

W204

2012, 6 inch

Specification

Your best partner for better driving

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1.1 Main specification

1. Compatibility

2012Y Mercedes-Benz C-class 6.5 inch

2. Product composition

Multimedia Interface (made for specific models) * 1ea

Sub-board (made for specific models) * 1ea

3. MULTIMEDIA INTERFACE input spec.

3 * A/V (NTST&PAL) input

1 * CVBS (rear camera) input. (rear camera source)

1 * Analog RGB (Sync on Green)

1 * LCD input (car system input)

4. MULTIMEDIA INTERFACE output spec.

1 * LCD output(LCD Operation)

1 * Audio OUTPUT

2 * CVBS OUTPUT(Video Out for installing Headrest monitor)

5. POWER spec.

Input power : 8VDC ~ 24VDC

Consumption power : 12WATT (in maximum level)

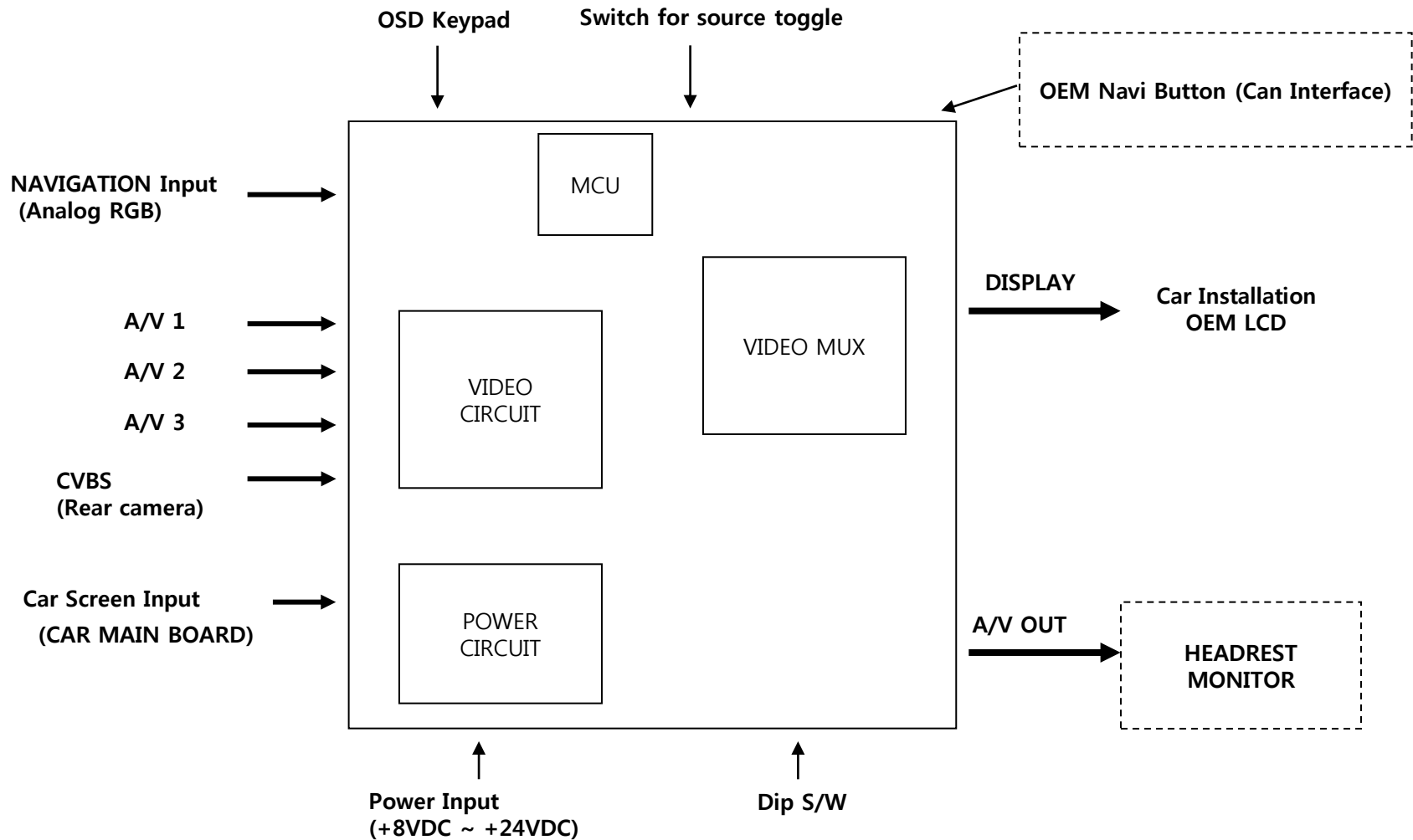
6. Switch input mode

- Input video skip function : able to select whether to use the respective input video sources or not via DIP switch.
- Able to change input modes via the remote controller.
- Able to switch modes via the Toggle switch.
- Able to switch modes via Original button of the car through CAN.

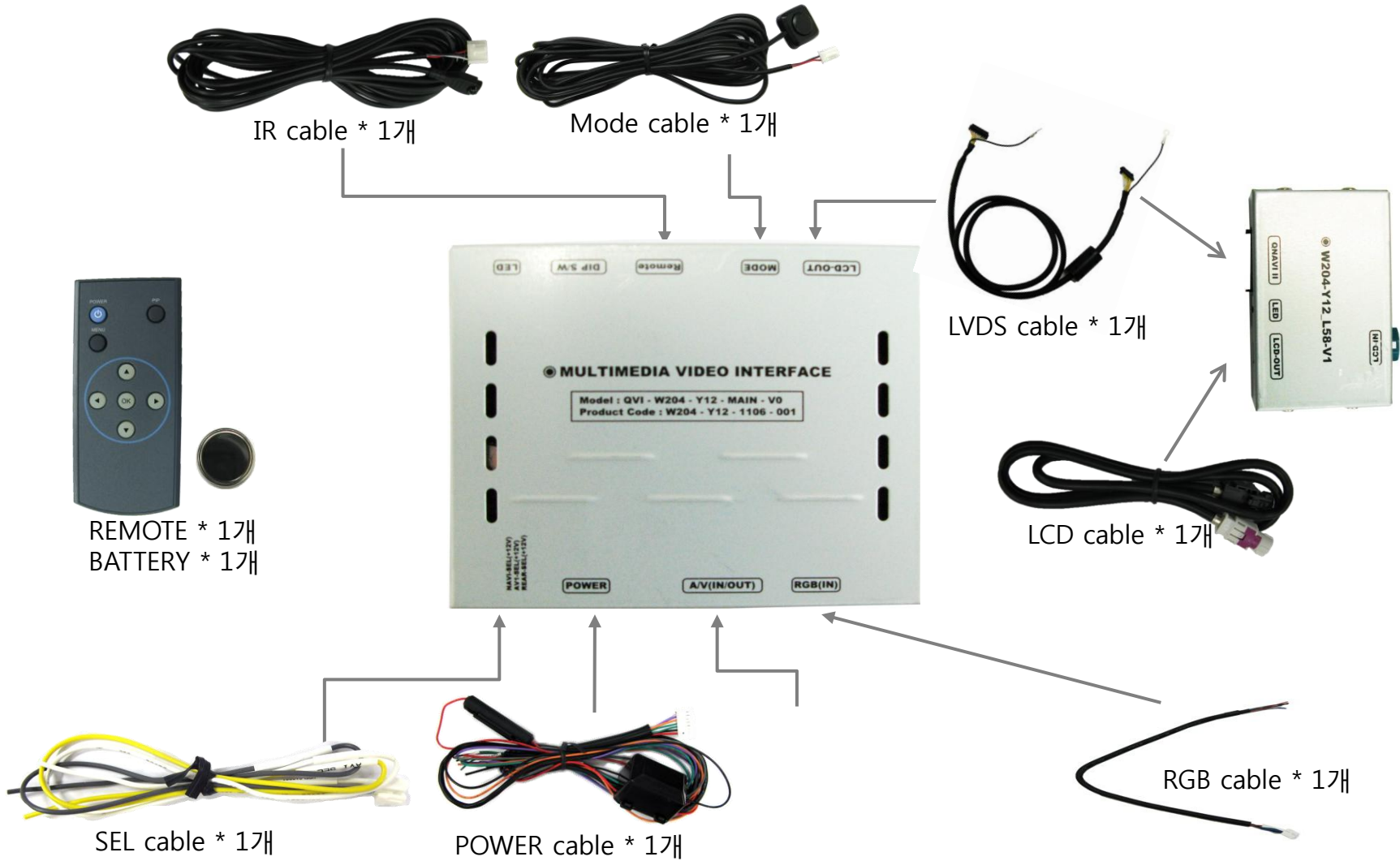
1.2 Features

- 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)

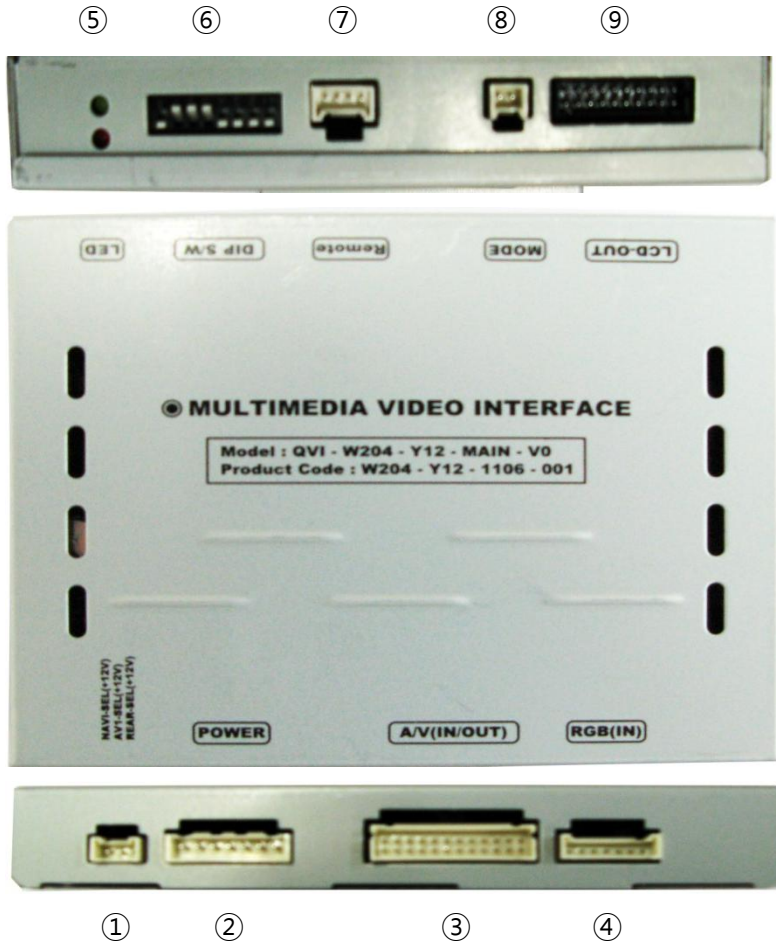
1.3 System diagram



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

- SUB BOARD -

(75*47*20)



- ⑩ LCD-IN
- ⑪ QNAVI II
- ⑫ LED
- ⑬ LCD-OUT

2.1 DIP switch

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	Car Models	ON : 2012 W204 6.5 inch (Only this Dip s/w setting available)
6		
7	Rear Mode	ON : External Rear Camera OFF : OEM Rear Camera
8	OEM Navi Mute	ON : In case of OEM Navi installed OFF : In case of OEM Navi not installed

※ ON : DOWN / OFF : UP
Default : ON (DIP #8)

※ DIP S/W usage example
- Input Mode : A/V3, Navigation (RGB)
- When original Navigation is not installed
- 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 (displaying A/V3)
- ▷ DIP S/W : 5,6 → ON
- ▷ DIP S/W : 7 → ON (displaying CVBS4)
- ▷ DIP S/W : 8 → OFF



* This interface is only available in 2012 W204 6.5 inch, dip s/w 5, 6 shall be down position always.

2.2 Remote controller usage

<i>Key</i>	<i>Function</i>
POWER & PIP	Unavailable
MENU	Activating OSD menu
OK	Making a selection, changing image display
▲	Moving upward
▼	Moving downward
◀	Moving leftward (If you press this button 5 seconds long, you can get access to the factory mode.)
▶	Moving rightward (If you press this button 2 seconds long, you can reset all the data about user environment.)

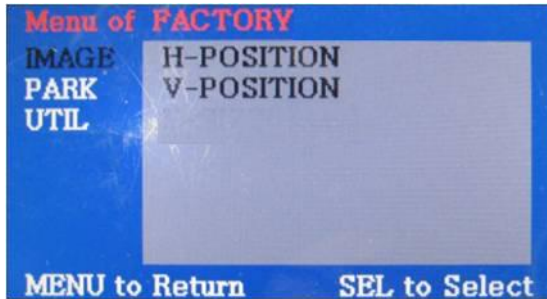


*FACTORY MODE (Interface setting for **installer**)

: Operated by pressing ▲ → ▼ → ▲ → MENU button or press ◀ more than 5seconds long on the remote controller.

2.3 Setup for car model & navigation

FACTORY mode – Press ◀ button 5 seconds long on the remote controller.



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

- * DEFAULT : Default
- * KD680-NEW : for Chinese
- * REXTA : for domestic use
- * MD7000(WVGA) :
high definition(WVGA),
for domestic use

UTIL - CAR MODEL

Selecting model of the car

2012Y W204 6.5 inch ONLY

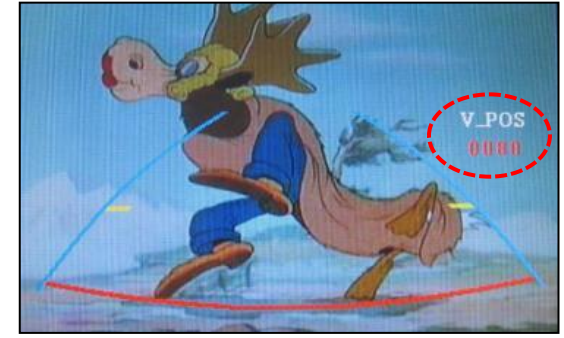
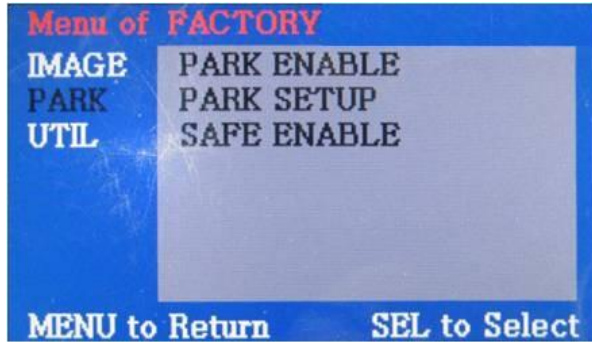
UTIL – Factory Reset

: 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 5 seconds long on the remote controller.



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

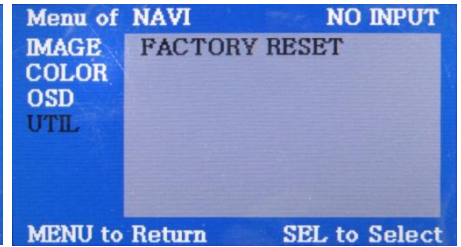
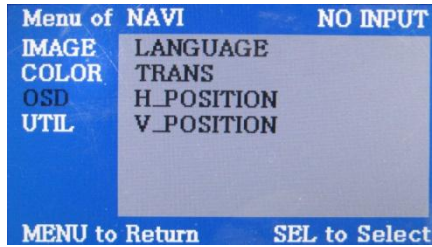
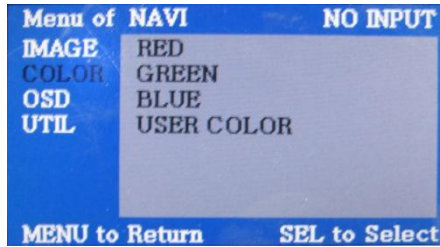
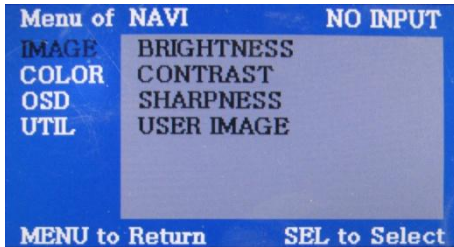
- A. If you set 'PARK ENABLE' as "ON" state, there will be the rear view parking guide line. (as shown left picture)
- B. Press the OK button of remote controller, "H_POS" will be shown on the right and control moving in horizontal direction.

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

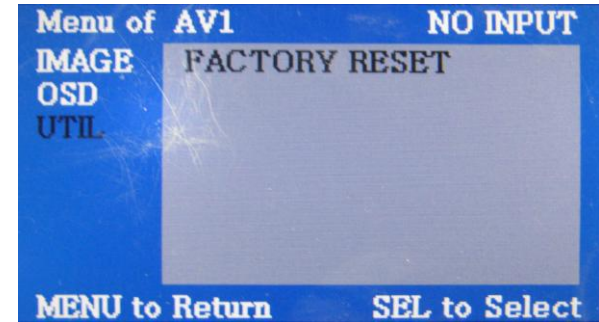
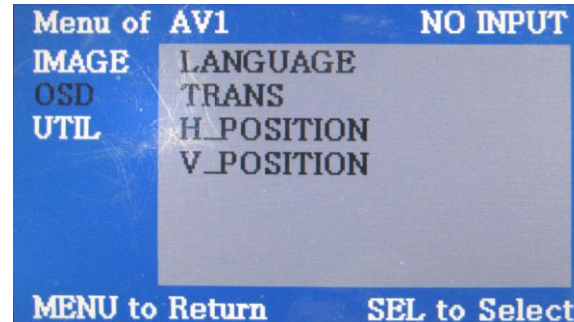
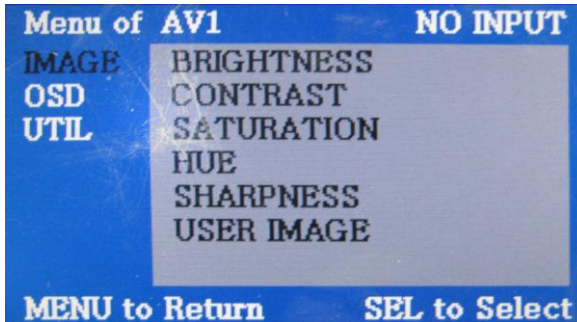
- * LANGUAGE : Choosing
interface language while
changing mode between
A/V and DVD
- * TRANS : Adjusting
transparency of OSD
- * H_POSITION, V_POSITION :
Positioning OSD menu

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



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

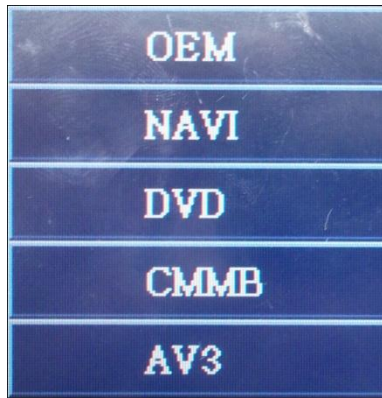
UTIL

- * 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.

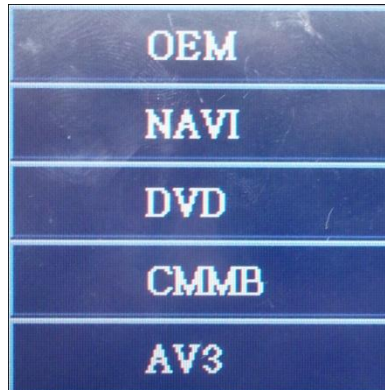
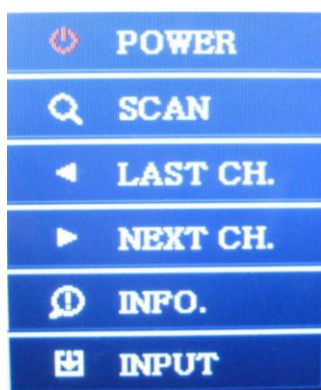


First of all, if you touch the screen on mode "AV1", you can see the menu as shown left. And then if you do NOT touch anything on the screen 5 seconds or more long; or if you touch the screen except the menu, the menu will disappear. At that time, if you choose "INPUT", you can get out of the menu and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

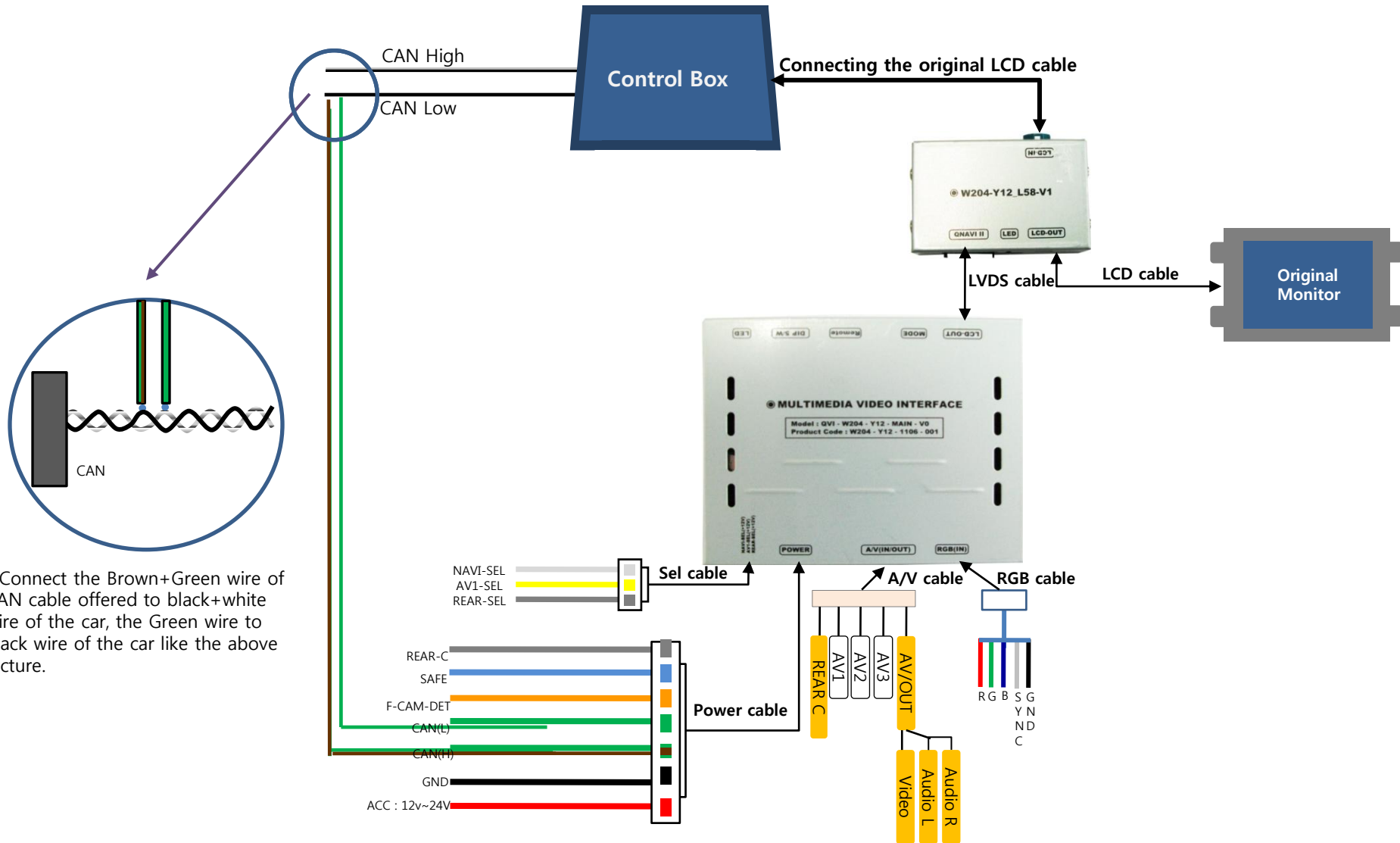


As shown above, if you touch the screen on mode "AV2", you can see the menu as shown left. And then if you do NOT touch anything on the screen 5 seconds or more long; or if you touch the screen except the menu, the menu will disappear.(left picture)

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 70EA.

3.1 Installation



* Connect the Brown+Green wire of CAN cable offered to black+white wire of the car, the Green wire to black wire of the car like the above picture.

3.2 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.

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.