

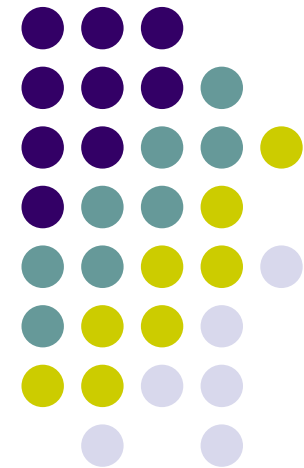
# BMW E65

## SPECIFICATION



–. MODEL: QVL-E65-V2

–. Product Code : BM-0807-652



# INDEX

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# Updated points on this version

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- 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)
- Possible to move the displayed position of Navi (Only on RGB mode)
- Changed OSD MENU

# Precaution

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- 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.

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## 1. Input Spec. (MULTI VIDEO INTERFACE)

- 1 x Analog R,G,B (Sync on Green)
- 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 Consumption

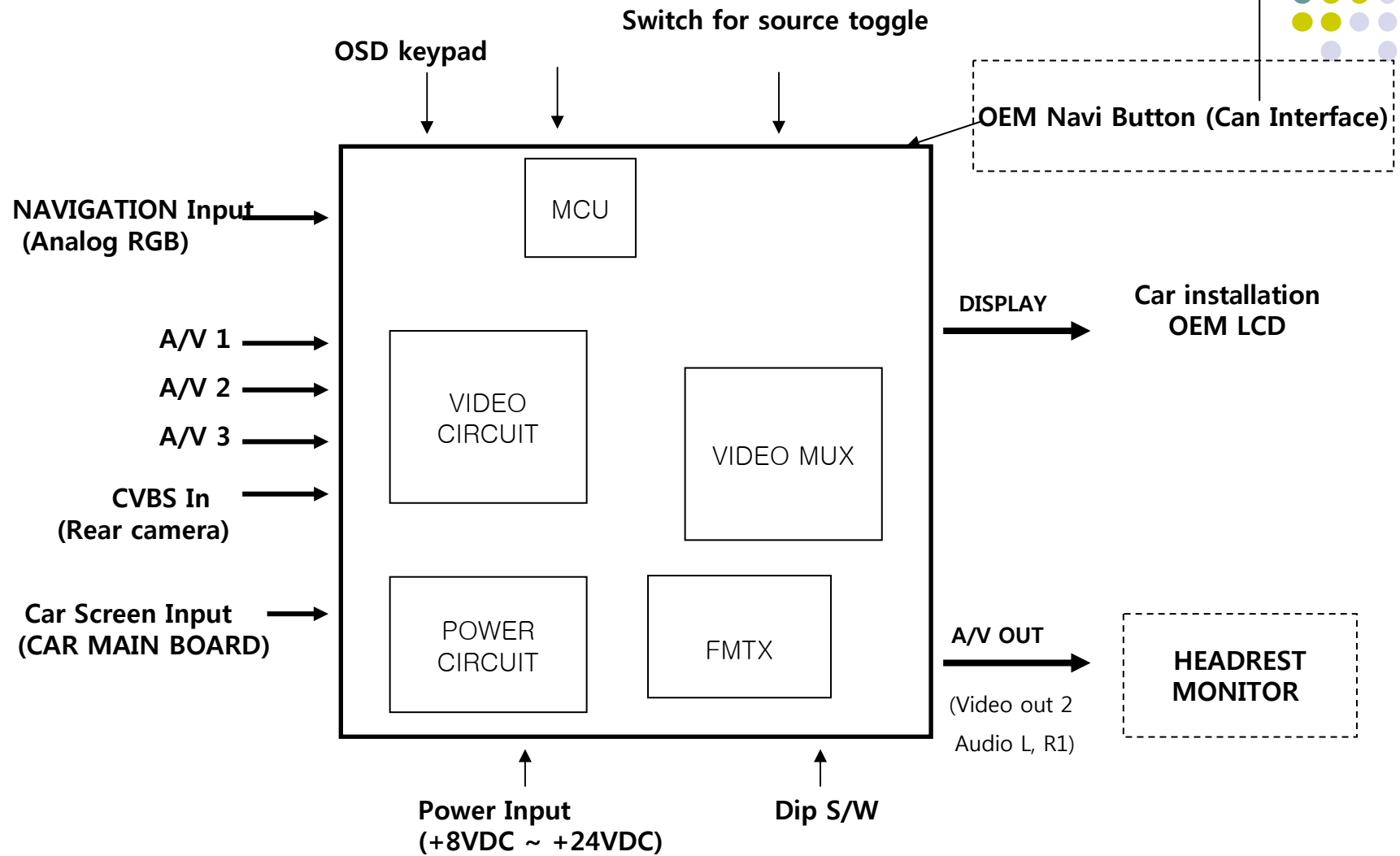
- **Input Power : 8VDC ~ 24VDC**
- **Consumption Power : 12WATT, Max**

## 4. Switching Mode (AV source)

- Possible to skip AV source while switching Mode (AV source) by DIP S/W (Refer to the DIP S/W page)
- By 'SET' button of the OSD Keypad
- By Toggle Switch (Option)
- By 'Menu' button of the car through CAN

※ **This function may not support E65 old version which is without "Menu button"**

# System Composition



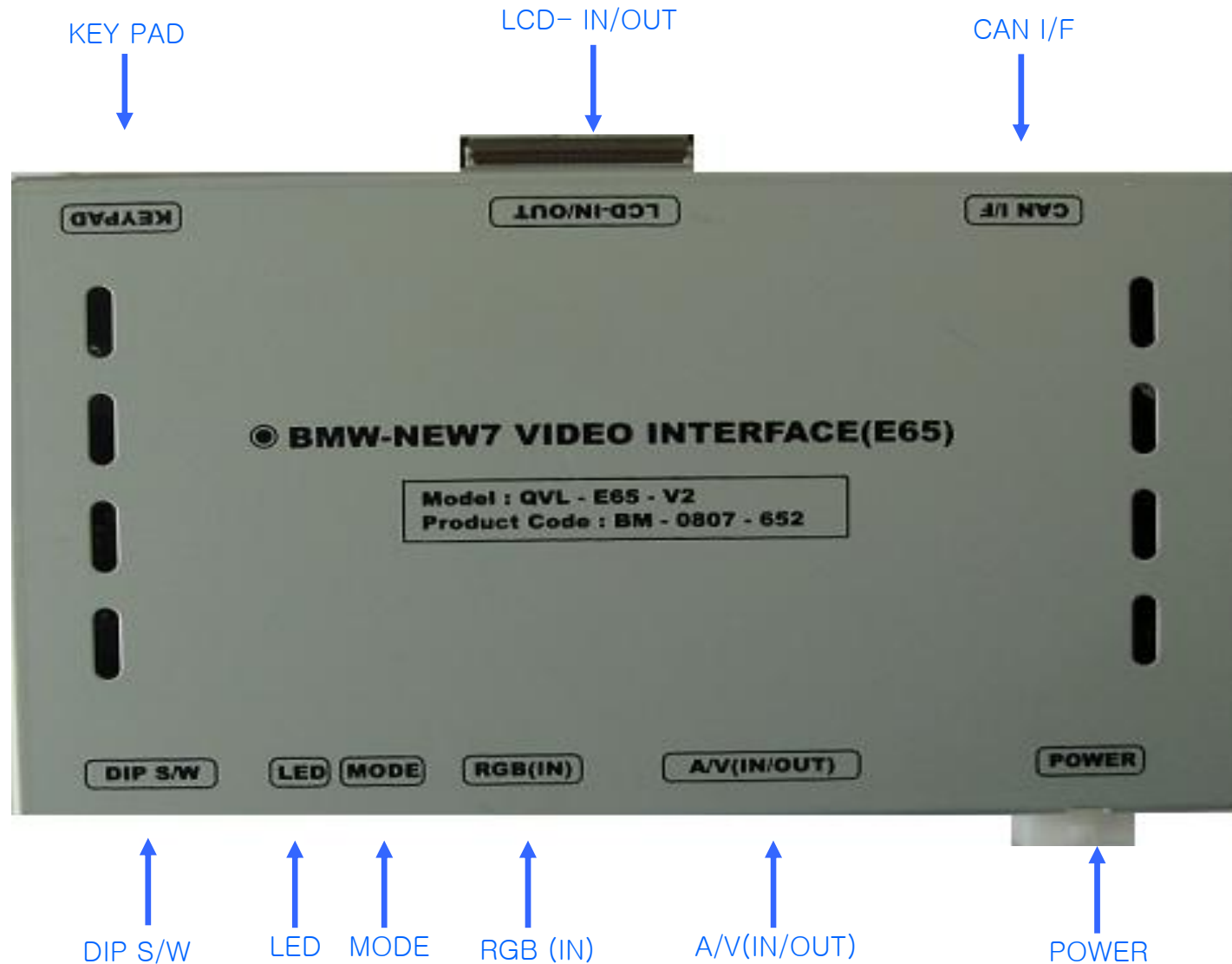
# Outline Dimension

149mm \* 91mm \* 19mm



※ This can change under manufacturer's circumstance

# External Appearance



※ This can change under manufacturer's circumstance



# External Appearance



↑  
DIP S/W

↑  
LED

↑  
MODE

↑  
RGB(IN)

↑  
A/V(IN/OUT)

↑  
POWER



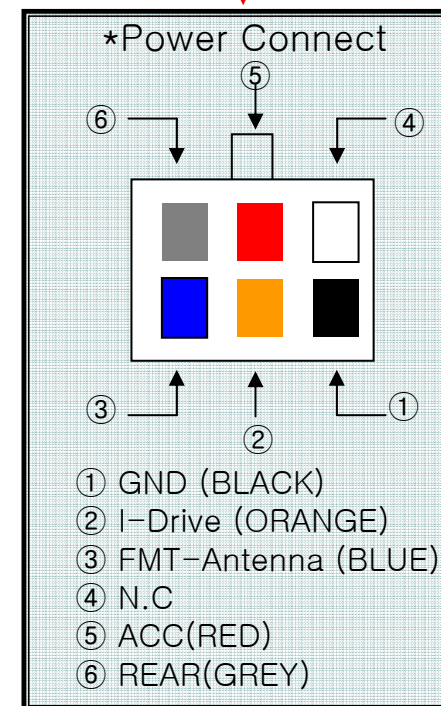
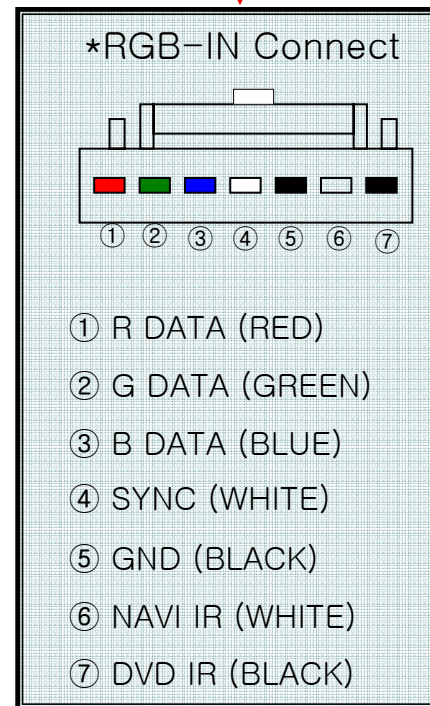
↑  
CAN I/F

↑  
LCD-IN/OUT

↑  
KEY PAD

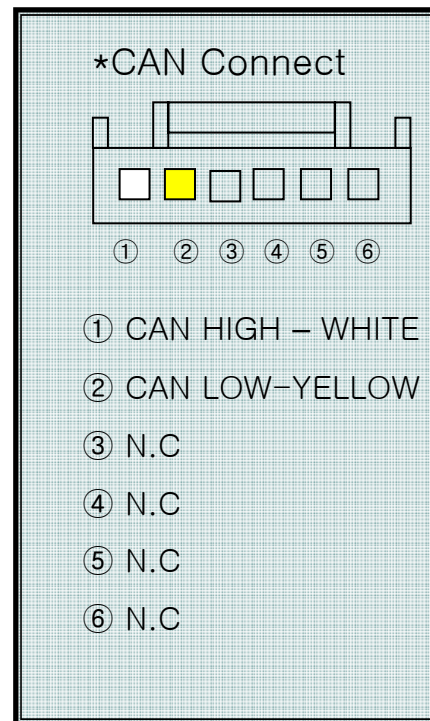
※ This can change under manufacturer's circumstance

# Connector Pin Assignment



※ This can change under manufacturer's circumstance

# Connector Pin Assignment



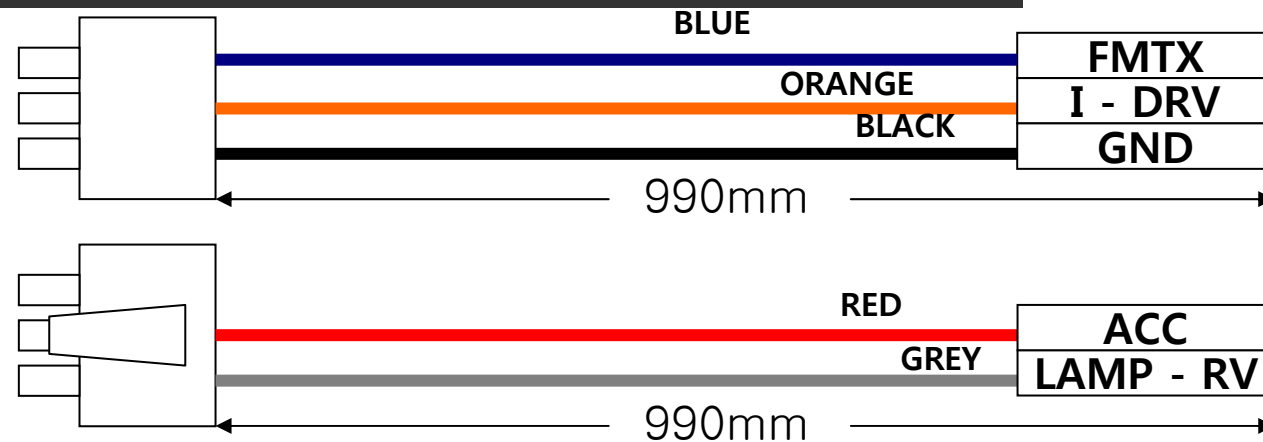
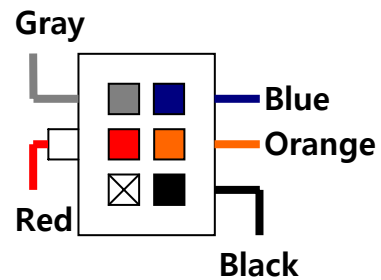
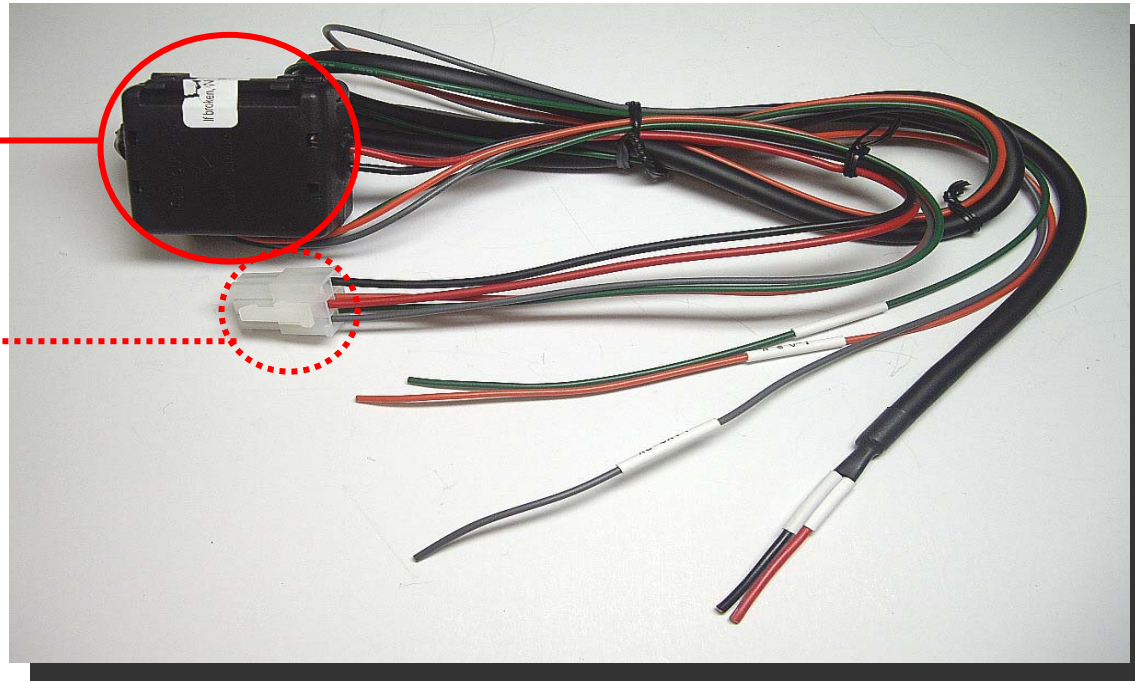
※ This can change under manufacturer's circumstance

# Connector Pin Assignment



\* Power Cable

**FILTER  
& FUSE BOX**



# 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 monitor size	ON : 6.5" LCD Setting OFF : 8.8" LCD Setting
6	N.C	N.C
7	Rear Mode	ON : External Rear Camera OFF : OEM Rear Camera
8	N.C	



# DIP SW



#PIN 모니터 사이즈	NO.5
E65 8.8Inch	OFF
E65 6.5Inch	ON



[E65 8.8 Inch]

## ※DIP S/W Use Example

### [BMW E65-6.5 Inch]

- Use Input Mode : A/V3(DVD), Navigation (RGB)
- 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 (enable A/V3)
- ▷ DIP S/W : 5 → ON (6.5 Inch)
- ▷ DIP S/W : 6 → OFF
- ▷ DIP S/W : 7 → ON (enable CVBS4)
- ▷ DIP S/W : 8 → OFF



[E65 6.5 Inch]

# How to use OSD Keypad

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**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

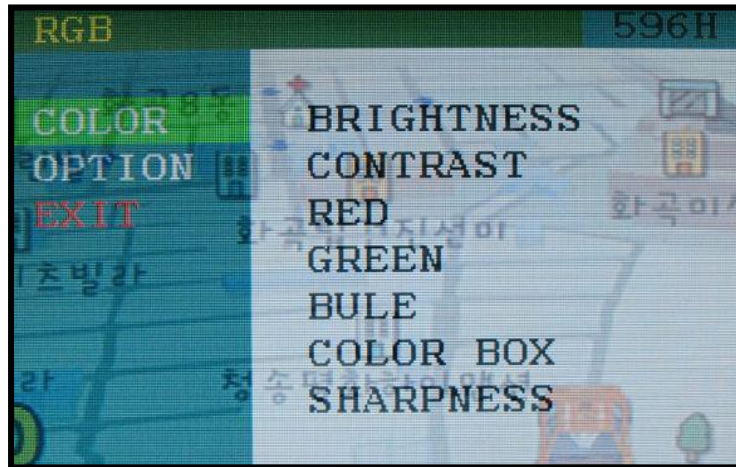
**\*FACTORY MODE** : Operated with pressing UP->DOWN->UP->MENU keys of the keypad sequently.



# OSD(On Screen Display)



## • Analog RGB Mode



## • Video Mode



### COLOR Menu

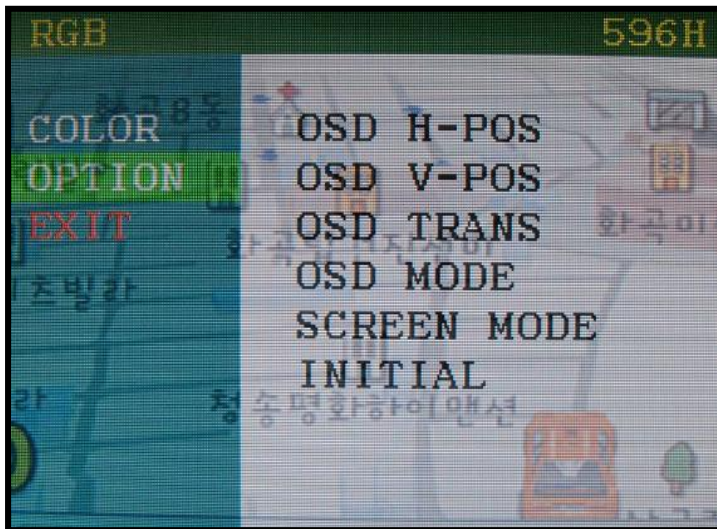
- BRIGHTNESS
- CONTRAST
- RED, GREEN, BLUE
- HUE
- COLOR BOX
- SATURATION
- SHARPNESS



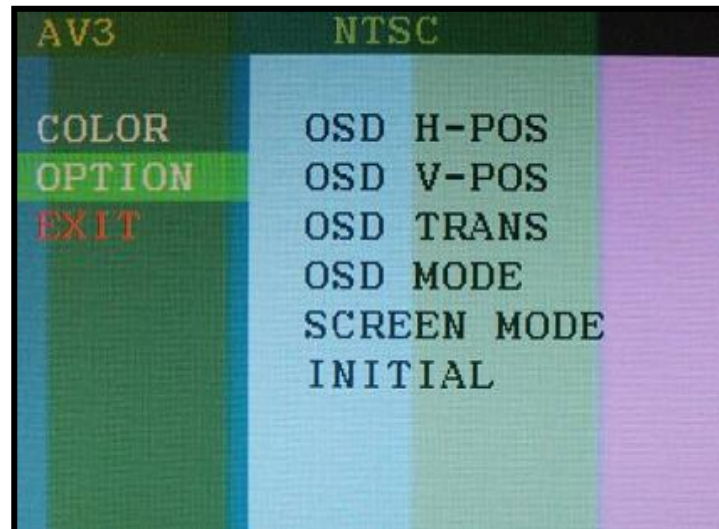
# OSD(On Screen Display)



- 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)

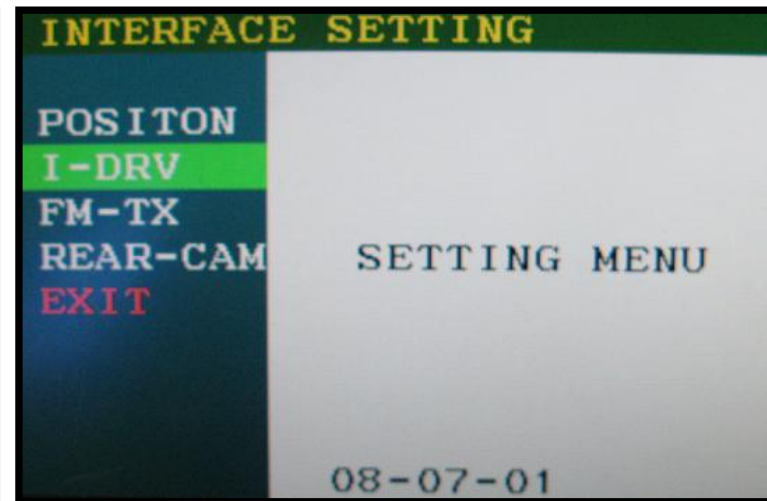
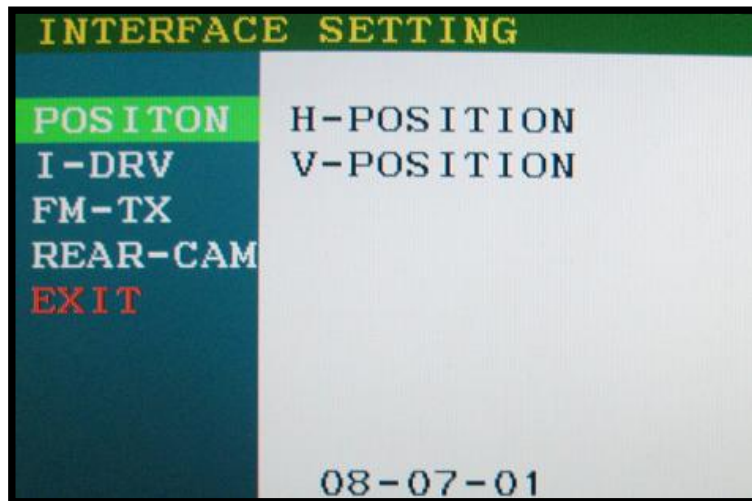
INITIAL : Initializing OSD setting value

# OSD(On Screen Display)



- **Factory Mode(INTERFACE SETTING)**

–Operated with pressing UP→DOWN→UP→MENU keys of the keypad sequentially.



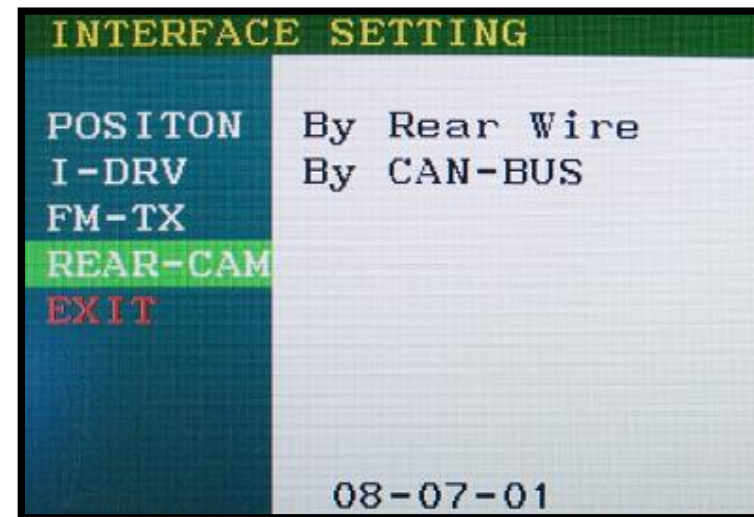
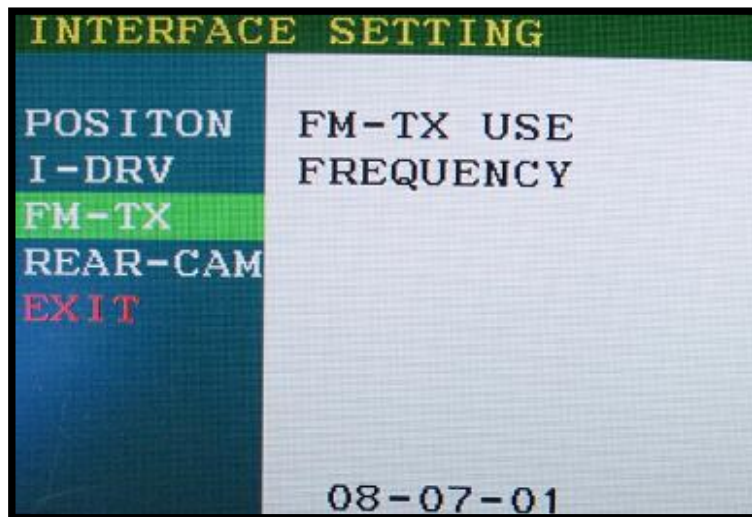
## Factory Mode (Interface setting)

- **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)
- **I-DRV** - To control DVD, Navi by I-DRV (Optional)

# OSD(On Screen Display)



- Factory Mode (INTERFACE SETTING)



## Factory Mode (Interface setting)

### -FM-TX - FM-TX USE : FMTX Setting

- FREQUENCY : FMTX Frequency Setting (Refer to the next 'FMTX frequency setting' page)

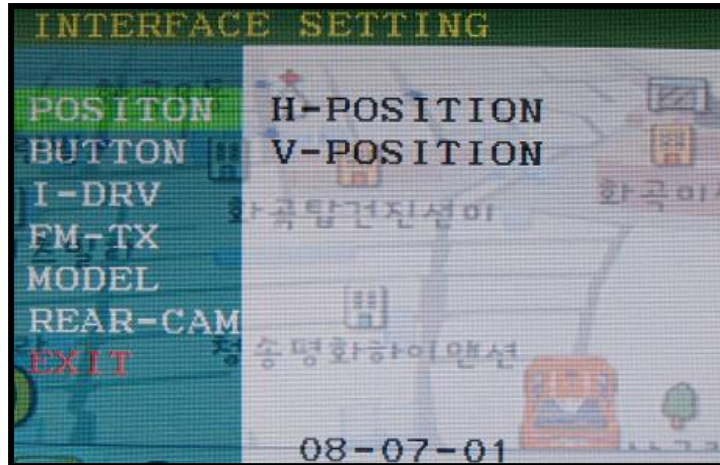
### -REAR-CAM – By Rear Wire : When to install Back-up Cam by rear wire of power cable (Same with previous version)

- By CAN-BUS : When to install Back-up Cam by CAN wiring. In this case, when the car is in reverse, the CAM is detected automatically.

# 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, should set “FM-TX USE” to “OFF”

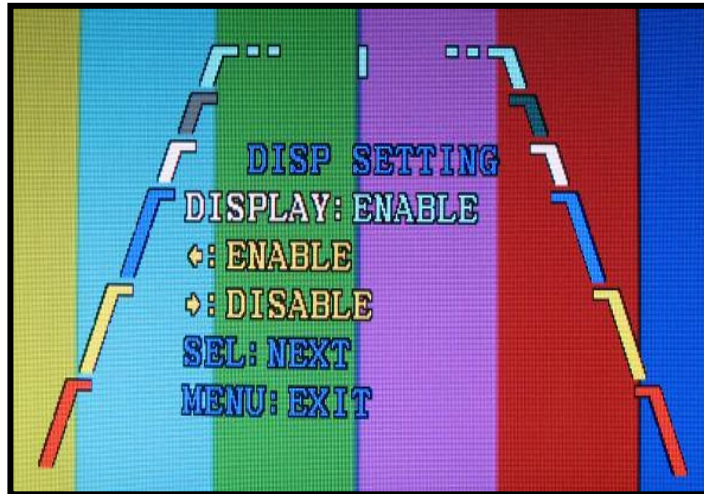


# How to use parking guide line



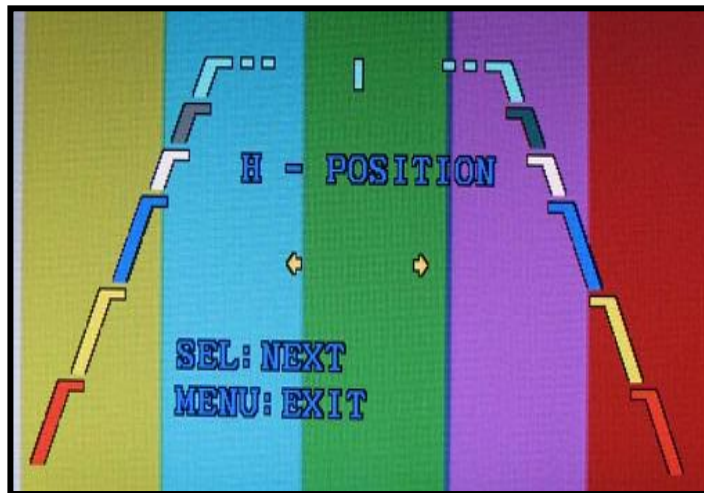
Factory Default : DISPLAY – DISABLE

①



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

②



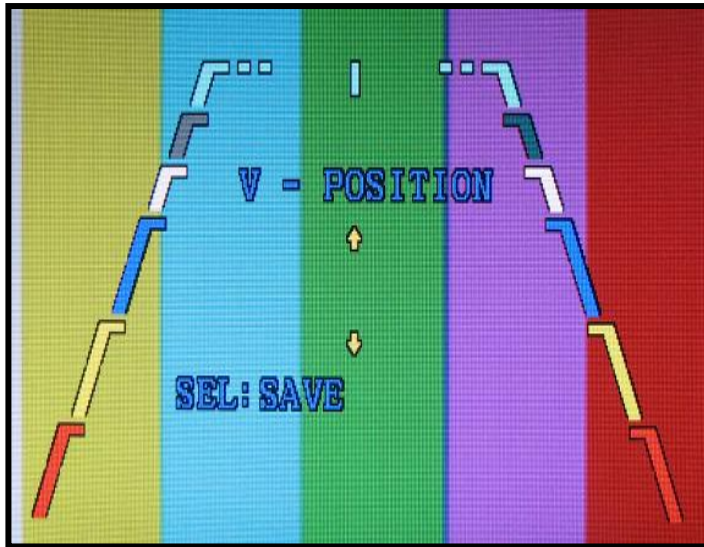
② If you need to move the line position, press 'SEL' key on the above step.  
(Use 'Up', 'Down' Key of Keypad)

# How to use parking guide line

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③

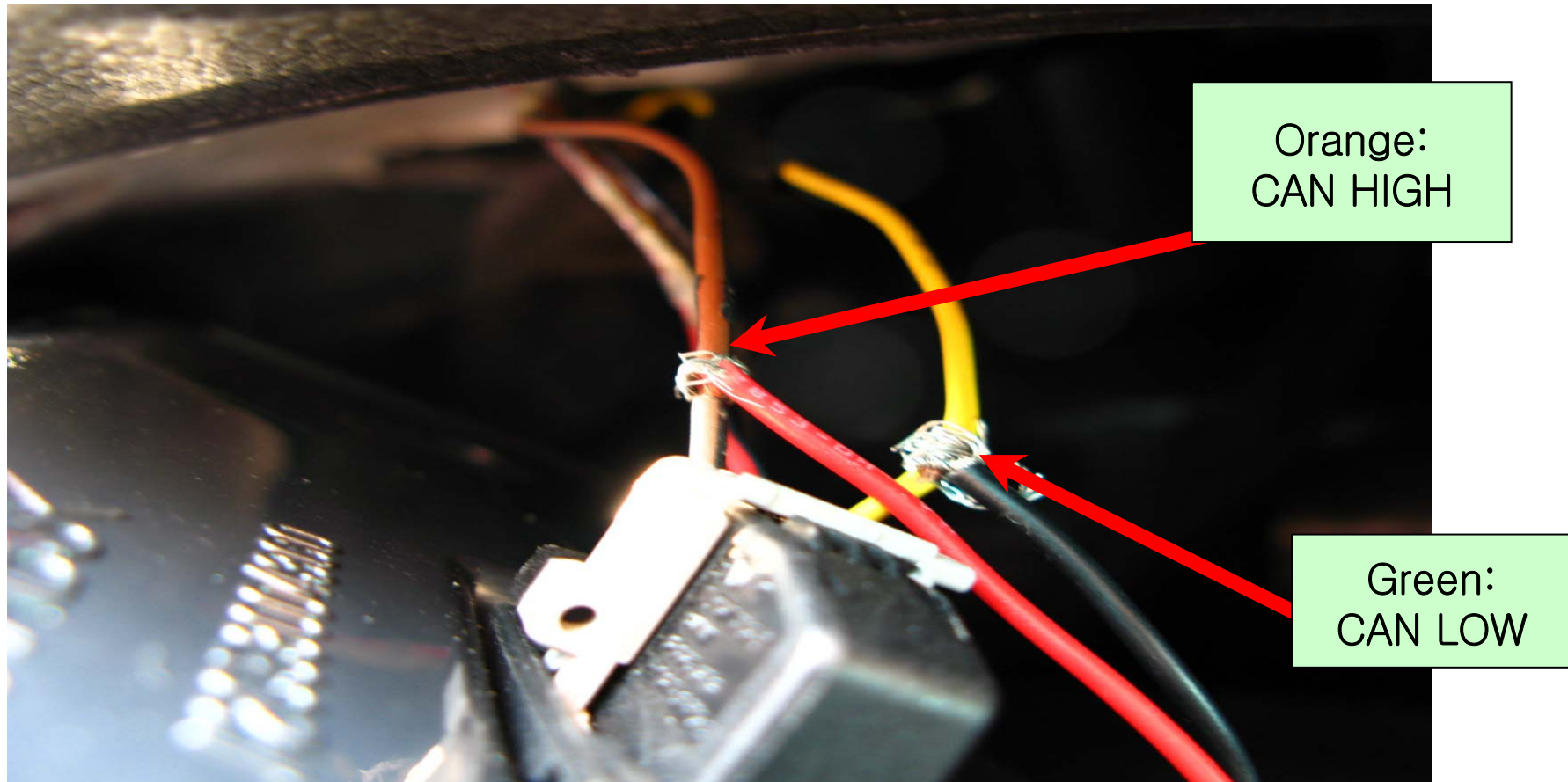


③ On step no.2, once press "SEL" key again, you can move the line vertically by "UP", "Down" keys.

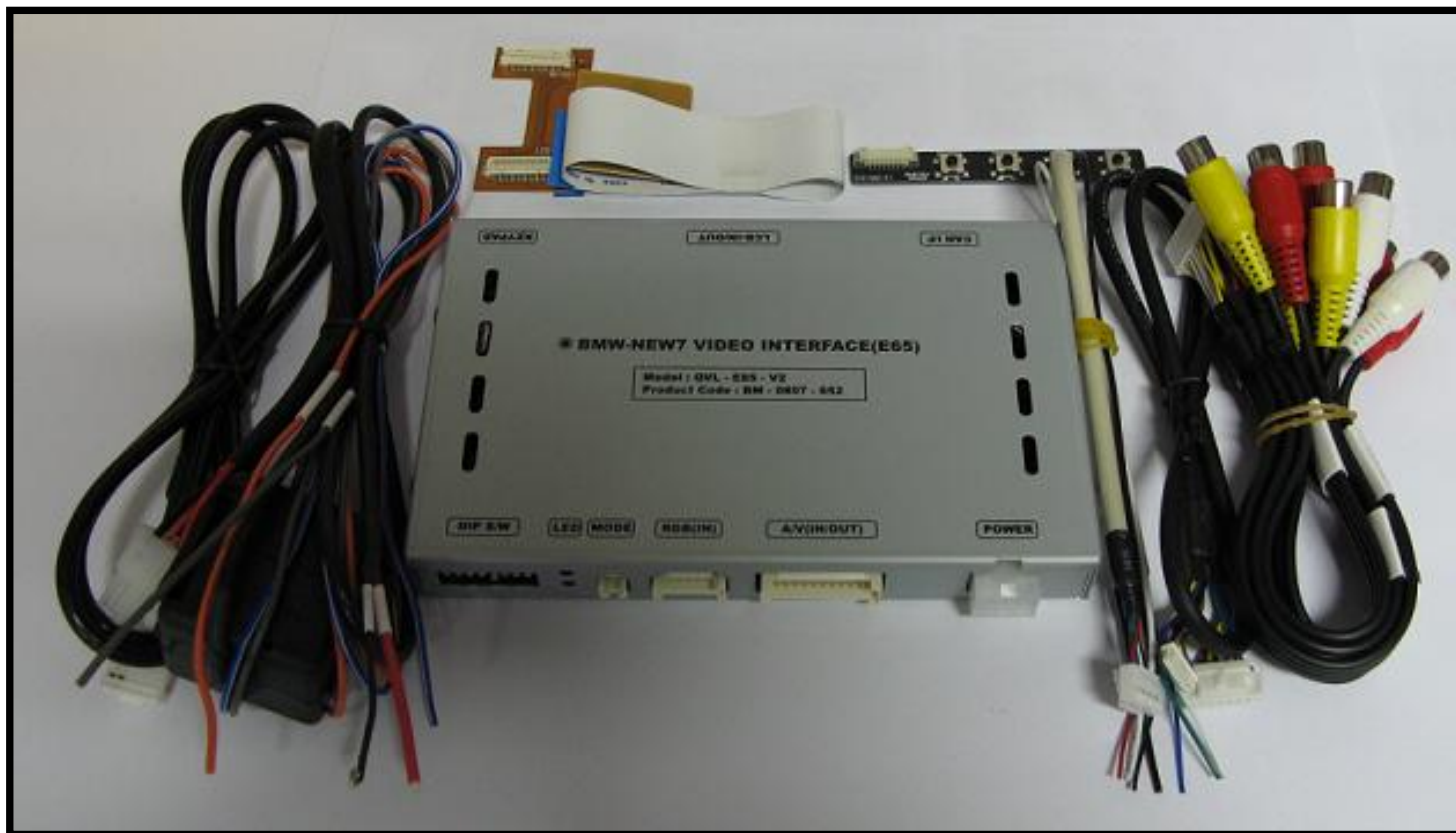
# CAN Wiring



## E65 CAN Wiring Diagram



# Product Composition



OSD Keypad : 1 EA  
LCD In/OUT Cable : 1 EA  
Navi Cable : 1 EA  
Toggle S/W : 1 EA (Optional)

Power Cable : 1 EA  
A/V Cable : 1 EA  
Ground Cable (For Keypad) : 1 EA  
CAN Cable : 1 EA



# FAQ

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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 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.