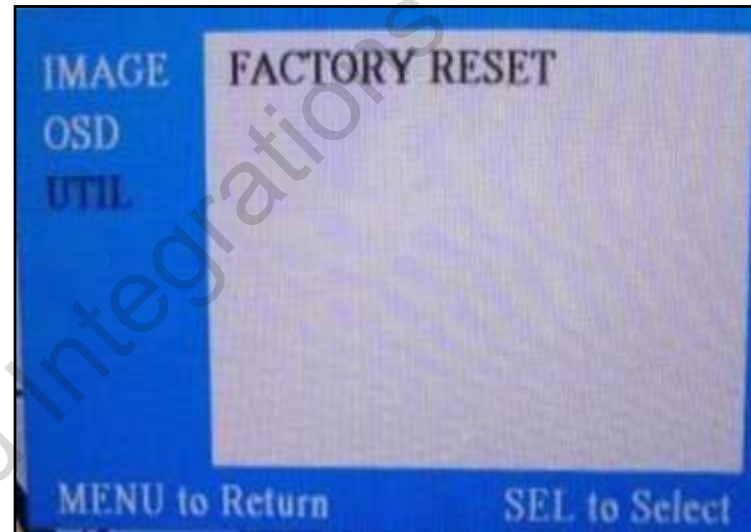
- LANGUAGE : Language select (English, Chinese)
- TRANSPARENT
- H_POSITION
- V_POSITION

OSD(On Screen Display)

- Analog RGB Mode



- Video Mode

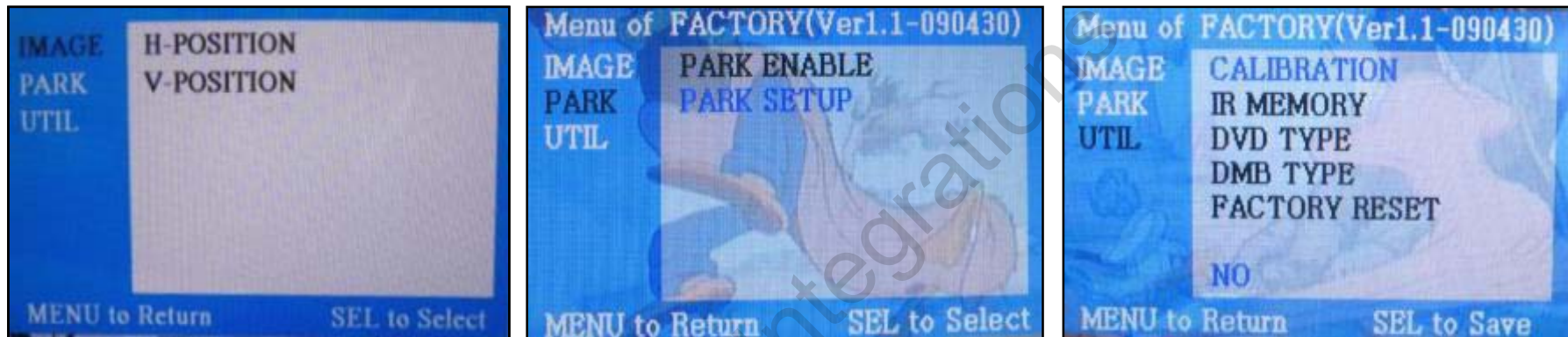


UTIL Menu

- FACTORY RESET : Initializing all set values of navi or DVD

-Factory Mode

- **Factory Mode**- Operated by long press with ◀ button or Pressing UP→DOWN→UP→MENU in order



Factory Mode

- **IMAGE** – H-POSITION : Horizontal Image position adjustment
 - V-POSITION : Vertical Image position adjustment
- **PARK** - PARK ENABLE : Rear parking Guide line setting
 - PARK SETUP : Rear parking guide line position adjustment (Refer to page no. 22)
- **UTIL** – CALIBRATION : Touch Calibration (Refer to page no.23)
 - IR MEMORY : Remote button value Memorizing (Refer to page no. 24)
 - DVD TYPE : DVD type setting (Refer to page no. 25)
 - DMB TYPE : DMB type setting (Refer to page no. 25)
 - FACTORY RESET : Initializing

-Factory Mode : Rear parking guide line

Factory Default : PARK ENABLE – OFF



① As left picture, Set "Park Enable" to "ON" in Factory Mode. (Default – OFF)



② After the setting done, rear parking guide line will appear in rear gear position. Once press "OK" button, "H_POS" appears at the right and can adjust the line's position.

Factory Mode : Rear parking guide line

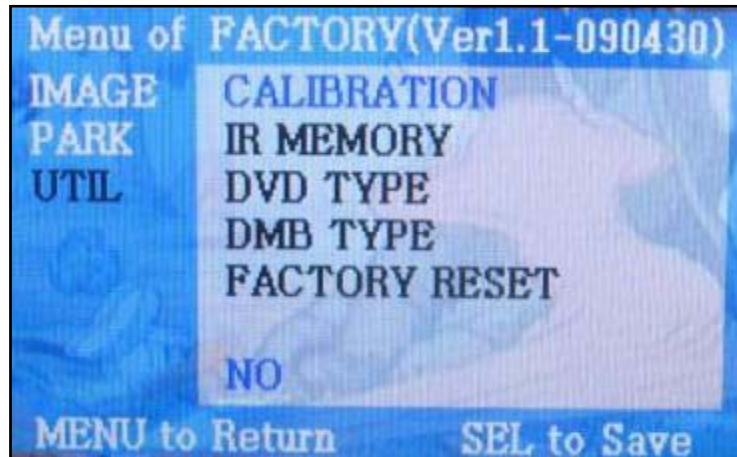
③



③ After H_POS, when pressing "OK" button again, V_POS appears.

※ **FACTORY MODE** : Operated by long press with ◀ button or Pressing UP→DOWN→UP→MENU in order

-Factory Mode : Touch Calibration

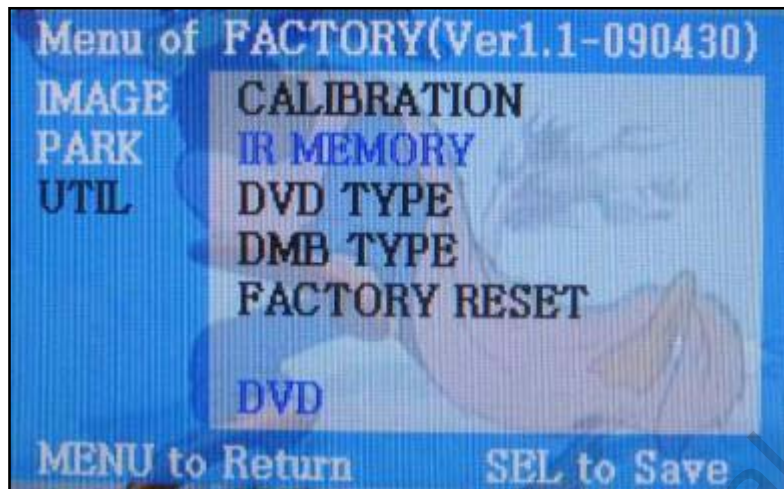


- Set "TOUCH CALIBRATION" to "YES" from "NO"



-Factory Mode : IR Memory Function

IR Memory Function? If user would like to control DVD or DMB by touch, User can get interface memorize DVD or DMB's remote button value via this function.



Step 1.) On Factory menu, select "IR MEMORY" and one of DVD, DMB you desire to set.

Step 2.) When the menu as left picture is displayed, choose one of functions displayed.

Step 3.) Confirm with pressing "OK" button of interface remote. Then, as the right part marked in the picture, right part in the window will blink.

Step 4.) Press one button of DVD or DMB remote you like to use for the designated function.

Example) "DVD" IR MEMORY



1. Press "OK" button of interface, after selecting "Power button" like left picture.

2. When the marked part in the picture blinks, press "Power" button of DVD remote you would like to use.

Factory Mode : IR Memory Function



3. As soon as pressing the button, the remote button value displays at the right corner and it is saved automatically.

4. Do other buttons as the same procedure.



Step 5.) After all remote input finished, select "INPUT" on OSD, and press "OK" button of interface remote. Then, as left picture, confirmation window displays and ask confirmation.

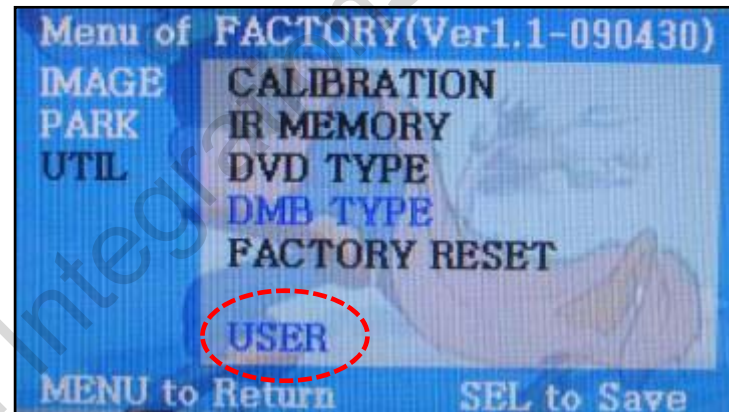
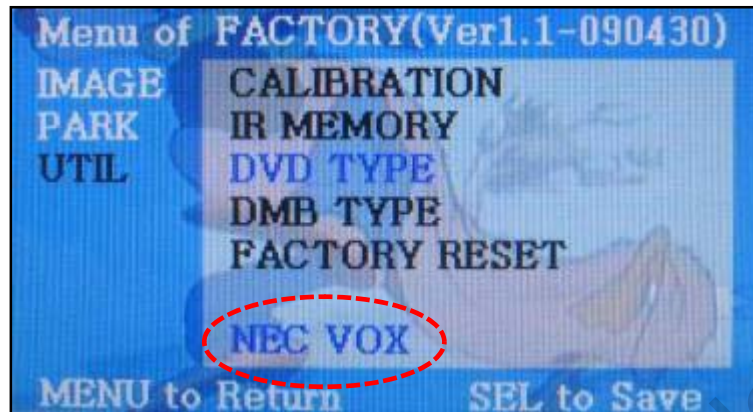


Step 6.) If "SUCCESS" displays, you can control DVD by touch.

* After you have done this procedure, DVD or DMB type should be set to USER

-Factory Mode : DVD, DMB Type Selection

Factory Default : DVD TYPE – NECVOX/SANYO (For Chinese DVD)
DMB TYPE – CMMB (For Chinese DMB)



UTIL – DVD TYPE (DMB TYPE)

: If your desired DVD or DBM is not NECVOX or SANYO, you have to do IR MEMORY and "DVD TYPE" or "DMB TYPE" should be set to "USER"



Remote : 1 Ea
LCD Out Cable : 1 Ea
Navi(RGB) Cable : 1 Ea
Toggle Switch : 1 Ea
TOUCH Cable for board : 1 Ea

Power Cable : 1 Ea
A/V Cable : 1 Ea
IR Cable : 1 Ea
LCD Cable : 1Ea
TOUCH Screen Cable : 1 Ea

Navigation



-Installation Guide

1. Air-Con box removal



Remove the Air-Con. Box with proper tools as the left picture.



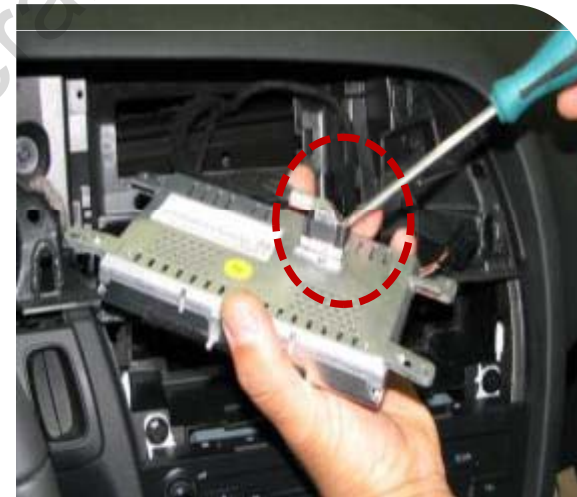
Remove the indicated part under the head unit with proper tools like the picture.

-Installation Guide

2. Disassembling LCD



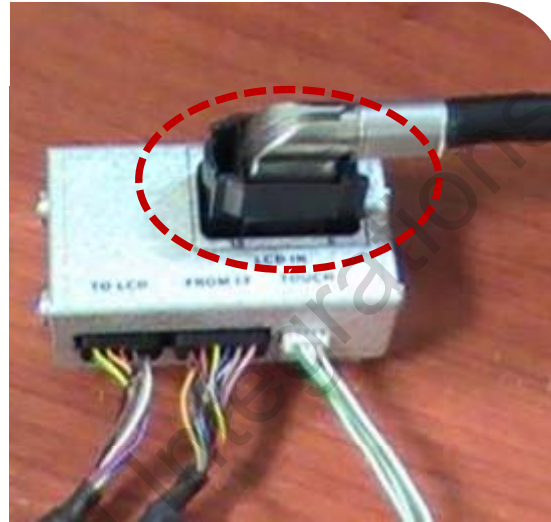
Remove the LCD case with a proper tool, be careful of the cable connected with the case.



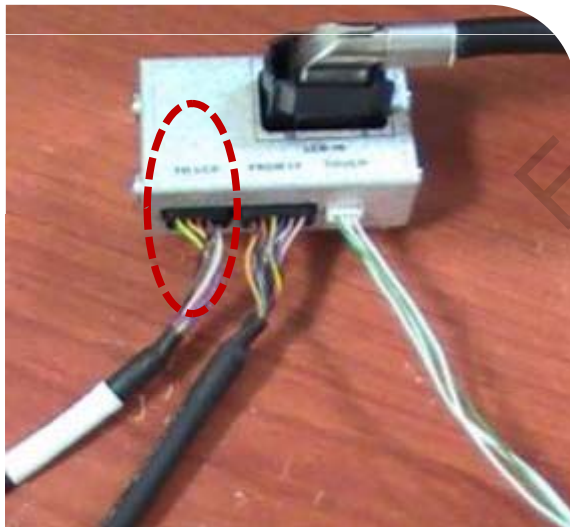
Remove the screws with a proper tool and monitor like the left picture.

-Installation Guide

3. Connect the LCD Cable



Connect the original LCD cable from monitor to "LCD-IN" of provided sub-board.



Connect the provided LCD-OUT cable between behind of LCD monitor and provided sub-board like left pictures.

-Installation Guide

4. Connect Touch Screen Cable (Optional)



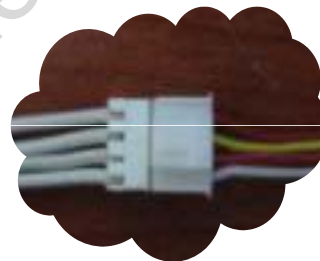
Connect the provided Touch Screen Cable to "Touch" of the sub-board and Touch Screen.



Connect the provided LCD cable between the sub-board and interface board.

-Installation Guide

5. Connect TOUCH(NAVI) cable (Optional)



As the pictures, connect the provided Touch(NAVI) cable to "TOUCH(NAVI)" Connector of interface board and Navigation's Touch part.



* We provide Touch(Navi) cable with plug&play.

-FAQ

1. When can not change mode.

- Check if the IR Cable (Remote) is connected or not.
- Check if LED is turned on or not. If it is not turned on, Check if power cable is connected or not.
- Check if CAN is connected well.

2. When the screen is displaying only black color.

- Check if 2nd LED is turned on or not. If it is not turned on, please check all video sources that you will connect with the interface is operating well or not.
- Check if interface is connected well.

3. When displayed color of screen is not proper. (If it's too dark or the color is not proper)

- Try to push "Reset button" on the remote control. If the color of screen keeps on displaying wrong color, you have to ask manufacturer for the problem.
- Try to adjust Color, Contrast, Brightness by the remote.

4. When Back-up camera is not displayed on the screen.

- Turn Dip S/W no.7 on.

5. When the mode you set is not skip.

- Check if Dip S/W is set in proper way.

6. When Main screen on the car is not displayed.

- Check if In/Out cables are connected well. If it keeps showing the same problem, you have to ask manufacturer for the problem.

7. When the screen is displaying only white color.

- Check if out cable is connected well. If it keeps showing the same problem, you have to ask manufacturer for the problem.