

# PIP-BMW 3series 09 Specification & Installation

(BMW 3series 2009 with Rounded connector type)



- . MODEL: PIP-BM09-N3-V2.0  
- . P/N : PIP-BM-0902-000

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# -PIP BMW 09 Feature

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- Clear quality view
- NTSC, PAL Auto detection
- AV source switching thru genuine button in vehicle.
- Convenient use by remote & keypad
- SAFETY function

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# -Precaution

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- 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 problem caused by user's mistake, careless can not be guaranteed.

# -Main Spec

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## 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.

- 1 x LCD Output

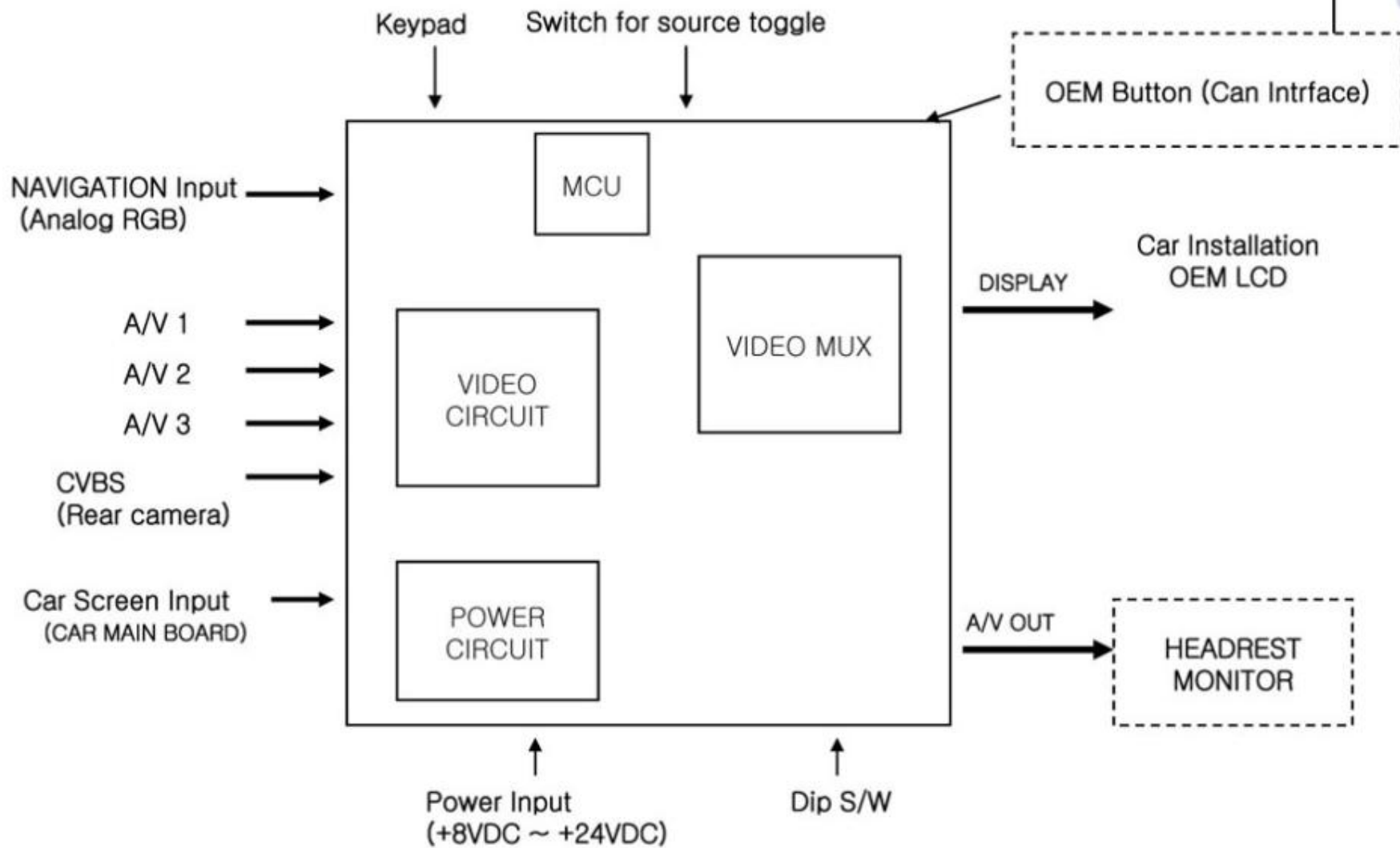
## 3. Power Spec.

- 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(or Remote control)
- Possible to switch AV3(Front camera) with switch for source toggle
- Detecting rear camera by CAN or rear-lamp wire.

# -System Composition Diagram



# -Dimension



155mm \* 93mm \* 22mm

155mm

93mm



# -External Appearance



# -External Appearance



MODE

POWER/CAN

RGB(IN)

A/V(IN/OUT)



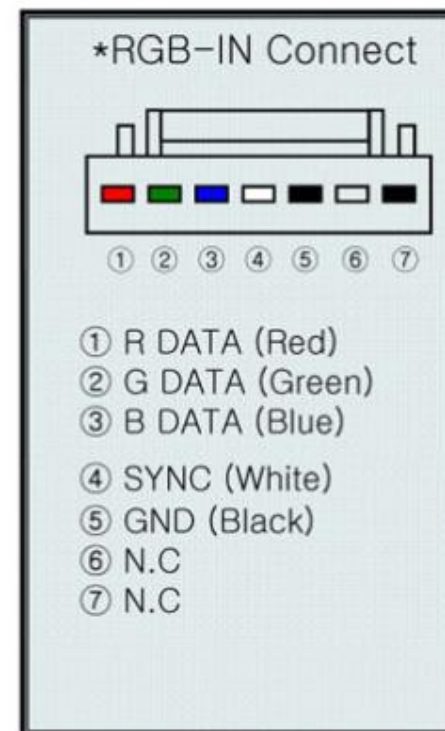
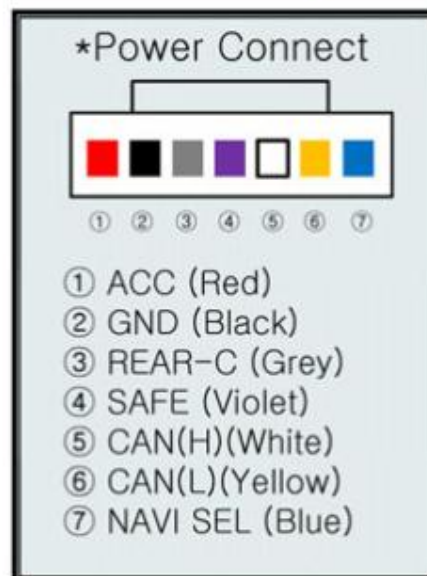
LCD-OUT

LCD-IN

KEYPAD

DIP S/W

# -Connector Pin Assignment

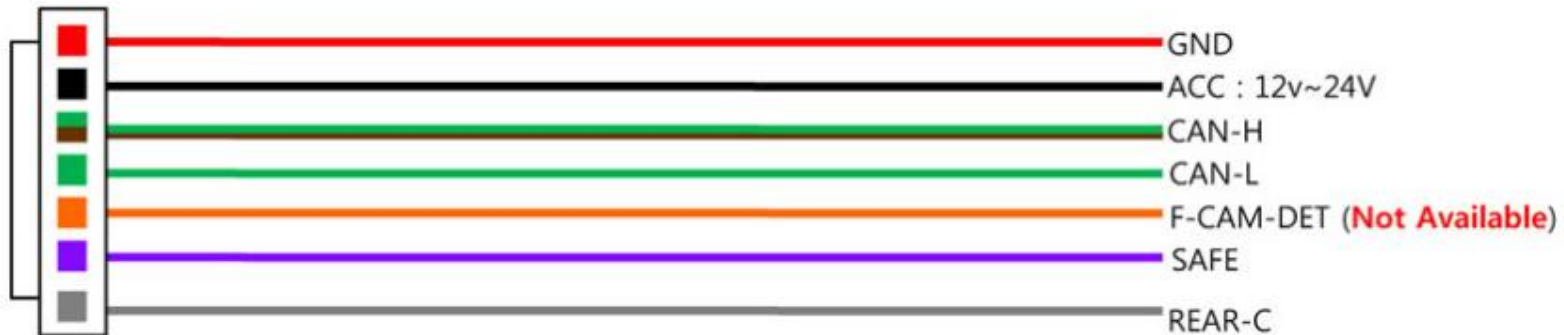
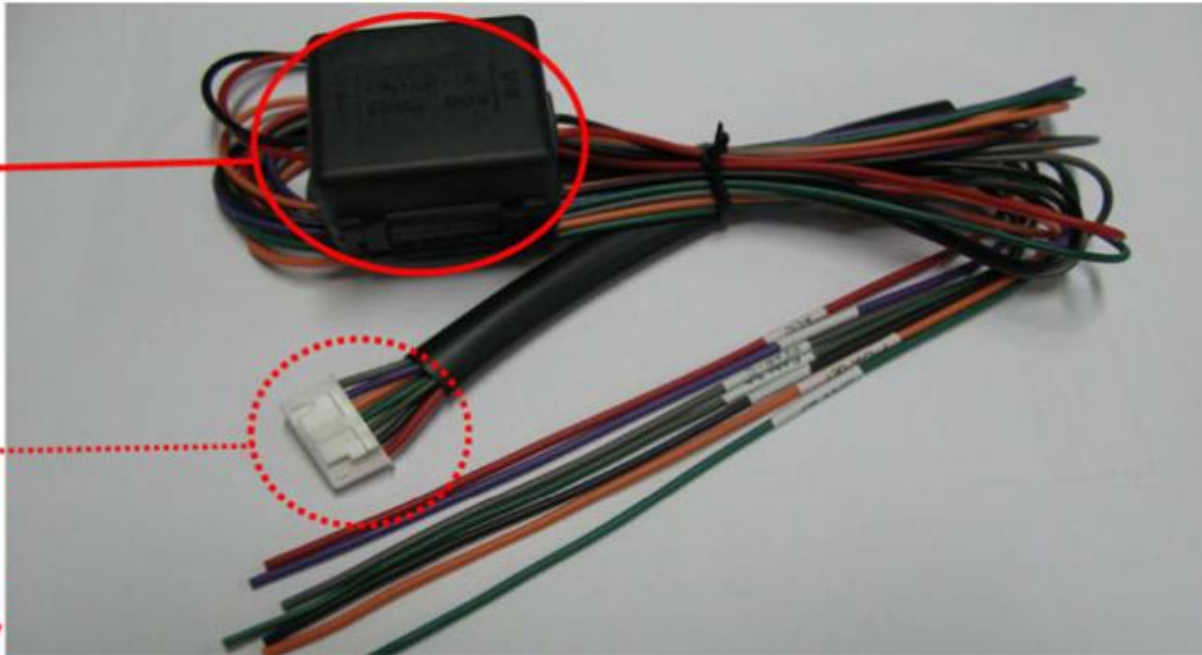


# -Connector Pin Assignment



\* Power Cable

FILTER  
& FUSE BOX



1m

\*SAFE : When connecting to GND, switched to MAIN image and initialized.

# -DIP SW Setting



※ ON : DOWN, OFF : UP ; Default : all 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	When to choose rear mode (ON : CVBS4, OFF : MAIN)	
8		N.C

## ※DIP S/W Use Example

- Use Input Mode : A/V2, A/V3
- Use original Navigation
- Use rear camera

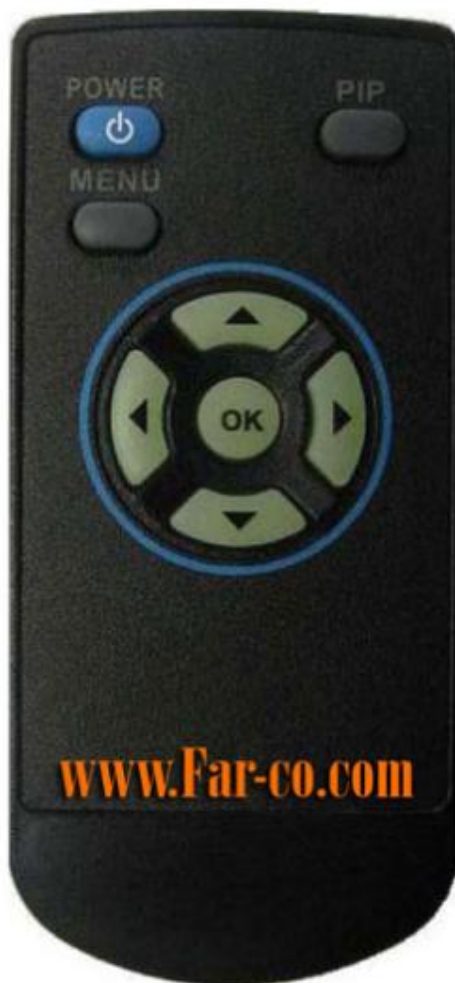
- ▷ DIP S/W : 1,2 -> ON (INPUT MODE SKIP)
- ▷ DIP S/W : 3 -> OFF (enable A/V3)
- ▷ DIP S/W : 4 -> OFF (enable A/V3)
- ▷ DIP S/W : 5,6 -> OFF
- ▷ DIP S/W : 7 -> ON
- ▷ DIP S/W : 8 -> OFF



# -How to use remote



Dimension : 85 \* 40 \* 8 (mm)



POWER : N.C

MENU : OSD MENU

OK : Selection

▲ : Up

▼ : Down

◀ : Left

▶ : Right

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

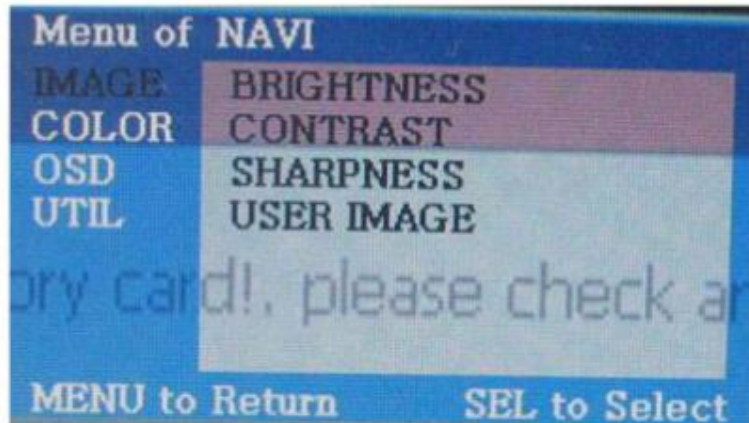
: Operated by pressing ▲ → ▼ → ▲ → MENU of remote or keypad in order.

# -OSD(On Screen Display)



· Analog RGB Mode

· Video Mode



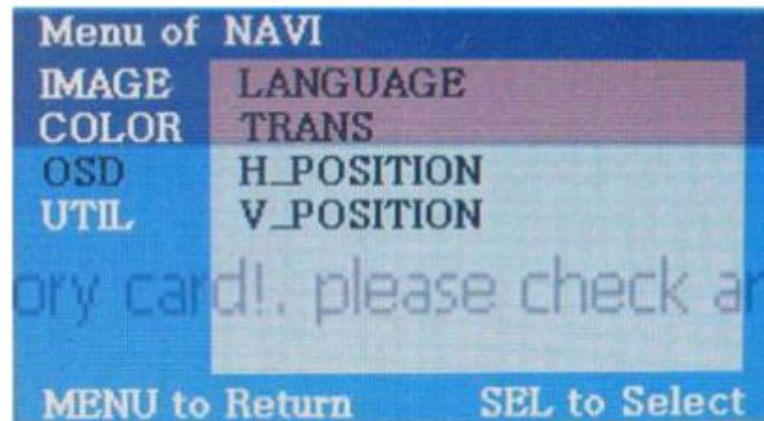
## IMAGE Menu :

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



# OSD(On Screen Display)

- Analog RGB Mode
- Video Mode



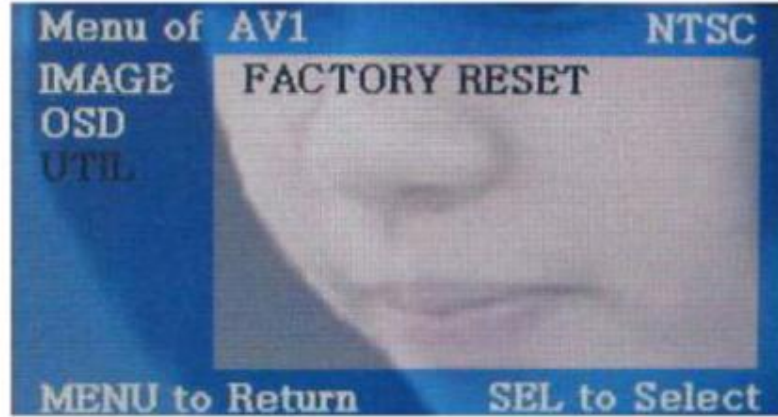
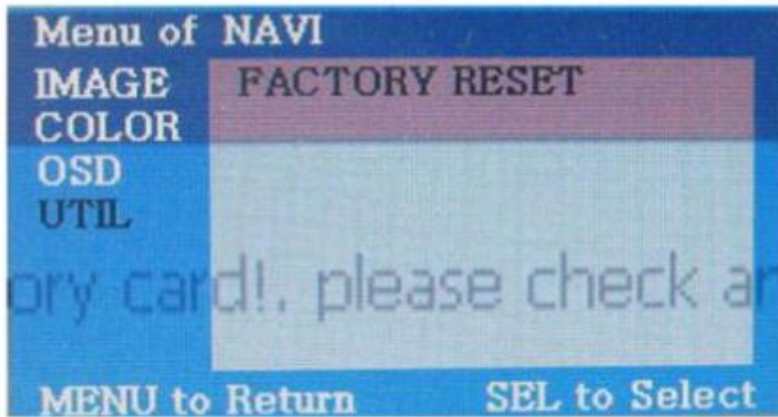
## OSD Menu

- LANGUAGE
- OSD TRANS
- OSD H\_POS
- OSD V\_POS



# OSD(On Screen Display)

- Analog RGB Mode
- Video Mode



## UTIL Menu

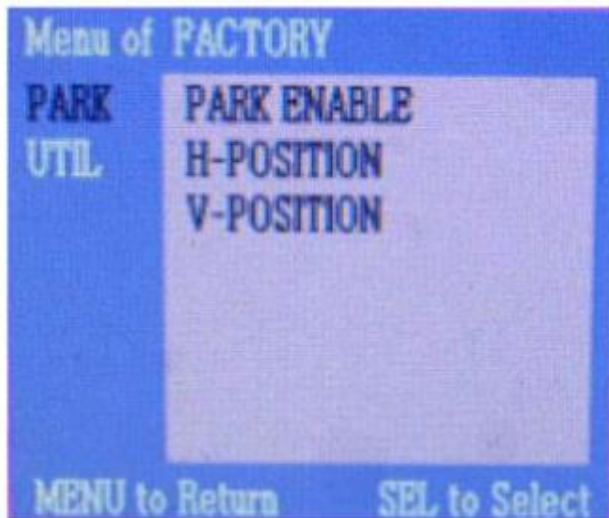
- **FACTORY RESET** : Initializing setting value (NAVI, AV individual initialization)



# OSD(On Screen Display)

## • Factory Mode

-Operated by pressing ▲ → ▼ → ▲ →MENU of remote or keypad in order.



## Factory Mode

### - IMAGE :

- H-POSITION : Move to left and right
- V-POSITION : Move to up and down

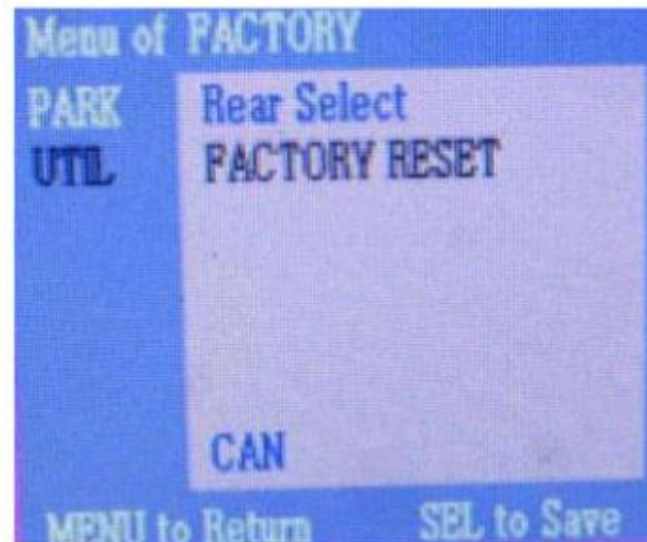
- **PARK** : Refer to the next page for detail.

# OSD(On Screen Display)



## • Factory Mode

-Operated by pressing ▲ → ▼ → ▲ →MENU of remote or keypad in order.



## Factory Mode

### - UTIL :

- Rear Selection : Rear Camera Detection Method Selection

LAMP : Detecting Rear Cam by rear lamp in vehicle ('Rear-C' wire of Power cable should be connected with rear lamp in vehicle)

CAN : Detecting Rear Cam by CAN Signal ('CAN' wires of power should be connected with CAN wires in vehicle)

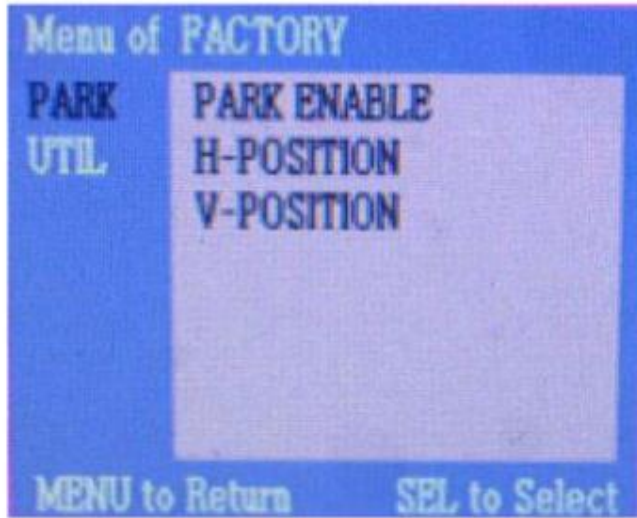
- FACTORY RESET : Initialization

# -Rear parking guide line



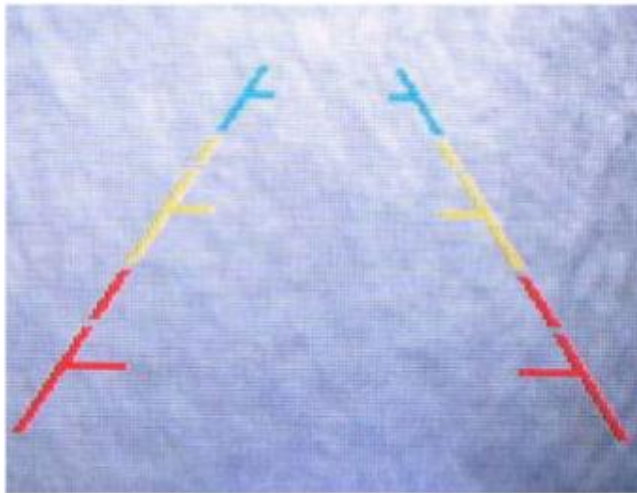
## Factory Default : DISPLAY – ENABLE

①



① To get factory mode like left picture, put gear to reverse and press '▲ → ▼ → ▲ → MENU' of remote or keypad.

②

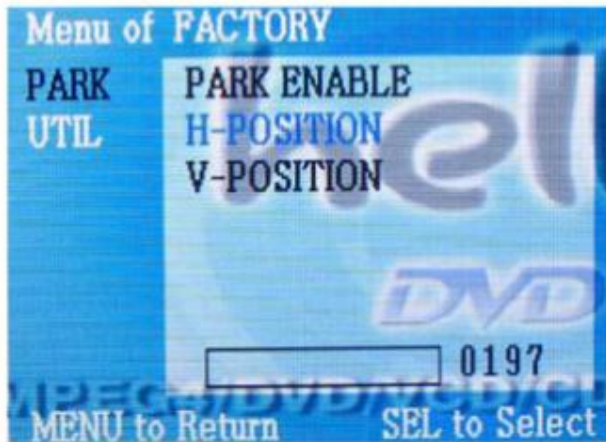


② Select 'PARK ENABLE' to 'ON', then the guide line appears as left picture.

# -Rear parking guide line

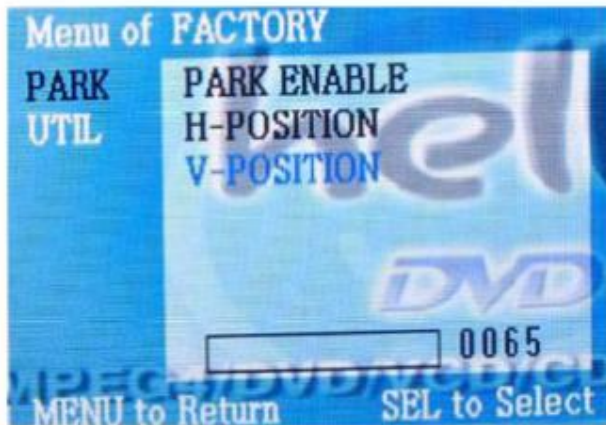


③



③ On Step no.2, after "Factory Mode" operated, line's position can be moved to left and right in H-POSITION menu.

④



④ Also can move the line to up and down in H-POSITON menu.

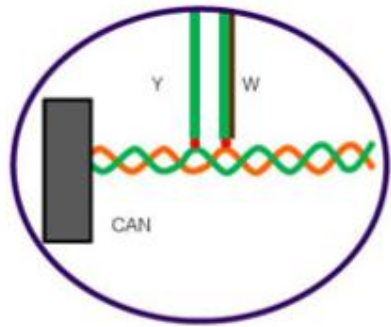
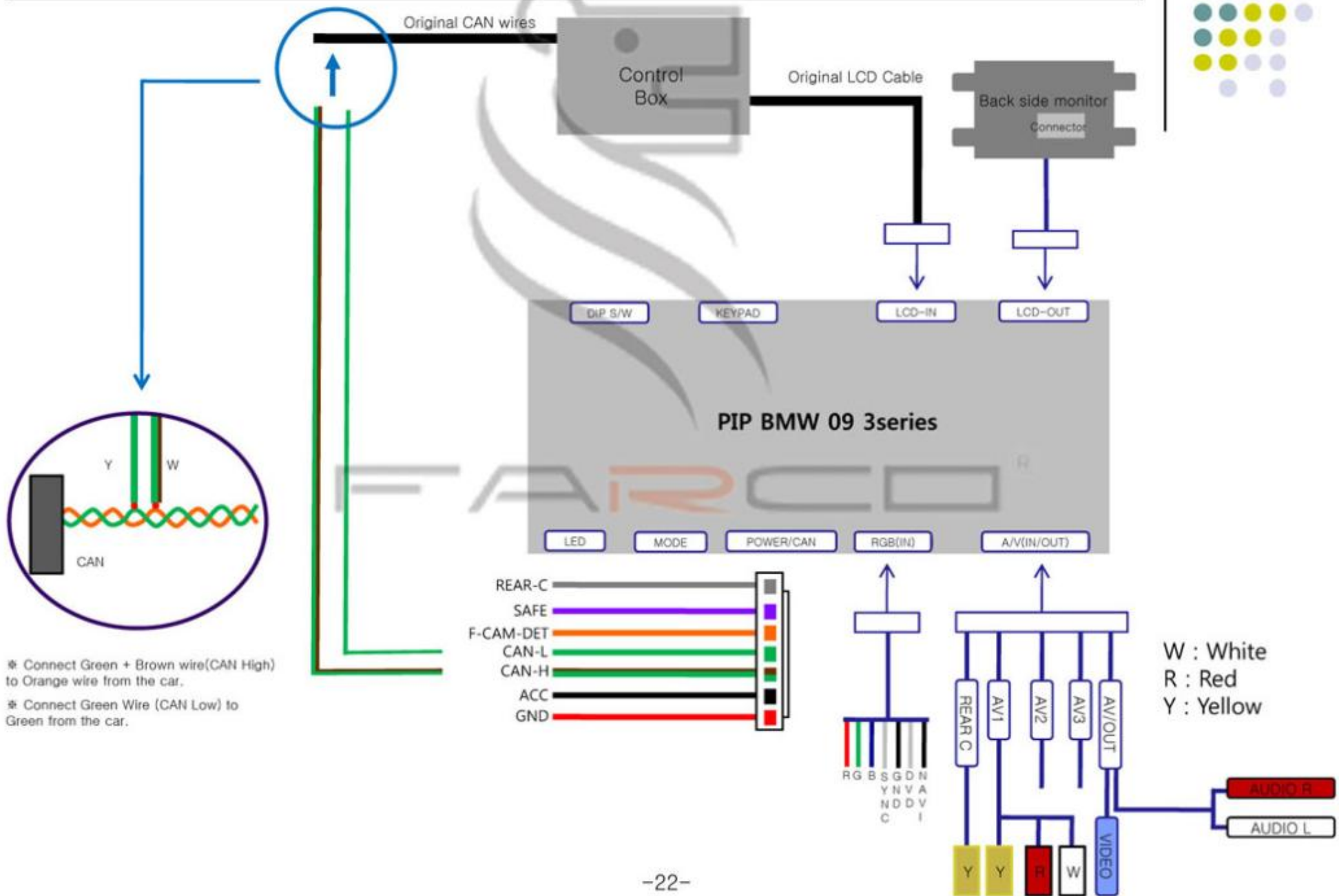
# -Product Composition



OSD Keypad or Remote : 1 EA  
LCD Cable : 1 EA  
Navi Cable : 1 EA  
Toggle Switch : 1 EA

Power Cable : 1 EA  
A/V Cable : 1 EA  
Ground or IR Cable : 1 EA

# -Installation Diagram



- \* Connect Green + Brown wire(CAN High) to Orange wire from the car.
- \* Connect Green Wire (CAN Low) to Green from the car.

# -Installation guide



## 1. Removal of the Front - Monitor

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-Remove the two screws at the monitors top which fix it to the dashboard. Use a torx screwdriver and work carefully. The screws are marked on the picture for better orientation



-At the upper junction between the monitor and the dashboard where you have just removed the screws you can see a small gap. Move the small screwdriver into that junction at any place carefully the display will drop to you out of its mounting.

# Installation guide



## 2.Connecting the Interface



-Connect LCD Out cable (supply part) at the LCD Out socket of the Interface and monitor's right backside.



-Connect the other OEM plug to the LCD IN port at the Interface. Make sure all connections are made correctly the right way as described.

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# -Installation Q & A

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①



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.

②



Q. Screen only displays white like left picture.

A. Check LCD out cable is connected well, if this status keeps, inform to manufacturer.

③



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)

④ 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.

⑤ 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.)

⑥ Q. Unwanted A/V mode is displayed. (A/V source switching order : OEM->RGB->AV1->AV2->AV3)

A. Check DIP Switch Setting.

⑦ Q. OEM image is not displayed.

A. Check interface's LCD In/Out cable connection. If the status keeps on, inform to manufacturer.