

# Install Manual

## (QVI-LVTX(1CH)-TomTom)

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Update Date	2014.04.25
Model	QVI-LVTX-1CH-V7.1
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. Specification

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## 1.1 Main Specification

### 1. Car Compatibility

- Renault Model  
: Master, Trafic, Scenic, Laguna, Megane, Clio
- Opel Model  
: Movano, Vivaro

### 2. Components

Multimedia Interface \* 1

Sub-board \* 1

### 3. MULTIMEDIA INTERFACE input specification

3 \* A/V (NTST&PAL) Input

1 \* CVBS(Rear Camera) Input

2 \* Analog RGB

1 \* LCD input (Car system input)

### 4. MULTIMEDIA INTERFACE output specification

1 \* LCD output

1 \* Audio output

2 \* CVBS output

### 5. Power specification

Input power : 9VDC ~ 16VDC

Consumed power : 4WATT (Max)

### 6. Switch modes

- Input video skip function : able to select whether to use the respective input video sources or not via DIP switch.
- Able to change input modes via the remote control.
- Able to switch modes via the Toggle switch.

# 1. Specification

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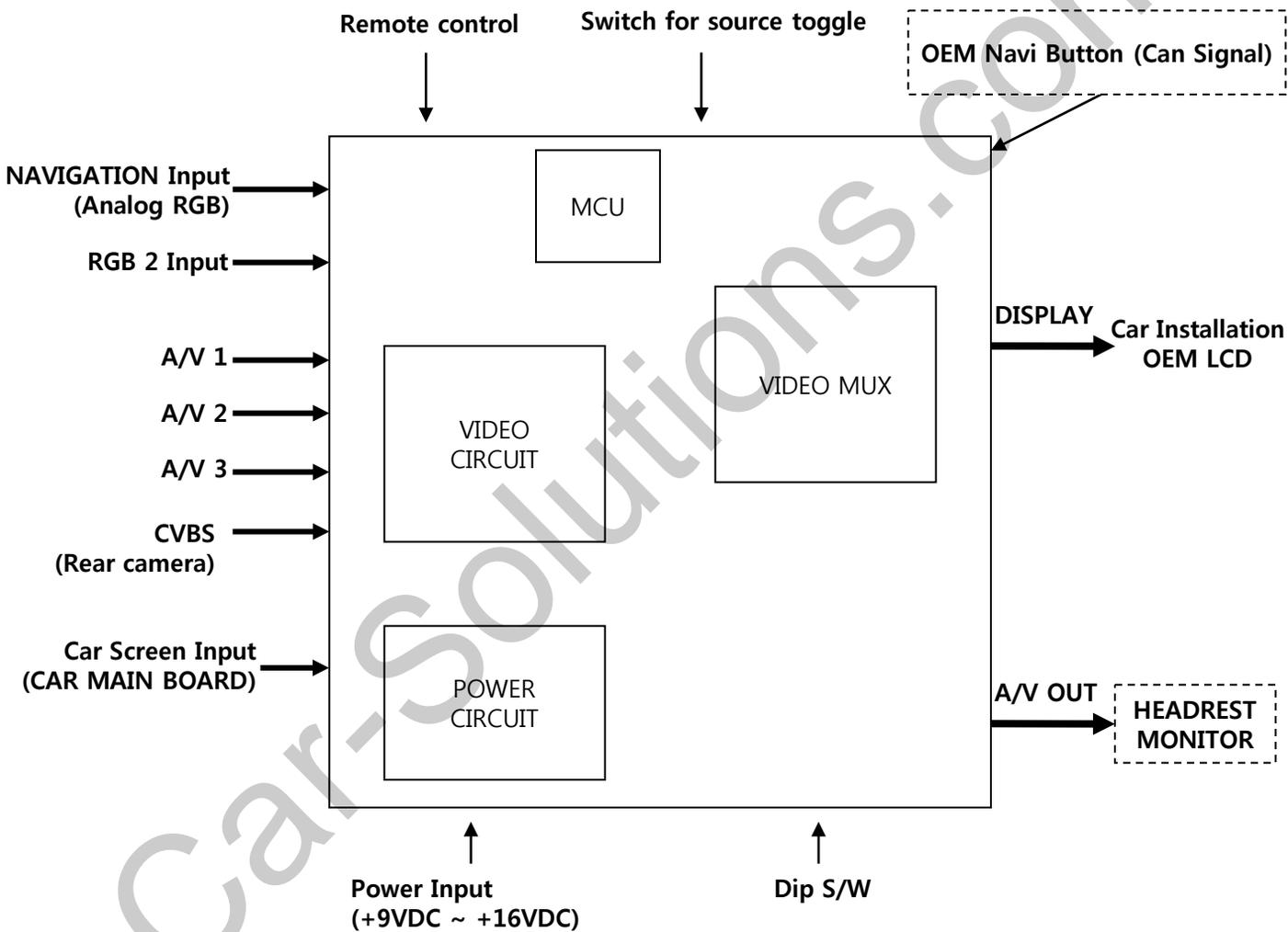
## 1.2 Features

- Possible to move the displayed position of DVD and Navigation.
- Improved Display Screen (convenience-oriented Interfaces for users)
- Add a safe function (show the main screen while driving)

Car-Solutions.com

# 1. Specification

## 1.3 System diagram



# 1. Specification

## 1.4 Components



FFC cable\*1ea  
(FFCBAL0044)

FFC cable\* 1ea  
(FFCBAL0045)



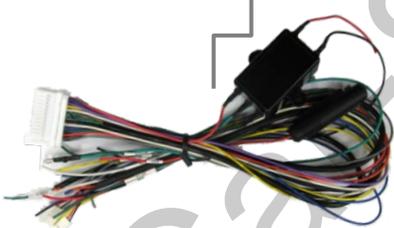
FFC cable\* 1ea  
(SCREWS0068)



LVDS cable \* 1ea  
(HLVDSC0018)



Sub-board \* 1ea  
(QCPASS0510)



POWER cable (24P) \* 1ea  
(HPOWER0011)



REAR CAMERA POWER cable \* 1ea  
(HARETC0002)



A/V cable \* 1ea  
(HAVCAB0002)



IR cable \* 1ea  
(HIRCAB0002)



MODE cable \* 1ea  
(HARETC0001)



RGB cable \* 1ea  
(HNAVIC0004)



REMOTE CONTROL \* 1ea  
(REMOTE0001)

# 1. Specification

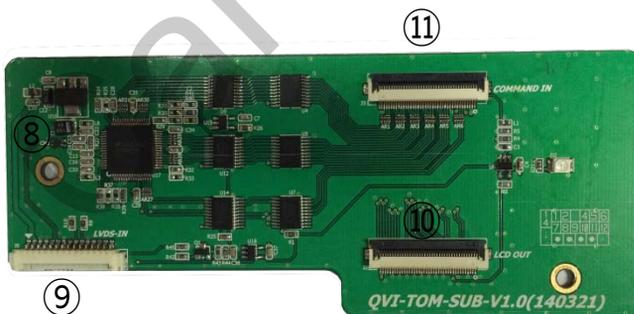
## 1.5 Exterior



### Dimension

Horizontal Length 125mm  
Vertical Length 105mm  
Height 21mm

- ① LED
- ② POWER
- ③ RGB IN-2
- ④ R-CAM
- ⑤ AV(IN/OUT)
- ⑥ DIP SWITCH
- ⑦ TOUCH OUT TO NAVI
- ⑧ LVDS OUT

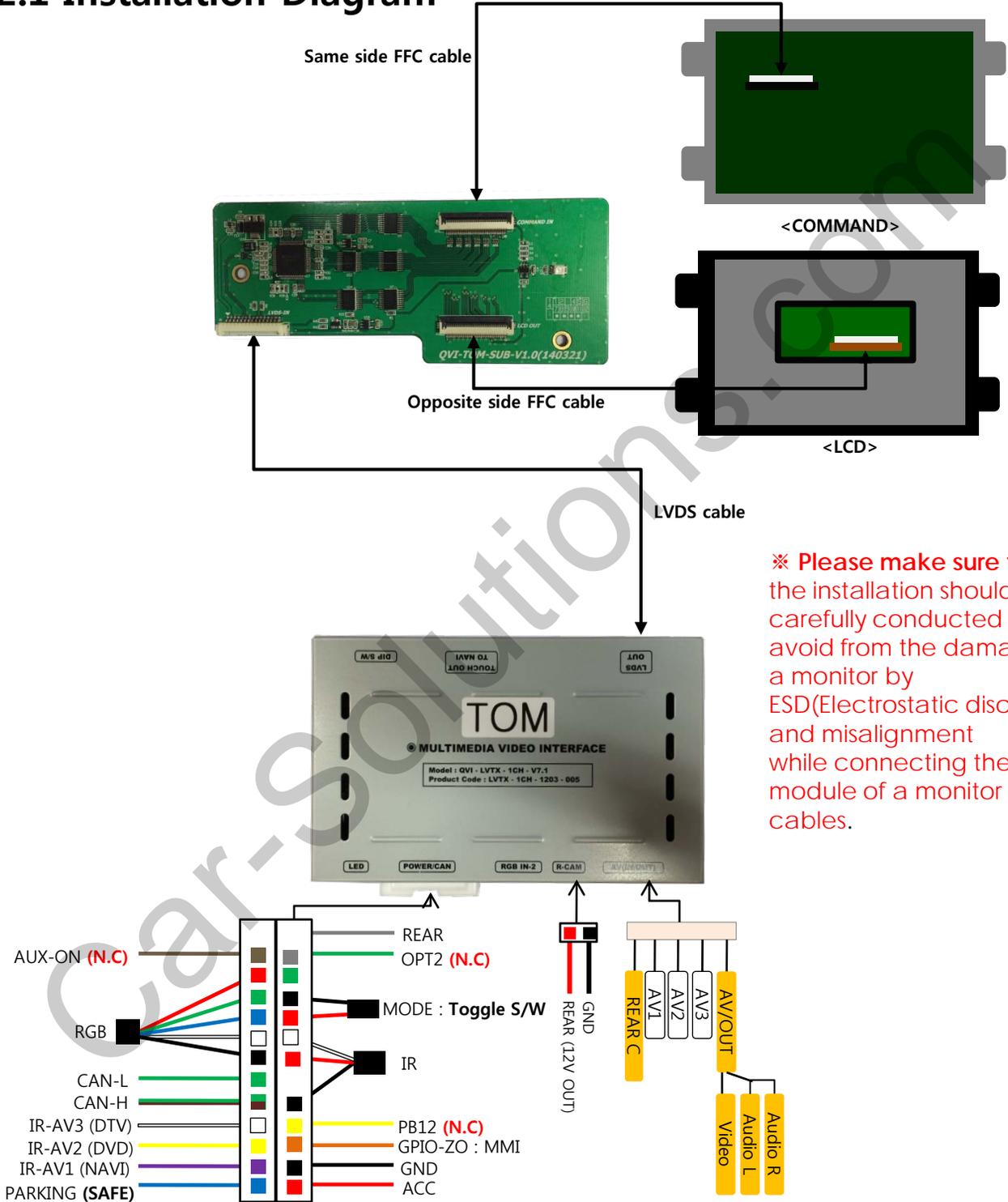


- ⑨ LVDS-IN
- ⑩ LCD OUT
- ⑪ COMMAND IN

- SUB BOARD -

# 2. Installation

## 2.1 Installation Diagram



※ Please make sure that the installation should be carefully conducted to avoid from the damage of a monitor by ESD(Electrostatic discharge) and misalignment while connecting the module of a monitor with cables.

# 2. Installation

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

# 2. Installation

## 2.3 Installation



① Please dismantle the monitor and LCD as above.

# 2. Installation

## 2.3 Installation



1. Disconnect a FPC cable connected between a command and a monitor.
2. Connect same sides FFC cable to the command.



3. Please connect opposite sides FFC cable to the LCD.

# 2. Installation

## 2.3 Installation



- ① Tape up the FFC cable connected to the command and turn over the FFC cable as above.

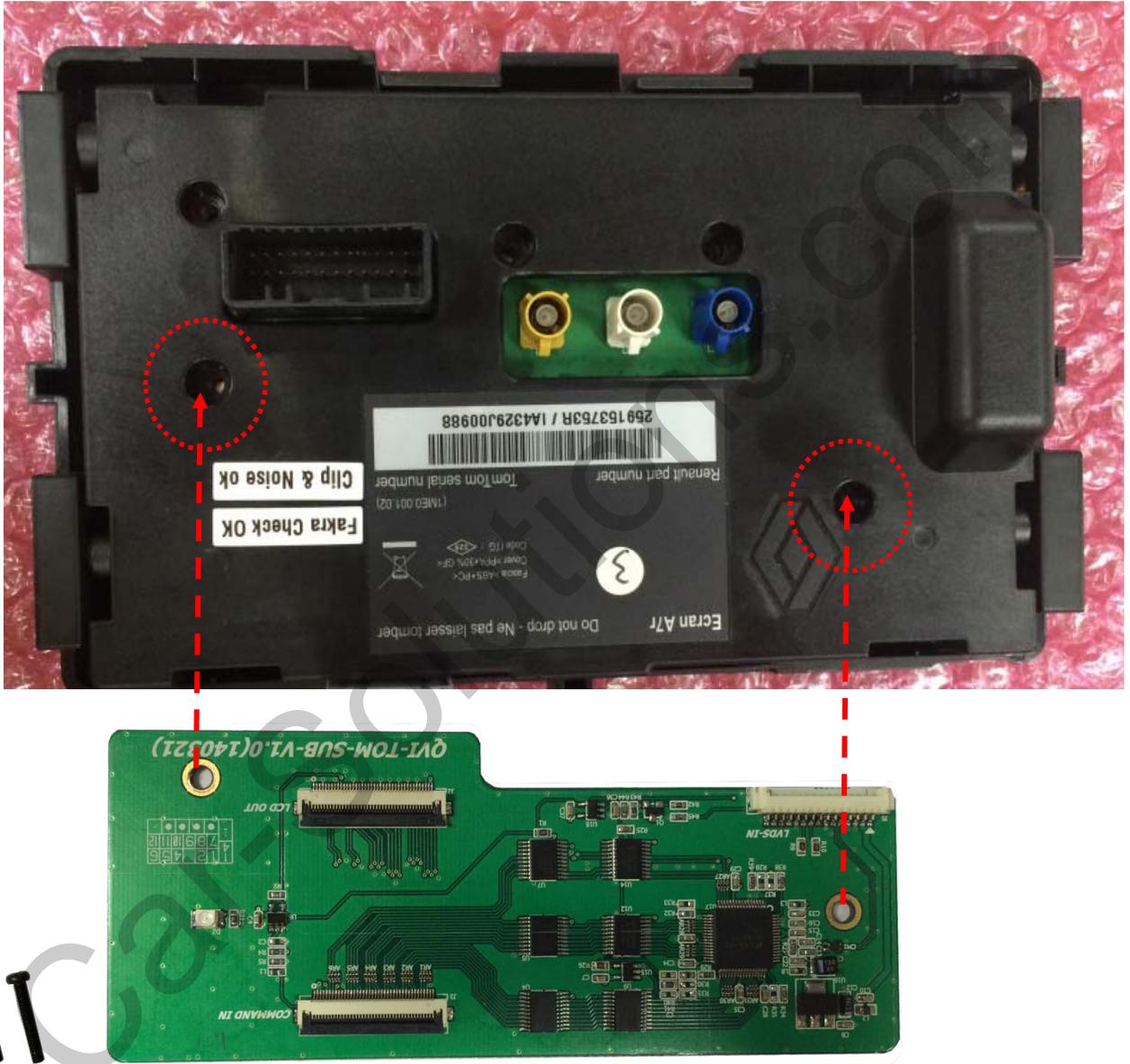


- ② Tape up the FFC cable connected to the LCD and turn over the FFC cable as above.



# 2. Installation

## 2.3 Installation



① Please screw up a provided sub-board as above.

# 3. Setting

## 3.1 DIP Switch



※ ON : DOWN / OFF : UP

※ DIP S/W usage example

- Input Mode : A/V3, Navigation (RGB)
- Select 5.8inch monitor
- When original Navigation is not installed
- Rear camera : When to be installed on CVBS 4

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

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		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. Setting

## 3.2 Remote Control

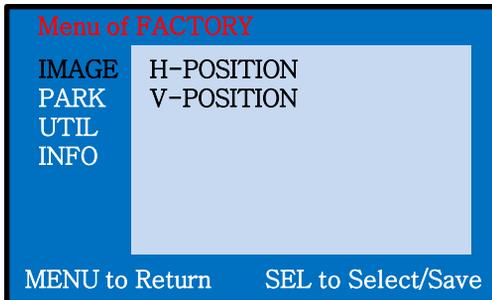


\*FACTORY MODE (Interface setting for **installer**)  
: Operated by pressing ▲ → ▼ → ▲ → MENU button or press ◀ more than 5seconds long on the remote control.

Key	Function
POWER & PIP	Unavailable
MENU	Activating OSD menu
OK	Making a selection, changing image display
▲	Moving upward
▼	Moving downward
◀	Moving leftward (If you press this button 5 seconds long, you can get access to the factory mode.)
▶	Moving rightward (If you press this button 2 seconds long, you can reset all the data about user environment.)

# 3. Setting

## 3.3.1 FACTORY MODE-IMAGE, PARK



### IMAGE

Adjusting the position of navigation

\* H-POSITION

: moving in horizontal direction

\* V-POSITION

: moving in vertical direction



### PARK

**PARK ENABLE** : Selecting Type of parking guide line(Default- ON)

**PARK SETUP** : Adjusting the position of the parking guide line

**REAR SELECT** : 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)

# 3. Setting

## 3.3.1 FACTORY MODE-IMAGE, PARK

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

In Factory Menu, Adjusting the position of the parking guide line (available in PARK SETUP -> V-POSITION, H-POSITION)

### □ H-POS



“H\_POS” will be shown on the right and control moving in horizontal direction

### □ V-POS

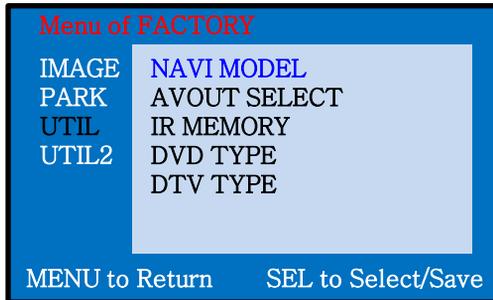


“V\_POS” will be shown on the right and control moving in vertical direction

# 3. Setting

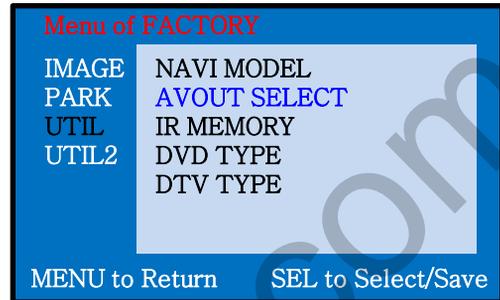
## 3.3.2 FACTORY MODE-UTIL

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



### UTIL – NAVI MODEL

Select the model of NAVIGATION

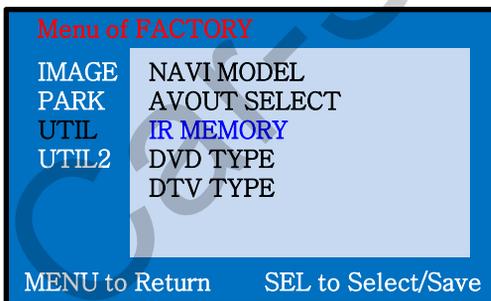


### UTIL – AVOUT SELECT

Selecting background sound After returning navigation or original mode

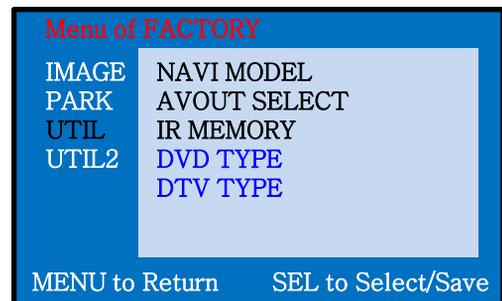
DEFAULT : Selecting AV sound just before changing navigation or original mode from the AV mode

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



### UTIL – IR MEMORY

No use



### UTIL – DVD TYPE / DTV TYPE

No use

# 3. Setting

## 3.3.2 FACTORY MODE-UTIL2

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



### UTIL2 – OEM SKIP

Setting up Skip of OEM mode while switching modes

ON : SKIP OEM mode  
OFF : Non-Skip OEM mode

### UTIL2 – HDMI SKIP

Setting up Skip of HDMI mode while switching modes

ON : Skip HDMI mode  
OFF : Non-Skip HDMI Mode



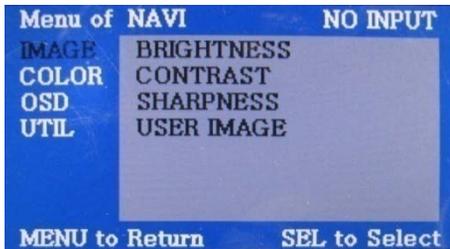
### UTIL2 – FACTORY RESET

Reset factory set.

※ Long press ▶ button

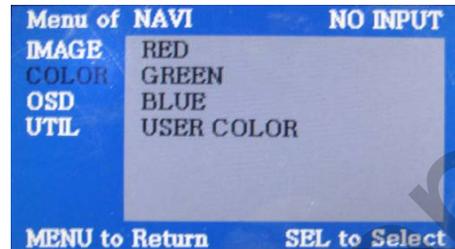
# 3. Setting

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



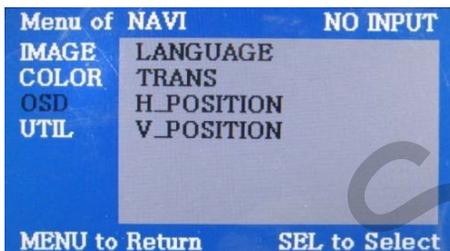
### □ IMAGE

- \* BRIGHTNESS
  - \* CONTRAST
  - \* SHARPNESS
  - \* USER IMAGE
- : Selecting one among 4 color options.



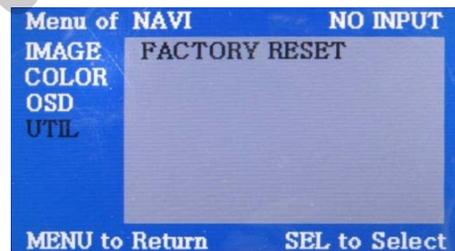
### □ COLOR

- \* RED : Adjusting red
  - \* GREEN : Adjusting green
  - \* BLUE : Adjusting blue
  - \* USER COLOR
- : Selecting a color option among set color options



### □ OSD

- \* LANGUAGE : Choosing interface language while changing mode between A/V and DVD
- \* TRANS : Adjusting transparency of OSD
- \* H\_POSITION, V\_POSITION : Positioning OSD menu



### □ UTIL

- \* FACTORY RESET : Resetting all the data about the relevant mode that applicable to navigation, DVD mode respectively.  
(Impossible to reset of screen position, only available for color, OSD setting)

# 3. Setting

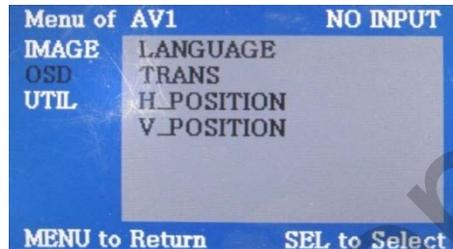
## 3.4.2 OSD (On Screen Display) / Video Mode



### □ IMAGE

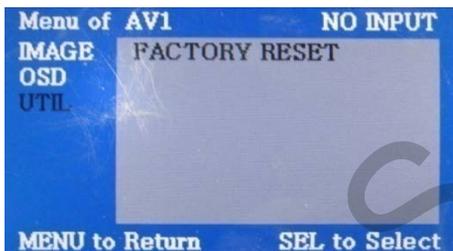
- \* BRIGHTNESS
- \* CONTRAST
- \* SATURATION
- \* HUE
- \* SHARPNESS
- \* USER IMAGE

: Selecting one among 4 color options.



### □ OSD

- \* LANGUAGE : Choosing interface language while changing mode between A/V and DVD
- \* TRANS : Adjusting transparency of OSD
- \* H-POSITION : moving in horizontal direction
- \* V-POSITION : moving in vertical direction



### □ UTIL

- \* FACTORY RESET : Resetting all the data about the relevant mode that applicable to navigation, DVD mode respectively.

(Impossible to reset of screen position, only available for color, OSD setting)

# 4. Trouble Shooting

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Q. I can not switch A/V sources

A. Check IR or Ground cable connection. Check LED lamps in the interface, if it is not on, check 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 dim or not suitable color)

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

Q. I can watch the rear camera on the screen

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

Q. Unwanted A/V mode is displayed. (A/V source switching order : OEM->RGB->AV1->AV2->AV3)

A. Check DIP Switch Setting.

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. After setting PIP function, I got only half OEM image at the right in the screen.

A. This is not an error, just caused by user's setting mistake, user should set to "Split Screen" in the OEM menu.

Q. Rear CAM does not appear, when car is in reverse after CAN wiring.

A. Operate "FACTORY MODE" like left picture, then select "UTIL → Rear Select" If it is set as "LAMP", change it to "CAN" by remote or keypad.

※ LAMP : In case of connecting "Rear-C" wire of Power Cable to Rear Lamp in vehicle.

CAN : In case of detecting Rear Cam thru CAN signal. (CAN must be wired)

Q. After moving gear to "P" or "D" from "Reverse", I can't get navigation, but half PDC Image in the screen.

A. Once, you starts driving, the screen displays navigation right away, this is not an system error.