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-PIP BMW 09 Feature

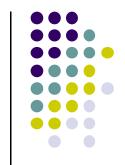
-Clear quality view

-NTSC, PAL Auto detection

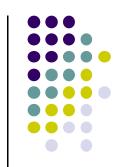
-AV source switching thru genuine button in vehicle.

-Convenient use by remote & keypad

-SAFETY function



-Precaution



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

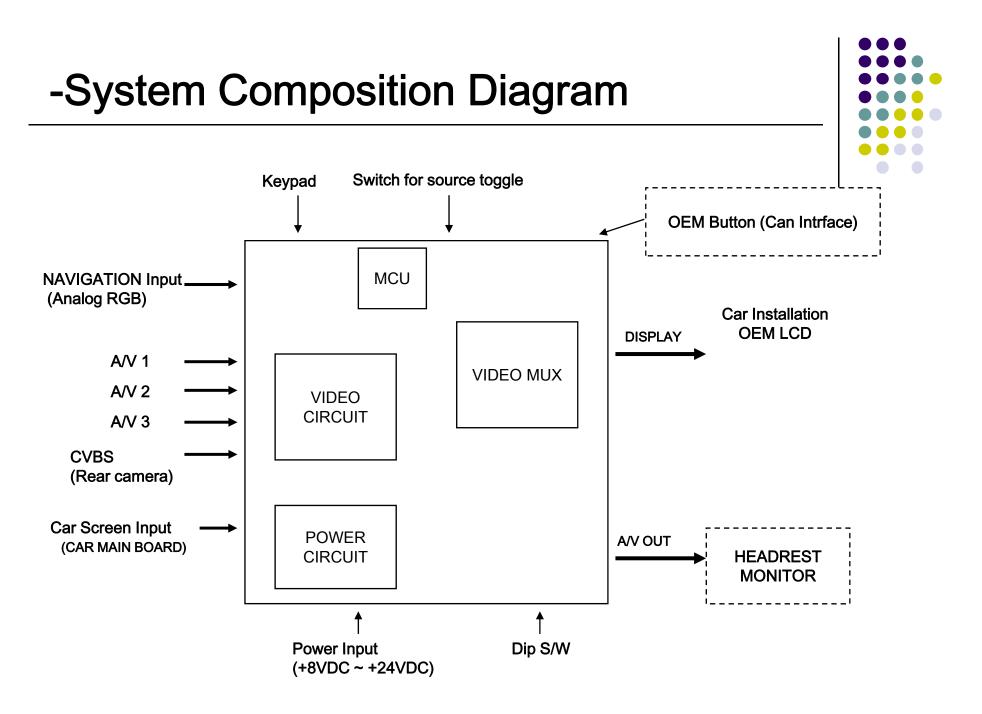
-Main Spec.

- 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)
- 2. Output Spec.

-. 1 x LCD Output

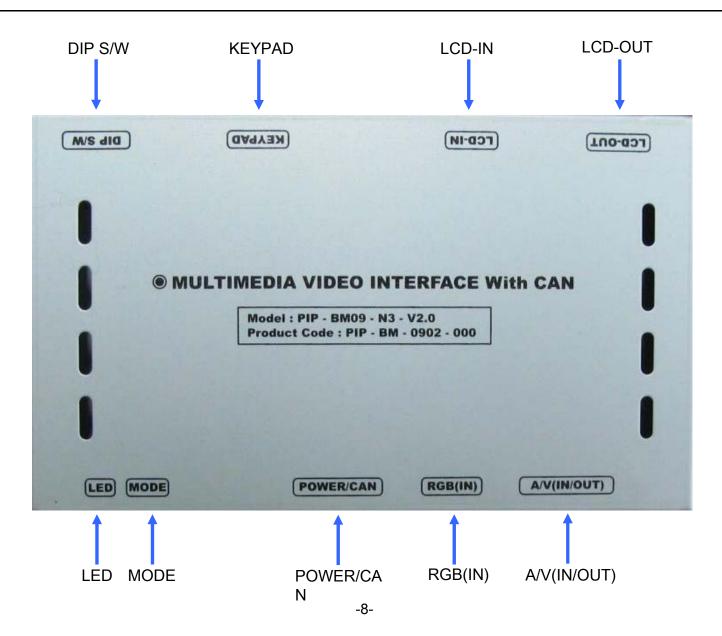
- 3. Power Spec.
 - Input Power : 8VDC ~ 24VDC
 - Consumption Power : 12WATT, Max
- 4. Switch Input mode
 - Input Video MUTE Function : Possible to make each input mute by operating Dip S/W.
- Possible to switch Input mode with Keypad(or Remote control)
- Possible to switch AV3(Front camera) with switch for source toggle
- Detecting rear camera by CAN or rear-lamp wire

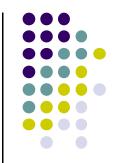






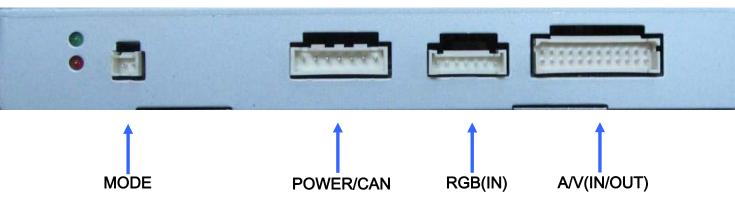
-External Appearance

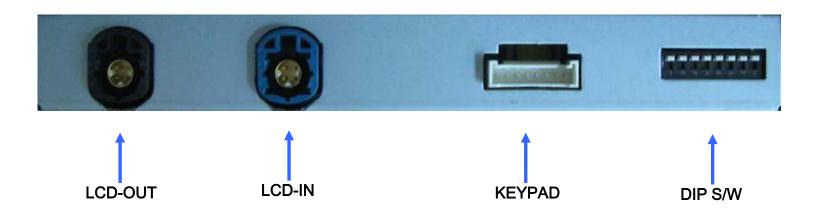


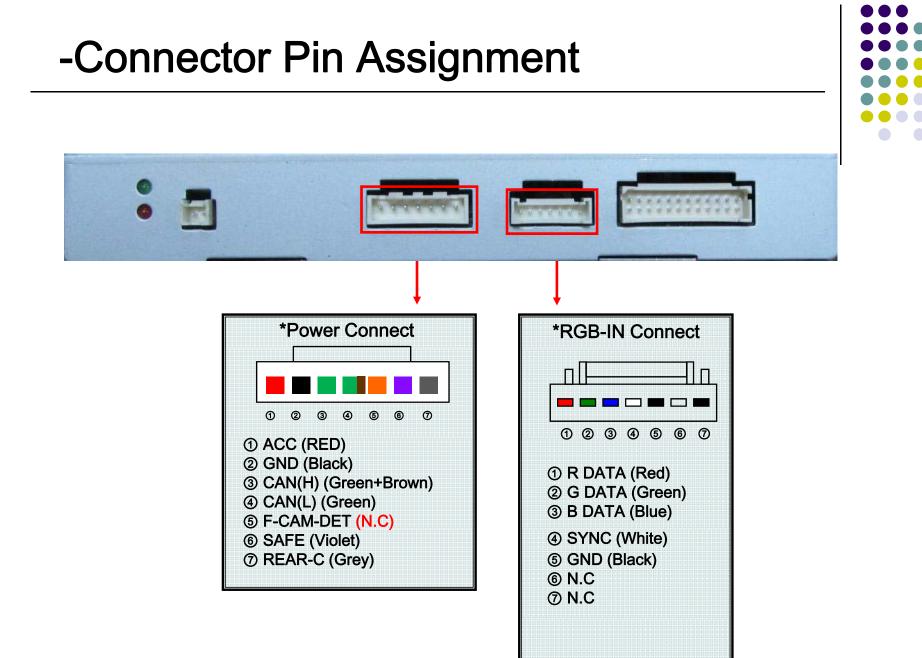


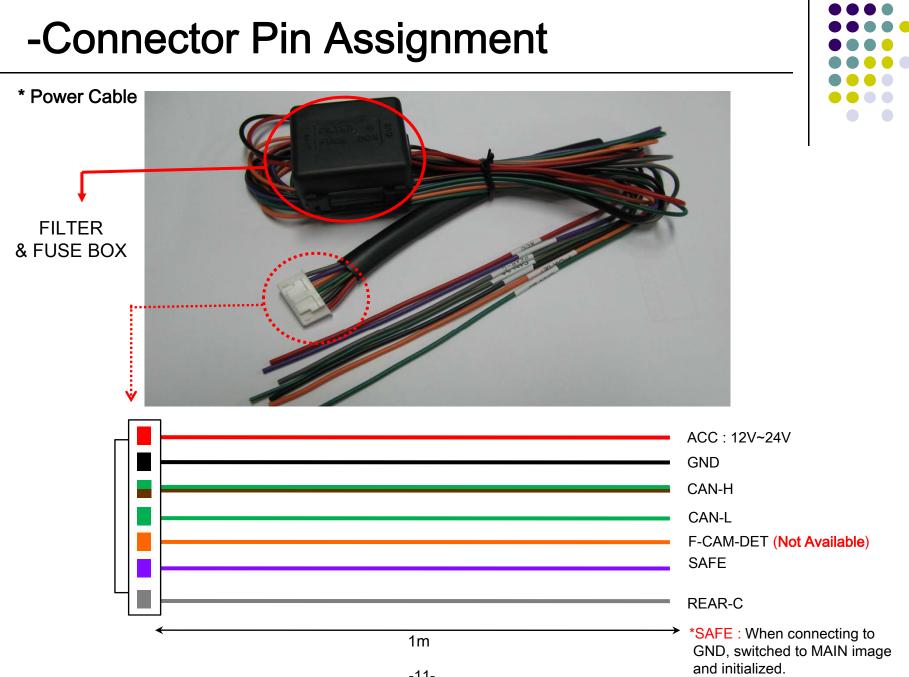
-External Appearance







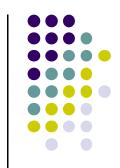




-DIP SW

※ ON : DOWN, OFF : UP ; Default : all OFF

#PI N	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	



- -. 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 : 5,6 -→ OFF
- ▷ DIP S/W : 7 \rightarrow ON ▷ DIP S/W : 8 \rightarrow OFF



-How to use remote

Dimension : 85 * 40 * 8 (mm) – Remote or Keypad (Optional)



POWER&PIP : N.C

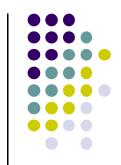
MENU : OSD MENU

OK : Selection

- ▲ : Up , More than 5sec : Operating "SAFE MODE"
- ▼ : Down
- ◄ : Left
- ► : Right

*FACTORY MODE (Interface setting for installer)

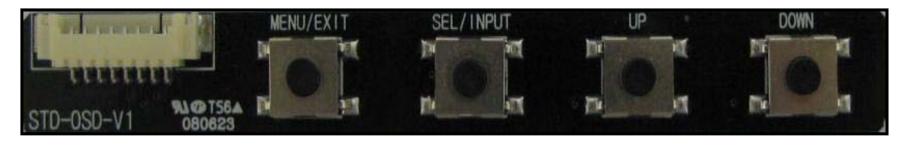
: Operated by pressing ▲ → ▼ → ▲ →MENU of remote or keypad in order.



-How to use Keypad

※ Remote or Keypad (Optional)





MENU : OSD Menu, switching to previous mode.

SEL : Selection in menu, switching AV sources.

UP : Move to Left, Up

DOWN : Move to Right, Down

UP + DOWN at once : Operating "SAFE MODE"

*FACTORY MODE (Interface setting for installer)

: Operated by pressing $\blacktriangle \rightarrow \checkmark \rightarrow A \rightarrow MENU$ of remote or keypad in order.

-Original buttons (E60)

- I-Drive Button



"MENU button" : Long press – Mode switching Short press – Switching to OEM mode

- Steering wheel buttons





button : Long press - Dual screen operation

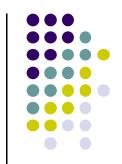


button : Long press - Mode Switching



-Original buttons (E65)

- I-Drive Button





MENU Button : Long press – Mode switching Short press – Back to OEM image ⊽ Button : Long press – PIP function Operation

 In Reverse gear – This function is only available in cars with aftermarket rear camera.
 Button : Long press – PIP function Operation Short press – Positioning Translucent PDC Image

· Analog RGB Mode



MAGE	NAVI BRIGHTNESS
OLOR	CONTRAST
SD	SHARPNESS
TIL	USER IMAGE
	UL DESE MERK A

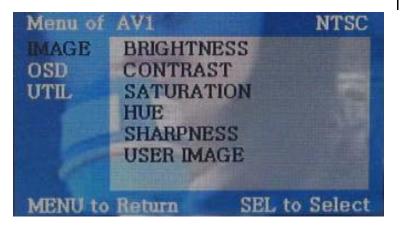
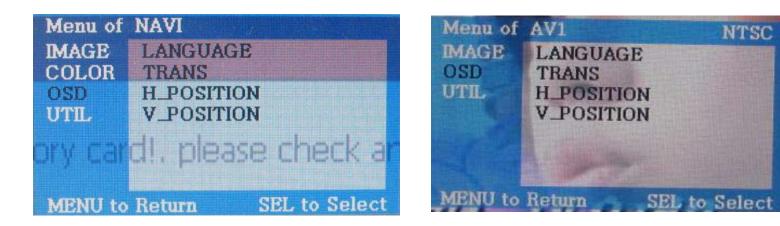


IMAGE Menu :

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

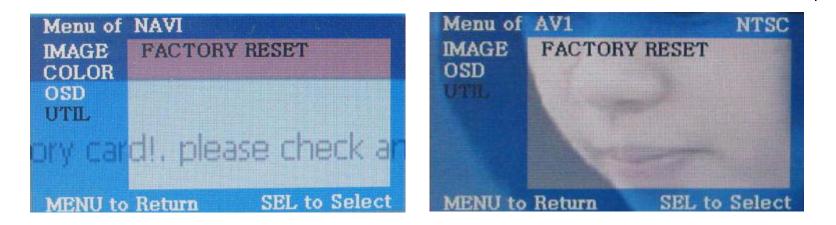
Analog RGB Mode
 Video Mode



OSD Menu

- LANGUAGE
- OSD TRANS
- OSD H_POS
- OSD V_POS

Analog RGB Mode
 Video Mode



UTIL Menu

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

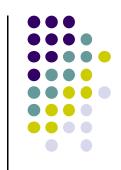
• Factory Mode

-Operated by pressing $\blacktriangle \rightarrow \checkmark \rightarrow A \rightarrow MENU$ 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.



• Factory Mode

-Operated by pressing $\blacktriangle \rightarrow \checkmark \rightarrow A \rightarrow MENU$ of remote or keypad in order.



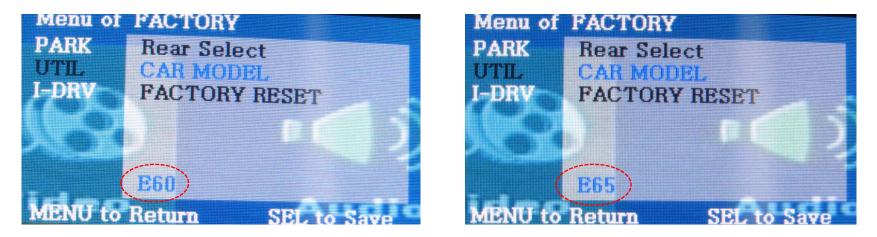
Factory Mode

- 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

• Factory Mode

-Operated by pressing $\blacktriangle \rightarrow \checkmark \rightarrow A \rightarrow MENU$ of remote or keypad in order.

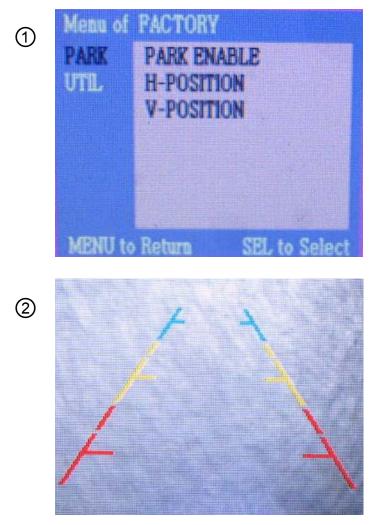


Factory Mode :

- UTIL CAR MODEL : Select one of 2 models
 - : E60 For 3, 5 series.
 - : E65 For 7 series

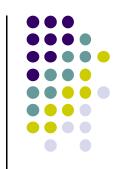
-Rear parking guide line

Factory Default : DISPLAY – ENABLE

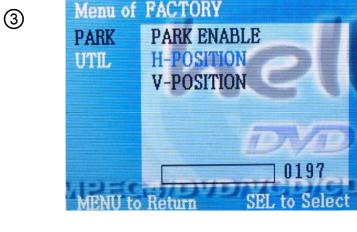


① To get factory mode like left picture, put gear to reverse and press '▲ → ▼ → ▲ →MENU' of remote or keypad.

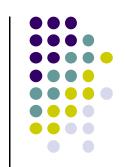
② Select 'PARK ENABLE' to 'ON', then the guide line appears as left picture.



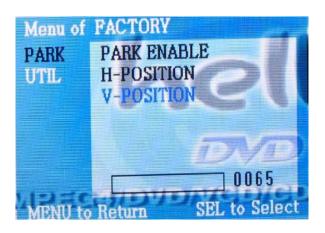
-Rear parking guide line



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







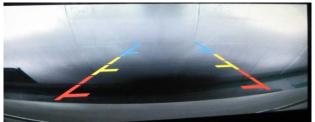
 ④ Also can move the line to up and down in H-POSITON menu.

-Rear parking guide line (E60)

-Rear Display Setting : Select one of 4 displayed types as below by button on the steering wheel.



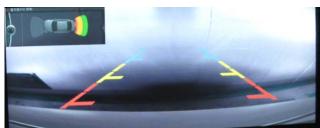
<Full PDC Type>



<Full Rear Camera Type>

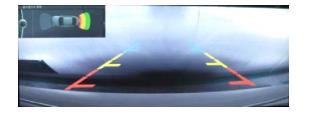


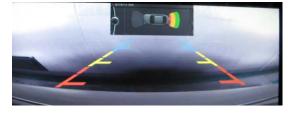
<Dual Screen type>

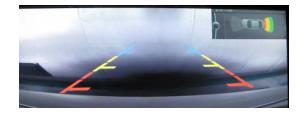


<Full Rear Camera+ Translucent PDC Type>

-Translucent PDC Image positioning : By _____tton on the steering wheel, you can position PDC image to one type of below 3 types.









-Rear parking guide line (E65)

-Rear Display Setting : Select one of 4 displayed types as below by button with long press on I-Drive



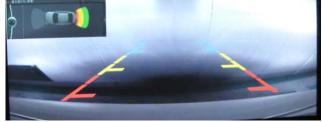
<Full PDC Type>



<Dual Screen type>

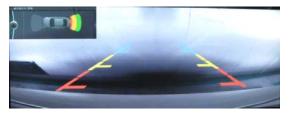


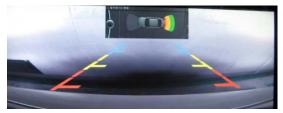
<Full Rear Camera Type>

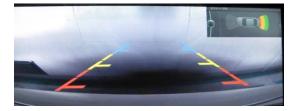


<Full Rear Camera+ Translucent PDC Type>

-Translucent PDC Image positioning : By viton with long press on I-Drive, you can position PDC image to one type of below 3 types.

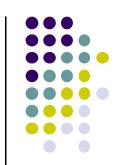






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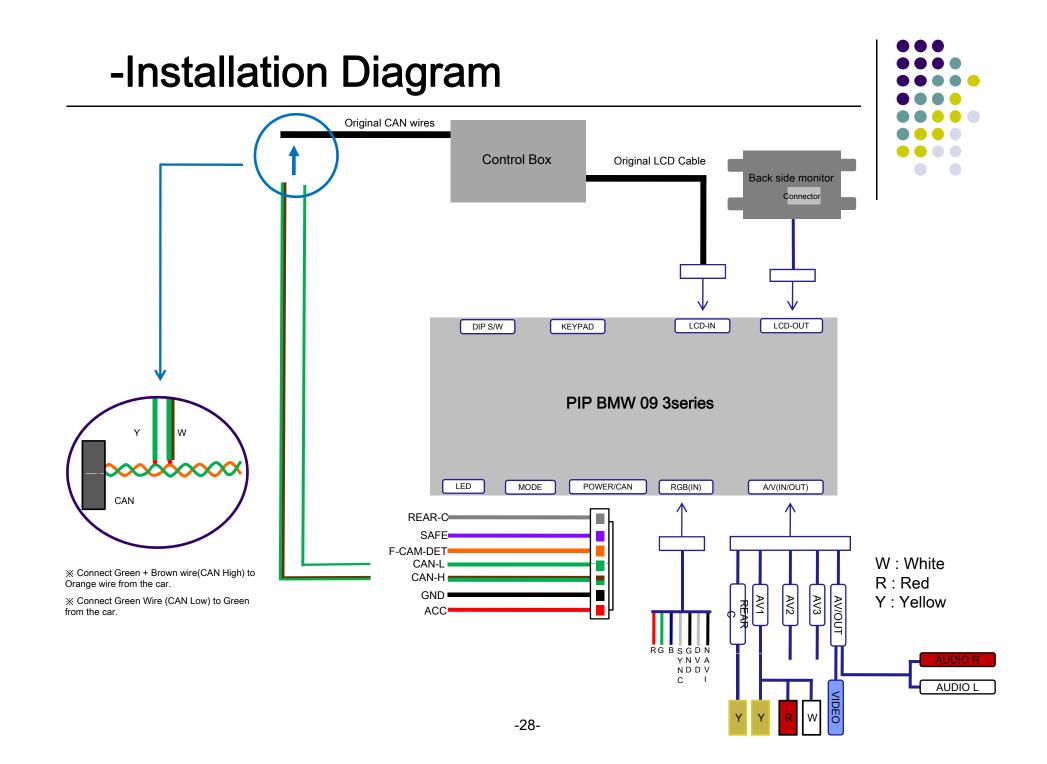
* This function is only available in vehicle with aftermarket rear camera



-Product Composition



OSD Keypad or Remote : 1 EA (Optional) LCD Cable : 1 EA Navi Cable : 1 EA Toggle Switch : 1 EA (Optional) Power Cable : 1 EA A/V Cable : 1 EA Ground or IR Cable : 1 EA



-Installation Manual

1. Monitor separation

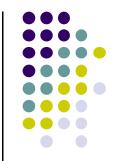




- Remove indicated screws with a proper tool to take apart monitor from the vehicle.



- Pull the monitor out from up to down and take apart it.

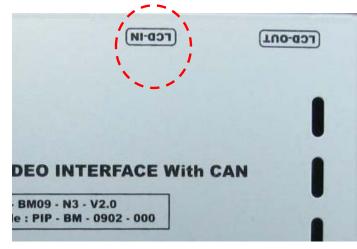


-Installation Manual

2. Connecting Monitor with Interface

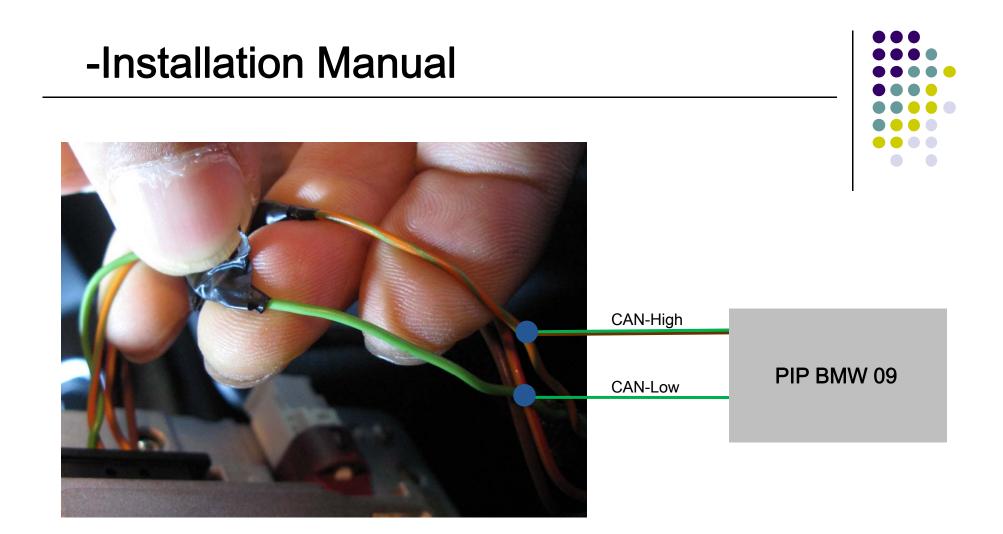


- As left picture, after unplugging the original LCD cable, plug the supplied LCD cable to the indicated connector in the monitor.



-Connect the unplugged original LCD cable to the interface. Make sure all connections are made correctly the right way as described.





As the above picture, the offered CAN High wire (Green+Brown) to OEM CAN high (Green+Orange) wire from car, the offered CAN Low wire (Green) to OEM CAN Low (Green)

-Installation Q & A













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. Screen only displays white like left picture.

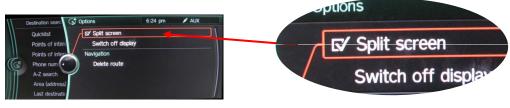
- A. Check LCD out cable is connected well, if this status keeps, inform to manufacturer.
- Q. Rear CAM does not appear, when car is in reverse after CAN wiring.
- A. Operate "FACTORY MODE" like left picture, then select "UTIL \rightarrow Rear Select" If it is set as "LAMP", change it to "CAN" by remote or keypad.
- X 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.
- Once, you starts driving, the screen displays navigation right away, this is not an system error.

Q. After setting PIP function, I got only half OEM image at the right in the screen.

- This is not an error, just caused by user's setting mistake, user should set to "Split Screen" in the OEM menu.



-Installation Q & A

- 6 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.
- ⑦ 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.)
- ③ Q. Unwanted A/V mode is displayed. (A/V source switching order : OEM->RGB->AV1->AV2->AV3)
 A. Check DIP Switch Setting.
- - A. Check interface's LCD In/Out cable connection. If the status keeps on, inform to manufacturer.

