

# Install Manual

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## (NEW LEXUS ES300H 2014~)

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Update Date	2014.12.23
Model	
Firmware Date	

# Warning / Caution



## Warning

- When installing the main unit, do not remove or alter existing vehicle fasteners, including nuts, bolts, screw, clips, and fittings. Never detach, move or alter existing vehicle wiring, including electrical grounds and straps. Alteration of existing vehicle components may make vehicle unsafe to operate. Should be no any electronic devices or magnetic pole around installation place.
- Air bags are vital part of a safety system. Never install main unit in a way which will alter air bag wiring or interfere with air bag deployment. Air bags must function properly in the event of an accident.
- Before installing, check the location of pipe, tank, electrical cables and others.
- Read and follow the instruction manual.
- Wiring location must not interfere driving, get in or out from car.
- Use electrical tape to insulate the ends of all wires, even if they are not used. Proper insulation prevents arcs, shocks and fires.
- When installation is complete, test all vehicle electrical systems to ensure they operate correctly, including lights, horn, brake lights, and emergency flashers.
- According to our sales policy, any problems caused by user's mistake, careless can not be guaranteed.



## Caution

- All steps of installation should be done by well-trained specialist.
- During installation ignition key should be taken off and after all installation finish connect power cable with interface for the last step.
- Do not install the main unit in places where it may be exposed to dew condensation (around the air conditioning hose, etc), or in locations where it may come in contact with water, high levels of moisture, dust or oily smoke
- Install wiring in a manner in which cables will not come in contact with metal parts. The wiring may be damaged by contact with metal parts, resulting in fire and shocks. Avoid all contact with hot surfaces when wiring the main unit. High temperatures may damage wiring, causing shorts, arcing and fires.
- Kindly check all parts are in the box, when receiving the product, if anything missing, inform to the supplier or manufacturer.

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# 1. Specifications

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## 1.1 Main Specifications

### 1. Car Compatibility

NEW LEXUS ES300H 2014~

### 2. Components

Interface\* 1EA

### 3. MULTIMEDIA INTERFACE input specification

3 \* A/V input (video external input)

1 \* CVBS(Rear Camera) input

1 \* Analog RGB input (Navigation system)

1 \* LCD input (Car system input)

### 4. MULTIMEDIA INTERFACE output specification

1 \* LCD output

### 5. Power specification

Input power : 8VDC ~ 18VDC

Consumed power : 3.5WATT

### 6. Switch input mode

- External display skip function

: Through DIP switch, can control each video input

- Through remote control, can change input mode

- Through CAN or rear lamp cable, rear camera can be detected

# 1. Specifications

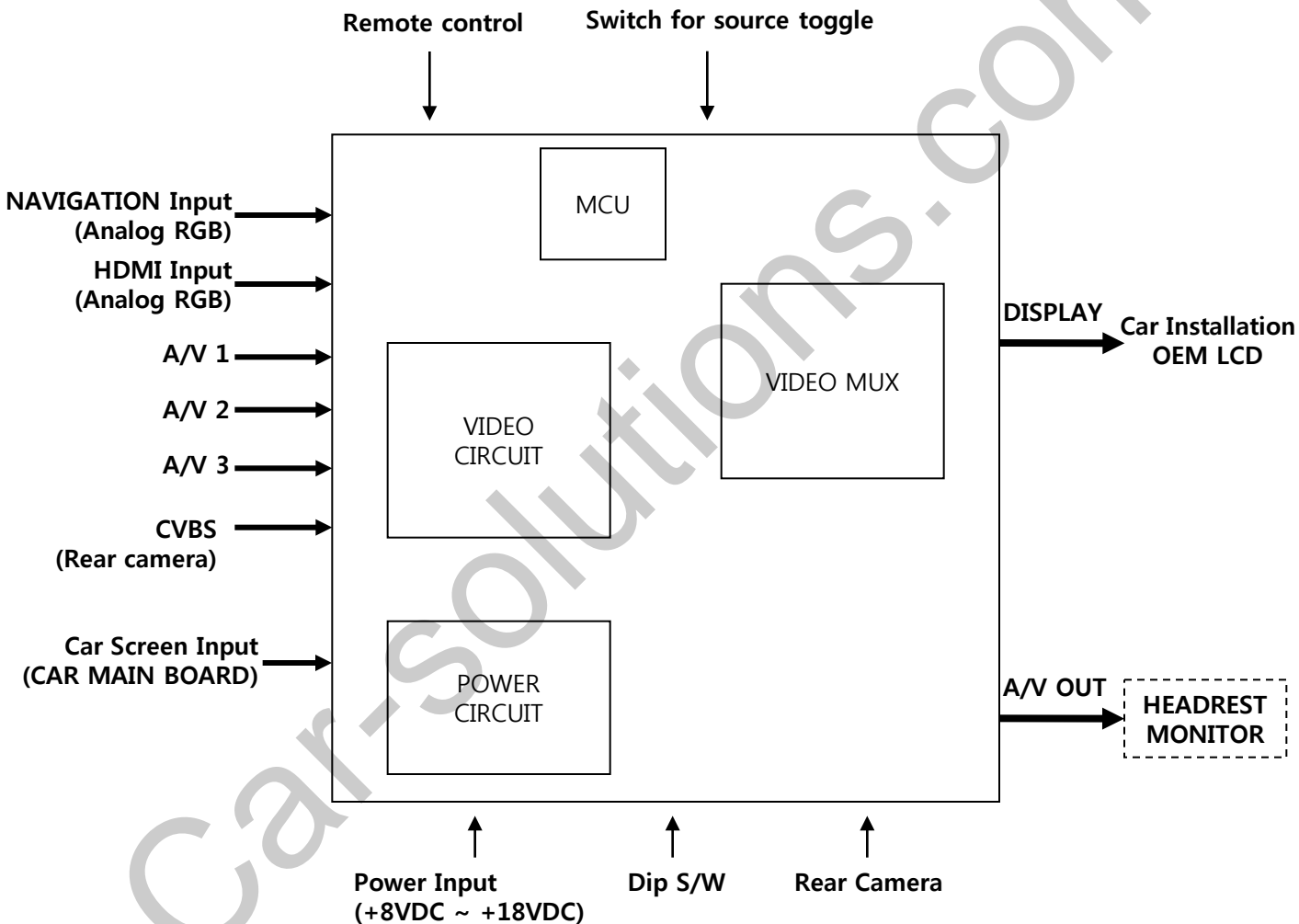
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## 1.2 Features

- Able to adjust DVD, NAVI display on screen
- Provide power cable to connect with rear camera
- Dynamic PAS(Parking assistance system), moving parking line according movement of steering wheel

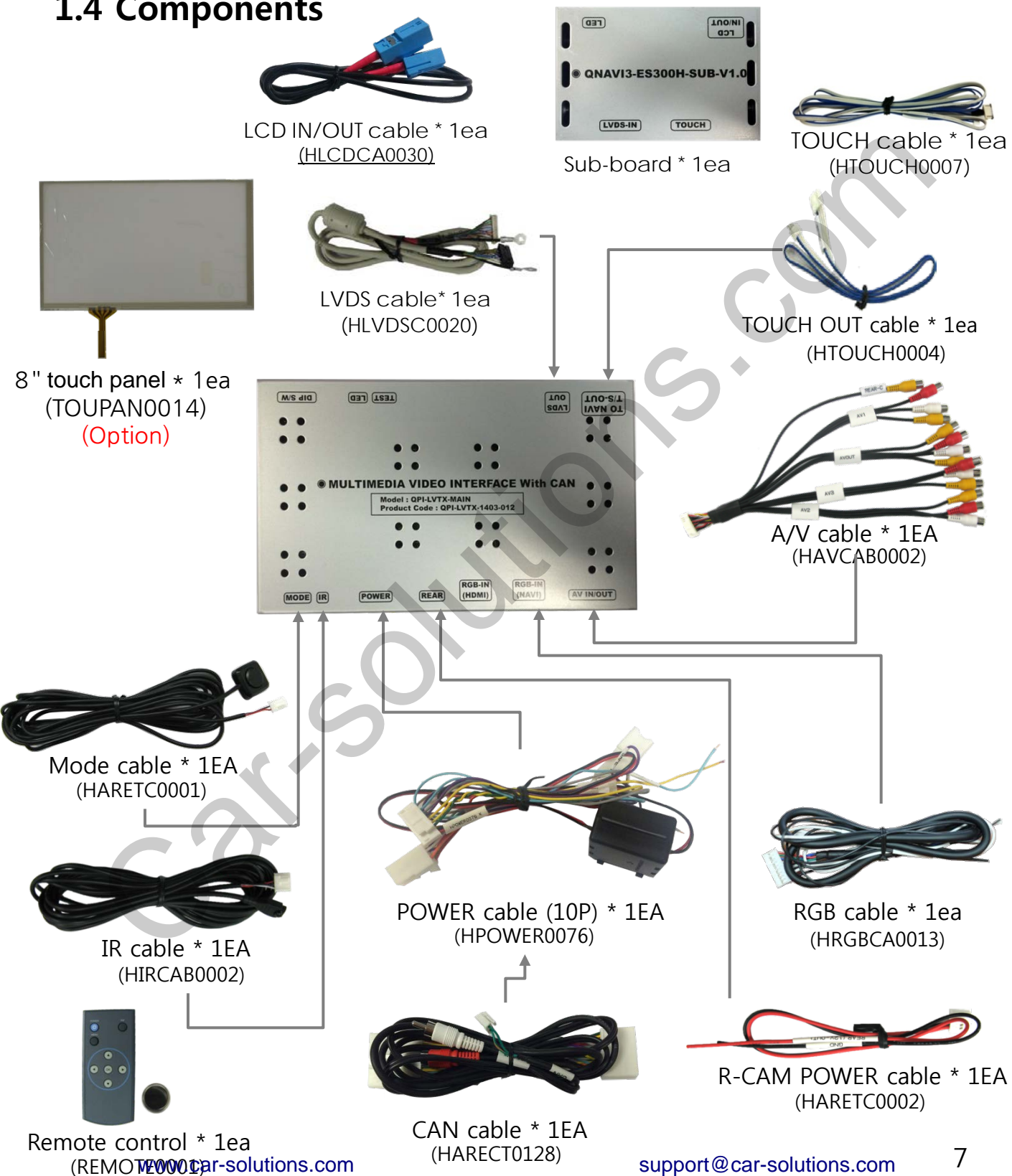
# 1. Specification

## 1.3 System Diagram



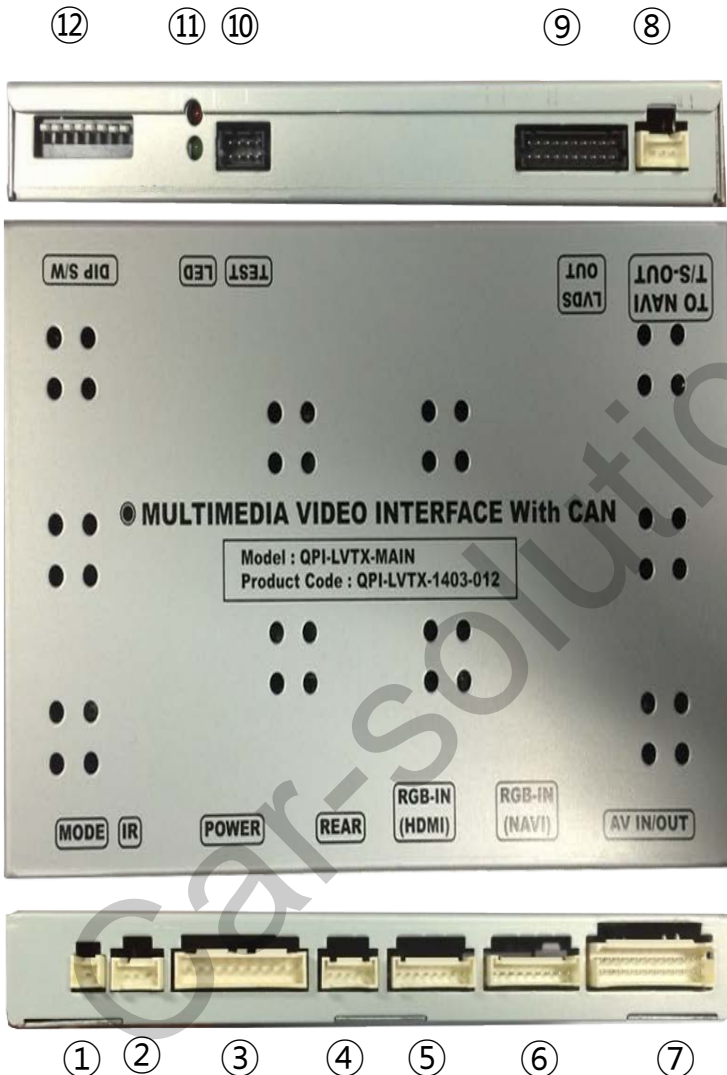
# 1. Specification

## 1.4 Components



# 1. Specifications

## 1.5 Exterior



### Dimension

Width 150.4mm

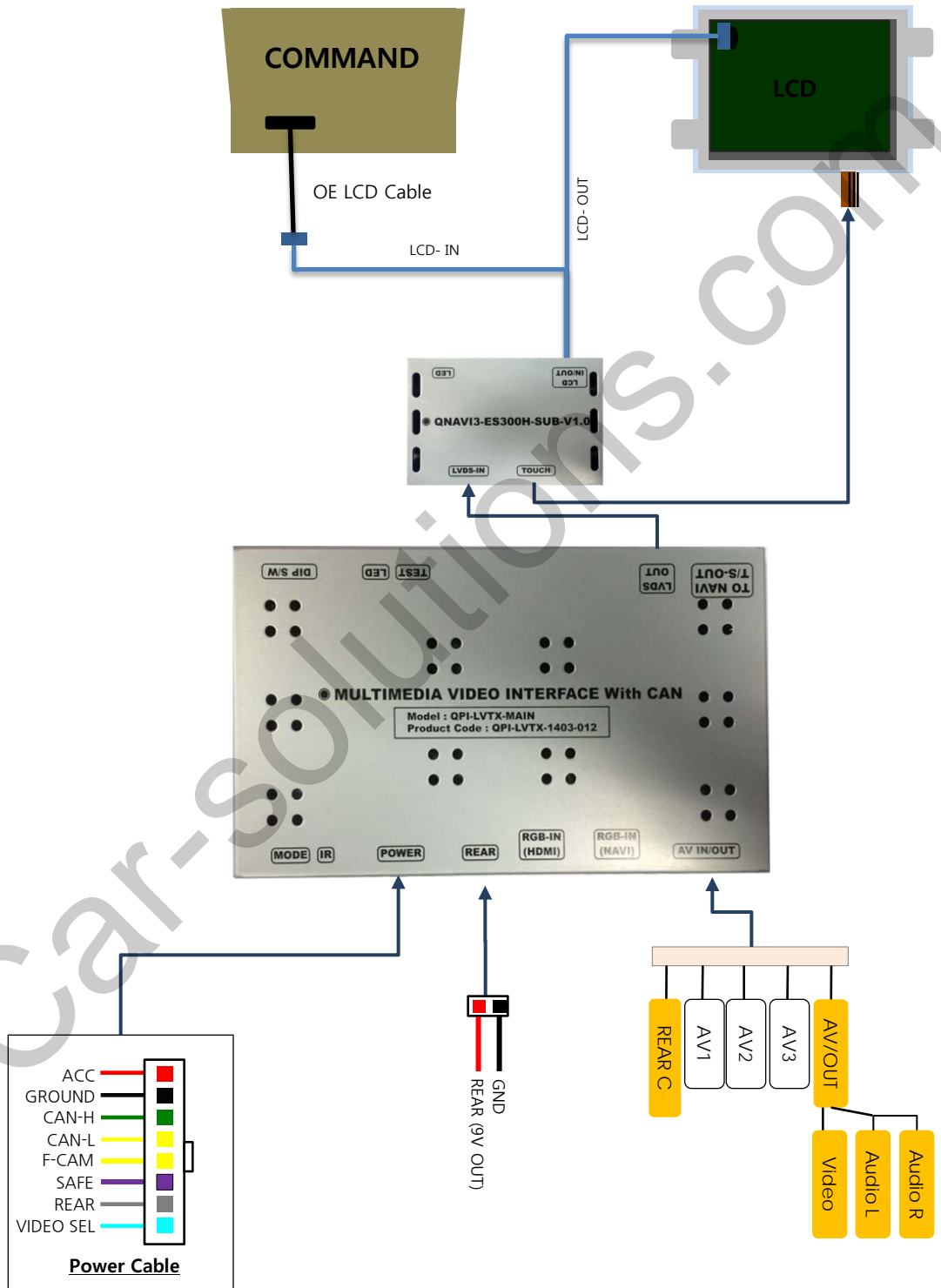
Length 99.4mm

Height 23.2mm

- ① MODE
- ② IR
- ③ POWER
- ④ REAR
- ⑤ HDMI
- ⑥ RGB-IN(NAVI)
- ⑦ AV IN/OUT
- ⑧ TO NAVI T/S-OUT
- ⑨ LVDS OUT
- ⑩ TEST
- ⑪ LED
- ⑫ DIP S/W

# 2. Installation

## 2.1 Installation Diagram



# 2. Installation

## 2.2 Installation

### ※ Connection of LCD Cable

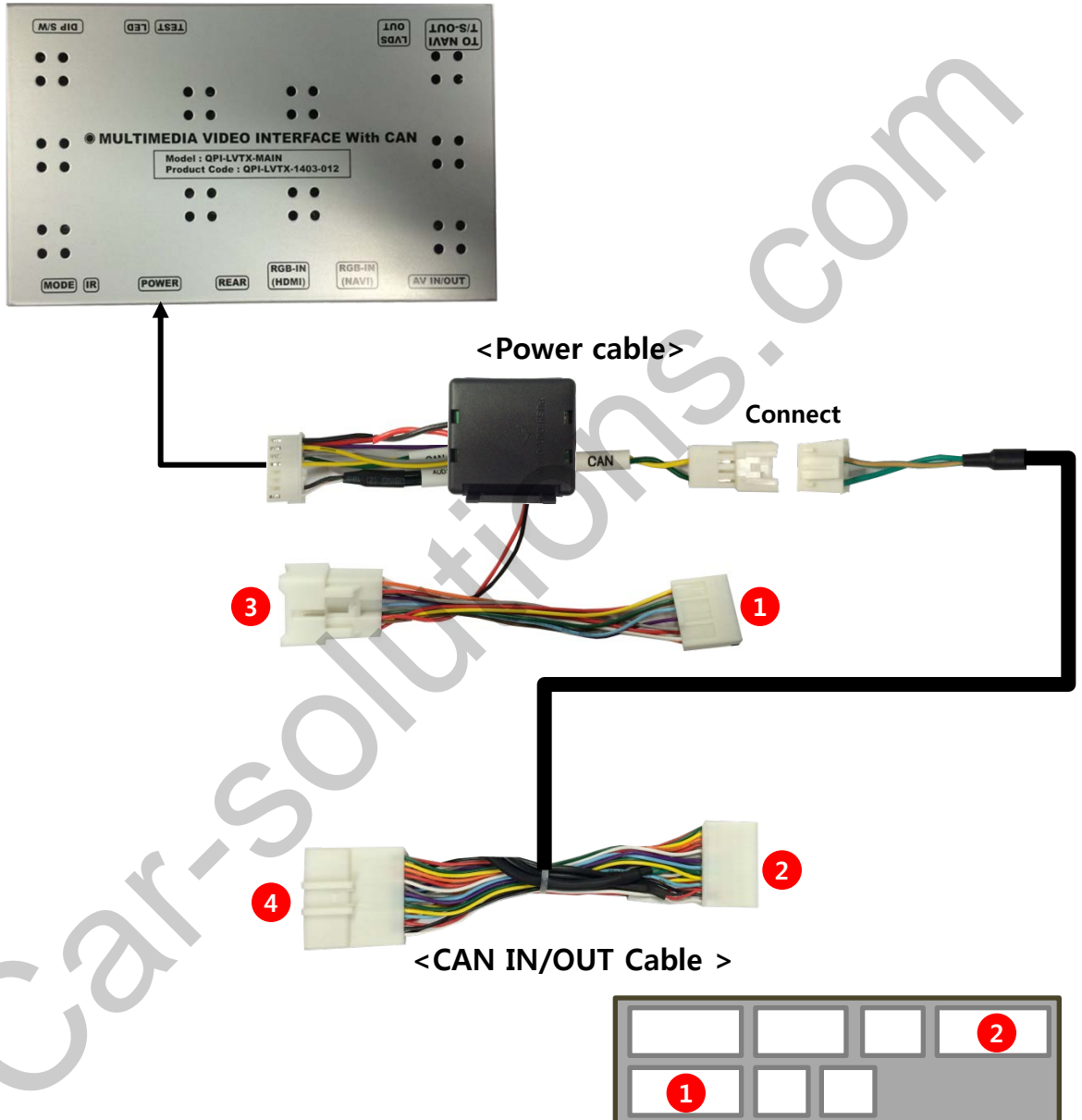


- ① Disconnect OEM LCD cable from the monitor and connect supplied LCD cable to "LCD-IN"
- ② Connect opposite side of supplied LCD cable to the monitor

# 2. Installation

## 2.2 Installation

### ※ Connection of POWER / CAN In/Out

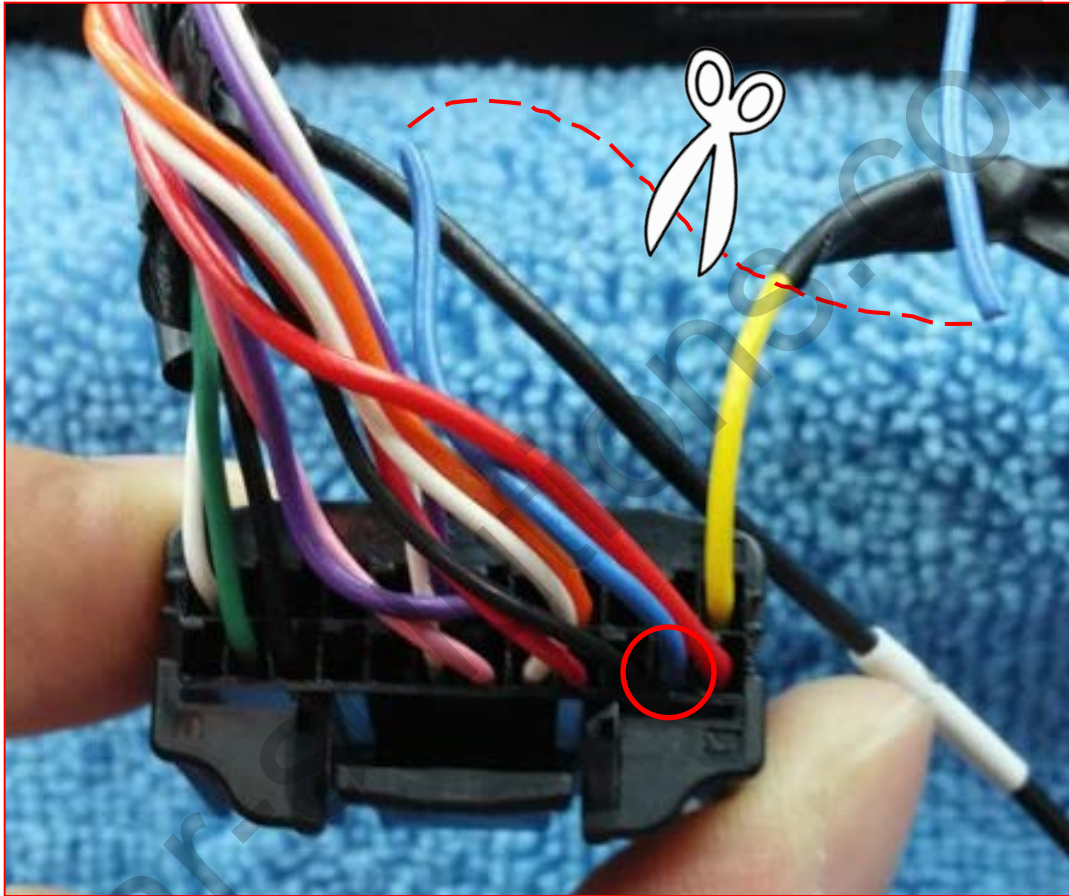


- ※ Connector ① → Connect Behind Command ① <Behind Command>
- Connector ② → Connect Behind Command ②
- Connector ③ → Connect OEM cable which was connected from behind command ①
- Connector ④ → Connect OEM cable which was connected from behind command ②

# 2. Installation

## 2.2 Installation

※ Cautions : In case of flickering external image



- Please find the OEM cable and cut the Blue cable which was connected to pin #2

※The color of the cable can be different

# 3. Setting

## 3.1 DIP Switch



※ ON : DOWN, OFF : UP

※ Example DIP S/W usage

- Input mode : A/V2, A/V3
- OEM NAVI
- Rear Camera

- ▷ DIP S/W : 1,2 → ON (INPUT MODE SKIP)
- ▷ DIP S/W : 3 → OFF (A/V2 USEABLE)
- ▷ DIP S/W : 4 → OFF (A/V3 USEABLE)
- ▷ DIP S/W : 5,6 → OFF
- ▷ DIP S/W : 7 → ON (Rear Camera USEABLE)
- ▷ DIP S/W : 8 → OFF (Default)

#PIN	기능	DIP S/W 선택
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, 6	No use	No use (Default Off)
7	Rear Mode	ON : External Rear Camera OFF : OEM Rear Camera
8	N.C	

※ 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.

# 3. Settings

## 3.2 Remote Control



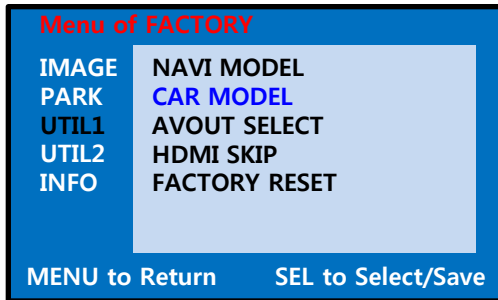
Key	Function
POWER	Unavailable
PIP	A/V 1~2 Mode : Remote control UI Display A/V 3 Mode : Mode switching UI Display
MENU	Activating OSD menu
OK	Making a selection, changing image display
▲	Moving upward
▼	Moving downward
◀	Moving leftward (If you press this button 2 seconds long, you can access the factory mode.)
▶	Moving rightward (If you press this button 2 seconds long, you can reset all the data about user environment.)

# 3. Setting

## 3.3 Car and navigation model

FACTORY mode – Press ◀ button 2 seconds long on the remote control.

### ▪ Setup for car model



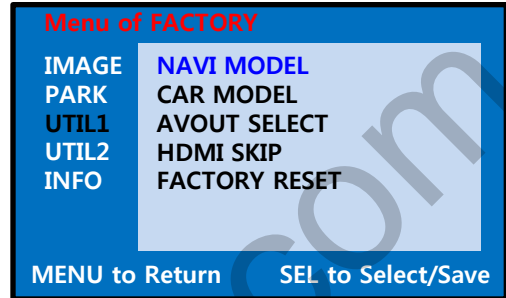
#### ❑ UTIL1 - CAR MODEL

Select the model of Car

IS 250, GX 460, NX 300h,  
RX 270, LX 570, ES300H

### \* Select car model

### ▪ Setup for navigation

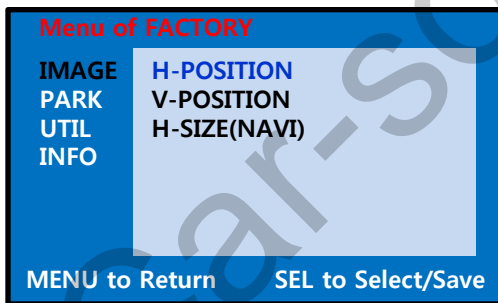


#### ❑ UTIL1 – NAVI MODEL

Select Navi model

DEFAULT

\* Set up the resolution of monitor and go to FACTORY/ IMAGE to set up the size and position of navigation.



#### ❑ IMAGE

Adjust navigation position and size

H-POSITION : Move display horizontally

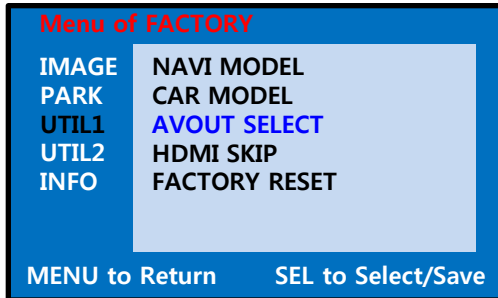
V-POSITION : Move display vertically

H-SIZE : Adjust Navigation horizontally

# 3. Setting

## 3.4 FACTORY Mode

FACTORY mode – Long Press ◀ button on the remote control.

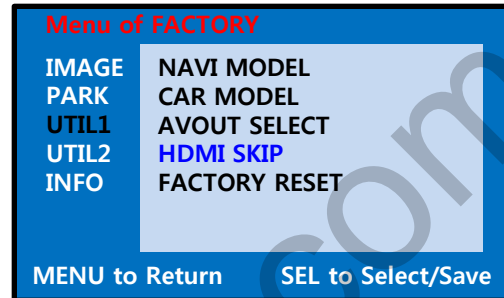


### ☐ UTIL1 – AVOUT SELECT

Selecting background sound  
After switching navigation or  
original mode

DEFAULT : Selecting AV sound  
which was played just before  
changing navigation or original  
mode from the AV mode

AV 1~3 : Sound of the selected  
AV source 1~3



### ☐ UTIL1 – HDMI SKIP

Selecting whether to use HDMI  
function or not

ON(Not use) / OFF(use)



### ☐ UTIL1 - FACTORY RESET

FACTORY MODE RESET

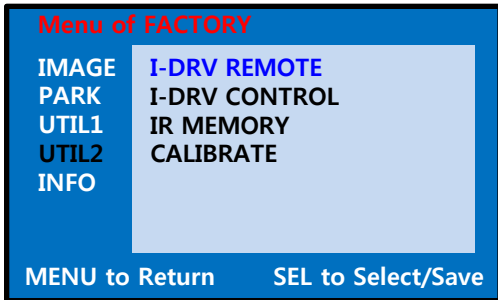
※ Same way and function to reset via long pressing

▶ Button on the remote control.

# 3. Setting

## 3.4 FACTORY Mode

FACTORY mode – Long Press ◀ button on the remote control.

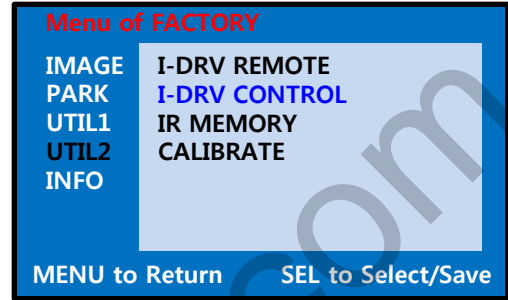


### ☐ UTIL2 - I\_DRV REMOTE

Choose DTV and DVD model to be control remote control image by touch

USER(when using IR MEMORY)

In AV 1 ~ 3 modes, you will see the image of remote control after connecting external devices and touch the screen.



### ☐ UTIL2 - I\_DRV CONTROL

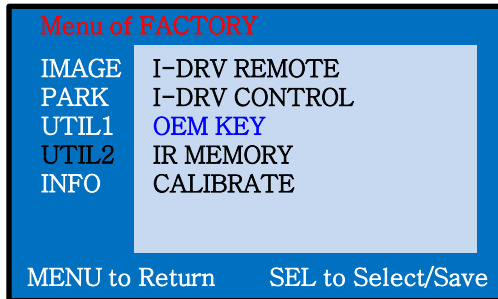
Selecting whether to use Remote control image by touch or not

ON / OFF

# 3. Setting

## 3.4 FACTORY Mode

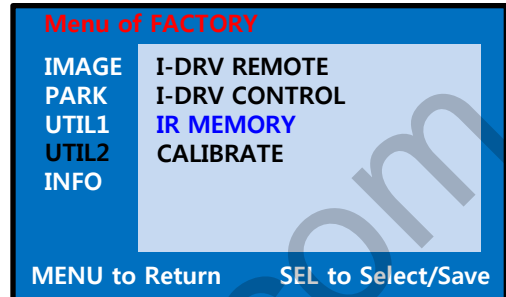
FACTORY mode – Long Press ◀ button on the remote control.



### ☐ UTIL2 – OEM KEY

Selecting whether to use OEM DISP KEY

YES(Default) / NO



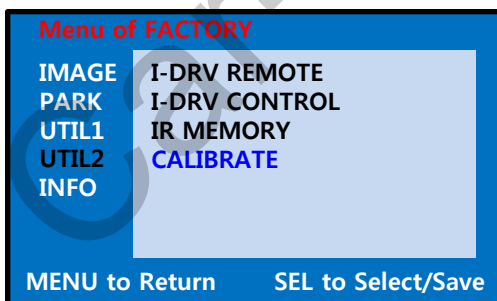
### ☐ UTIL2 – IR MEMORY

In order to control remote control image on screen, You need to register remote control values of DVD, DTV

※ To use this function, in UTIL2-I\_DRV REMOTE select USER mode

DVD / DTV

It is required to synchronize the remote control signal with DVD,DTV IR cable.



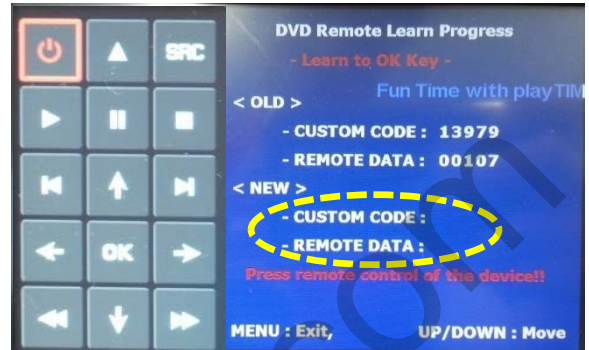
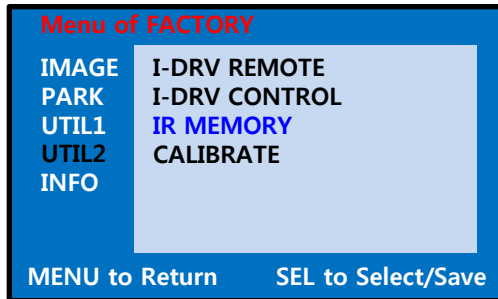
### ☐ UTIL2 – CALIBRATE

Touch Calibration

YES / NO

# 3. Setting

## 3.5 DVD, DTV IR-MEMORY Input



- ① First of all, press ◀ button on remote controller 2 seconds long or press UP→DOWN→UP→MENU button in order to access Factory mode. Choose IR MEMORY on UTIL2.

In IR MEMORY, you can choose AV source of DTV and DVD you want to use.

- ② Picture above shows DVD remote control button value input, select menu you want to save. (To register DVD remote control button value, select IR MEMORY – DTV and follow below instructions.

Example)

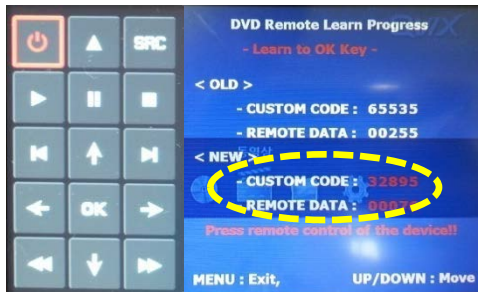
- a. After select OK button on OSD menu, press intended I-Drive button
- b. Indicated part above will flicker, and press POWER on DVD remote control. (continue to next page)

### What is IR-MEMORY Mode?

Is to allow touch screen to control other DVD or DTV (besides the existing,; for example : SANYO, NECVOX) by register remote control value.

# 3. Setting

## 3.5 DVD, DTV IR-MEMORY Input



Instruction> continued...

c. The values that you registered will appear as green text in the marked area on pressing the button. And the values will be saved automatically.

d. Register remain buttons' value in OSD menu like the above-mentioned.

- ③ After register, select "SRC" button in OSD menu. Then you can see confirmation window as shown above. At the moment, (If data is saved, DVD TYPE and DTV TYPE will be changed to "USER" automatically.)

If you see "SUCCESS" on screen, the data is saved clearly and you can control DVD via touch screen. BUT, you MUST change the option in FACTORY-UTIL2-I\_DRV REMOTE to "USER".

※ When touch the screen or Select PIP button in remote controller, you can control DVD, DTV using remote control UI via touch screen

※ DVD(A/V1), DTV(A/V2) mode, Can see remote control UI  
HDMI, A/V3 mode, Can see mode switching UI

- If you want to see mode switching UI in DVD, DTV mode, Select "SRC" button



# 3. Setting

## 3.6 How to use OEM buttons

### ※ Steering Wheel



※ DISP Button – Short Press : Switching to OEM Mode  
Long Press : Switching modes

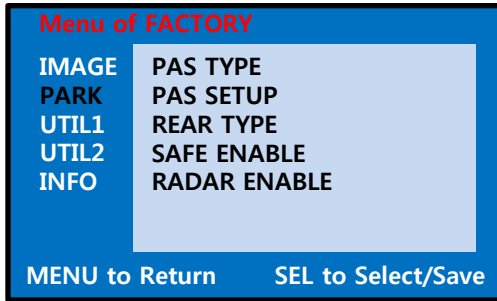
※Cautions : If you use DISP button, Trip information will be changed  
(Setting Enable DIPS button– FACTORY→UTIL2→OEM KEY)  
- Able to switch modes through toggle switch if you do not use DISP.

# 3. Setting

## 3.7 Rear Camera

FACTORY mode – Press ◀ button 2 seconds long on the remote control.

※After installing rear camera : DIP S/W #7 must be put down (ON). Refer to page 9.



### □ PARK

PAS TYPE : Selecting Type of parking guide line

- NOT USED : Not use Parking guide line
- PAS ON : Selecting Dynamic Parking guide line
- PAS OFF : Selecting fixed Parking guide line

PAS SETUP : Adjusting the position of the parking guide line (available in PARK SETUP-> V-POSITION, H-POSITION)

REAR TYPE : Choose rear camera recognition

- \* LAMP - Detecting the rear view camera via rear lamp (Installer must connect "Rear-C" cable of the power cable to the rear lamp of the car.)
- \*CAN - Detecting the rear view camera by CAN signal (Installer must connect "CAN" cable of the power cable to the "CAN" cable of the car.)

SAFE ENABLE : If your car is connected with CAN cable and it is in "ON" state, you can NOT watch DVD or A/V except original image or navigation while driving. At that time the screen get back to the main (default : OFF)

RADAR ENABLE : No use

- If you want to get to the FACTORY mode, Shift in to reverse and press "LEFT" button 2 seconds long on the remote control or the keypad. (as shown left top)

# 3. Setting

## 3.8 Rear Parking Guidelines

Go to Factory Menu, choose PAS SETUP, by using OK button change H-POS → V-POS → TYPES

### □ H-POS



In H-POSITION, use ◀, ▶ on remote control, to adjust parking guideline left and right.

### □ V-POS



In V-POSITION use ▲, ▼ on remote control, to adjust parking guideline up and down.

# 3. Setting

## 3.9 OSD (On Screen Display) / Analog RGB Mode



### □ IMAGE

- \* BRIGHTNESS
- \* CONTRAST
- \* SHARPNESS



### □ OSD

- \* LANGUAGE : Set OSD language (only support English and Chinese)
- \* TRANS : Adjust OSD transparency
- \* H-POSITION : Move OSD horizontally
- \* V-POSITION : Move OSD vertically



### □ UTIL

- \* FACTORY RESET  
: Factory reset only for OSD function  
(unable reset video position)

# 3. Setting

## 3.9 OSD (On Screen Display) / Video Mode



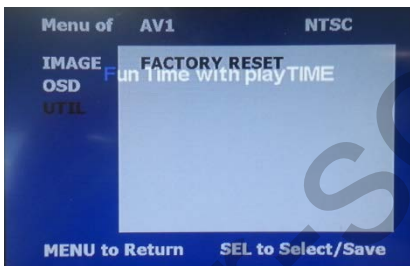
### □ IMAGE

- \* BRIGHTNESS
- \* CONTRAST
- \* SATURATION
- \* HUE
- \* SHARPNESS



### □ OSD

- \* LANGUAGE : Set OSD language (only support English and Chinese)
- \* TRANS : Adjust OSD transparency
- \* H\_POSITION : Move OSD horizontally
- \* V\_POSITION : Move OSD vertically



### □ UTIL

- \* FACTORY RESET  
: Factory reset only for OSD function (unable reset video position)

# 4. Trouble Shooting

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**Q. I cannot change mode**

- A. Check connection of Ground cable and IR Cable.  
Check LED lamp is on, if not check connection of POWER cable.

**Q. All I got on the screen is black.**

- A. .Check second LED lamp of the interface is on, if not, check A/V sources connected are working well.  
(Second lamp indicates AV sources connected works well.) Check interface connection has been done well.

**Q. Displayed image color is not proper (too dark or unsuitable color)**

- A. Try to select "INITIAL" in OSD menu, if it does not work, inform to manufacturer.

**Q. I cannot watch the rear camera on the screen**

- A. Set the DIP switch #7 as state "ON".

**Q. Set mode not appear**

- A. Check DIP Switch.

**Q. OEM image is not displayed.**

- A. Check interface's LCD In/Out cable connection. If the status keeps on, inform to manufacturer.

**Q. Screen only displays white color.**

- A. Check LCD out cable is connected well, if this status keeps, inform to manufacturer.

**Q. External Video does not show up after connecting Lexus LVDS cable (HLCDCA0002)**

- A. Try out Switching assignment of LVDS High(Red and Yellow) like (1↔2, 4↔5)  
B. If it does not work, Please contact with the manufacturer.

**Q. If External image is not shown and but OEM image works fine.**

- A. Please swap the pin assignment of GVIF IN/OUT as follows, 123 ↔ 456 and then swap purple cable with brown cable. after that please check if the image works fine.