

Release date : 2011.06.30

Model : QVI-W204-Y12-MAIN-V0 / Product code : W204-Y12-1106-001

# MB W204 2011-2012

## C-Class 6.5" LCD

### Specification

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# 1.1 Main specification

## 1. Compatibility

2012Y Mercedes-Benz C-class 6.5 inch

## 2. Multimedia Interface Inputs

3 x **A/V Input** (*for external video source – TV, DVB-T, DVD..., **NTST&PAL auto detection***)

1 x **REAR-C Input** (*for external rear camera source, **NTST&PAL auto detection***)

1 x **Analog RGBCs Input** (*for navigation system, supported Sync on Green*)

1 x **LCD-IN** (*OEM video signal input – round connector*)

## 3. Multimedia Interface Outputs

1 x **LCD-OUT** (*for OEM LCD connection*)

2 x **A/V Output** (*for installed headrest monitors*)

3 x **Select Output** (*12V power comes out from 3 wires by AV1, Navi and Rear-C modes*)

## 4. POWER spec.

Input power : 8VDC ~ 24VDC

Consumption power : 12WATT (*in maximum level*)

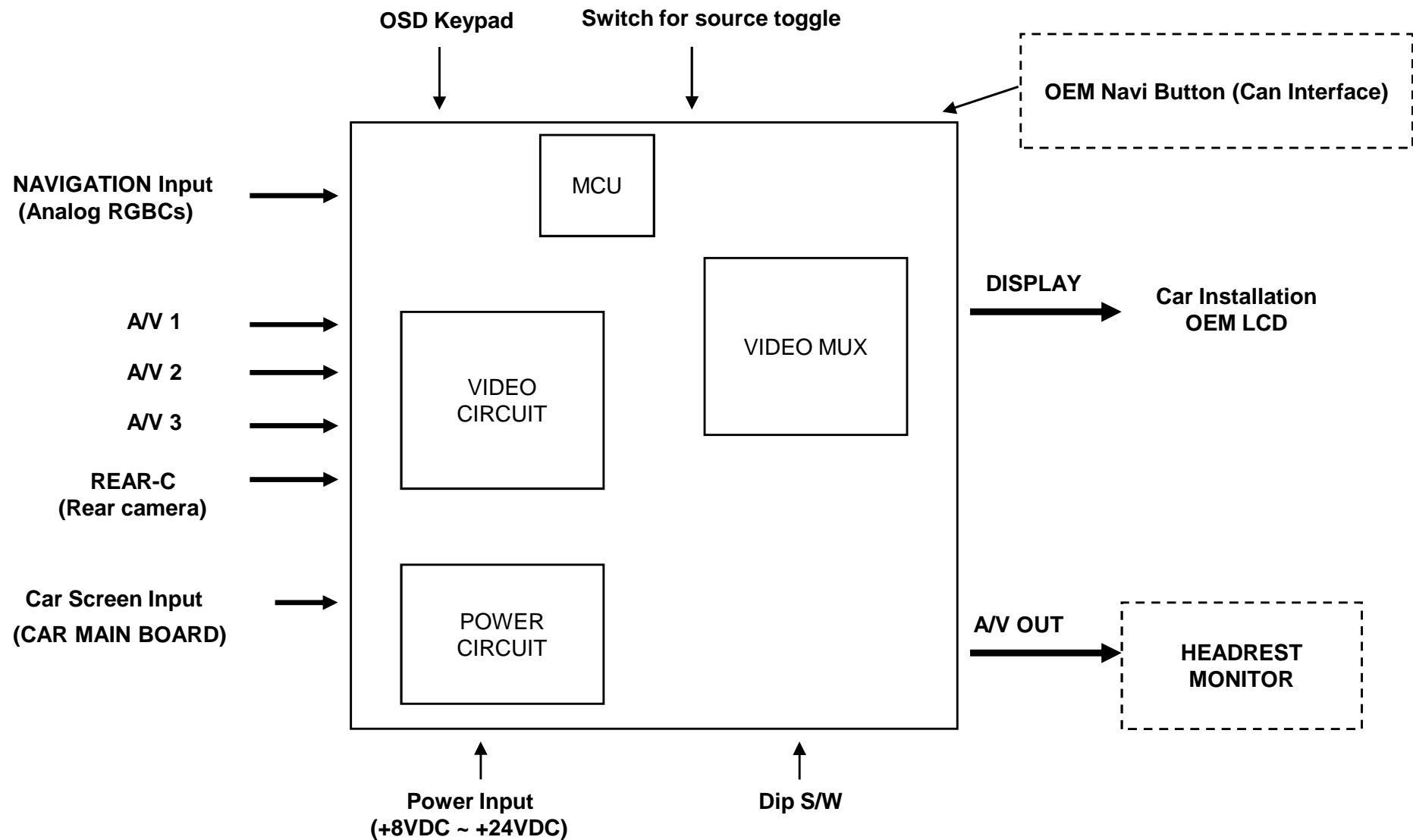
## 5. Switch input mode

- Video input disable: able to select whether to use the respective input video sources or not via DIP switch.
- Able to change input modes via the remote control.
- Able to switch modes via the Toggle switch.
- Able to switch modes via Original button of the car through CAN (*only when CAN wires is connected*).

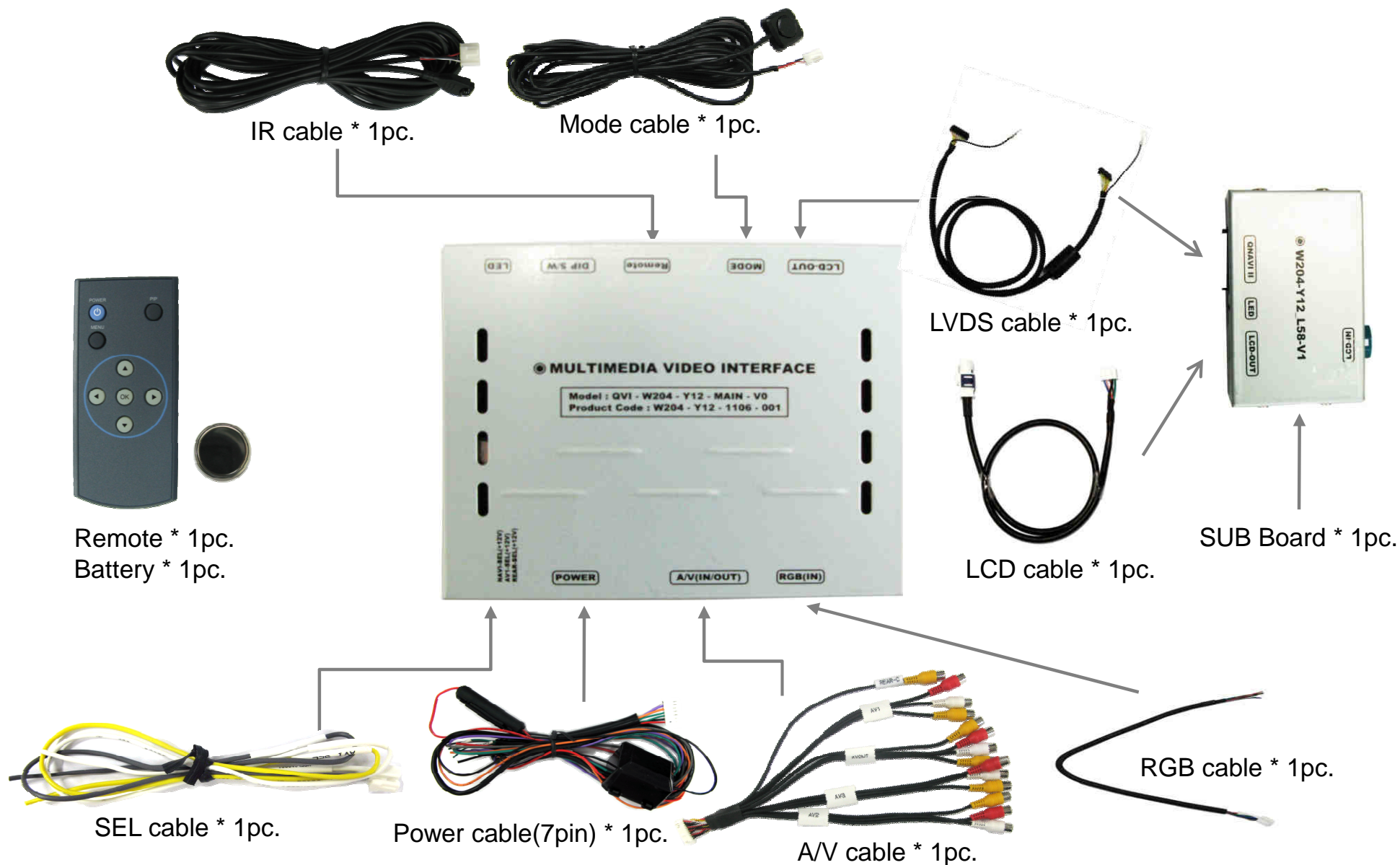
## 1.2 Features

- More convenience to install with plug & play (LVDS cable offered)
- Possible to move the displayed position of DVD, Navigation.
- Improved Display Screen (convenience-oriented Interfaces for users)
- Offered Remote controller for OSD settings.
- Add a safe function (show the main screen while driving)

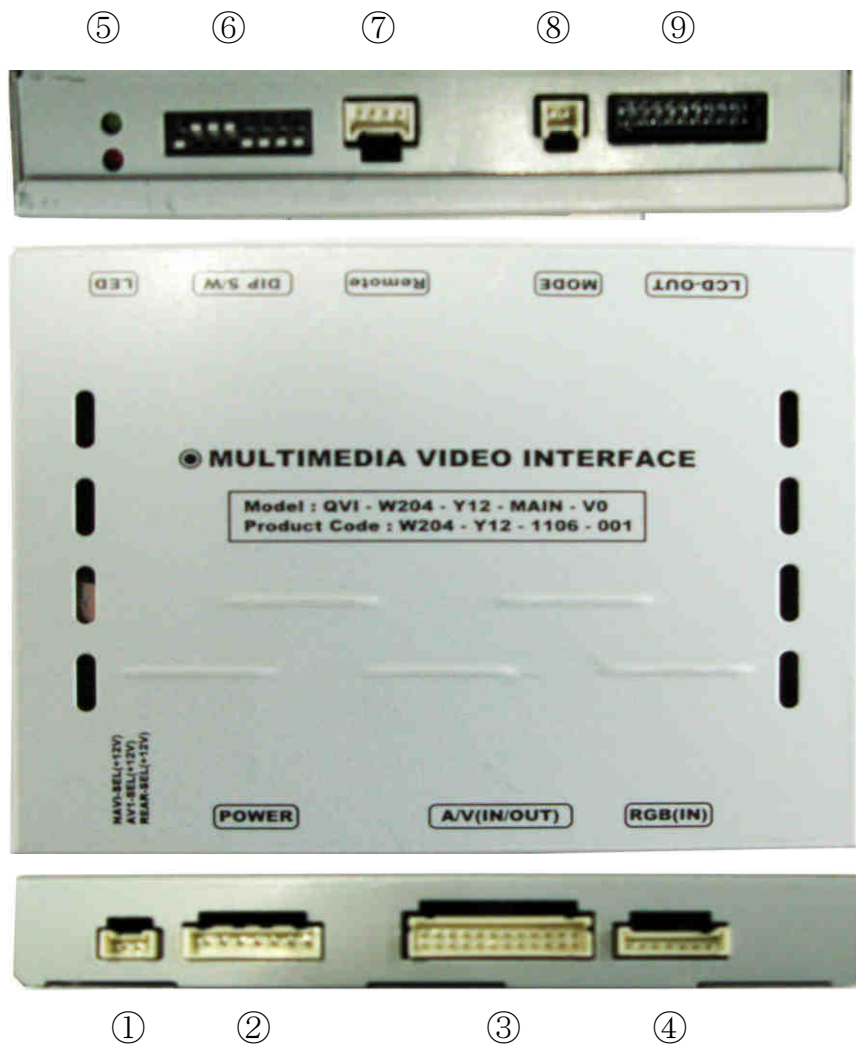
# 1.3 System diagram



# 1.4 Components



# 1.5 Exterior



## Dimension

Horizontal length 125mm  
Vertical length 105mm  
Height 21mm

- ① SEL
- ② POWER
- ③ A/V (IN/OUT)
- ④ RGB(IN)
- ⑤ LED
- ⑥ DIP switch
- ⑦ IR
- ⑧ MODE
- ⑨ LCD-OUT (LVDS OUT)

## - SUB BOARD -

(75\*47\*20)



- ⑩ LCD-IN
- ⑪ QNAVI II (LVDS INPUT)
- ⑫ LED
- ⑬ LCD-OUT

## 2.1 DIP switch

DIP #	Function	Dip S/W Selection
1	RGB Input	ON : RGB Input is OFF OFF : RGB Input is ON
2	A/V1 Input	ON : A/V1 Input is OFF OFF : A/V1 Input is ON
3	A/V2 Input	ON : A/V2 Input is OFF OFF : A/V2 Input is ON
4	A/V3 Input	ON : A/V3 Input is OFF OFF : A/V3 Input is ON
5	Monitor Size	ON : 6.5" LCD (Low-Resolution 400x234, 480x234) OFF : 7" LCD (High-Resolution 800x480)
6		
7	Rear Mode	ON : External Rear Camera OFF : OEM Rear Camera
8	OEM Video Input	ON : OEM Input is OFF OFF : OEM Input is ON

※ ON : DOWN / OFF : UP  
Default setting: DIP #8 is ON

※ DIP S/W usage example:

- Video Inputs: A/V3, RGB, OEM Input is ON
- Rear camera : External camera on REAR-C

- ▷ DIP S/W : 1 → OFF
- ▷ DIP S/W : 2 → ON
- ▷ DIP S/W : 3 → ON
- ▷ DIP S/W : 4 → OFF
- ▷ DIP S/W : 5 → ON
- ▷ DIP S/W : 6 → ON
- ▷ DIP S/W : 7 → ON
- ▷ DIP S/W : 8 → OFF





## 2.2 Remote controller usage

Button	Function
POWER & PIP	<b>NOT USED</b>
MENU	OSD Menu
OK	Making a selection <i>(or video input selection)</i>
▲	Move UP
▼	Move DOWN
◀	Move LEFT <i>(or press 2 sec. - Factory mode)</i>
▶	Move RIGHT <i>(or press 2 sec. – Factory Reset)</i>

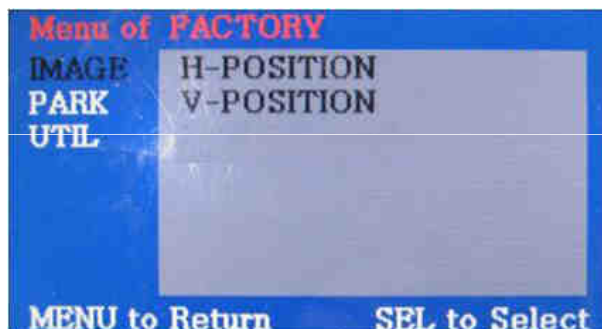


### **\*FACTORY MODE (Interface setting for installers)**

: Operated by pressing ▲ → ▼ → ▲ → MENU buttons or press ◀ more than 2 sec.

## 2.3 Setup for car model & navigation

**FACTORY mode – Press ◀ button more than 2sec. on the remote control.**



### IMAGE

Adjusting the position of navigation

#### \* H-POSITION

: moving in horizontal direction

#### \* V-POSITION

: moving in vertical direction

### UTIL – NAVI MODEL

Definition of the navigation

*(resolution setup of RGB input)*

\* DEFAULT : 480x234, 400x234

\* KD680-NEW : 480x234, 400x234

\* REXTA : 800x480

\* MD7000(WVGA) : 800x480

### UTIL - CAR MODEL

Selecting model of the car

**2012Y W204 6.5 inch ONLY**

### UTIL – Factory Reset

: Initializing of all values of OSD setting.

(Impossible to reset of screen position, only possible for functions in OSD)

## 2.4 Parking guide line setting

**FACTORY mode – Press ◀ button more than 2sec. on the remote control.**



### PARK

- \* PARK ENABLE : Selecting whether to display the parking guide line or not on rear gear (default : OFF)
- \* PARK SETUP : Adjusting the position of the parking guide line (available in PARK SETUP -> V-POSITION, H-POSITION)
- \* SAFE ENABLE : In case of Connecting "Safe" wire from the power cable to the hand break,  
ENABLE – OEM Picture displays in Drive gear position  
DISABLE – No display locked in any gear position



### PARK - ENABLE

- A. If you set 'PARK ENABLE' as "ON" state, there will be the rear view parking guide line. (as shown left picture)
- B. Press the OK button of remote controller, "H\_POS" will be shown on the right and control moving in horizontal direction.

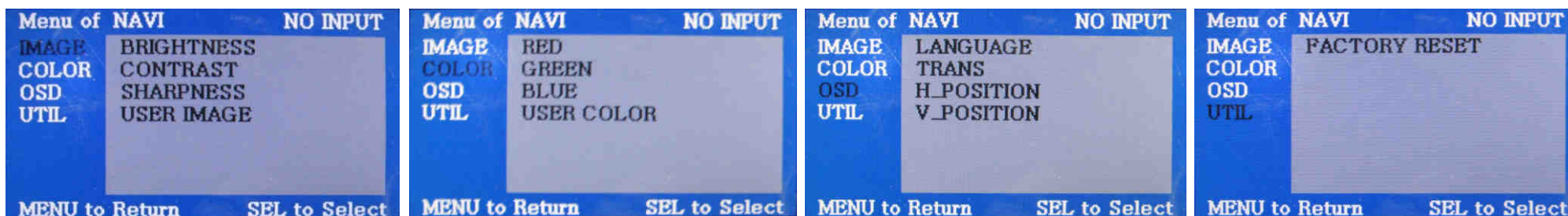


### PARK - ENABLE

- A. Press the OK button of remote controller one more, "V\_POS" will be shown on the right and control moving in vertical direction.

## 2.5.1 OSD (on screen display)

### Analog RGB Mode



#### IMAGE

- \* BRIGHTNESS
- \* CONTRAST
- \* SHARPNESS
- \* USER IMAGE  
: Selecting one among  
4 color options.

#### COLOR

- \* RED : Adjusting red
- \* GREEN : Adjusting green
- \* BLUE : Adjusting blue
- \* USER COLOR  
: Selecting a color option  
among set color options

#### OSD

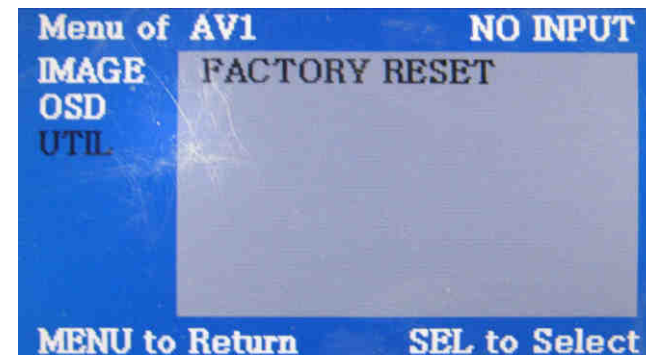
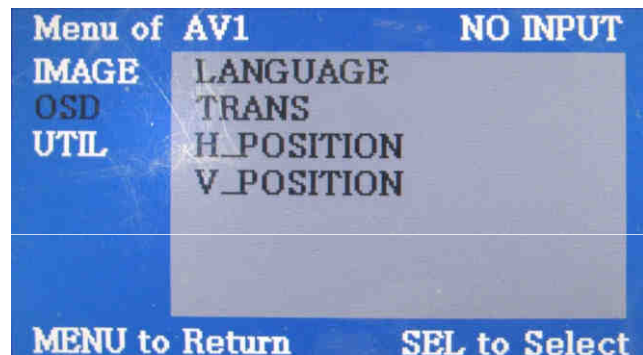
- \* LANGUAGE : Choosing  
interface language while  
changing mode between A/V  
and DVD
- \* TRANS : Adjusting  
transparency of OSD
- \* H\_POSITION,  
V\_POSITION : Positioning  
OSD menu

#### UTIL

- \* FACTORY RESET :  
Resetting all the data about  
the relevant mode that  
applicable to navigation,  
DVD mode respectively.  
(Impossible to reset of  
screen position, only  
available for color, OSD  
setting)

## 2.5.2 OSD (on screen display)

### Video mode (setup for A/V1, A/V2, A/V3)



#### IMAGE

- \* BRIGHTNESS
- \* CONTRAST
- \* SATURATION
- \* HUE
- \* SHARPNESS
- \* USER IMAGE  
: Selecting one among 4 color options.

#### OSD

- \* LANGUAGE : Choosing interface language while changing mode between A/V and DVD
- \* TRANS : Adjusting transparency of OSD
- \* H-POSITION  
: moving in horizontal direction
- \* V-POSITION  
: moving in vertical direction

#### UTIL

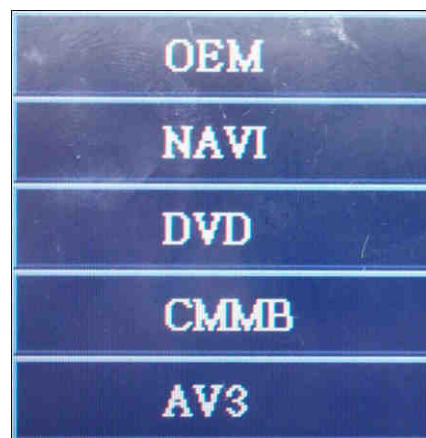
- \* FACTORY RESET : Resetting all the data about the relevant mode that applicable to navigation, DVD mode respectively.  
(Impossible to reset of screen position, only available for color, OSD setting)



## 2.6 Optional functions - OSD implementation

### OSD implementation - DVD

To implement DVD OSD menu, installer must install DVD system on AV1 and connect "DVD IR" cable among navigation cables with remote sensor cable of DVD.

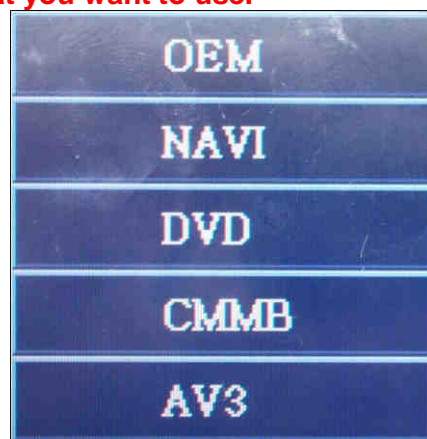
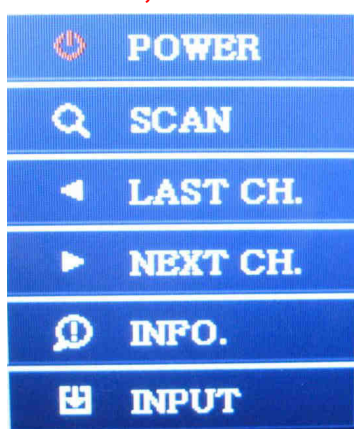


First of all, if you touch the screen on mode "AV1", you can see the menu as shown left. And then if you do NOT touch anything on the screen 5 seconds or more long; or if you touch the screen except the menu, the menu will disappear. At that time, if you choose "INPUT", you can get out of the menu and see the mode change menu.(left picture)

Here is a picture of the mode change menu. If you select the channel which you want, then the channel will be changed to that.(right picture)

### OSD implementation - CMMB, NAVI

DVD, DMB, navigation menu is available in English or Chinese. After implementing OSD menu with pushing "MENU" button on remote controller, choose the language that you want to use.



As shown above, if you touch the screen on mode "AV2", you can see the menu as shown left. And then if you do NOT touch anything on the screen 5 seconds or more long; or if you touch the screen except the menu, the menu will disappear.(left picture)

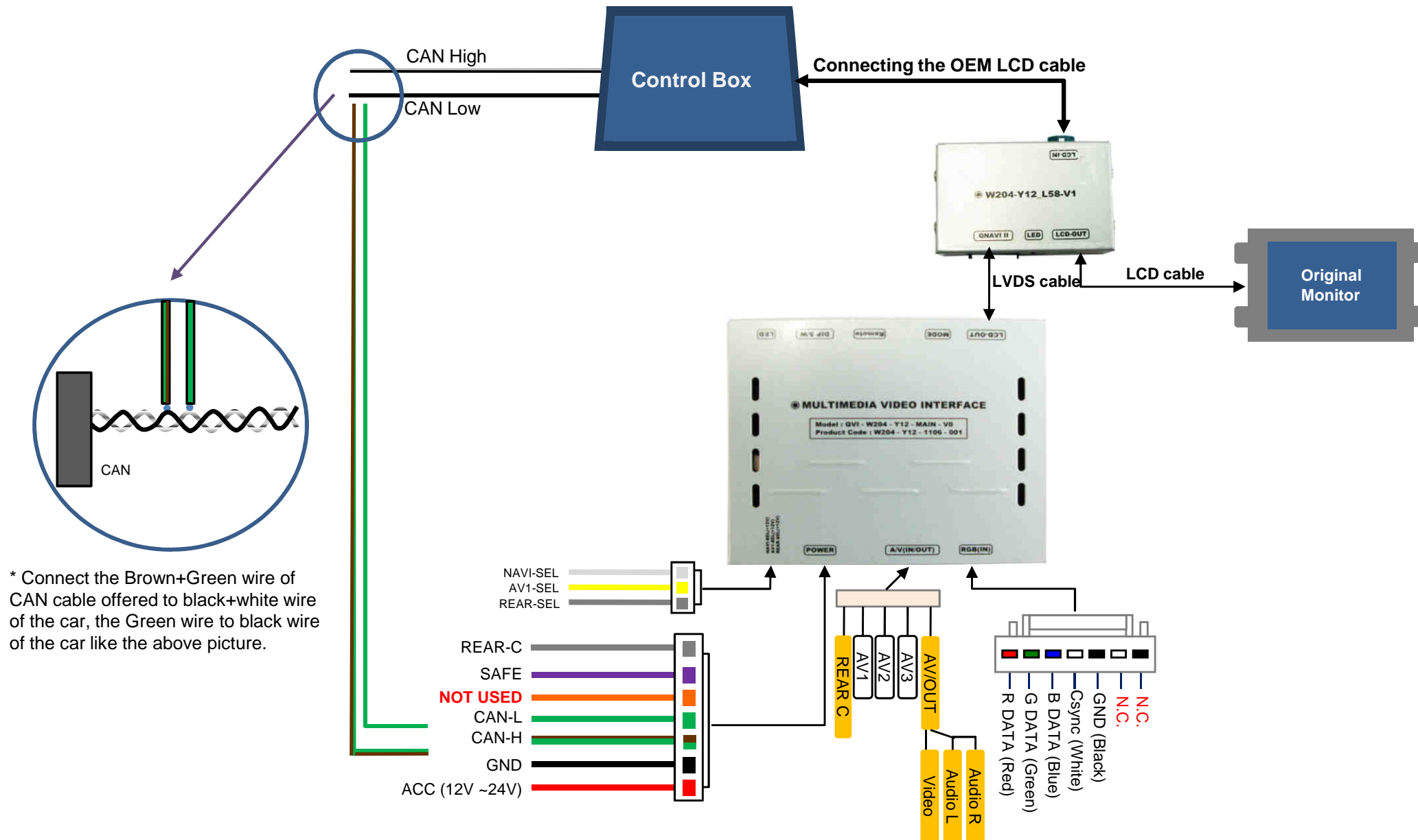
Here is a picture of the mode change menu. If you select the channel which you want, then the channel will be changed to that.(right picture)

※For adding this optional functions, you have to send the DVD or DTV that will be used to connect the interface, and the MOQ requires over than 70pc.

## 3.1 Cautions on installation

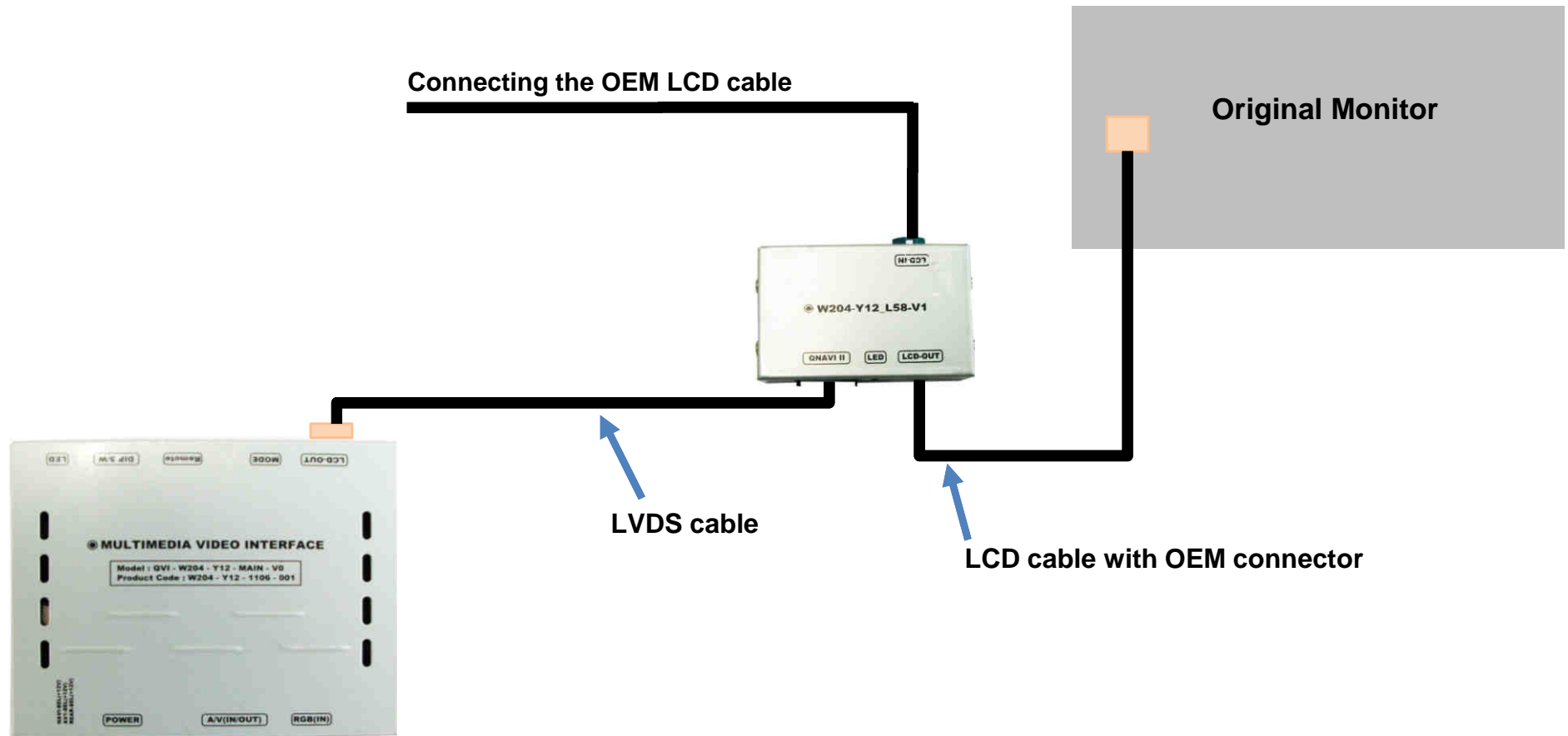
- Ignition key should be taken off before starting installation, interface power connection must be the last step in installation.
- Power cable should be separated when connecting interface.
- Should be no any electronic devices or magnetic pole around installation place.
- All steps of installation 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.

## 3.2 Installation diagram





## 3.2.1 Installation diagram



Connect OEM LCD cable into LCD-IN input of the interface sub board and offered LCD-Out cable into back of the Original Monitor.

## 4. Troubleshooting

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.

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. 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.)

Q. I can watch the rear camera on the screen

A. Set the DIP switch #7 as state "ON".

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

A. Check DIP Switch Setting.

Q. OEM image is not displayed.

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

Q. Screen only displays white color.

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

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

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

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)

Q. After moving gear to "P" or "D" from "Reverse", I can't get navigation, but half PDC Image in the screen.

A. Once, you starts driving, the screen displays navigation right away, this is not an system error.