# RGB High-End CONVERTER SPECIFICATION



-. MODEL: PIP-RGB-HE-STD-V5 -. PRODUCT CODE : PIP-RG-0810-861

### INDEX

Precaution	3
RGB High-End Feature	4
Main Spec	5
System Composition	6
Outline Dimension	7
External Appearance	8
Connector Pin Assignment	10
DIP Switch Setting	13
How to use Remote	14
OSD (On Screen Display)	15
Solder point	20
How to use parking guide line	21
Product Composition	23
Installation Structure	24
- FΔO	25



### Precaution

- 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.



- -. PIP (picture in picture) Function (Only available on navigation mode)
- -. Auto detection for NTSC & PAL&SECOM signals.
- -. Parking Guide Line function added
- -. "Sync On Green" supported (Auto detection)
- -. Toggle Switch is offered
- -. OSD Menu added (Controlled by Remote)

### Main Spec.

- 1. Input Spec. (MULTI VIDEO INTERFACE)
  - -. 3 x AV Input (External video source).
  - -. 1 x CVBS (REAR CAMERA) Input (Rear camera source)
  - -. 1 x Analog RGB Input (Car commander original monitor output)
  - -. 1 x Analog RGB Input (Navigation System output)-→OPTION

#### 2. Output Spec.

- -. 2 X CVBS OUTPUT (Video Out for installing Headrest monitor)
- -. 1 x Audio OUTPUT
- -. 1 X LCD OUTPUT(LCD Operation)
- -. 4 X Audio Select Output

#### 3. Power Spec.

- Input Power : 8VDC ~ 24VDC
- Consumption Power : 5WATT, Max
- 4. Switch Input mode
  - NAVI/CVBS1,2 Original MUTE Function : Possible to mute each input by operating Dip S/W
  - Possible to switch Input mode with remote control or toggle switch.
  - Rear View Camera mode : When to sense rear gear power, be switched to Rear view camera mode (Impossible to switch to rear mode with Toggle S/W or the

Remote control)













#### **Connector Pin Assignment** 0 -----\*LCD(IN/OUT) Connect 1 2 3 4 5 6 7 8 9 10 11 12 13 14 ① RSVD : Grey 2 OPTION SW: Orange ③ MODE SW: Brown (4) +9V OUT : Yellow (5) GND : Black 6 CS OUT : White ⑦ B-OUT : Blue (8) G-OUT : Green 9 R-OUT : Red 10 GND : Black (11) SYNC : White (12) OEM B : Blue 13 OEM G : Green (14) OEM R : Red





### **DIP SW**

#### \* ON : DOWN, OFF : UP

#PIN	FUNCTION	DIP S/W Selection
1	RGB INPUT MUTE	ON : Skipping RGB Mode OFF : RGB Display
2	AV1 MUTE	ON : Skipping AV1 OFF : AV1 Display
3	AV2 MUTE	ON : Skipping AV2 OFF : AV2 Display
4	AV3 MUTE	ON : Skipping AV3 OFF : AV3Display
5	OEM MUTE	ON:Skipping OEM OFF:OEM Display
6	N.C	SOLUI
7	REAR MODE	ON:External Rear Camera OFF:OEM Rear Camera
8	N.C	



#### %DIP S/W Use Example

#### [W211]

- -. Use Input Mode : AV1, Navigation (RGB), Main
- -. Rear Camera : When to be installed on CVBS 4

$\triangleright$	DIP	S/W	: 1	$\rightarrow$	OFF		
$\triangleright$	DIP	S/W	: 2	$2 \rightarrow$	OFF		
$\triangleright$	DIP	S/W	: 3	3 →	ON		
$\triangleright$	DIP	S/W	: 4	1 →	ON		
$\triangleright$	DIP	S/W	: 5	$5 \rightarrow$	OFF		
$\triangleright$	DIP	S/W	: 6	$\rightarrow$	OFF		
$\triangleright$	DIP	S/W	: 7	$\rightarrow$	ON (	enable	CVBS4)
$\triangleright$	DIP	S/W	: 8	3 <del>)</del>	• OFF		



### How to use Remote

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





\* Displayed POP image position can be controlled by remote as below.









 $\cdot$  Analog RGB Mode

. \	Video	Mode
-----	-------	------

Menu of	NAVI	Menu of AV3 NTSC
IMAGE COLOR OSD UTIL	BRIGHTNESS CONTRAST SHARPNESS USER IMAGE	IMAGE BRIGHTNESS   OSD CONTRAST   OSD SATURATION   HUE SHARPNESS   USER IMAGE
MENU to	Beturn SEL to Sele	MENU to Return 1 SEL to Select

#### IMAGE Menu

- BRIGHTNESS
- CONTRAST
- -SHARPNESS
- SATURATION
- -HUE
- -USER IMAGE (N.C)

· Analog RGB Mode

#### · Video Mode



#### OSD Menu

- -LANGUAGE : (Only available for English)
- -TRANS
- -H\_POSITION : Move the position of AV sources to Left, Right
- -V\_POSITION : Move the position of AV sources to Up, Down

· Analog RGB Mode

#### · Video Mode



#### UTIL Menu

-FACTORY RESET : Initializing of all values of OSD setting

· Factory Mode

- Factory mode is activated by pressing  $\blacktriangle \rightarrow \blacksquare \rightarrow MENU$  buttons of the remote.



#### Factory Mode :

- OLUTIONS
- PARK PARK ENABLE
  - H-POSITION
  - V-POSITION
- UTIL BUTTON : Car Model Setting for using Navi button (Refer to the next page for details)
  - FACTORY RESET : Initializing







# **Solder Point for Navi button**

#### ◎ Soldering the orange wire in LCD In/Out cable to each indicated solder point below.



Cayenne 05~08 year (Navi button) (4th Pin from Up)



W211 ~08 year (Navi button) (5<sup>th</sup> Pin from Right)



Phaeton (Navi button) (5th Pin from Right)

**XDo not have to solder for W164 U.S** Version

(END button used)



### How to use parking guide line

#### Factory Default : DISPLAY - DISABLE



 When the car gear is in reverse, Enter to the Factory mode by
▲ → ▼ → ▲ → MENU button of remote. Then, the left image will be displayed on the screen.

- ② Set "PARK ENABLE" to "ON" on the park mode, then the line will be displayed like the pic no. 2
- \* If you would like to remove this line, just select "Off" on the above process.

### How to use parking guide line





③ Can move the line with H-Position on the factory mode.



(4) Can move the line with V-Position on the factory mode.

### **Product Composition**





Power Cable : 1 EA Toggle Switch : 1 EA LCD IN/OUT Cable : 1 EA AV Cable : 1 EA **RGB NAVI Cable : 1 EA** IR 케이블 : 1 개 리모컨 : 1 개

### **Installation Structure**



## -FAQ

- 1. When can not change mode.
- -. Check if the IR Cable (Remote) 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 all video 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)
- -. Please try to reset color value by OSD setting, 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.

