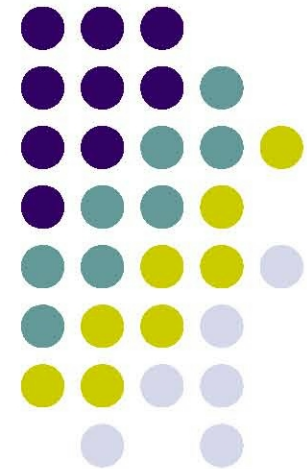


BMW NEW 5 MODULE With CAN SPECIFICATION

- MODEL: BMW N-5 REV.10
- P/N :



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- . System Composition Map
- . Dimension
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- . Remote Control Guide
- . Power Cable
- . OSD(On Screen Display) Function
- . Products composition
- . FAQ

Upgraded points on Rev.11



* Upgraded points

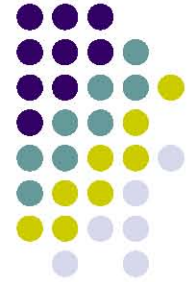
- CAN module added on the board (Possible to change mode with Menu button of the car, when to press the Menu button shortly, the mode changes to Main screen and for 1~2 sec, the video mode changes.)

Toggle S/W is not offered due to CAN module added (Option)

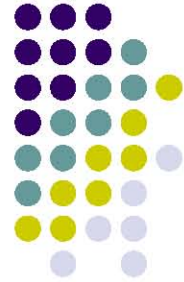
- Possible to make a remote button of DVD or Navi that User appoints mode change button.
You can save remote values (maximum 3 buttons) of DVD or Navi to the Interface.
(Refer to Next page to know how to do.)
- Audio Select function is added.
- Possible to save OSD setting value by each video mode.

Pre-Caution

- 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 Specification



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)

2. Output Spec.

- 2 X CVBS OUTPUT (Video Out for installing Headrest monitor)
- 1 X AUDIO OUTPUT (Audio Out)
- 1 X LCD OUTPUT(LCD Operation)
- 1 X Audio Select

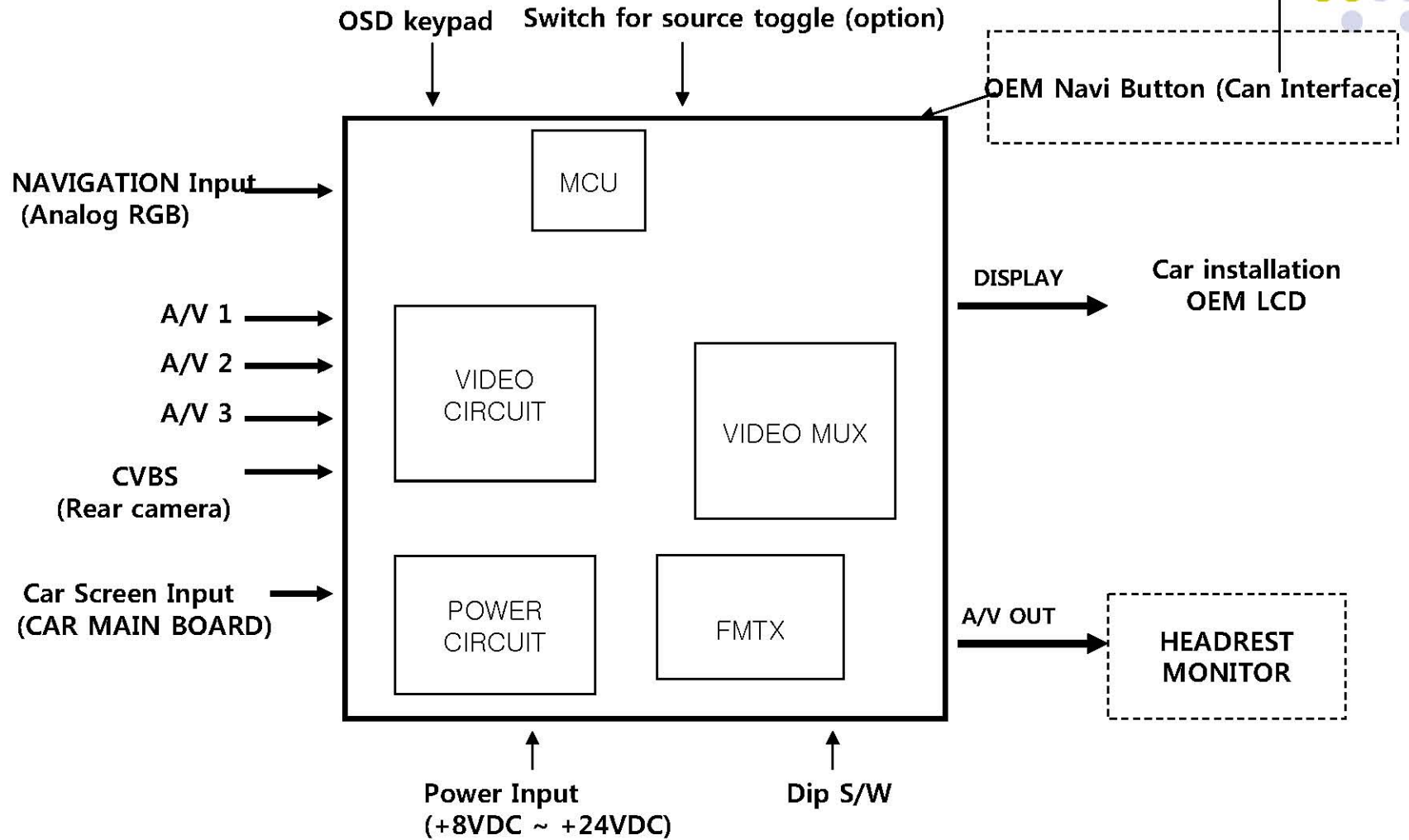
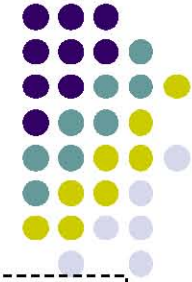
3. Power Spec.

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

4. Switch Input mode

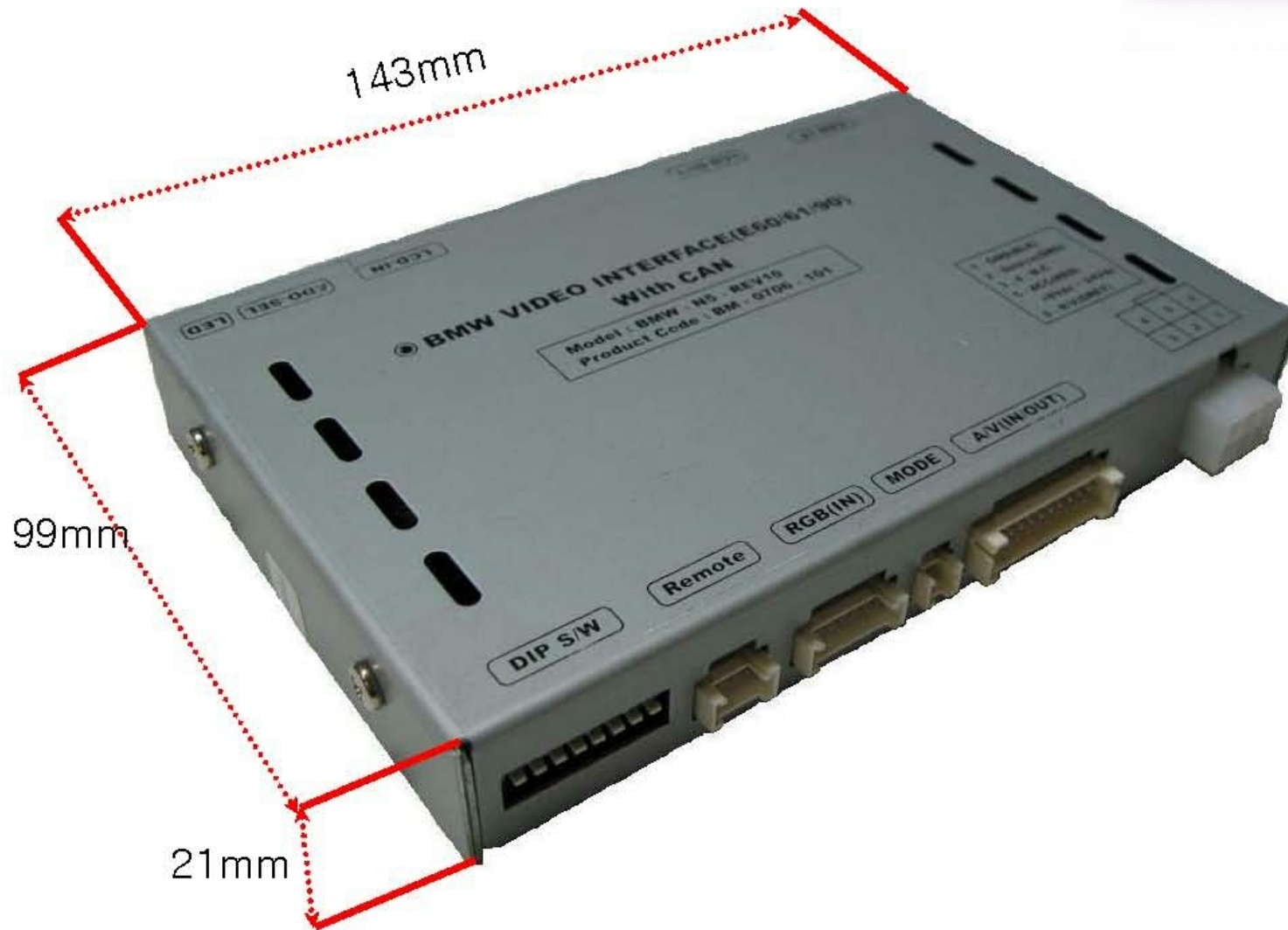
- Input Video MUTE Function : Possible to make each input mute by operating Dip S/W.
- Possible to switch Input mode with remote control
- Possible to switch Input mode with switch for source toggle (option)
- Possible to switch Input every time by applying +12DC with I-DRV pin of Power cable.
- Possible to switch mode by pressing Menu button on the vehicle. (NEW)

System Composition



Dimension

143mm * 99mm * 21mm



MODULE EXTERNAL



Dip S/W Dip S/W RGB(In) Tack S/W (Option) A/V In/Out

✳ This can change under manufacturer's circumstance

MODULE EXTERNAL



↑ LED ↑ DIP S/W ↑ REMOTE ↑ NAVI IN ↑ A/V (IN/OUT) ↑ POWER



↑ CAN ↑ LCD-OUT ↑ LCD-IN ↑ MODE

※ This can change under manufacturer's circumstance

CAN Module



WHITE:CAN HIGH

YELLOW:CAN LOW

*USAGE : If you push 'Menu' button for 1 sec, it's turned to OEM screen. If you push it for more than 2 sec, the mode is changed.

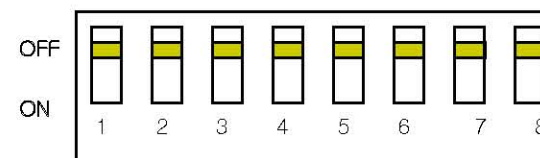
Do not cut the Can High&Low wire; you must be joining those wires.

*** CAN wires on the car can be different by each car. We do not accept any problems caused by user's fault or carelessness**



DIP SW Operation Process

#PIN	Operating when turn DIP S/W on
1	NAVI INPUT MUTE → Skipping NAVI Mode.
2	A/V 1 MUTE → Skipping A/V 1
3	A/V 2 MUTE → Skipping A/V 2
4	A/V 3 MUTE → Skipping A/V 3
5	On : 6.5" LCD Setting (Possible to use for BMW 1 series), Off : 8.8" LCD Setting
6	On : Siemens Setting (Only when to turn on the 5 th pin), Off : Alpine Setting (Only when to turn on the 5 th pin) On : Operation Rear Monitor for New 7 (Only when to turn off the 5 th pin) Off : 8.8" Setting
7	When to choose rear mode (ON : CVBS4, OFF : MAIN)
8	N.C



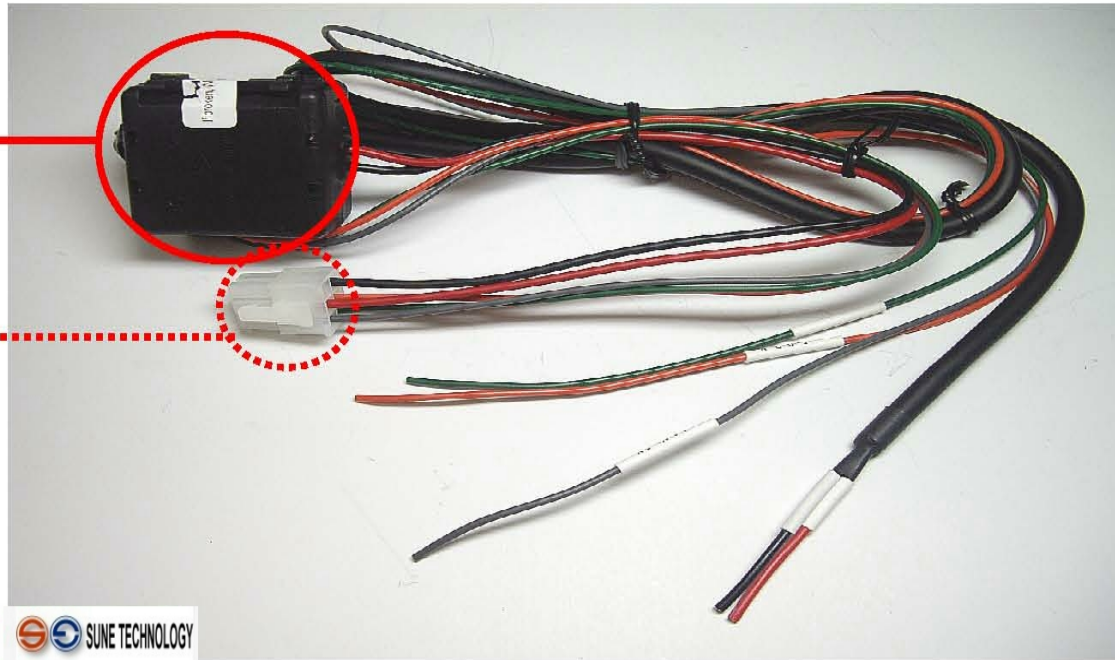
[Front View]

(DIP S/W Use Example)

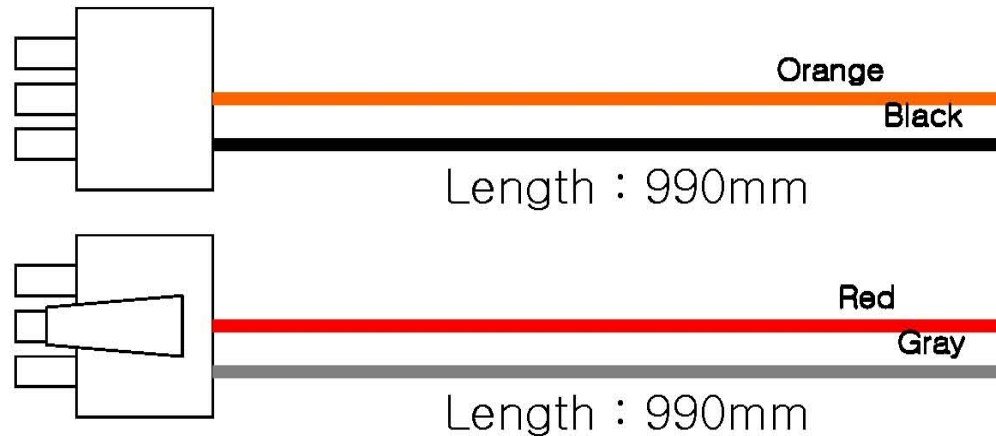
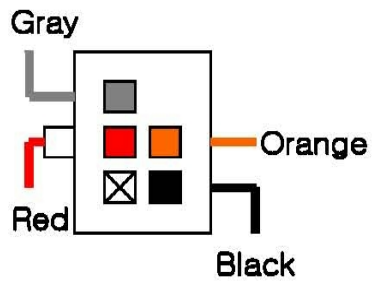
- . Use Input Mode : MAIN + A/V 3 + 6.5" + Alpine LCD
- . Rear Camera : When to be installed on CVBS 4

- ▷ DIP S/W : 1,2,3 → ON (INPUT MODE SKIP)
- ▷ DIP S/W : 4 → OFF (enable A/V3)
- ▷ DIP S/W : 5 → ON (6.5")
- ▷ DIP S/W : 6 → OFF (Alpine LCD)
- ▷ DIP S/W : 7 → ON (enable CVBS4)
- ▷ DIP S/W : 8 → OFF

Power Cable



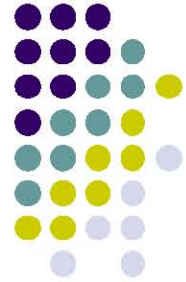
FILTER & FUSE BOX



I - DRV
GND

ACC
LAMP - RV

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 sequentially.

OSD(On Screen Display) Function



· Analog RGB Mode



· Video Mode



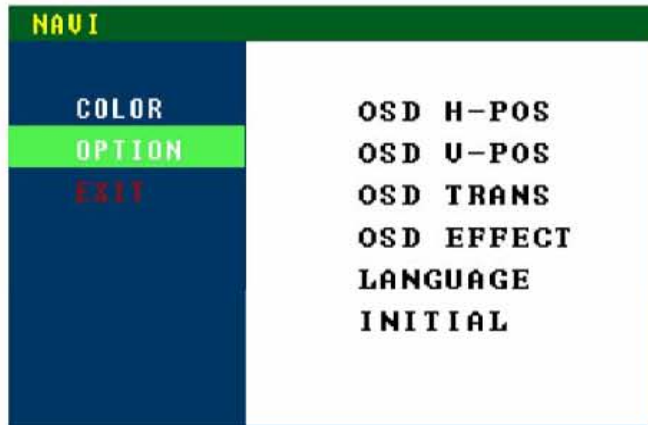
The following settings are available in the COLOR Menu :

- BRIGHTNESS : It is used to adjust brightness of the screen.
- CONTRAST : It is used to adjust distinction (Image noise clearness).
- RED, GREEN, BLUE : You can adjust red, green and blue setting for user color temp.
- SATURATION : Adjust the saturation the picture.
- HUE : It is used to adjust the display hue adjustment of the screen.
- SHARPNESS : Adjust the sharpen or soften the picture.

OSD(On Screen Display) Function



- Analog RGB Mode



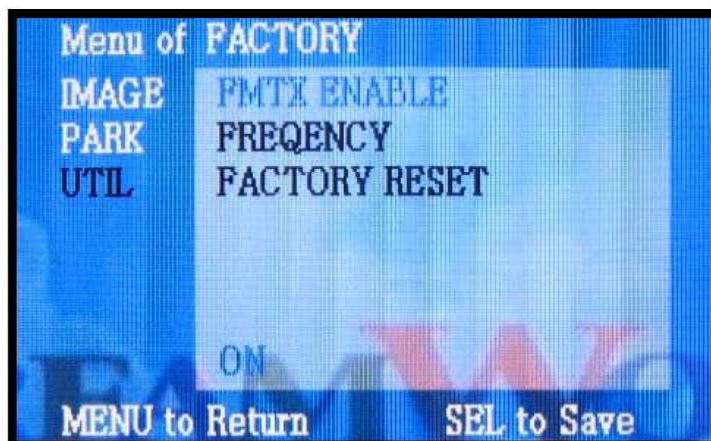
The following settings are available in the OPTIONS Menu :

- OSD H-POS : It is used to move menu screen right-wards or left-wards.
- OSD V-POS : It is used to move menu screen up-wards or down-wards.
- OSD TRANS : You can select the OSD background to be opaque or translucent.
- OSD EFFECT : Menu screen display function.
- LANGUAGE : OSD language and appearance can be changed.
- INITIAL : Screen parameters are replaced with the factory default values.

FMTX Frequency Setting



Factory Default : FMTX ENABLE – OFF, FREQUENCY – 88.2MHz



Get "Factory Mode" operated pressing UP->DOWN->UP->MENU keys of the keypad sequently.

Set "FMTX ENABLE" of UTIL to "ON" like the left picture.



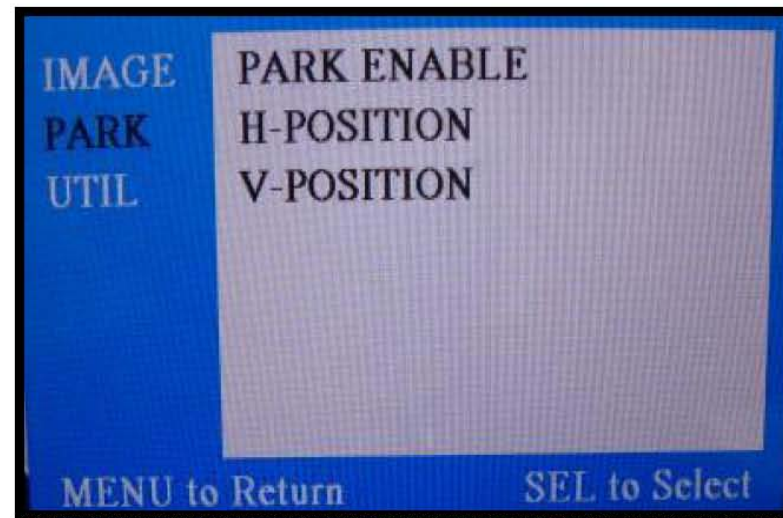
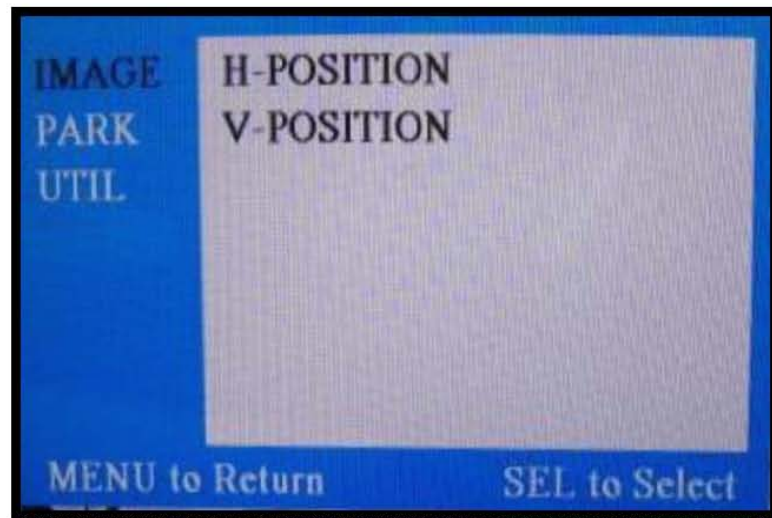
After the above process, control the frequency by "UP", "Down" keys. At the bottom, you can see present frequency and control it from 88.2MHZ to 90.2MHZ. (1MHZ per each time to press)

※If you do not want this function, should set "FMTX ENABLE" to "OFF"

OSD(On Screen Display)



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



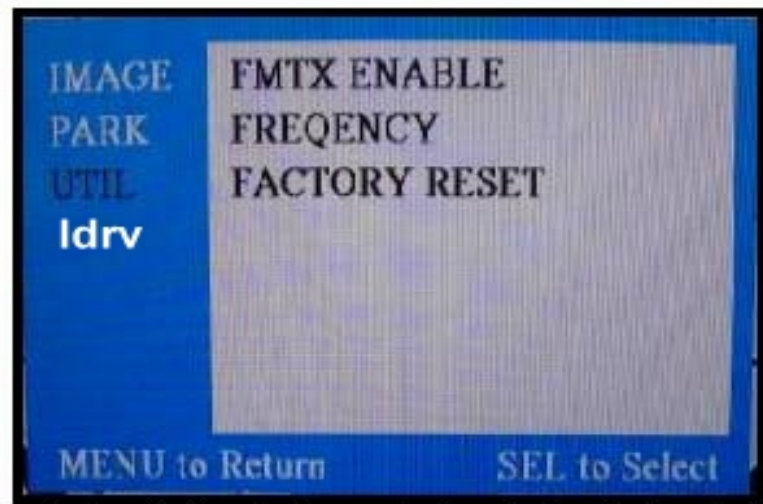
Factory Mode

- **IMAGE** - H-POSITION : Move to Left, Right
 - V-POSITION : Move to Up, Down
- **PARK** - PARK ENABLE : Setting to use 'Parking guide line'
 - H-POSITION : Move the lines to Left, Right
 - V-POSITION : Move the lines to Up, Down

OSD(On Screen Display)



- **FACTORY Mode**



Factory Mode

- **IMAGE - FMTX ENABLE** : Setting to use FMTX
 - **FREQUENCY** : Setting Frequency (Refer to the next page)
 - **FACTORY RESET** : Initializing of all values
 - **Idrv** : **Setting Navi and DVD changer output control from Idrvie (DVR-IR connection to DVD IR sensor WHITE wire, NAVI IN connection to Navi IR sensor RED wire)**

Products composition



Remote Control : 1 piece
LVDS Cable : 1 piece
Audio-Sel Cable : 1 piece
IR Cable for Remote : 1 piece
Mode change switch : 1 piece (Option)

Power Cable : 1 piece
A/V Cable : 1 piece
Navi Cable : 1 piece
CAN Cable : 1 piece

CAUTION!! For safety purpose, always unplug the power supply of the MASK head unit before installing or removing the Interface. will not be responsible for any accidents or damages caused by the failure of unplugging the power supply of the MASK head unit.



Installation Process



Loosen the screws of the monitor as indicated, remove the monitor, and unplug the connector.



Open the cover with a tool.



Remove the cover after unplugging the connector.



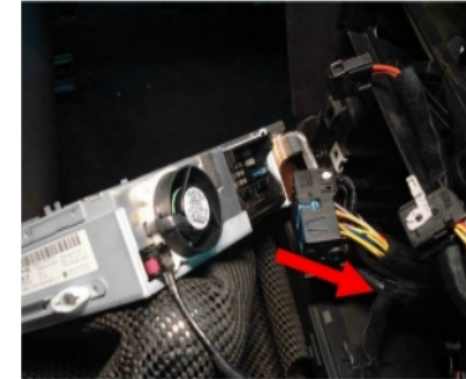
Loosen the screws on both sides as indicated.



Pull out the Control Board carefully.



Loosen the screws of the MASK on both sides as indicated.



Remove the MASK head unit, and unplug the power supply.

CAUTION!! For safety purpose, always unplug the power supply of the MASK head unit before installing or removing the Interface. We will not be responsible for any accidents or damages caused by the failure of unplugging the power supply of the MASK head unit.



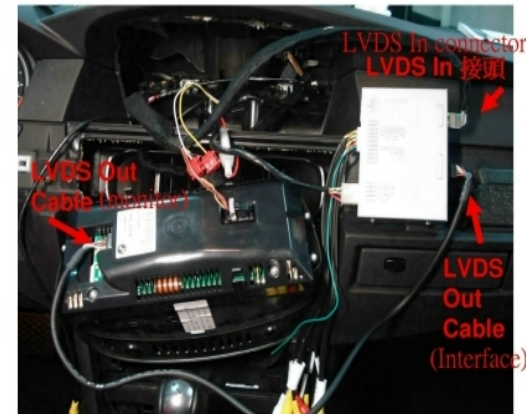
Installation Process



Power cord of the monitor



Black and Yellow cord of the monitor's power cord should be connected to the Yellow and White cord of the Interface's power cord correspondingly.



Connecting the monitor to the Interface

Unplug the LVDS In connector of the original monitor and connect it to the "LVDS In" of the Interface.

Connect the monitor and the "LVDS OUT" of the Interface with the LVDS Out cord .



A clearer picture



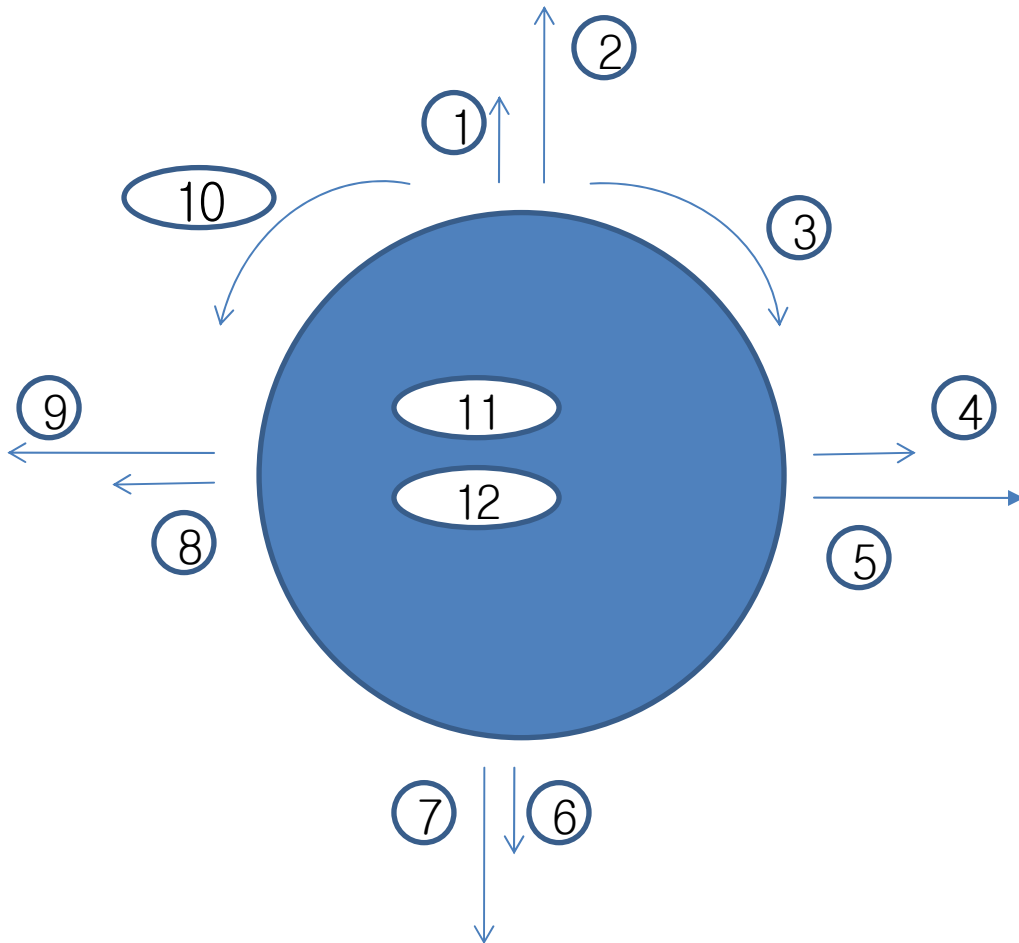
Fix all the wirings, put the monitor and the control board back to complete the installation process.

CAUTION!! Connection of the power of the MASK should be AFTER the completion of the whole Interface installation process.



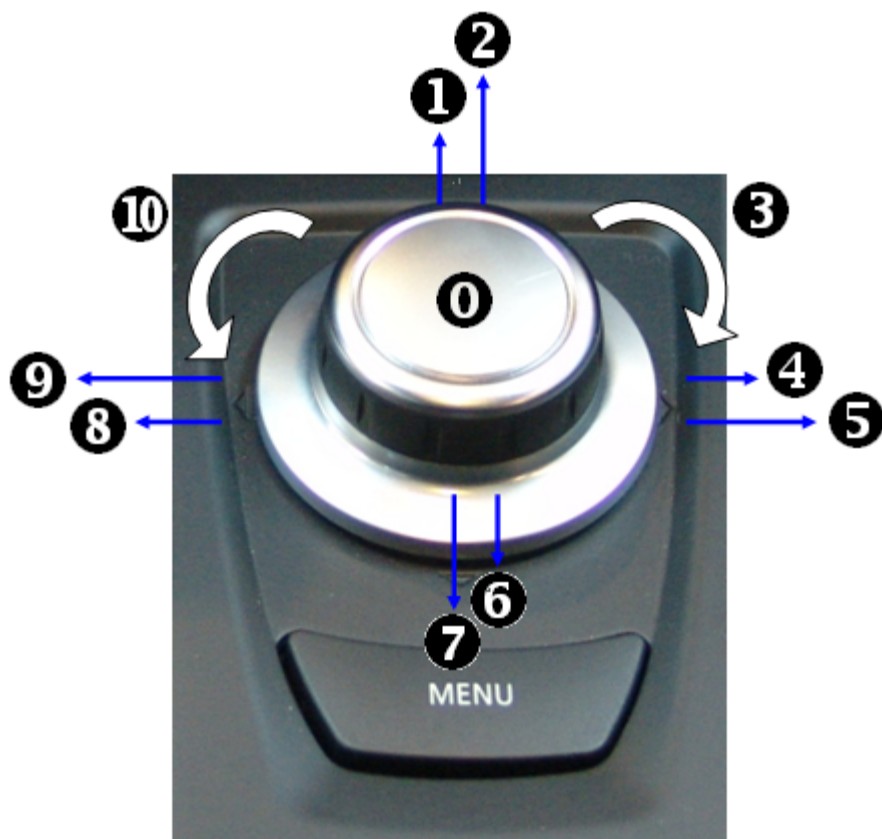
After installation, Press "Menu" than hold 2sec. to change source, click "Menu" 1sec. to original screen

E60/E65 with I-Drv Controller



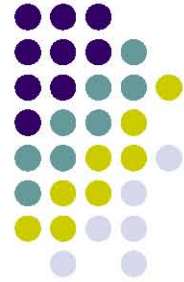
- 1 : 換碟(Select Disc)
- 2 :
- 3 :
- 4 : 下一首(Next)
- 5 :
- 6 : 暫停/播放(Pause/Play)
- 7 : 開機/關機(On/Off)
- 8 : 上一首(Previous)
- 9 :
- 10 :
- 11 : 輸入 (Enter)
- 12 :

BMW 3,5,6,7,X5,X6 (E60/E90/E70/E65) I-Drive Panasonic Navi(105)



- ① 執行(ENTER)
- ② 上(UP)
- ③ 目的地(Destination)
- ④ 放大 (Zoom Out)
- ⑤ 右(Right)
- ⑥ 目前位置(Present place)
- ⑦ 下(Down)
- ⑧ 地圖(Map)
- ⑨ 左(Left)
- ⑩ Previous step
- ⑪ 縮小 Zoom In
- ⊙

FAQ



1. When can not change mode.
 - Check if the IR Cable (remote control) 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.

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 the 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.

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.

FAQ

8. The case the screen is displayed in screen rate 4:3 when the monitor is 8.8 inch.
 - . Try to push a button written "4:3" on the remote control.
 - . Check if Dip S/W no.5 is turned on, if it does, please turn it off.
9. When the displayed image is overflowed and the screen is 6.5 inch.
 - . Check if Dip S/W no.5 is turned off, if it does, please turn it on.
10. If there is no Menu button on the vehicle, do not try to connect CAN wires.
11. If the warning ramp turns on, please check if CAN wires are connected well.

