



# GVIF INTERFACE SPECIFICATION

— . MODEL:GVIF-323 LAND ROVER AND LEXUS



CAR-TV MULTIMEDIA CO., LTD.



# INDEX

---

- Updated points on this version
- Precaution
- Main Spec.
- System Composition
- Outline Dimension
- External Appearance
- Connector Pin Assignment
- DIP Switch Setting
- How to use OSD Keypad
- OSD (On Screen Display)
- FMTX Frequency Setting
- How to use parking guide line
- CAN Wiring
- Product Composition
- FAQ



## -Updated points on this version

---

- FMTX Module is added in the product. (No need additional FMTX Module for Audio)
- Offering OSD Key Pad  
(The remote control is not offered anymore)
- Changed OSD MENU



## -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)

- 3 x A/V Input (External video source).
- 1 x CVBS(REAR CAMERA) Input. (Rear camera source)
- 1 x Analog RGB Input (Navigation System output)
- 1 x LCD Input (Car system Input)
- 1 x GVIF Input

## 2. Output Spec.

- 1 x GVIF Output
- 1 x Audio Select (12V power comes out from 3 wires of cable by video mode)

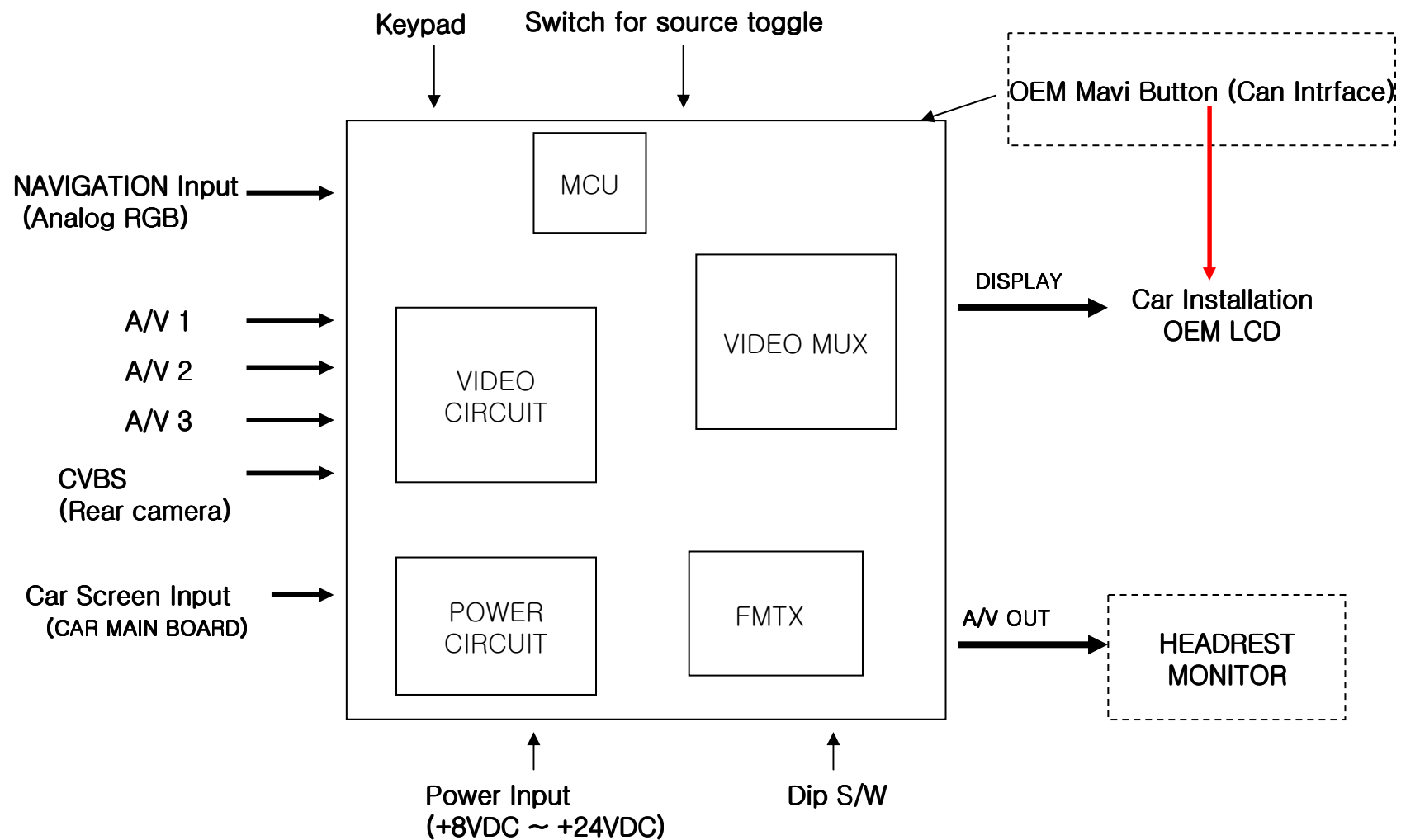
## 3. Power Spec.

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

## 4. Switch Input mode

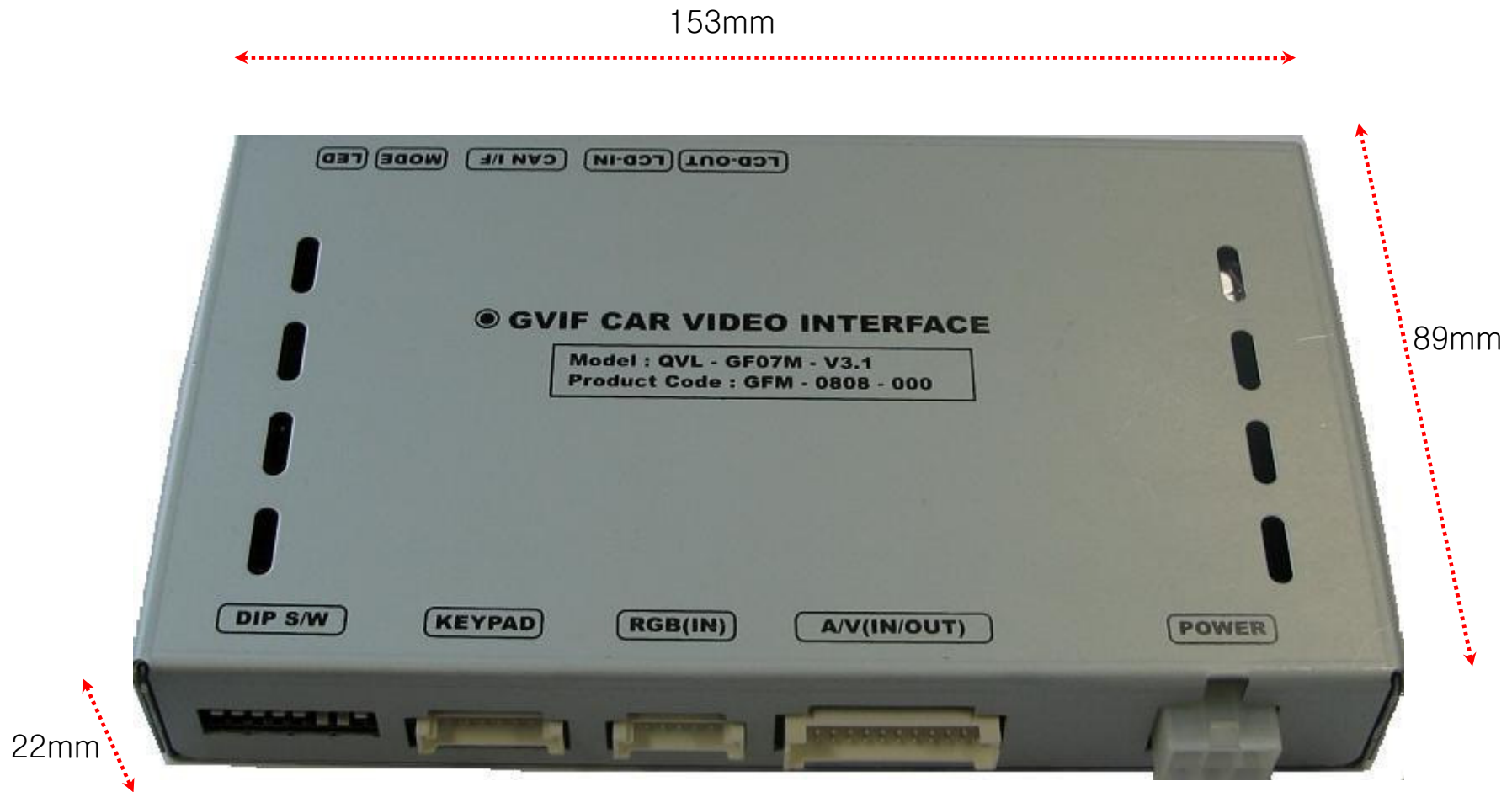
- Input Video MUTE Function : Possible to make each input mute by operating Dip S/W.
- Possible to switch Input mode with Keypad
- Possible to switch Input mode with switch for source toggle
- Possible to switch mode through CAN

# -System Composition

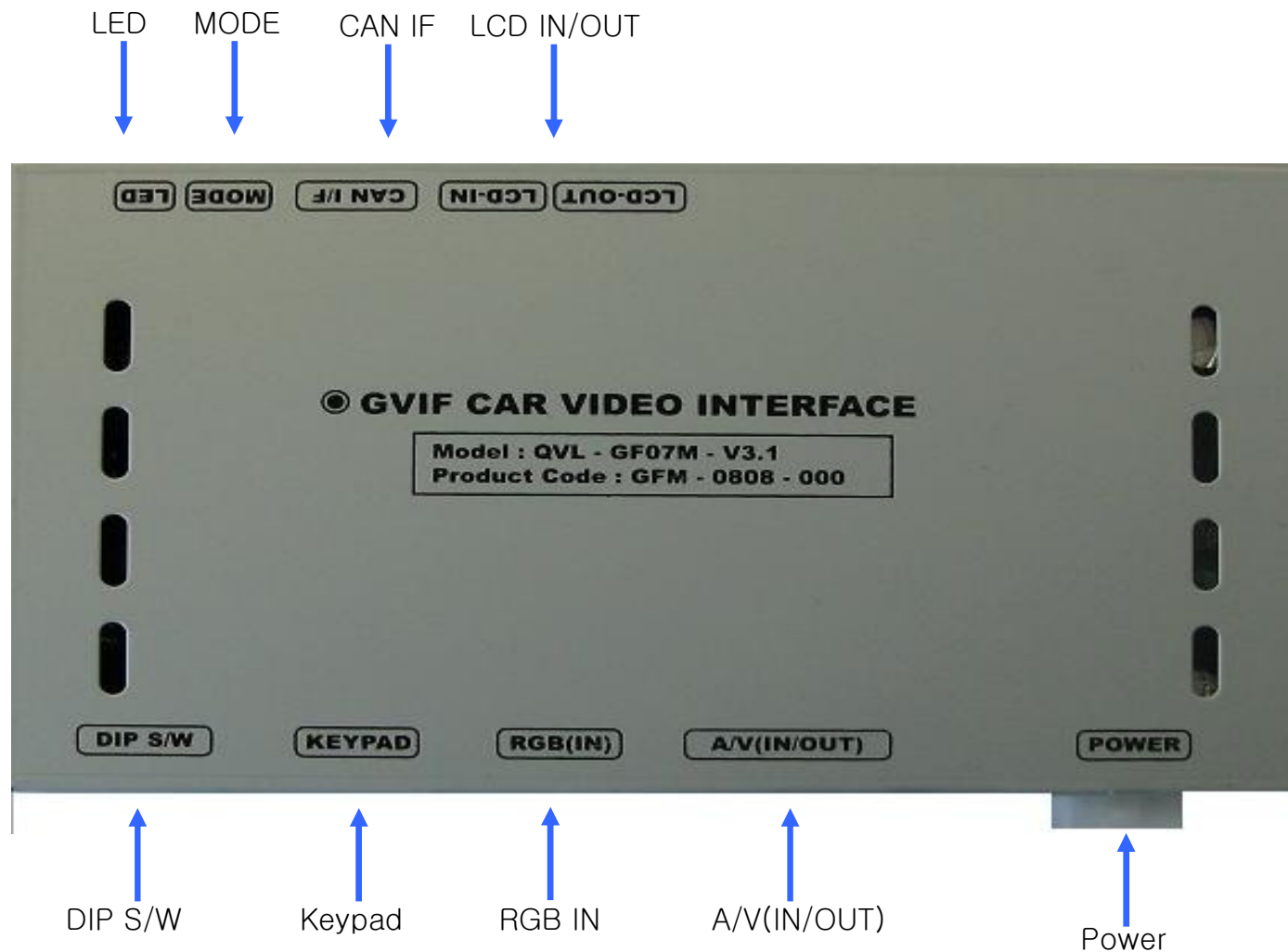


## -Outline Dimension

153mm \* 89mm \* 22mm



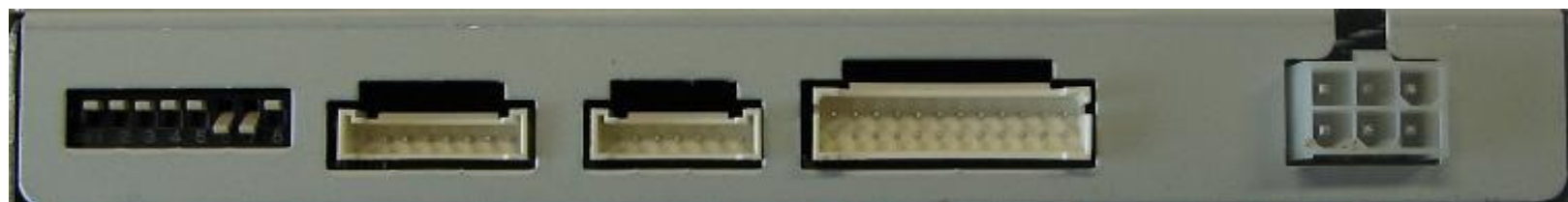
## -External Appearance



※ This can change under manufacturer's circumstance



# External Appearance



↑  
DIP S/W

↑  
Keypad

↑  
RGB (IN)

↑  
A/V(IN/OUT)

↑  
POWER



↑  
LCD-OUT

↑  
LCD-IN

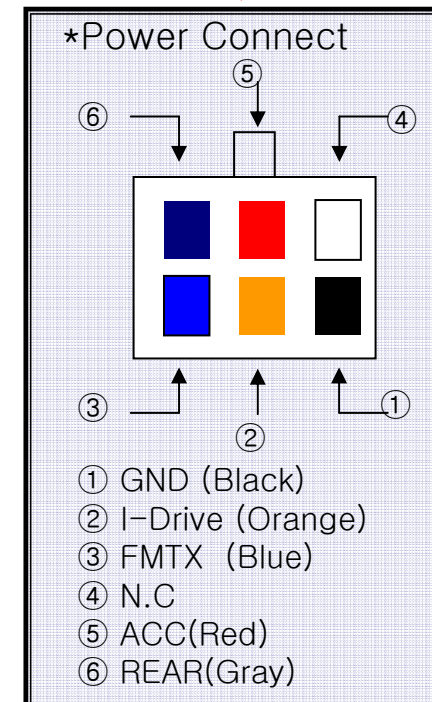
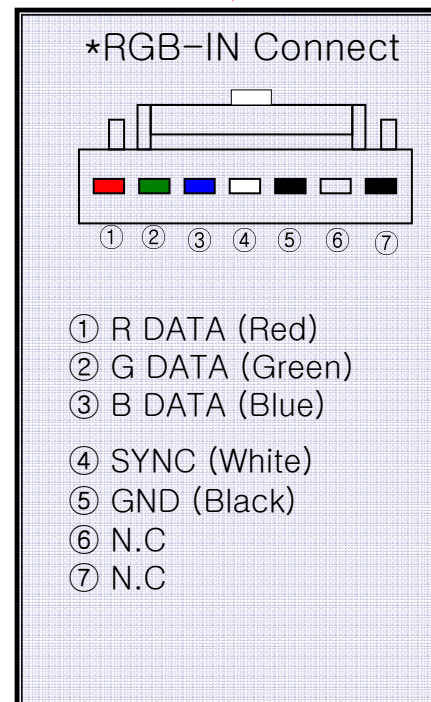
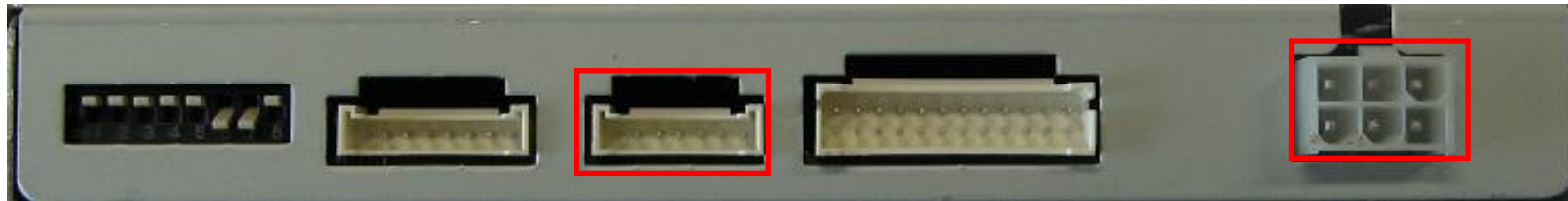
↑  
CAN I/F

↑  
MODE

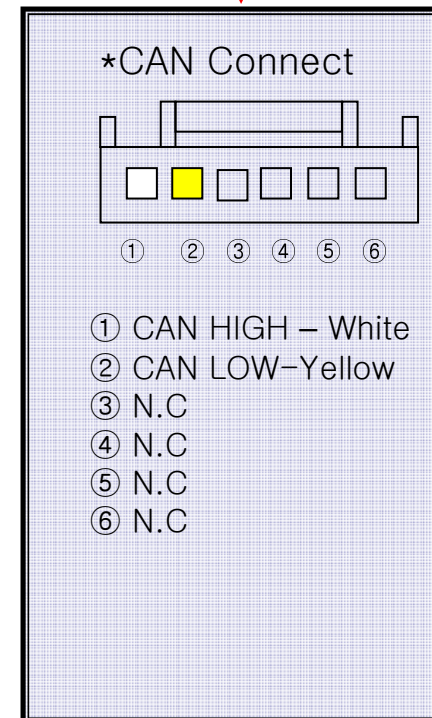
↑  
LED

※ This can change under manufacturer's circumstance

# -Connector Pin Assignment

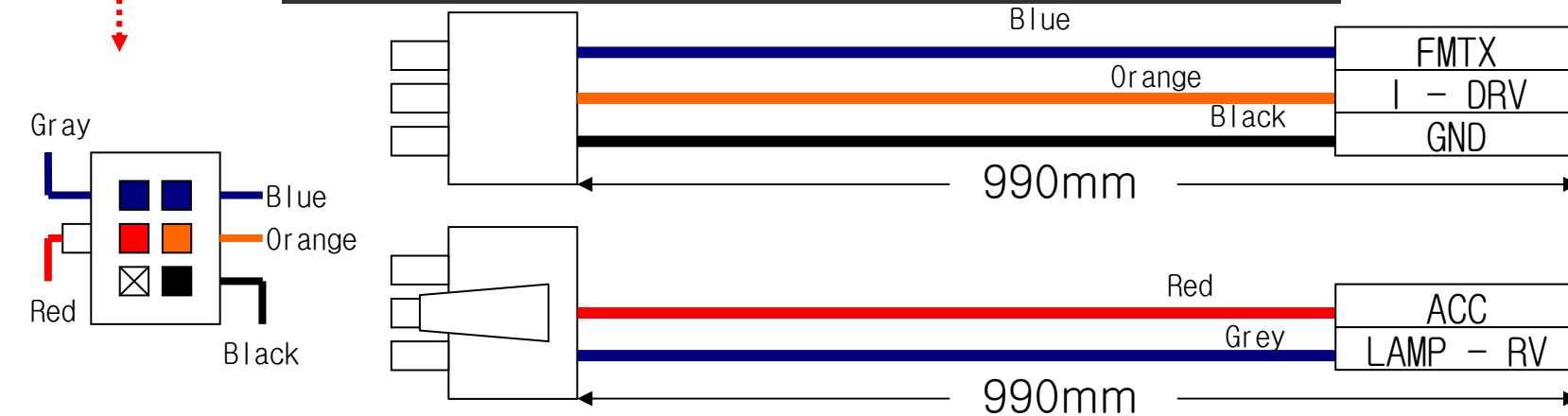
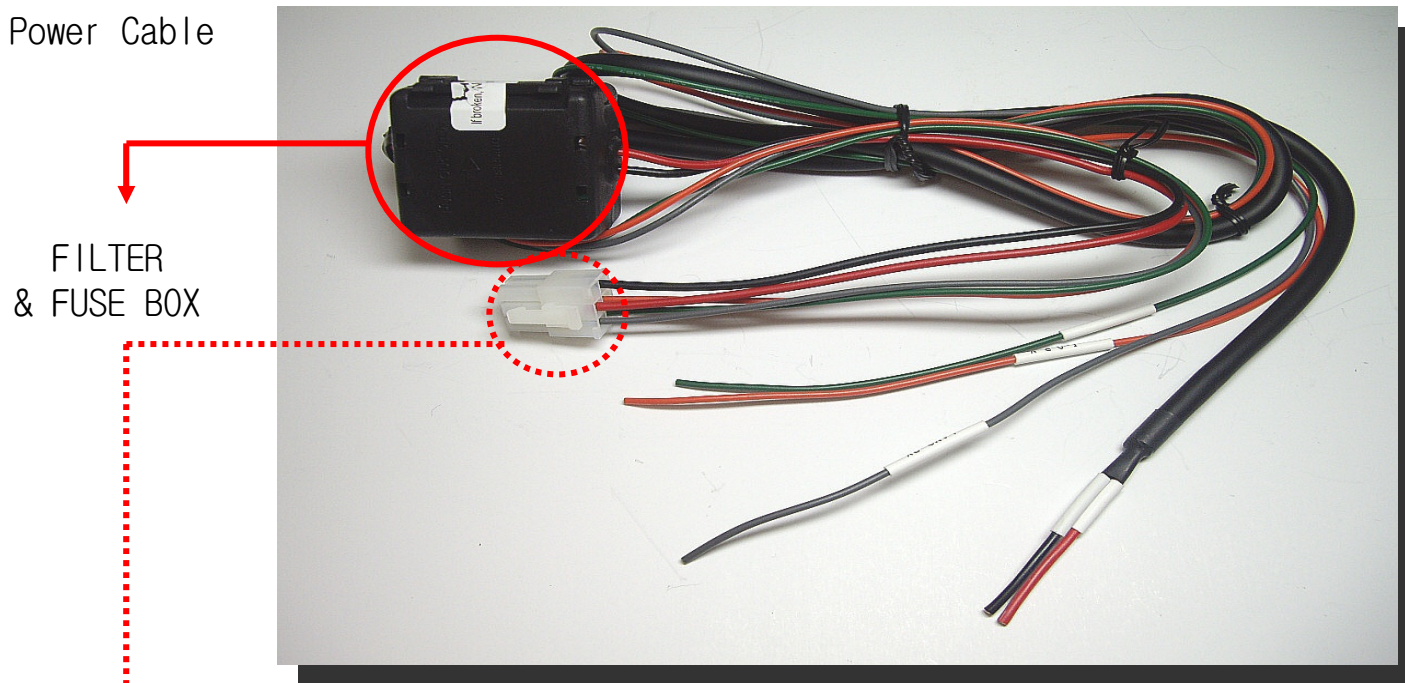


# Connector Pin Assignment



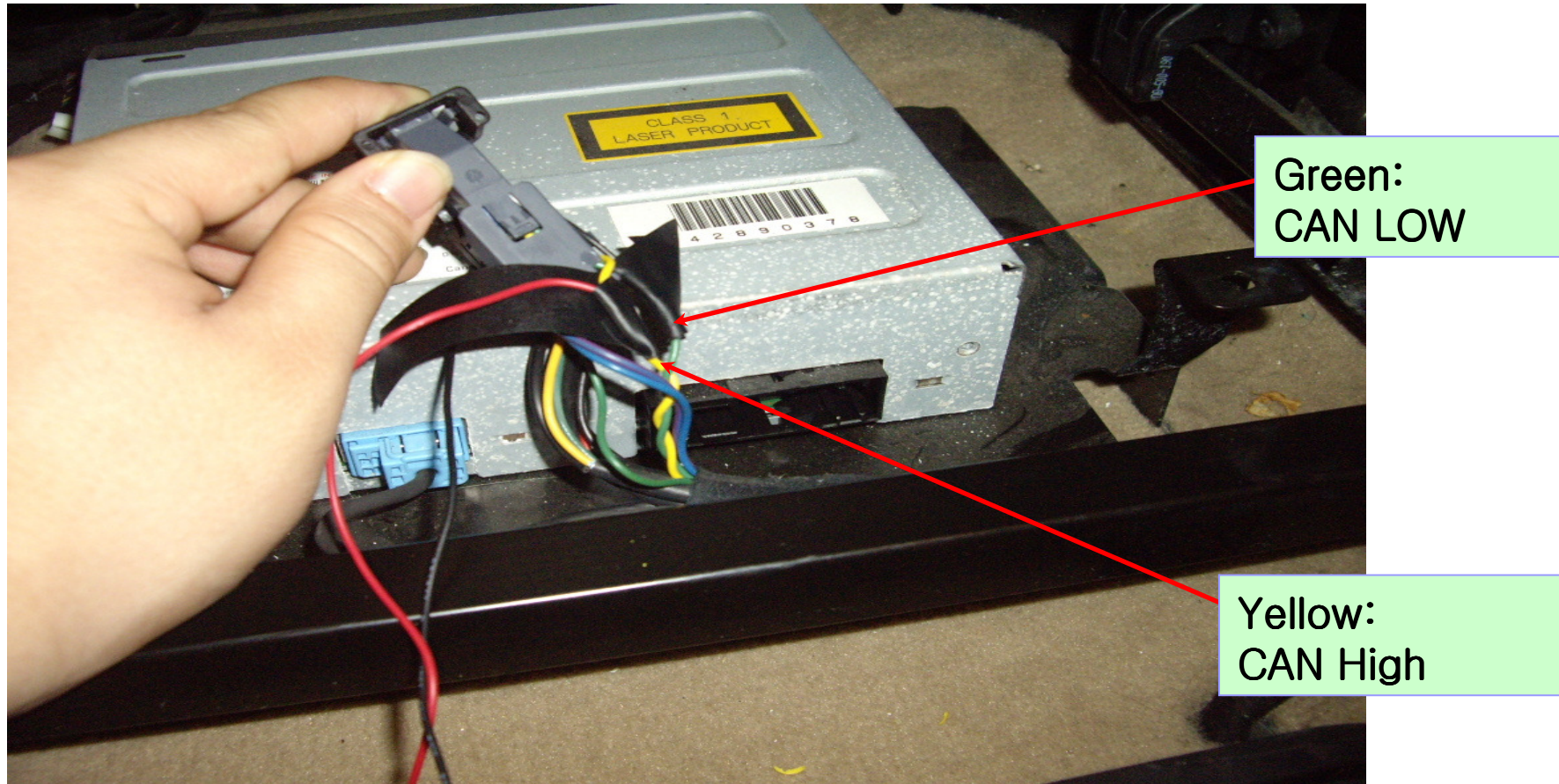
# Connector Pin Assignment

\* Power Cable





## -CAN Wiring



- \* The color of CAN wires coming from the car can be different by each countries that the car import or any other circumstances.

# -DIP SW

※ ON : DOWN, OFF : UP

#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	To select car model	ON : Lexus OFF : Land rover
6	To select original NAVI	ON : For using original NAVI OFF : Not use original NAVI
7	Rear Mode	ON : External Rear Camera OFF : OEM Rear Camera
8	N.C	

## ※DIP S/W Use Example

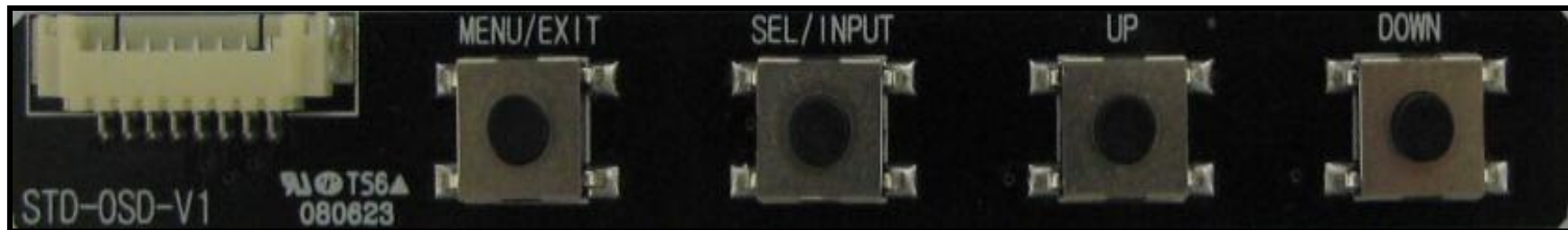
### [Land Rover]

- . Use Input Mode : MAIN + A/V 3
- . Rear Camera : When to be installed on CVBS 4

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

# -How to use OSD Keypad

---



**MENU** : OSD MENU, Going back to the last step of setting after mode setting

**SEL** : Select, Mode change

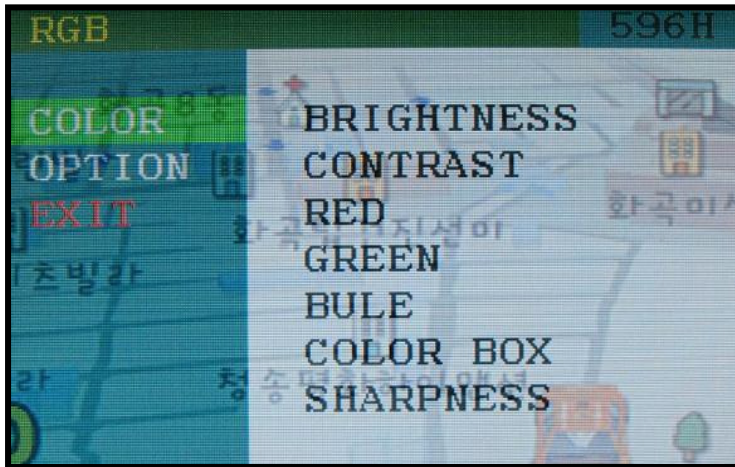
**UP** : Move to Left, Up

**DOWN** : Move to Right, Down

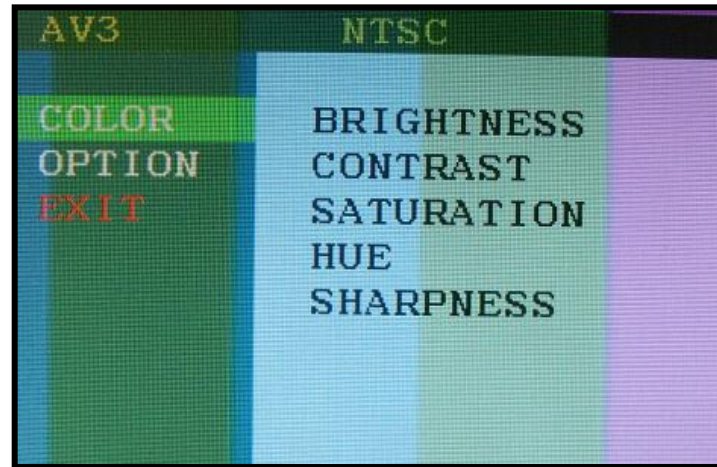
**\*FACTORY MODE** : Operated with pressing UP->DOWN->UP->MENU  
keys of the keypad in sequence.

# -OSD (On Screen Display)

## • Analog RGB Mode



## • Video Mode



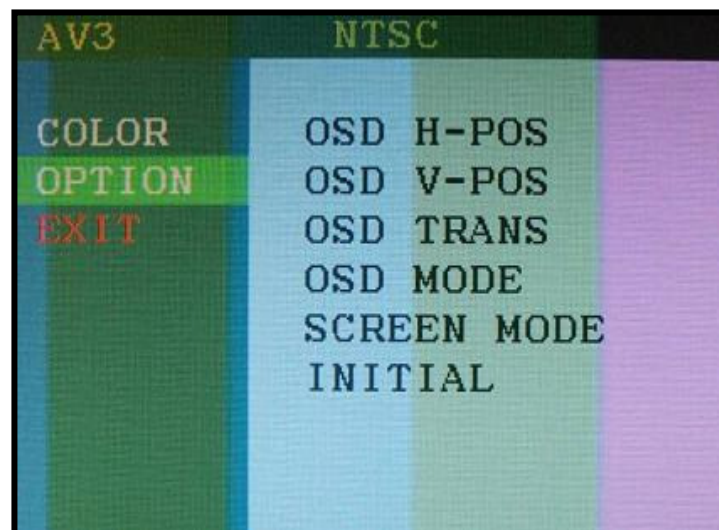
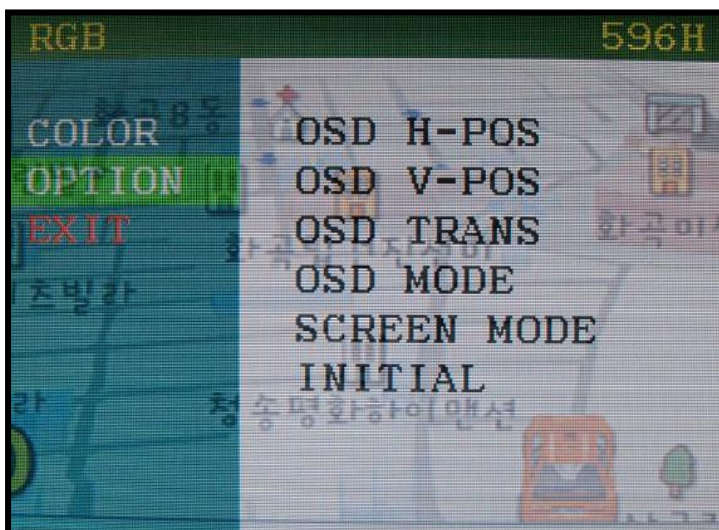
### COLOR Menu

- BRIGHTNESS
- CONTRAST
- RED, GREEN, BLUE
- HUE
- COLOR BOX
- SATURATION
- SHARPNESS



# OSD(On Screen Display)

- Analog RGB Mode
- Video Mode



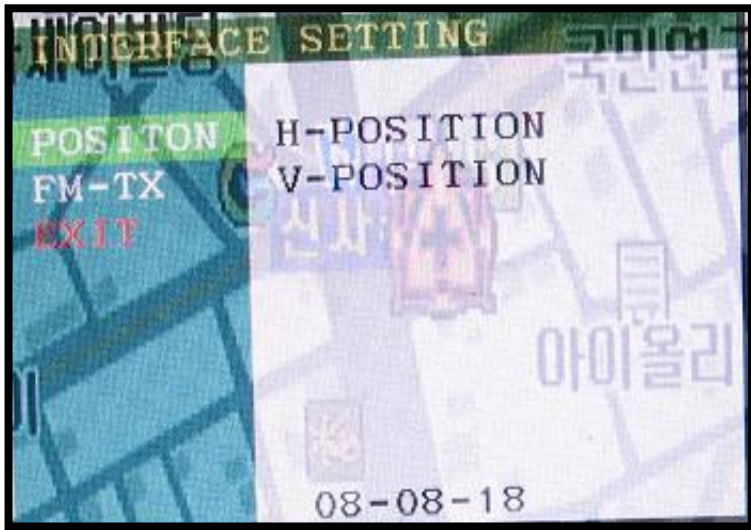
## OPTION Menu

- OSD H\_POS : Move of OSD window to Left, Right
- OSD V\_POS : : Move of OSD window to Up, Down
- OSD TRANS : OSD window transparency setting
- SCREEN MODE : Screen Rate setting (4:3, 16:9)
- INITIAL : Initializing OSD setting value

# OSD(On Screen Display)

## • Factory Mode(INTERFACE SETTING)

-Operated with pressing UP->DOWN->UP->MENU keys of the keypad sequentially.

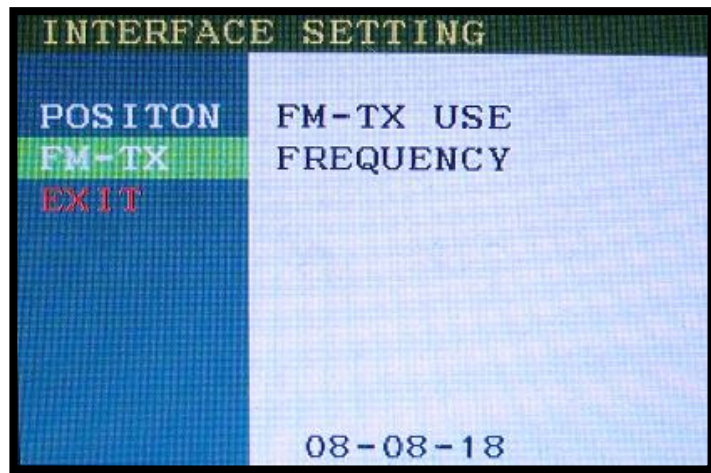


### Factory Mode (Interface setting)

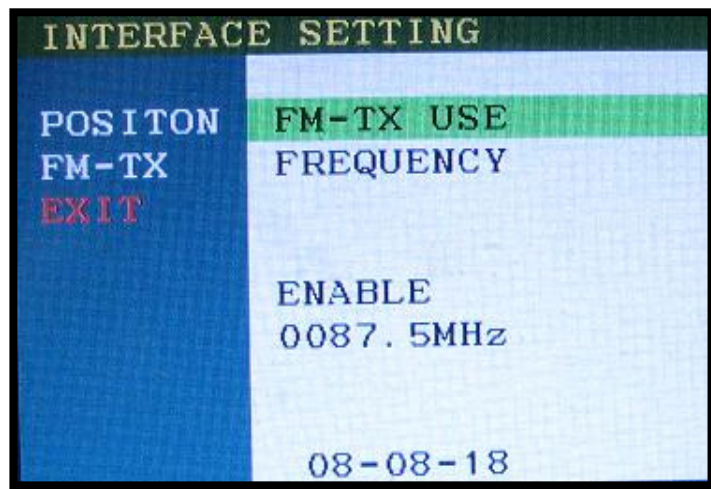
- **POSITION** - H-POSITION : Move of Screen to Left, Right (Only for RGB mode)
  - V-POSITION : Move of Screen to Up, Right (Only for RGB mode)
- **FM-TX** : Refer to the FMTX page

# -FMTX Frequency Setting

Factory Default : FMTX USE – ON, FREQUENCY – 87.5MHz



Get the Factory Mode Operated with pressing UP->DOWN->UP->MENU keys of the keypad sequentially



Set "FM-TX USE" to "ON" like the left picture.  
( 'ON' is Default). control the frequency by "UP" , "Down" keys. At the bottom, you can see present frequency and control it from 87.5MHZ to 108MHZ. (1MHZ per each time to press)

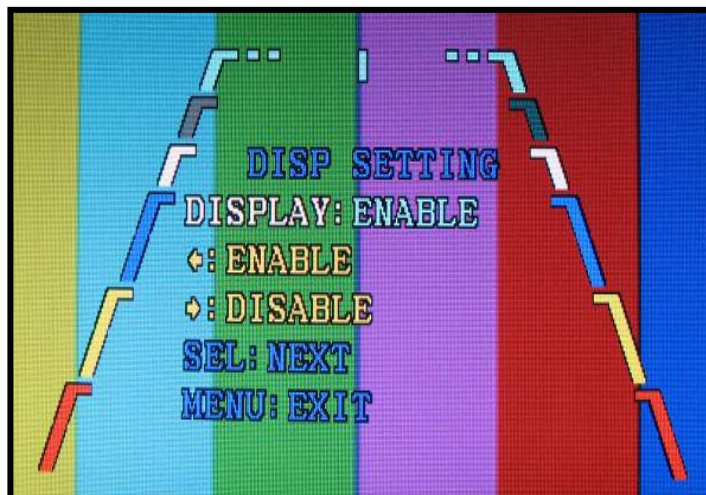
※If you do not want this function, kindly set "FM-TX USE" to "OFF"



# -How to use parking guide line

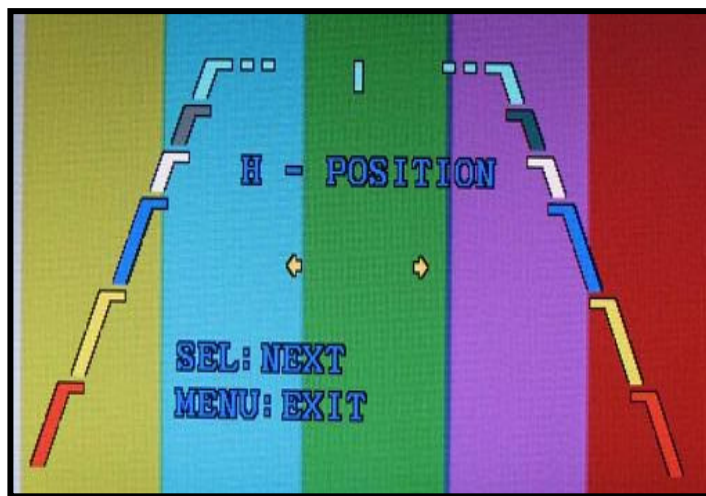
Factory Default : DISPLAY – DISABLE

①



① When the car is in reverse, if press 'UP' key for 2 sec, the guide line appears on the screen.

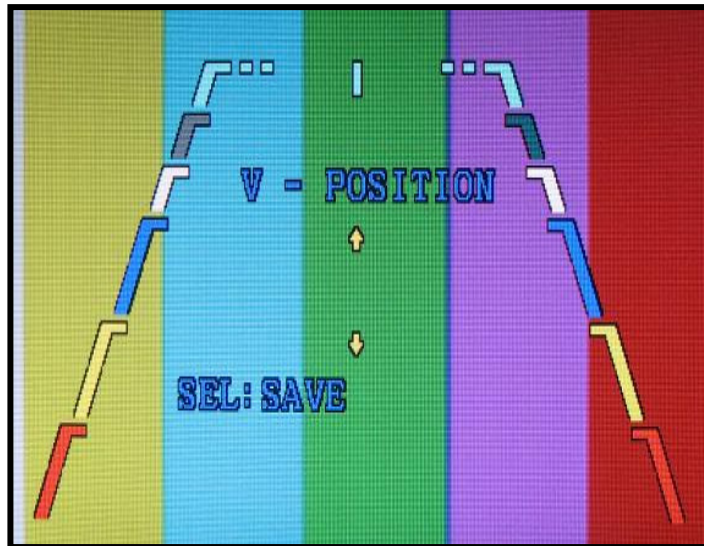
②



② If you need to move the line position, press 'SEL' key on the above step.  
(Use 'Up' , 'Down' Key of Keypad)

# How to use parking guide line

③



③ On step no.2, once press “SEL” key again, you can move the line vertically by “UP” , “Down” keys.



OSD Keypad : 1 EA  
1 EA

**LCD Out Cable: 1 EA**

**A/V Cable : 1 EA**

**Cable : 1 EA**

**Cable : 1 EA**

Табела 6/III - 4 ГА

**LCD In Cable : 1 EA**

**Power Cable:**

## Nav i

## Ground

**CAN Cable : 1 EA**

**CAR-TV**  
VIDEO & AUDIO



# -FAQ

---

1. When can not change mode.
  - Check if the Ground Cable (OSD Keypad) 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 select "Initial" on OSD menu, 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.