

Last updated : 2012.09.12

MODEL : QVI-LVIX-1CH-V7 / Product code : LVIX-1CH-1201-003

# Video Interface for Maserati User Manual

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# 1.1 Main specification

1. Compatible with car  
Maserati Gran Turismo 2008~

2. Product composition  
Multimedia Interface \* 1ea  
Sub-board \* 1ea

3. MULTIMEDIA INTERFACE input spec.  
3 \* A/V (NTST&PAL) input  
1 \* CVBS (rear camera) input. (rear camera source)  
1 \* Analog RGB  
1 \* LCD input (car system input)

4. MULTIMEDIA INTERFACE output spec.  
1 \* LCD output(LCD Operation)  
1 \* Audio OUTPUT  
2 \* CVBS OUTPUT(Video Out for installing Headrest monitor)

5. POWER spec.  
Input power : 8VDC ~ 16VDC  
Consumption power : 4WATT (in maximum level)

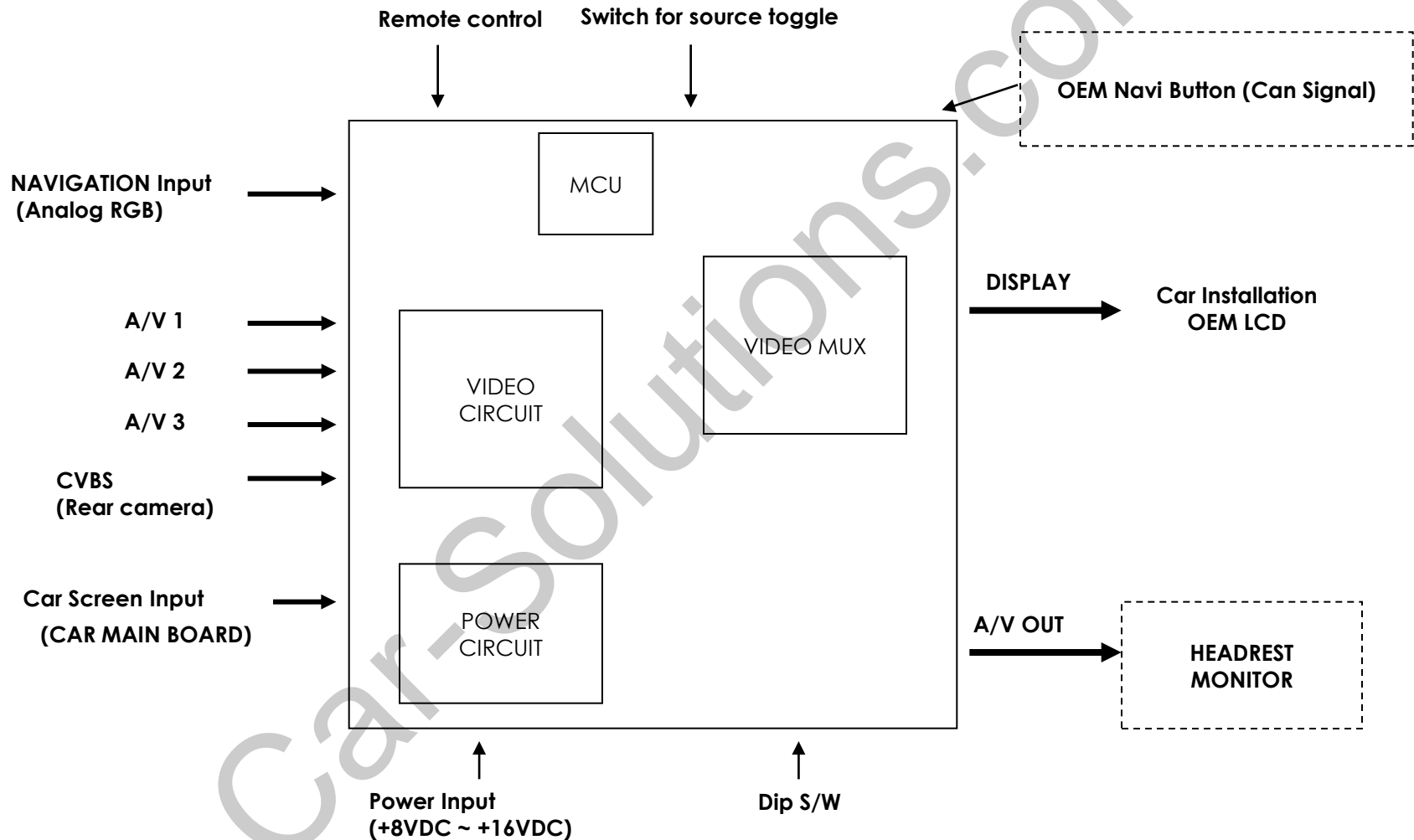
6. Switch input mode

- 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.
- Able to switch modes via Original button of the car through CAN.

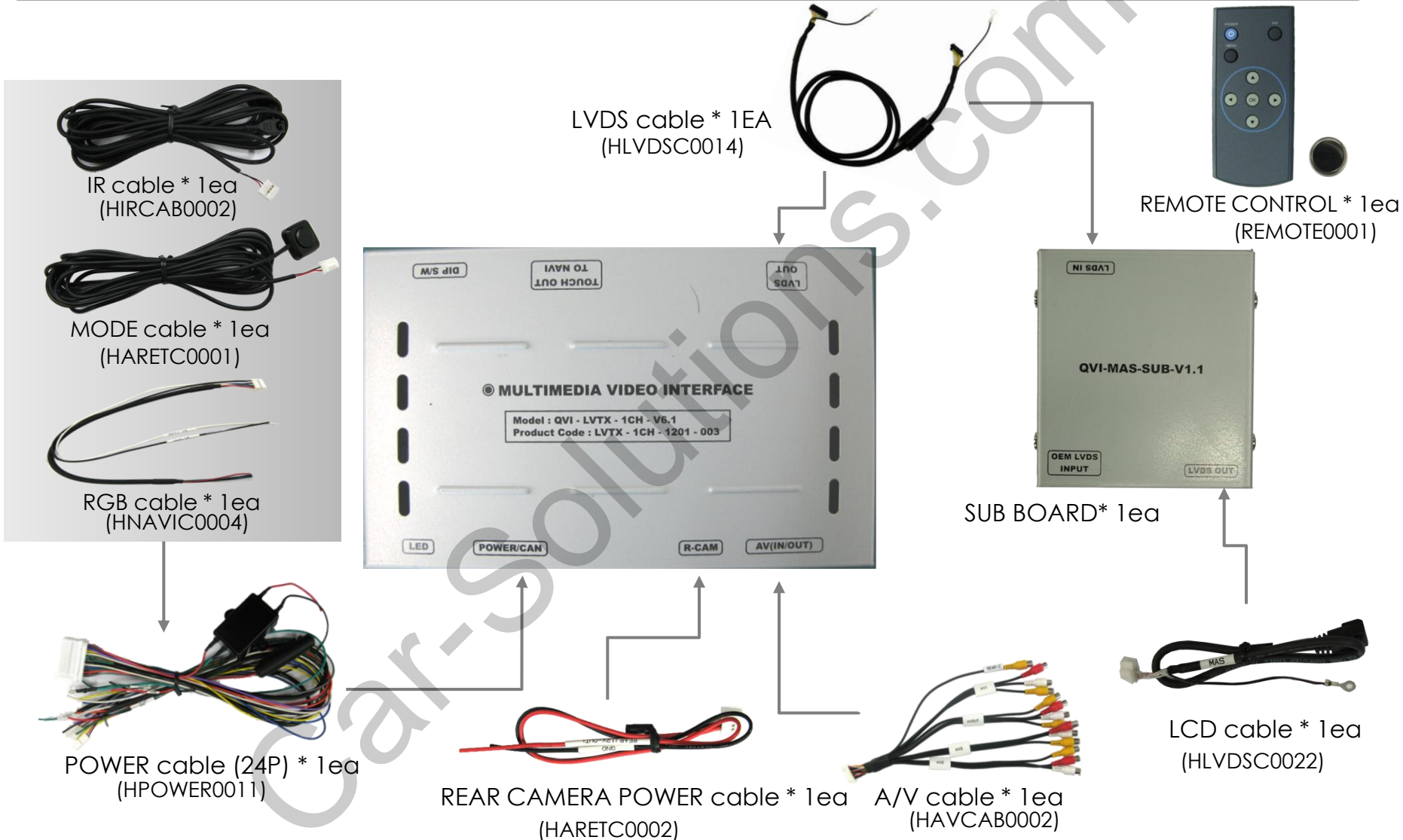
## 1.2 Features

- Controllable displayed position of each external video sources on RGB, A/V modes.
- Possible to move the displayed position of DVD, Navigation.
- Improved Display Screen (convenience-oriented Interfaces for users)
- Add a safe function (show the main screen while driving)
- Able to switch videos and select DTV channel via the original buttons

# 1.3 System diagram

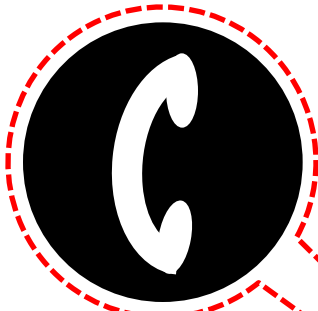


# 1.4 Components



# 1.6 Original buttons in car

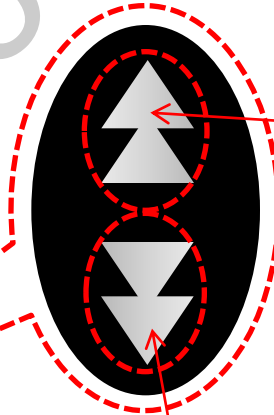
After Connecting original can wire in car with offered can wire, user can use original button



## Mode switching

Press long : Switching mode

Press short : go to original mode directly



DTV Channel UP

DTV Channel DOWN

# 2.1 DIP switch

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

※ ON : DOWN / OFF : UP

※ DIP S/W usage example

- Input Mode : A/V3, Navigation (RGB)
- 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 : 5,6 → OFF
- ▷ DIP S/W : 7 → ON (Displaying CVBS4)
- ▷ DIP S/W : 8 → OFF





## 2.2 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.)



\*FACTORY MODE (Interface setting for **installer**)

: Operated by pressing ▲ → ▼ → ▲ → MENU button or press ◀ more than 5seconds long on the remote control.

# 2.3.1 OSD (on screen display)

## Analog RGB Mode

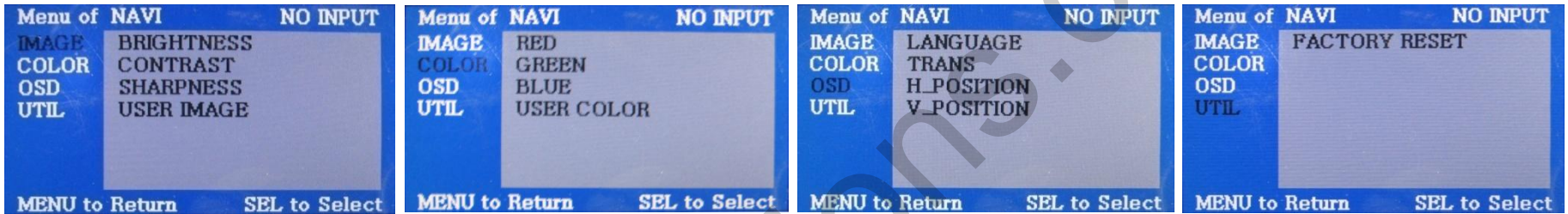
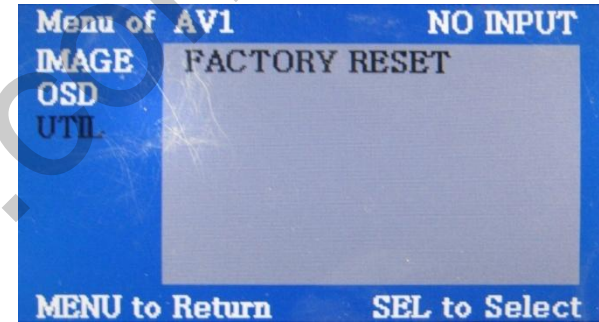
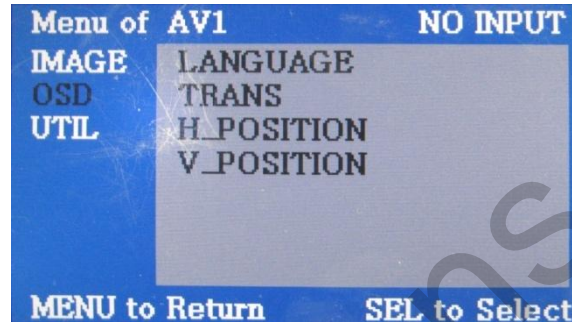
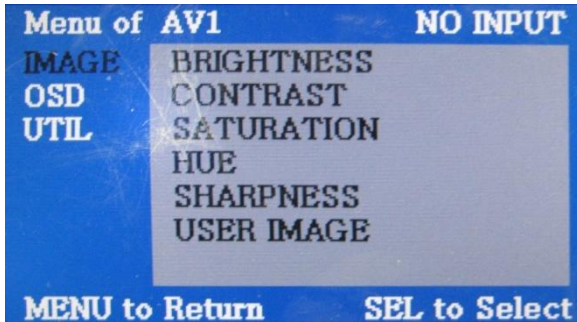


IMAGE	COLOR	OSD	UTIL
* BRIGHTNESS	* RED : Adjusting red	* LANGUAGE :Choosing OSD language while using Touch OSD (English, Chinese only)	* FACTORY RESET : OSD MENU RESET
* CONTRAST	* GREEN : Adjusting green	* TRANS : Adjusting transparency of OSD	
* SHARPNESS	* BLUE : Adjusting blue	* H_POSITION, V_POSITION : Positioning OSD menu	
* USER IMAGE : Selecting one among 4 color options.	* USER COLOR : Selecting a color option among set color options		

## 2.3.2 OSD (on screen display)

### Video mode



#### IMAGE

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

#### OSD

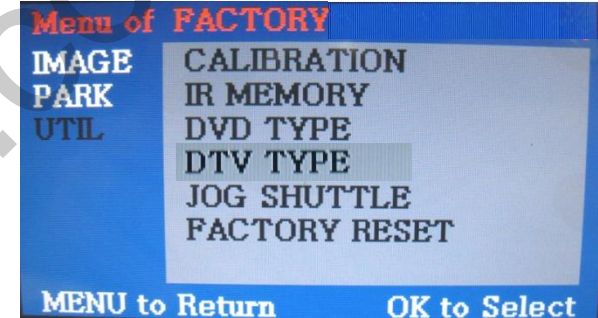
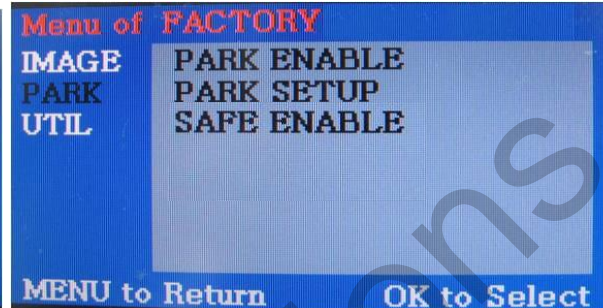
- \* LANGUAGE : Choosing OSD language while using Touch OSD (English, Chinese only)
- \* TRANS : Adjusting transparency of OSD
- \* H-POSITION  
: moving in horizontal direction
- \* V-POSITION  
: moving in vertical direction

#### UTIL

- \* FACTORY RESET : OSD MENU RESET

# 2.4 Factory mode

FACTORY mode – Press ◀ button 5 seconds long on the remote control.



## IMAGE

Adjusting the position of navigation

- \* H-POSITION : moving in horizontal direction
- \* V-POSITION : moving in vertical direction
- \* NAVI MODEL : Do not use
- \* AVOUT SELECT : DEFAULT, AV1, AV2, AV3

## PARK

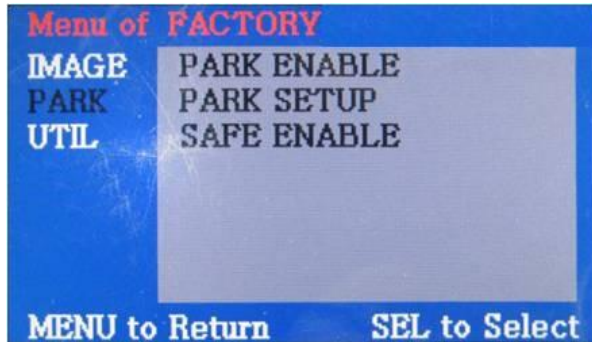
- \* PARK ENABLE : Setup of rear view parking guide line
- \* PARK SETUP : Control over position of rear view parking guide line
- \* SAFE ENABLE : To select whether to use SAFE function (NOT to allow watch video while driving) or not

## UTIL

- \* CALIBRATION : Do not use
- \* IR MEMORY : Do not use
- \* DVD TYPE : Setup for the type of DVD
- \* DTV TYPE : Setup for the type of DTV
- \* JOG SUTTLE : Do not use
- \* FACTORY RESET : To reset all the value in factory mode

# 2.5 Parking guide line setting

FACTORY mode – Press ◀ button 5 seconds long on the remote control.



## PARK

- \* PARK ENABLE : Selecting whether to display the parking guide line or not on rear gear (default : OFF)
- \* PARK SETUP : Adjusting the position of the parking guide line (available in PARK SETUP -> V-POSITION, H-POSITION)
- \* SAFE ENABLE : In case of Connecting "Safe" wire from the power cable to the hand break,  
ENABLE – OEM Picture displays in Drive gear position  
DISABLE – No display locked in any gear position

## PARK - ENABLE

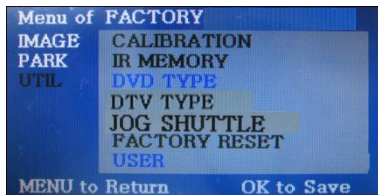
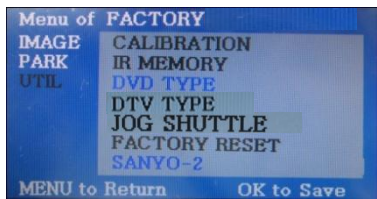
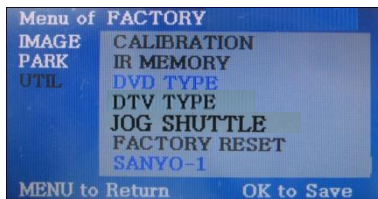
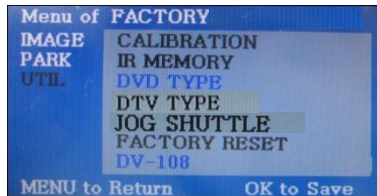
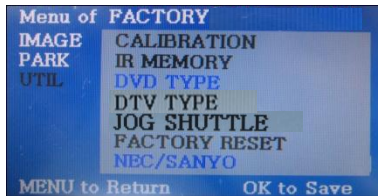
- A. If you set 'PARK ENABLE' as "ON" state, there will be the rear view parking guide line. (as shown left picture)
- B. Press the OK button of remote controller, "H\_POS" will be shown on the right and control moving in horizontal direction.

## PARK - ENABLE

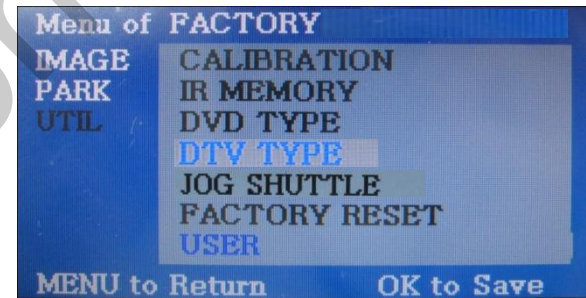
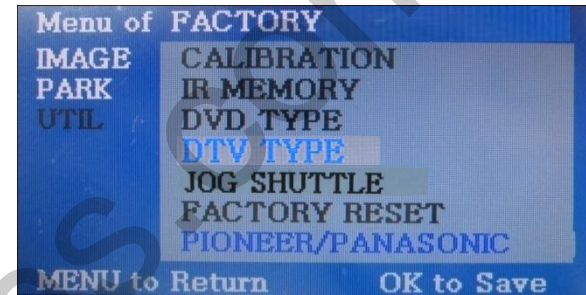
- A. Press the OK button of remote control one more, "V\_POS" will be shown on the right and control moving in vertical direction.



## 2.6 DVD, DTV model selection



DVD TYPE



DTV TYPE

### UTIL – DVD/DTV TYPE

If DVD/DTV type that you want to use is not NECVOX or SANYO, you have to register values of the remote controller that you want to use in the "IR MEMORY" section and set the "DVD TYPE"/"DTV TYPE" to "USER". Unless you do this process after saving the data, you can NOT control DVD/DTV via touch screen.

DVD TYPE : NEC/SANYO, DV-108, SANYO-1, SANYO-2, USER

DTV TYPE : PIONEER/PANASONIC, USER, CMMB

✳ If you enter data in "IR MEMORY" section in FACTORY mode, "DVD TYPE"/ "DTV TYPE" will **automatically** be saved to "USER".

# 3. Troubleshooting

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.