



2012~2016 BMW NBT

WIRELESS CARPLAY

WIRED CARPLAY

WIRED ANDROID AUTO

VIDEO INTERFACE MANUAL

CP24F

COMPONENTS



CP24F

Car Brand	Model	Year Range	System
BMW NBT	CP24F	2012~2016	NBT

COMPONENTS

1 MAIN UNIT



2 POWER CABLE



3 USB&MIC CABLE



4 LVDS OUT CABLE



5 ANTENNA



6 AV IN/OUT CABLE



※ OPTION ※

7 AV GENDER CABLE



※ OPTION ※

8 AV GENDER BOARD



※ OPTION ※

9 IR CABLE



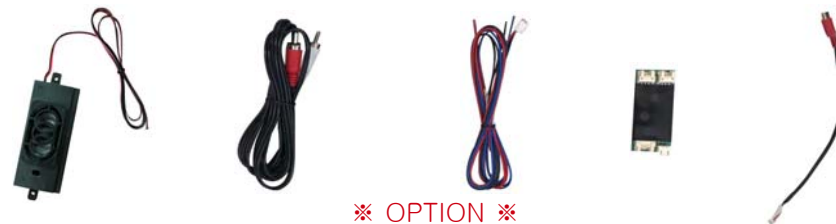
※ OPTION ※

10 INTERFACE R/C



※ OPTION ※

11 EXTERNAL AMP SPEAKER



※ OPTION ※

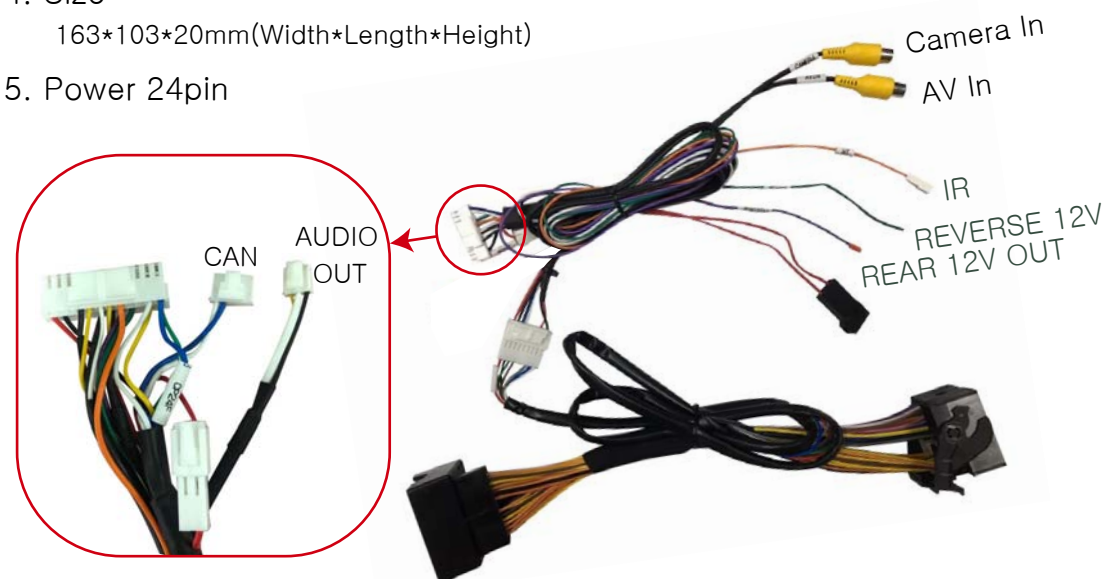
DIP S/W

OFF ON 2013 1&3 SERIES 8.8" SCREEN	OFF ON 2014 1&3 SERIES 6.5" SCREEN
OFF ON 2014~3, 5, 7 SERIES 10.2 SCREEN	OFF ON 2014 MINI 8.8" SCREEN
OFF ON 2015 X-SERIES 8.8"/10.2" SCREEN	OFF ON 2015 MINI 6.5" SCREEN
OFF ON 2016 3 SERIES 6.5" SCREEN	OFF ON 2013~2015 X3, 3 SERIES 6.5" SCREEN

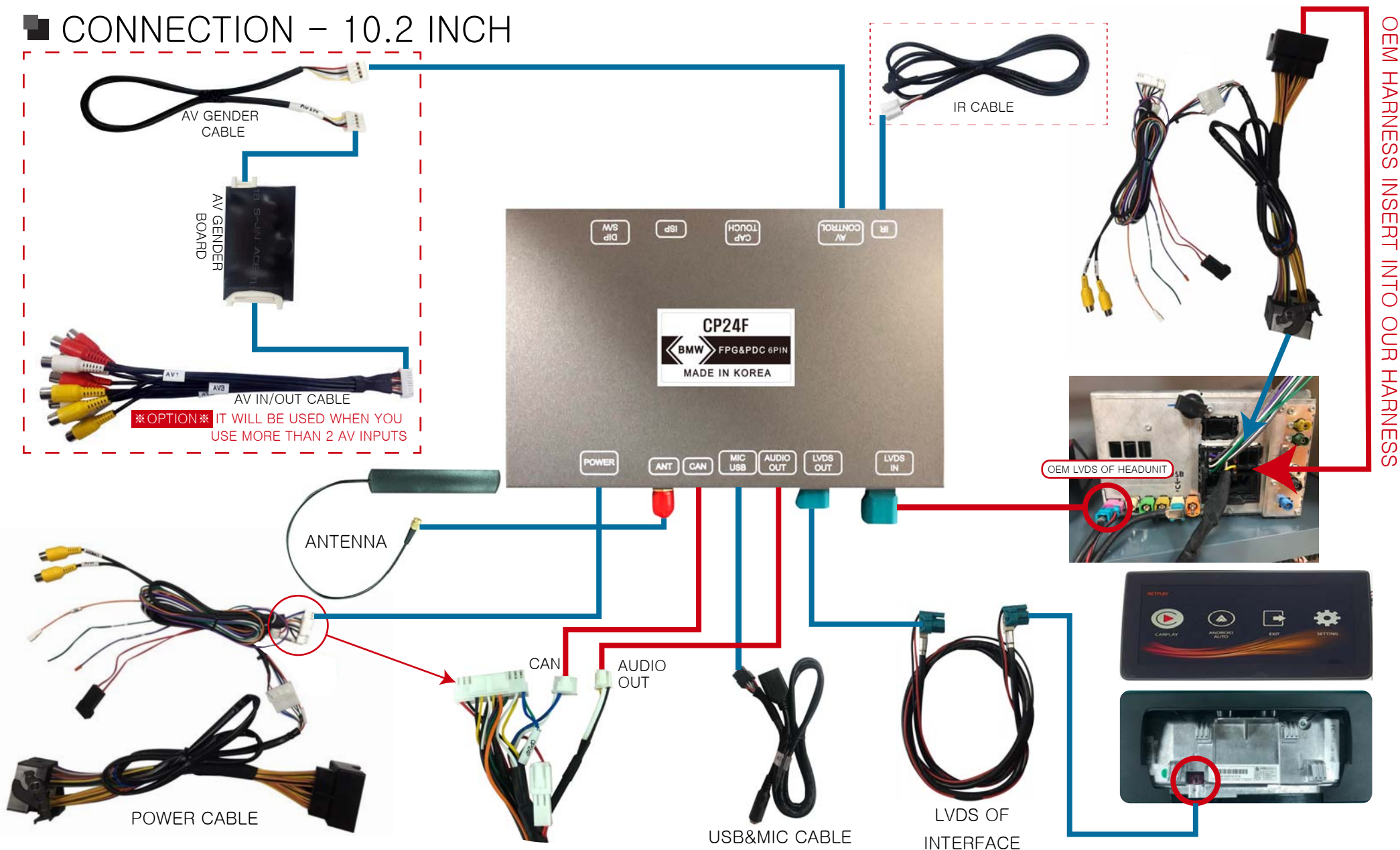
PIN	FUNCTION	DIP S/W SETTING
1	External Navigation	OFF ON
2	OFF	
3	TV free	OFF ON
4	Rear Camera	OFF : OEM Camera ON : Aftermarket Camera
5	OFF	
6	CAN SPEED	
7	Vehicle Setting	
8	Vehicle Setting	
9	Vehicle Setting	
10	Vehicle Setting	

CP24F SPEC.

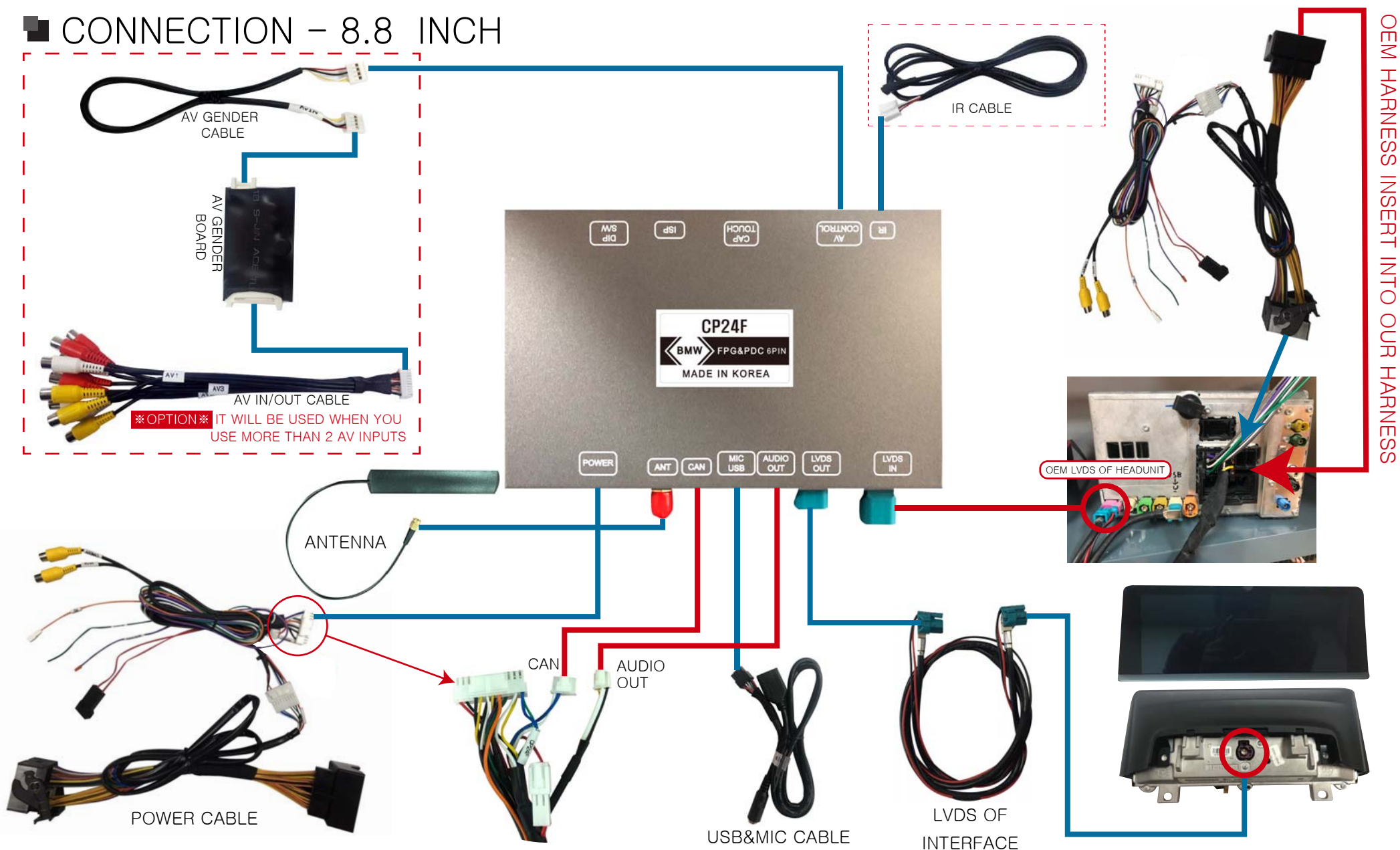
- INPUT
 - 1 x LVDS output
 - 1 x CVBS(rear camera)
 - 1 x CVBS(front camera or A/V)
 - 3 x A/V Input(Option)
- Output
 - 1 x CVBS
 - 1 x Audio L/R
- Power
 - Input power : 8VDC ~ 18VDC
 - Consumption : 6.5 Watt
 - Ampere : 0.53A
- Size
 - 163*103*20mm(Width*Length*Height)
- Power 24pin



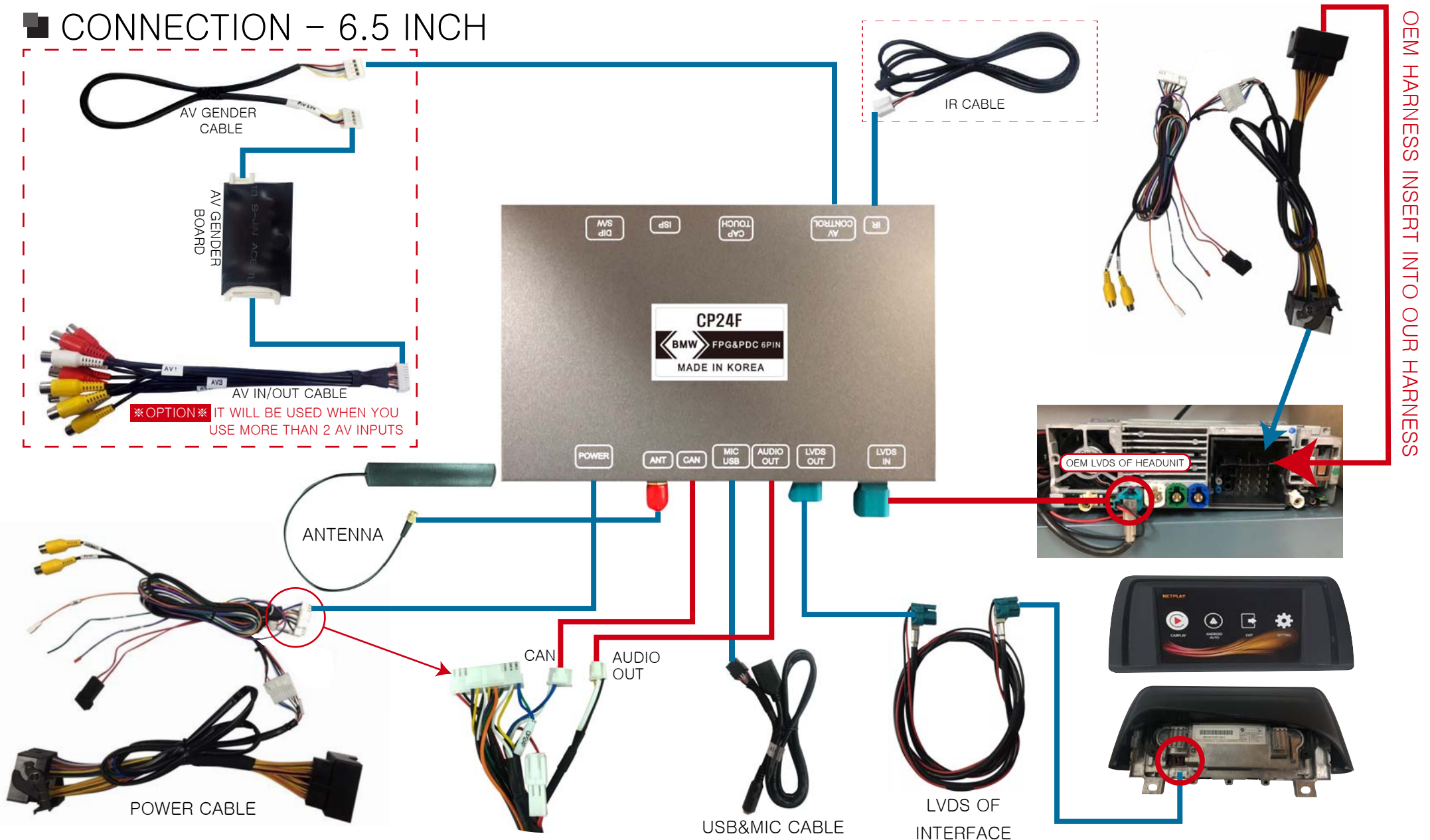
CONNECTION – 10.2 INCH



CONNECTION – 8.8 INCH



CONNECTION – 6.5 INCH



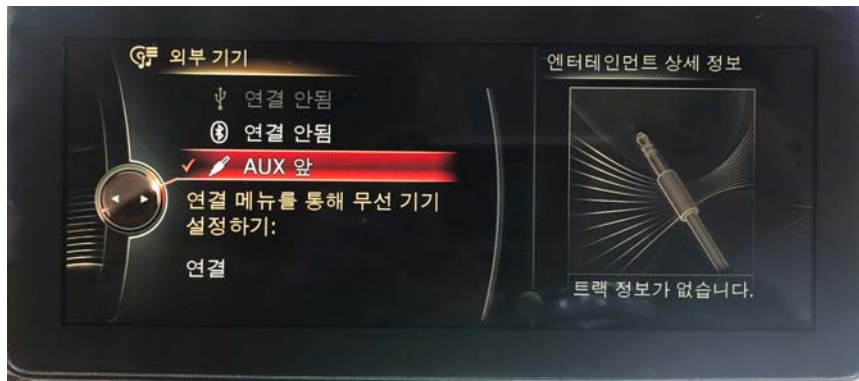
AUDIO SETTING



1. MAIN MENU



2. MULTIMEDIA



3. EXTERNAL DEVICE



4. AUX IN

IF YOU WANT TO HEAR CARPLAY OR ANDROID AUTO SOUND. PLEASE FOLLOW ABOVE STEPS BEFORE SWITCHING TO NETPLAY. AFTER THAT, YOU CAN HEAR CARPLAY OR ANDROID AUTO SOUND WHEN YOU SWITCH TO NETPLAY AND ENTER TO CARPLAY & ANDROID AUTO

AUDIO SETTING



1



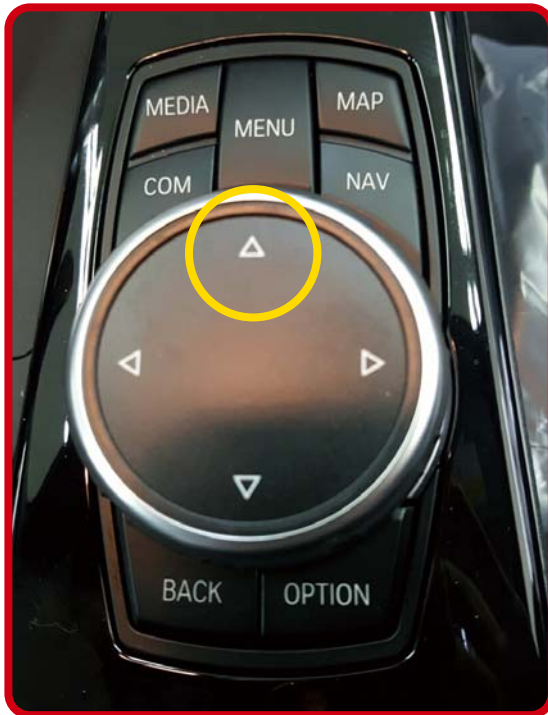
2



3

IF YOU WANT TO HEAR FACTORY RADIO SOUND WHEN IN NETPLAY (FULL OR PIP) LIKE PIC.3. PLEASE PRESS “RADIO” BUTTON OF IDRIVE CONTROLLER TO ENTER TO RADIO BEFORE SWITCHING TO NETPLAY. THEN YOU CAN HEAR RADIO SOUND WHEN YOU SWITCH TO CARPLAY OR ANDROID AUTO (BOTH FULL AND PIP).

■ FUNCTIONS OF IDRIVE BUTTONS



MENU : 1. HOLD 2S TO SWITCH MODE (OEM-NETPLAY-AV-OEM...)
2. SHORT PRESS TO SWITCH TO MAIN MENU OF CARPLAY OR ANDROID AUTO

MEDIA : SHORT PRESS TO SWITCH BACK TO OEM DISPLAY WHEN IN NETPLAY OR AV

RADIO : SHORT PRESS TO SWITCH BACK TO OEM DISPLAY WHEN IN NETPLAY OR AV

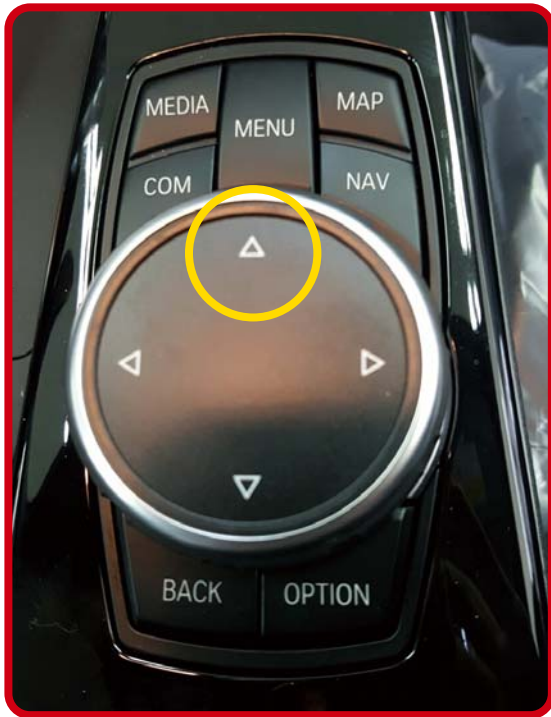
TEL : SHORT PRESS TO SWITCH BACK TO OEM DISPLAY WHEN IN NETPLAY OR AV

OPTION : SHORT PRESS TO SWITCH BACK TO OEM DISPLAY WHEN IN NETPLAY OR AV

MAP : DIRECT TO MAP APP IN CARPLAY OR ANDROID AUTO

BACK : 1. BACK TO LAST MODE
2. HOLD 10S TO ENTER INTO OUR OSD SETTING MENU

■ FUNCTIONS OF IDRIVE BUTTONS



UP : 1. HOLD 3S TO SWITCH MODE BETWEEN FULL SCREEN AND PIP SCREEN IN CARPLAY/ANDROID AUTO/REVERSE
2. SHORT PRESS TO MOVE CURSOR TO MAIN MENU OF ANDROID AUTO

DOWN : SHORT PRESS TO MOVE CURSOR TO UNDER BAR OF ANDROID AUTO

LEFT : SHORT PRESS TO MOVE CURSOR 1 STEP TO LEFT

RIGHT : SHORT PRESS TO MOVE CURSOR 1 STEP TO RIGHT

■ FUNCTIONS OF STEERING WHEEL BUTTONS



PHONE : 1. SHORT PRESS TO ACCEPT PHONE CALL

2. HOLD 3S TO REJECT PHONE CALL

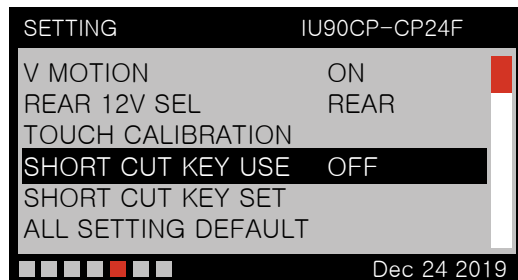
VOICE : 1. SHORT PRESS TO ACTIVE OEM VOICE ASSISTANT

2. SHORT PRESS TO ACTIVE “SIRI” OF CARPLAY

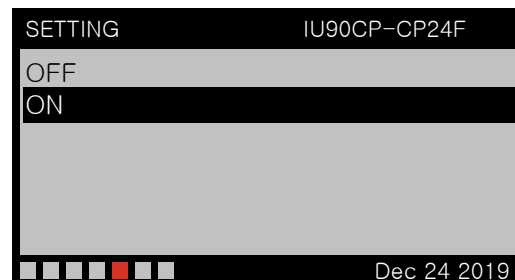
OR ACTIVE “OK GOOGLE” OF ANDROID AUTO IN
EACH MODE

VOLUME DOWN : HOLD OVER 10S TO ON/OFF VIDEO IN MOTION

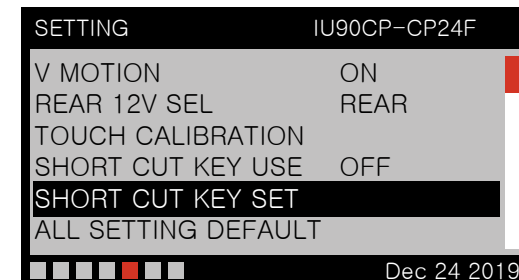
■ SHORT CUT KEY FUNCTION



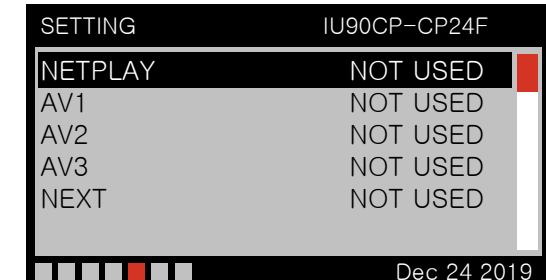
1



2



3

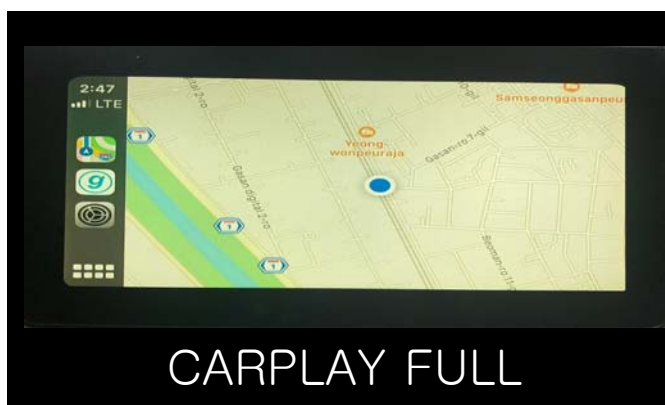
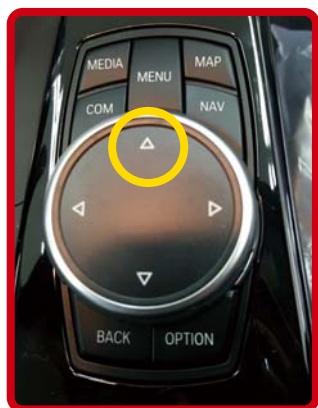


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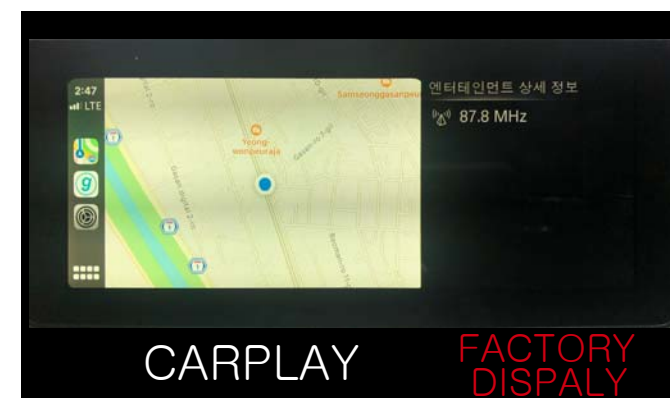


YOU CAN USE “NUMBER” KEYS UNDER THE SCREEN TO ACHIEVE SWITCH MODE FUNCTIONS. FOR EXAMPLE, ENTER TO OUR SETTING MENU, SELECT “SHORT CUT KEY USE” ON. AND YOU CAN SEE 5 SELECTIONS (NAVI, AV1, AV2, AV3, NEXT) WHEN ENTER TO “SHORT CUT KET SET”. SELECT ONE OF 5 SELECTIONS. AND PRESS RIGHT BUTTON, THEN YOU CAN SEE NUMBER 1–7. SELECT ONE OF THEM AND PRESS “OK” AND EXIT TO SETTING MENU TO SAVE SETTING. IF YOU SELECT NUMBER 1 FOR AV1, THEN SCREEN WILL SWITCH TO AV1 DIRECTLY FROM CURRENT DISPLAY(OEM, NETPLAY ETC.) WHEN YOU PRESS NUMBER 1 BUTTON. YOU CAN DO SAME OPERATION TO SET OTHER NUMBER KEYS TO ACHIEVE REST 4 FUNCTIONS.

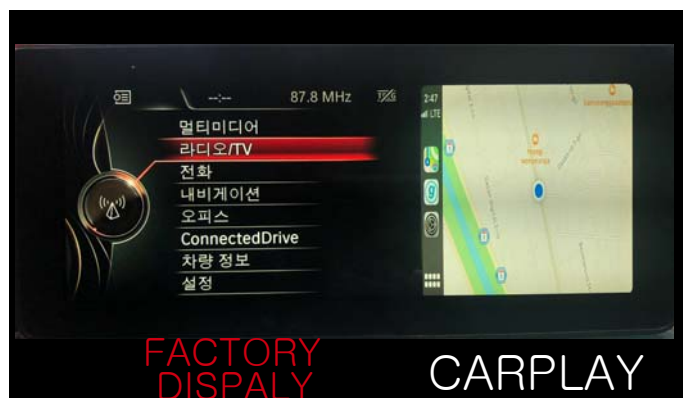
■ HOLD “UP” OF IDRIVE TO SWITCH TO PIP MODE IN CARPLAY



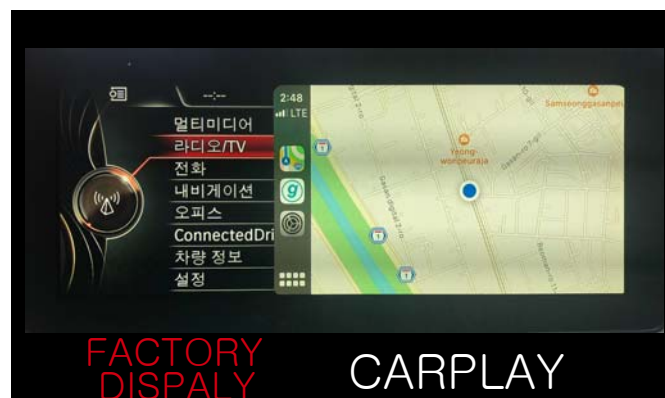
1



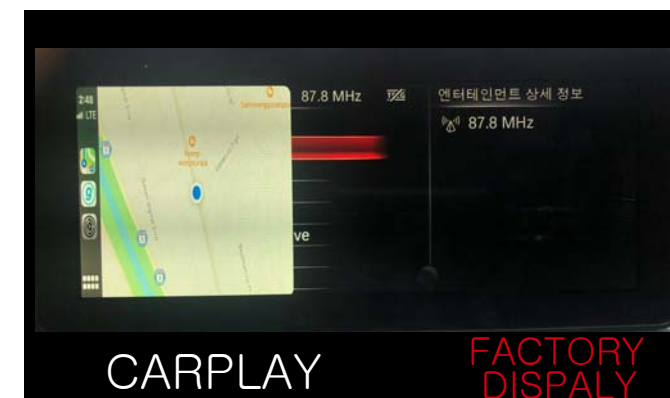
2



3

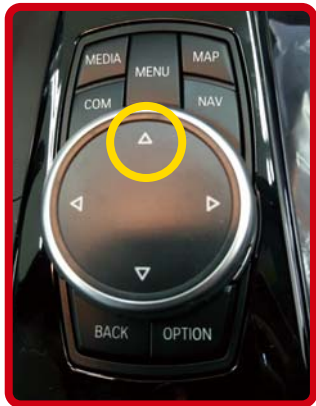


4



5

■ HOLD IDRIVE “UP” TO SWITCH TO PIP MODE IN ANDROID AUTO



1



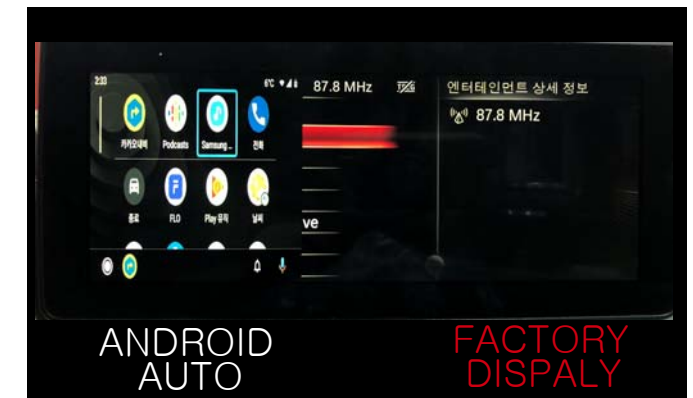
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3



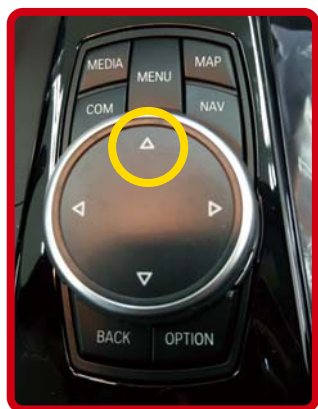
4



5



■ HOLD IDRIVE “UP” TO SWITCH TO PIP MODES IN AV



1



2



3

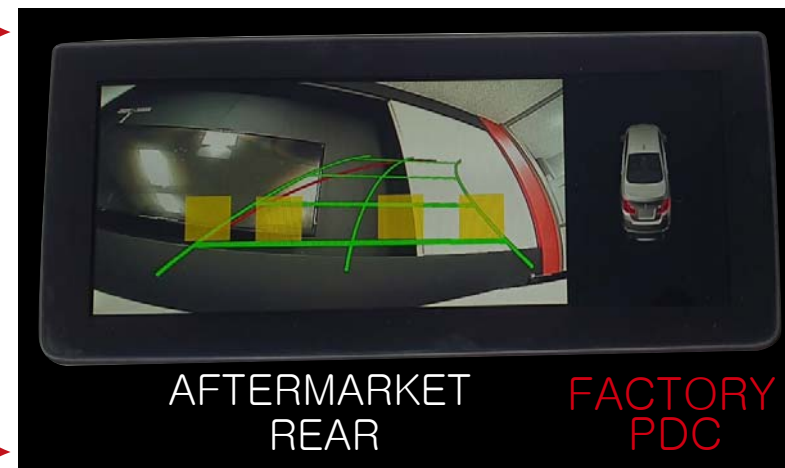
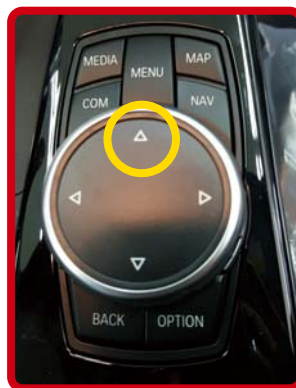
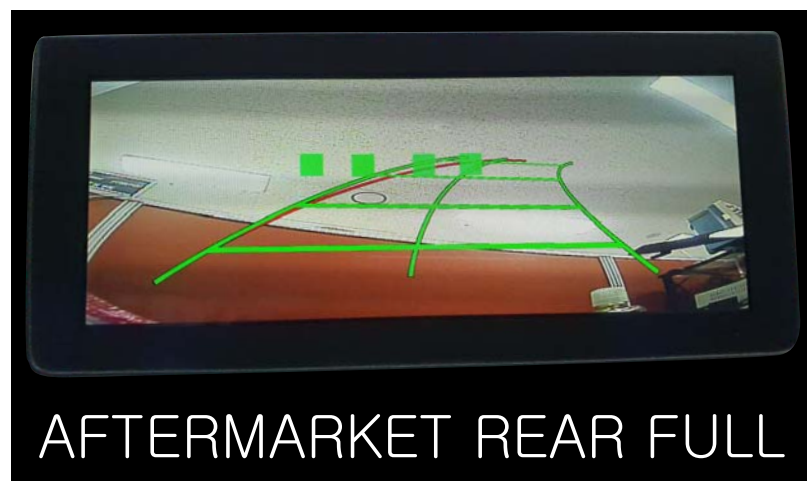


4



5

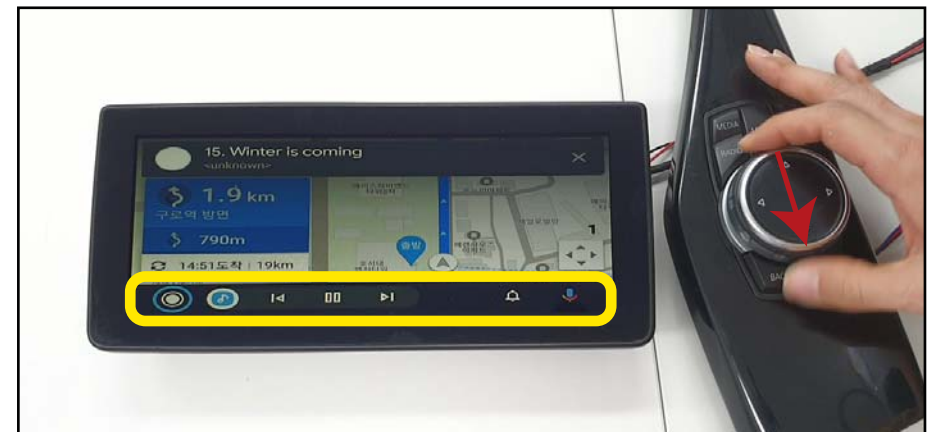
■ HOLD IDRIVE “UP” TO SWITCH TO PIP MODE IN AFTERMARKET REVERSE



■ FUNCTIONS OF IDRIVE BUTTONS IN ANDROID AUTO



PRESS “BACK” BUTTON TO BACK TO LAST MODE



PRESS “UP” & “DOWN” TO MOVE CURSOR BETWEEN MAIN MENU AND UNDER BAR

FUNCTIONS OF IDRIVE BUTTONS IN ANDROID AUTO



PRESS “MAP” BUTTON DIRECT TO MAP (NAVIGATION) DISPLAY



PRESS “MENU” BUTTON TO BACK TO MAIN MENU

■ FUNCTIONS OF IDRIVE BUTTONS IN ANDROID AUTO



PRESS “OPTION” BUTTON TO EXIT TO FACTORY DISPLAY



HOLD “ENTER” BUTTON OR HOLD “VOICE” BUTTON OF STEERING WHEEL TO ACTIVE OK GOOGLE OR SAY “OK GOOGLE” TO ACTIVE OK GOOGLE

■ FUNCTIONS OF IDRIVE BUTTONS IN ANDROID AUTO



SELECT “EXIT” OF ANDROID AUTO AND PRESS
ENTER” TO MAIN MENU OF NETPLAY



SELECT “EXIT” OF NETPLAY AND PRESS
“ENTER” TO FACTORY DISPLAY



FACTORY DISPLAY



HOLD “MENU” BUTTON OF IDRIVE
TO SWITCH TO NETPLAY DISPLAY



SELECT “ANDROID AUTO”
AND PRESS ENTER TO CARPLAY

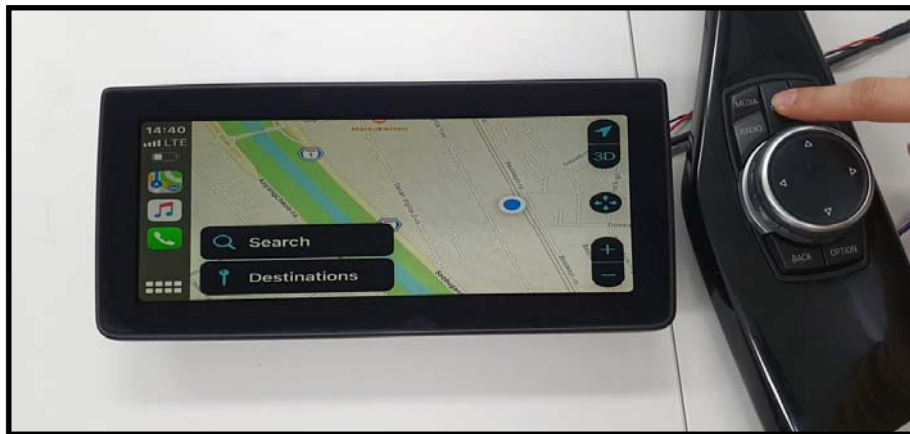


ANDROID AUTO

FUNCTIONS OF IDRIVE BUTTONS IN CARPLAY



PRESS “MAP” BUTTON DIRECT TO MAP (NAVIGATION) DISPLAY



PRESS “MENU” BUTTON TO BACK TO MAIN MENU

FUNCTIONS OF IDRIVE BUTTONS IN CARPLAY



HOLD “ENTER” BUTTON OR “VOICE” BUTTON OF STEERING WHEEL TO ACTIVE SIRI OR SAY “HEY SIRI” TO ACTIVE SIRI



PRESS “OPTION” BUTTON TO EXIT TO FACTORY DISPLAY

■ FUNCTIONS OF IDRIVE BUTTONS IN CARPLAY



ROTATE IDRIVE CONTROLLER TO MOVE CURSOR IN EACH MODE

■ FUNCTIONS OF IDRIVE BUTTONS IN CARPLAY



THERE IS “BLUETOOTH CALL” FUNCTION IN SETTING MENU OF INTERFACE. YOU CAN SET TIMER “3S~6S”. THEN CALLING IMAGE WILL DISPLAY 3S~6S WHEN IN FACTORY DISPLAY. (THIS FUNCTION JUST LET CUSTOMER KNOW WHO IS CALLING TO YOU)

FUNCTIONS OF IDRIVE BUTTONS IN CARPLAY



SELECT "EXIT" OF CARPLAY AND PRESS
ENTER" TO MAIN MENU OF NETPLAY



SELECT "EXIT" OF NETPLAY AND PRESS
"ENTER" TO FACTORY DISPLAY



FACTORY DISPLAY



HOLD "MENU" BUTTON OF IDRIVE
TO SWITCH TO NETPLAY DISPLAY

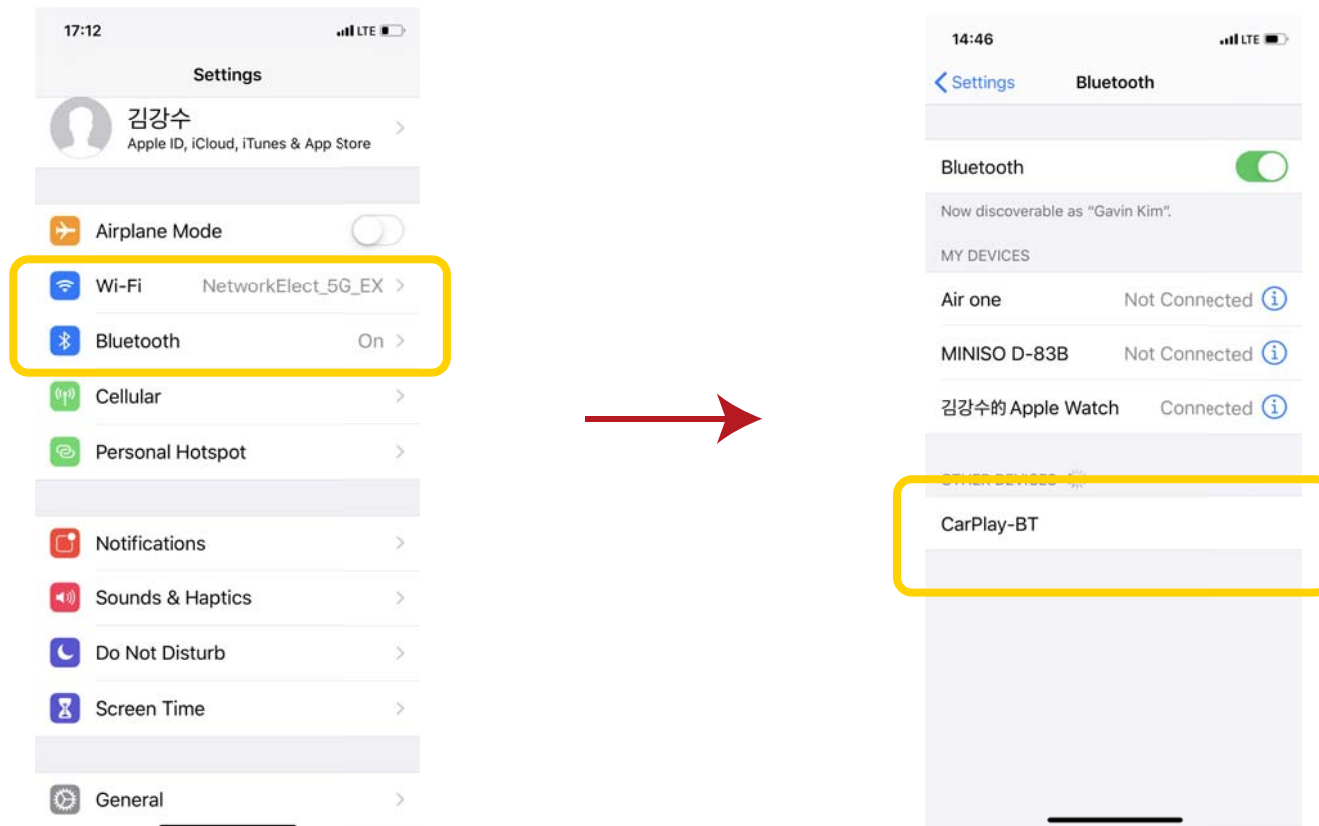


SELECT "CARPLAY"
AND PRESS ENTER TO CARPLAY



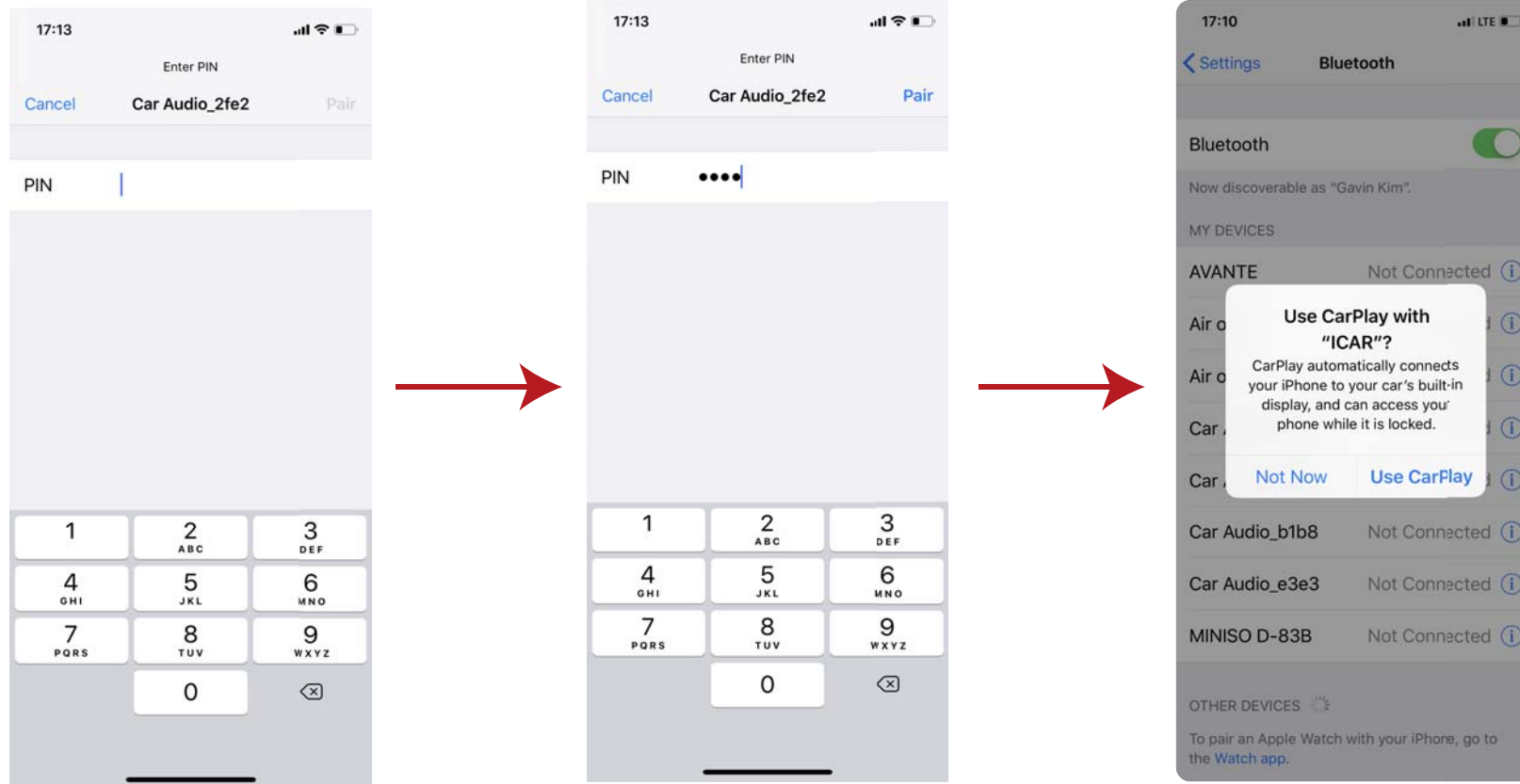
CARPLAY

■ METHOD OF CONNECTING BT BETWEEN IPHONE AND NETPLAY



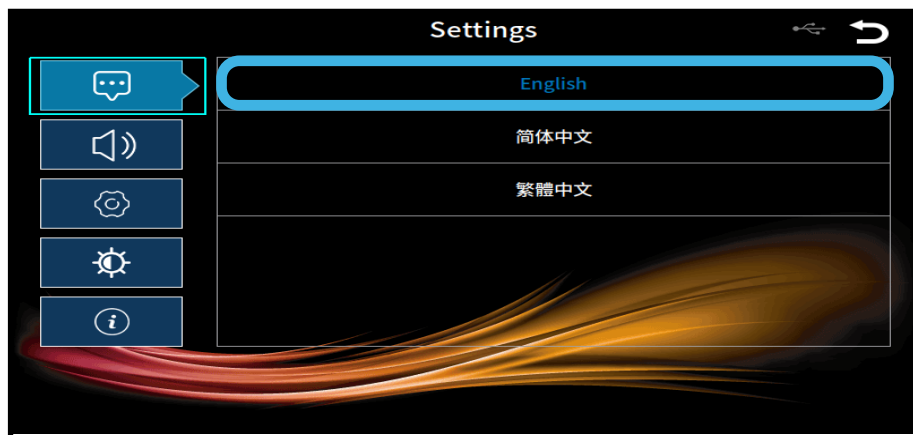
PLEASE SET WIFI AND BLUETOOTH “ON” AT SETTING OF IPHONE,
AND THEN PLEASE SEARCH DEVICE “CARPLAY-BT” IN BLUETOOTH

SETTING OF NETPLAY

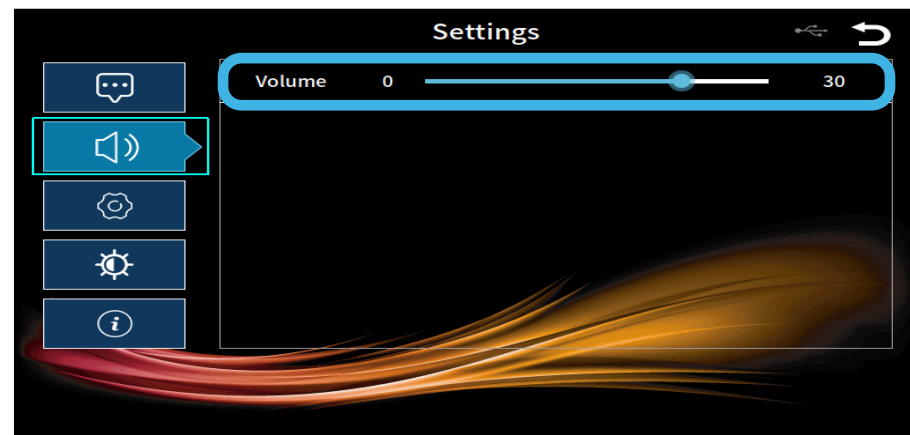


PIN CODE IS “0000”. PLEASE FILL IN PIN CODE AND SELECT “PAIR”.
PLEASE SELECT “USE CARPLAY” AFTER PAIRING.

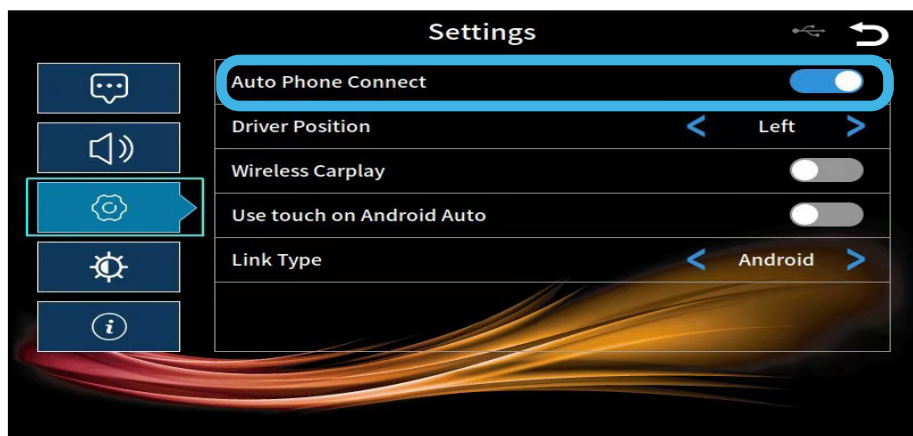
SETTING OF NETPLAY



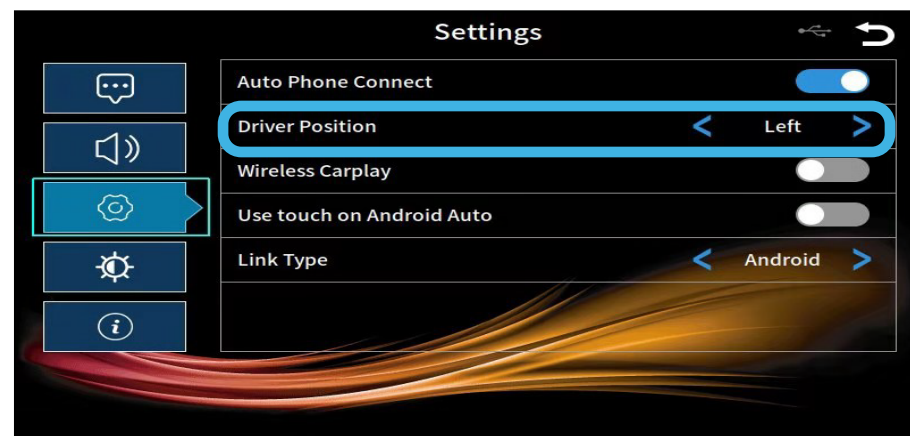
LANGUAGE SETTING



VOLUME SETTING

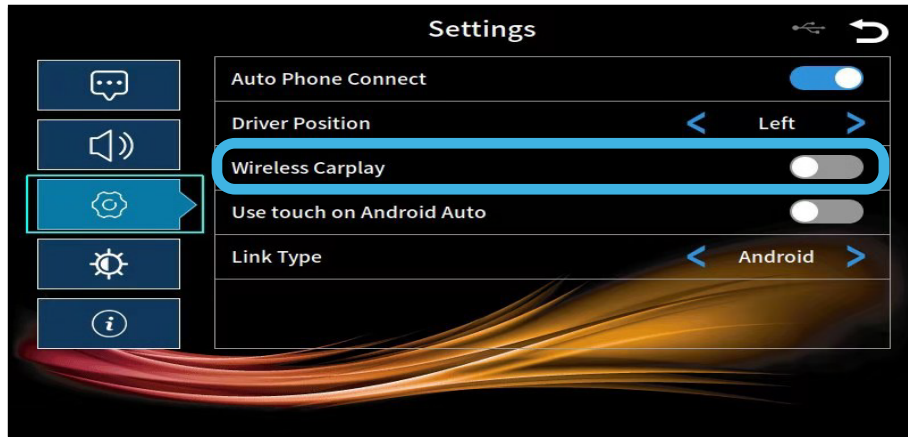


SELECT AUTO PHONE CONNECT TO CONNECT YOUR SMART PHONE AUTOMATICALLY

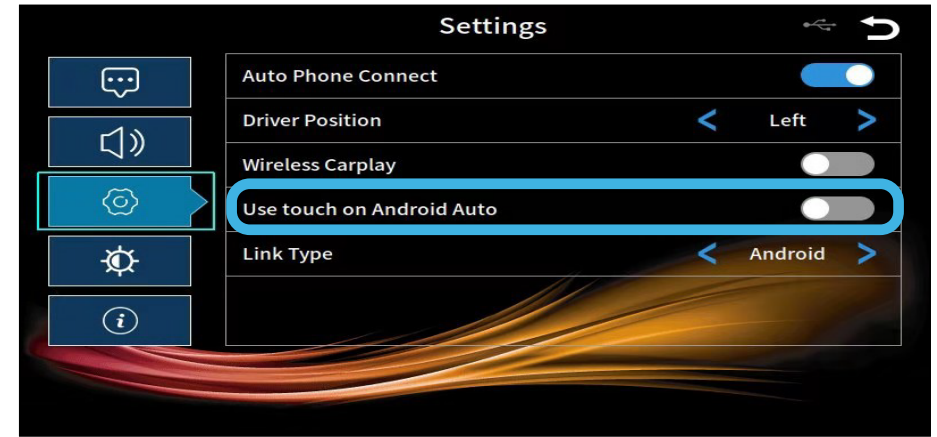


SELECT POSITION OF STEERING WHEEL (LEFT OR RIGHT) THEN BAR OF CARPLAY WILL CHANGED

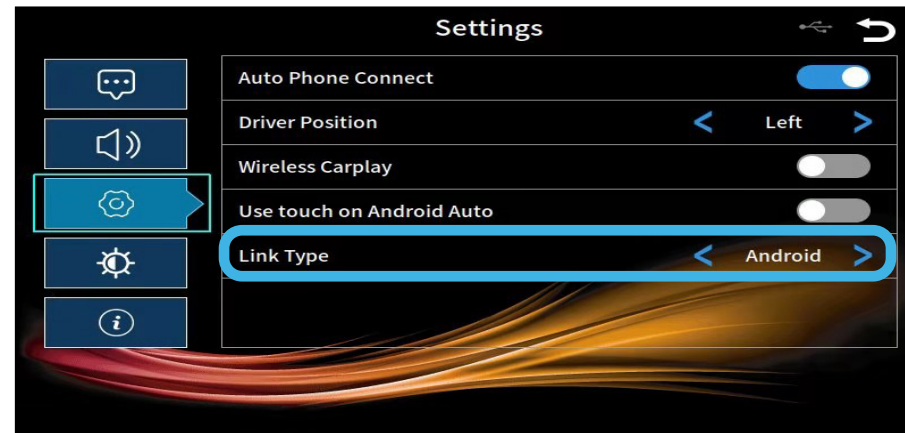
SETTING OF NETPLAY



SELECT WIRELESS CARPLAY “ON” TO
ACTIVE WIRELESS CONNECTING

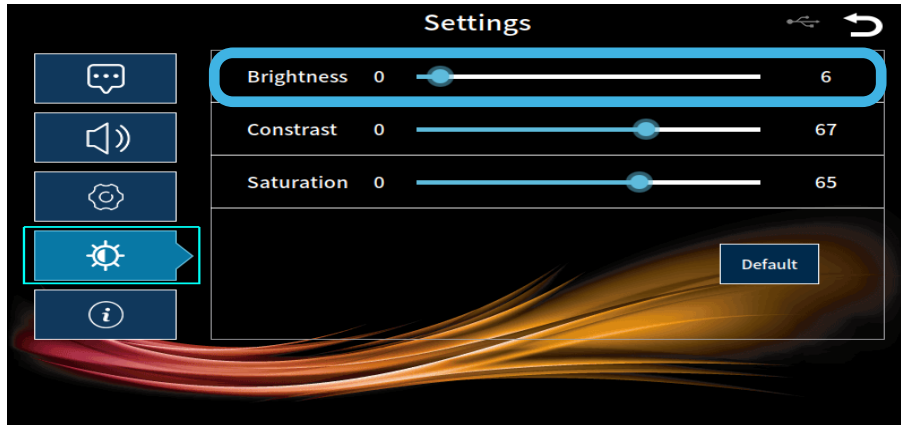


SELECT THIS FUNCTION “ON” WHEN YOU
USE TOUCH SCREEN FOR ANDROID AUTO

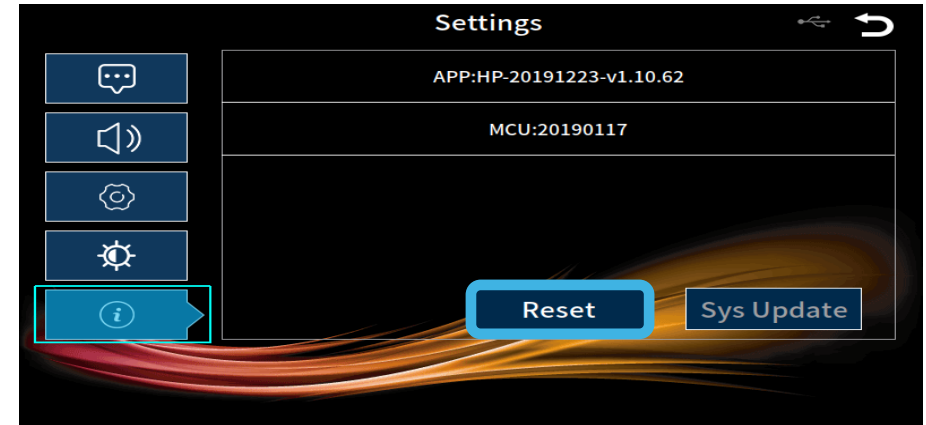


SELECT LINK TYPE

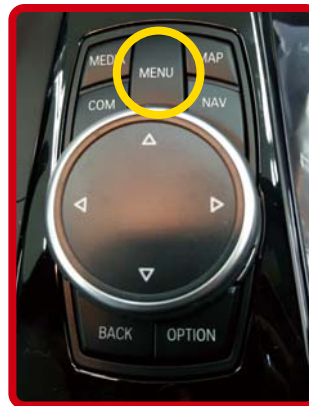
SETTING OF NETPLAY



BRIGHTNESS SETTING
IN NETPLAY MAIN MENU ONLY

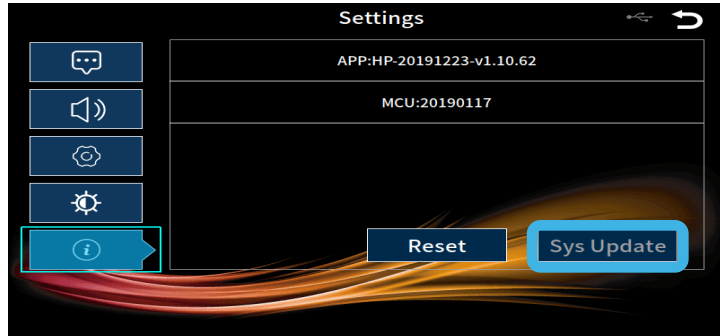


RESET & UPDATE NETPLAY



HOLD "MENU" BUTTON OF IDRIVE CONTROLLER OVER 10S
IN NETPLAY MODE CAN RESET NETPLAY AS WELL.

■ UPDATE METHOD

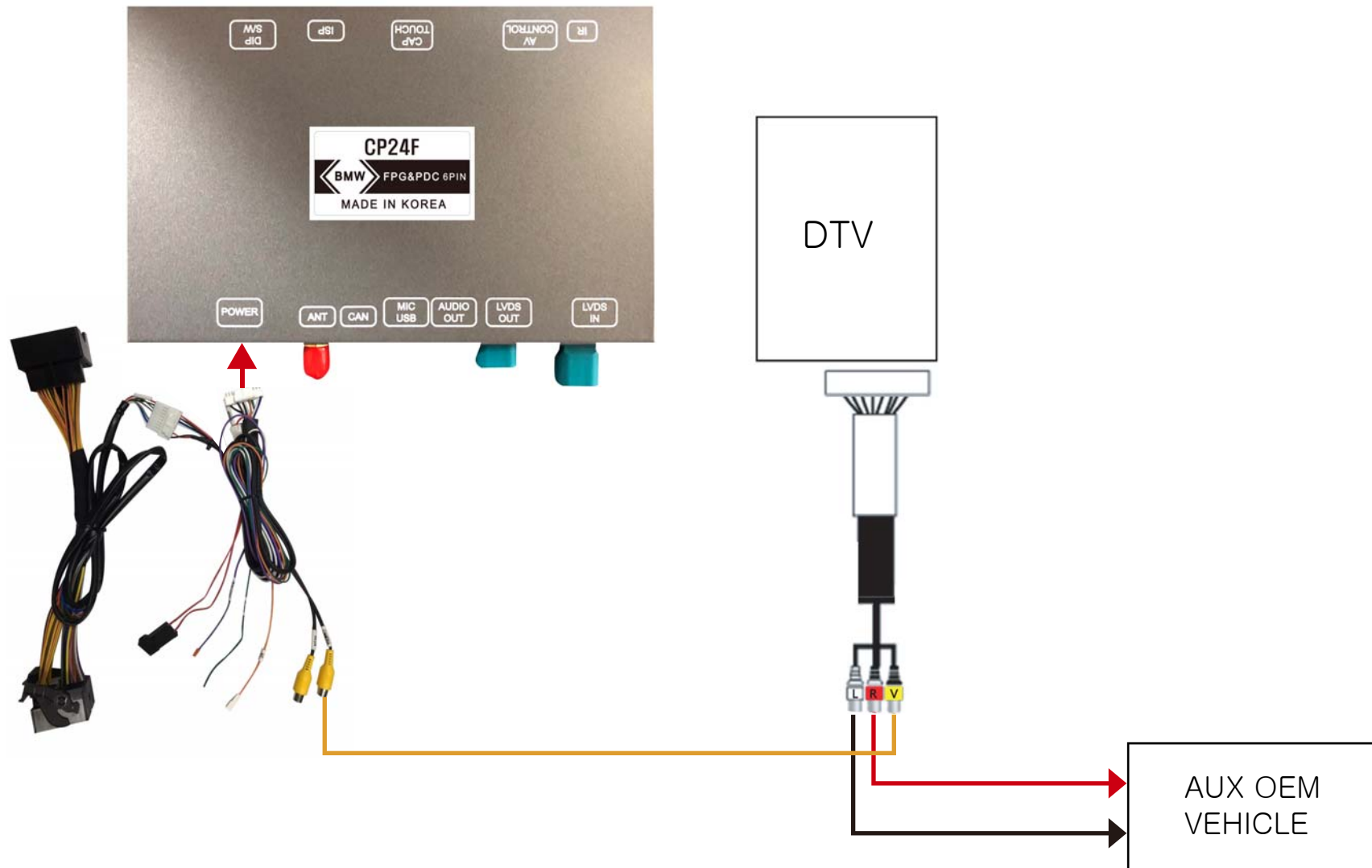


THERE ARE 2 WAYS TO UPDATE NETPLAY AS BELOW :

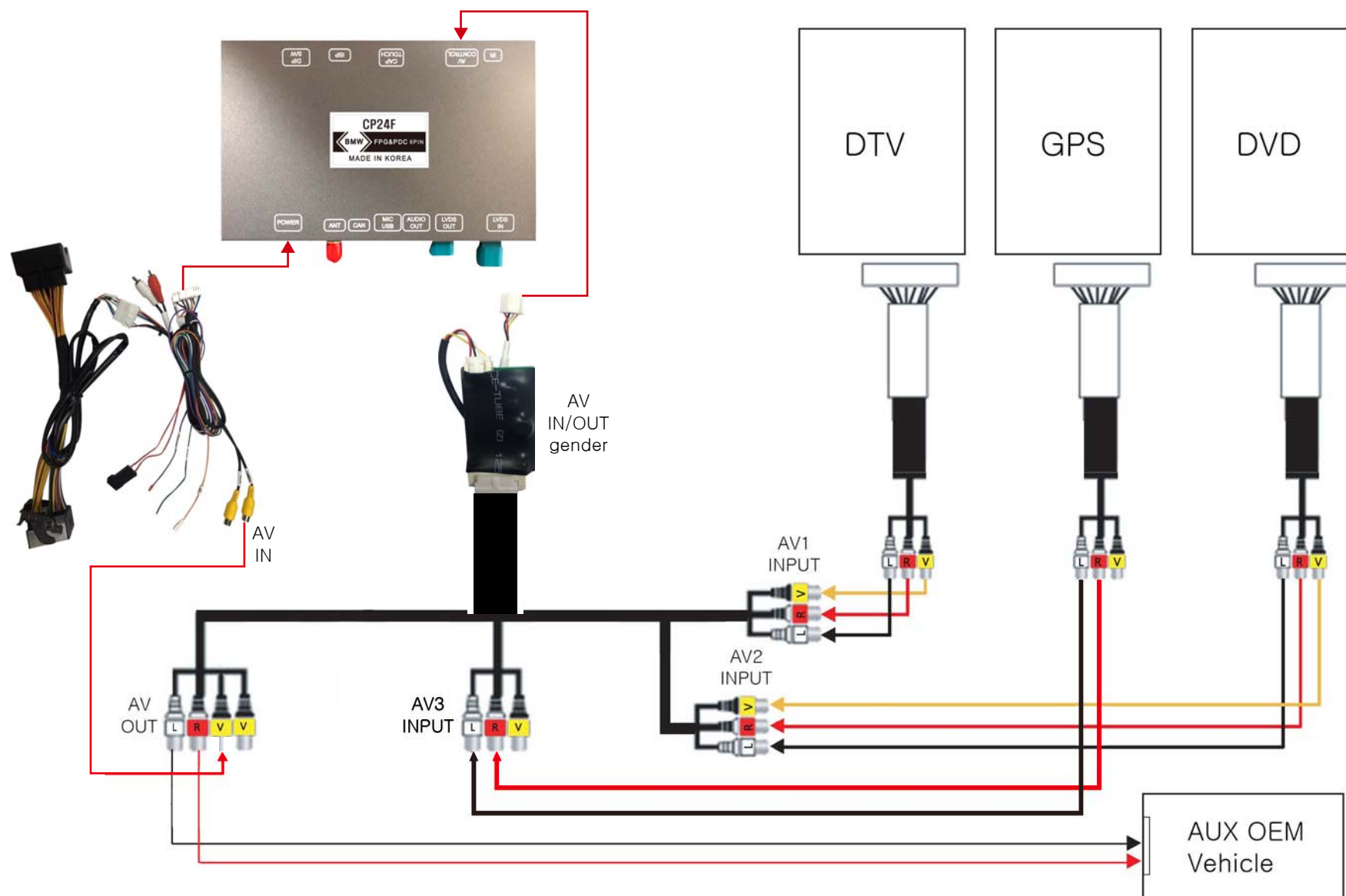
1. 1) INSERT USB MEMORY CARD INTO USB PORT
- 2) CONNECT POWER CABLE
- 3) SCREEN WILL SHOW “UPDATING...” IN NETPLAY
- 4) NETPLAY WILL REBOOT ITSELF, THEN PLEASE DISCONNECT USB MEMORY CARD WHEN YOU SEE MAIN MENU

2. 1) INSERT USB MEMORY CARD INTO USB PORT
- 2) ENTER TO SETTING OF NETPLAY
- 3) SELECT “SYS UPDATE”
- 4) NETPLAY WILL REBOOT ITSELF, THEN PLEASE DISCONNECT USB MEMORY CARD WHEN YOU SEE MAIN MENU

HOW TO CONNECT VIDEO AUDIO WHEN YOU ONLY USE ONE AV INPUT



HOW TO CONNECT VIDEO AUDIO WHEN YOU USE MORE THAN 2 AV INPUTS

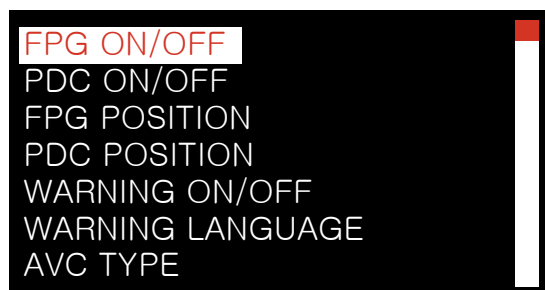
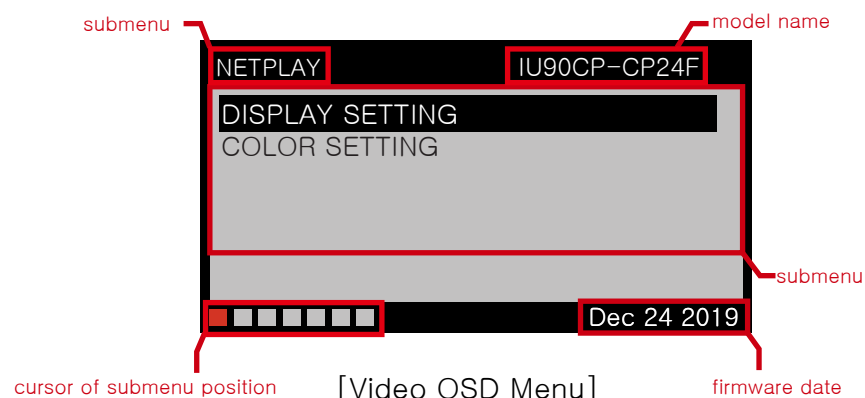


1. OSD MENU

There are two types of OSD menu as followed pictures.

[Video OSD Menu] is use for setting NAVI, AV1/2/3, video of HDMI and detailed features.

[Rear OSD Menu] is use for setting detailed features of rear camera mode.



※ METHOD HOW TO ENTER TO OSD MENU ※

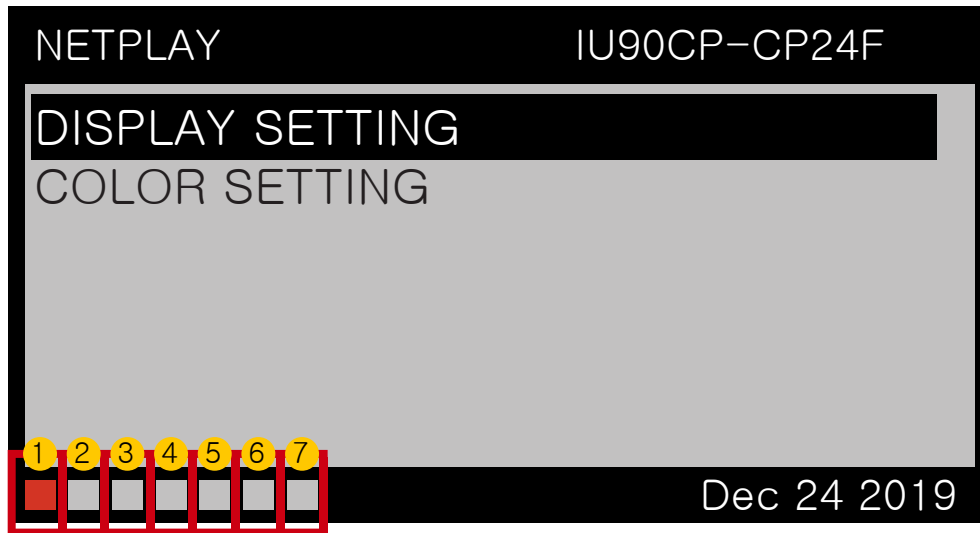
[Video OSD Menu] The method how to enter to Video OSD Menu is press ¹ button 4 times when in Navi, AV1, AV2, AV3, HDMI modes. Numbers will display per press on screen. Please press ² button to enter when the screen appear number 4.

[Rear OSD Menu] The method how to enter to Rear OSD Menu is same as above method.

(Please put reverse gear to move the rear camera mode first.)



2. DETAILED FEATURES OF [OSD MENU]



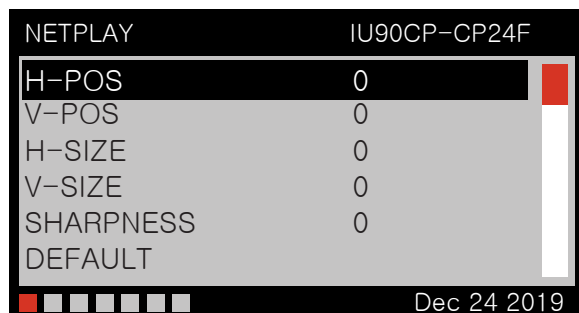
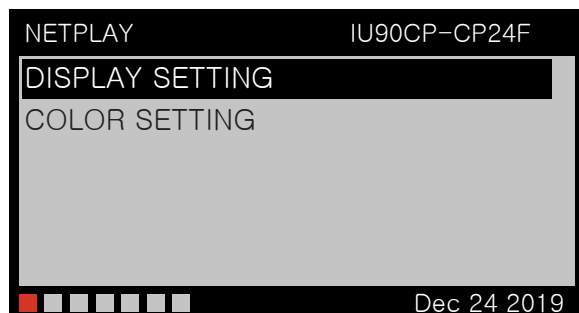
[NETPLAY SETTING]

- ① NETPLAY SETTING
- ② AV1 SETTING
- ③ AV2 SETTING
- ④ AV3 SETTING
- ⑤ FRONT CAMERA SETTING
- ⑥ INFORMATION
- ⑦ EXIT

2-1. NETPLAY

2-1(1). DISPLAY SETTING

These are adjustment functions for video output of GPS Box which can't compatible with Display screen size.

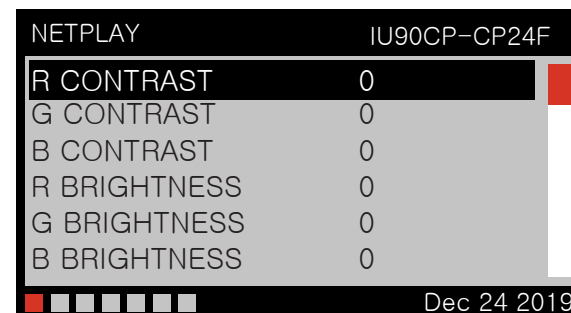
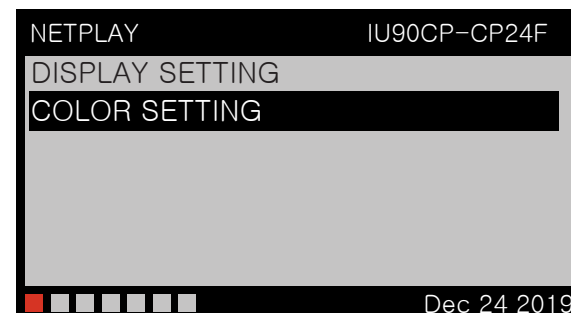


- H-POS : Horizontal movement
- V-POS : Vertical movement
- H-SIZE : Horizontal enlargement or reduction
- V-SIZE : Vertical enlargement or reduction
- SHARPNESS : adjust the sharpness
- DEFAULT : Initialization

2-1. NETPLAY

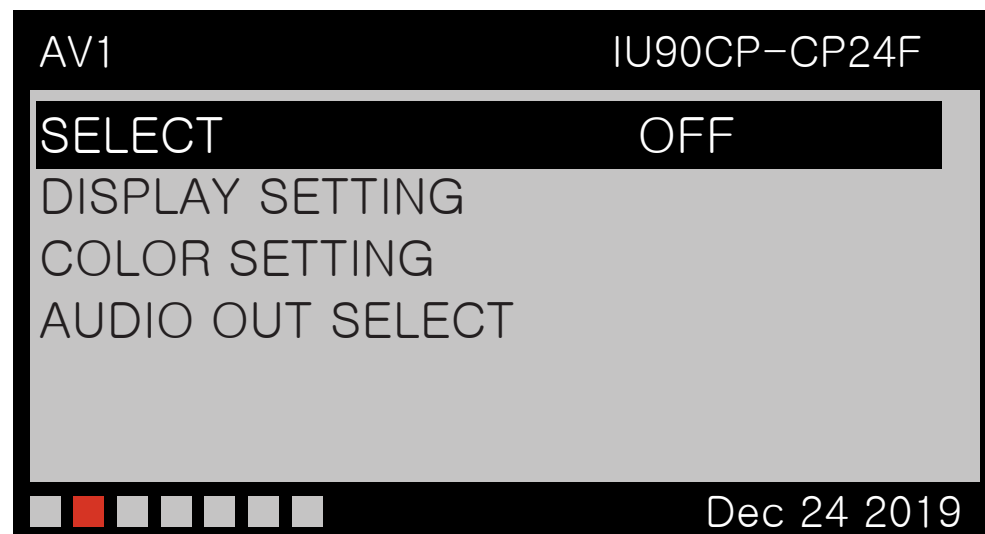
2-1(2). COLOR SETTING

These are adjustment function for video contrast and video brightness of GPS Box.



- R CONTRAST : adjust red of contrast
- G CONTRAST : adjust green of contrast
- B CONTRAST : adjust blue of contrast
- R BRIGHTNESS : adjust red of brightness
- G BRIGHTNESS : adjust green of brightness
- B BRIGHTNESS : adjust blue of brightness
- DEFAULT : Initialization

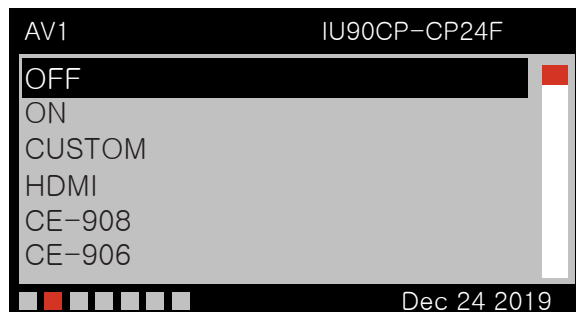
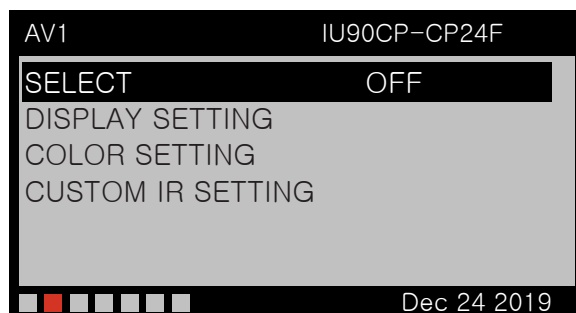
2-2. AV1(DTV)/ AV2(DVD)/AV3(RECORDER)



2-2. AV1(DTV)/ AV2(DVD)/ AV3(RECORDER)

2-2(1). SELECT

PLEASE USE AV MODES, OR SELECT CONNECTED DEVICE OF AV IN ORDER TO CONTROL.

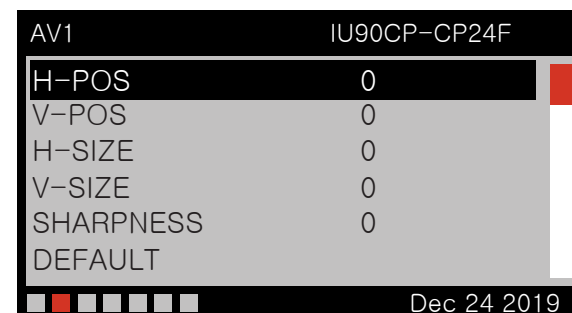
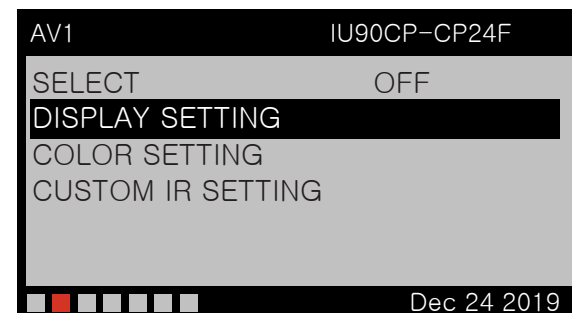


- OFF : DO NOT USE AV MODES
- ON : USE AV MODES
- CUSTOM : USE AV MODES AND CONTROL BY CUSTOM.
- MODEL LIST : USE AV MODES AND CONTROL SELECTED AV MODEL BY IR.

2-2. AV1(DTV)/ AV2(DVD)/ AV3(RECORDER)

2-2(2). DISPLAY SETTING

THESE ARE ADJUSTMENT FUNCTIONS FOR VIDEO OUTPUT OF AV WHICH CAN'T COMPATIBLE WITH DISPLAY SCREEN SIZE.

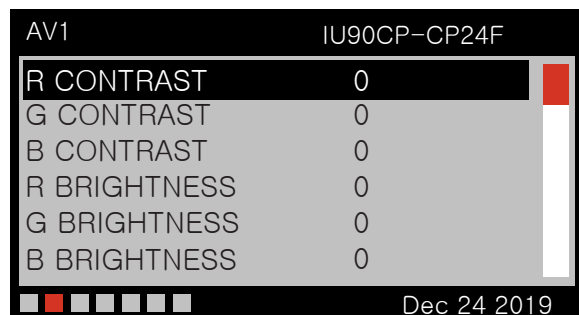
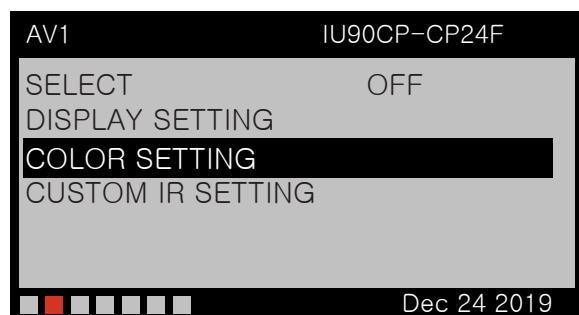


- H-POS : HORIZONTAL MOVEMENT
- V-POS : VERTICAL MOVEMENT
- H-SIZE : HORIZONTAL ENLARGEMENT OR REDUCTION
- V-SIZE : VERTICAL ENLARGEMENT OR REDUCTION
- SHARPNESS : ADJUST THE SHARPNESS
- DEFAULT : INITIALIZATION

2-2. AV1(DTV)/ AV2(DVD)/ AV3(RECORDER)

2-2(3). COLOR SETTING

THESE ARE ADJUSTMENT FUNCTIONS FOR VIDEO CONTRAST VIDEO BRIGHTNESS OF AV.

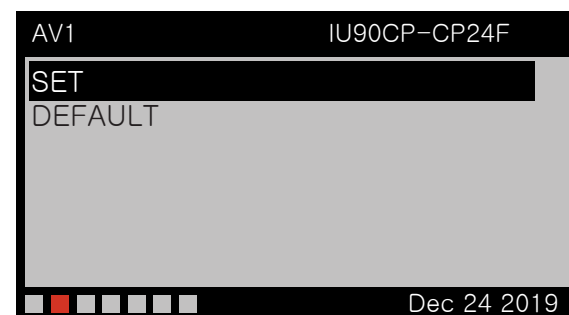
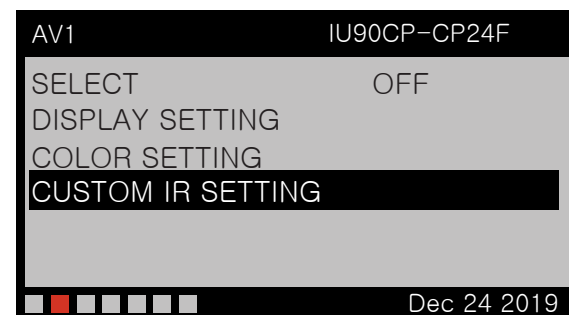


- R CONTRAST : ADJUST RED OF CONTRAST
- G CONTRAST : ADJUST GREEN OF CONTRAST
- B CONTRAST : ADJUST BLUE OF CONTRAST
- R BRIGHTNESS : ADJUST RED OF BRIGHTNESS
- G BRIGHTNESS : ADJUST GREEN OF BRIGHTNESS
- B BRIGHTNESS : ADJUST BLUE OF BRIGHTNESS
- DEFAULT : INITIALIZATION

2-2. AV1(DTV)/ AV2(DVD)/ AV3(RECORDER)

2-2(4). CUSTON IR SETTING

IN ORDER TO USE IR CONTROL WHICH MODEL CAN NOT SUPPORT ON [SELECT MENU]. USER CAN INPUT IR CODE BY THEMSELVES.

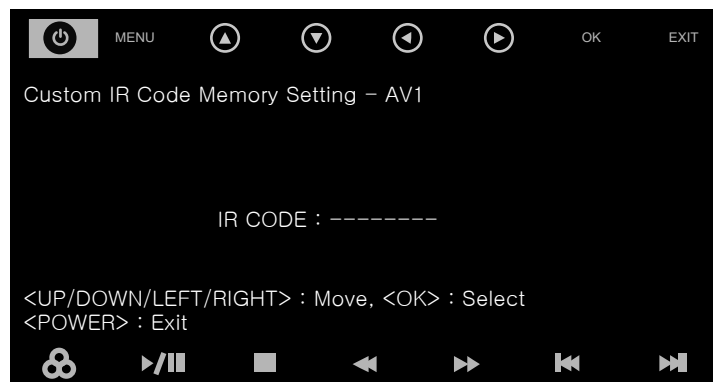


- SET : USERS CAN INPUT IR CODE BY THEMSELVES IN ORDER TO CONTROL CONNECTED AV INPUTS.
- DEFAULT : INITIALIZATION

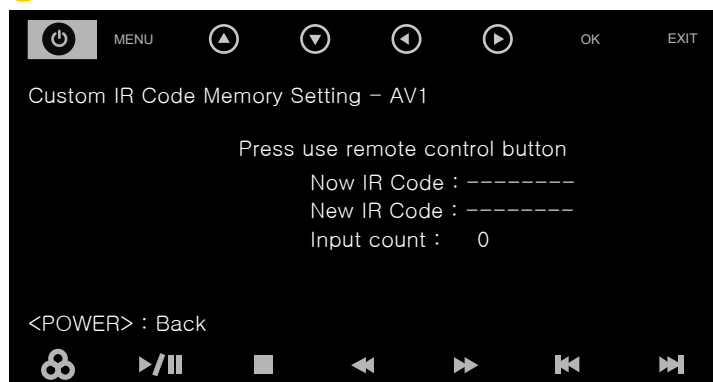
2-2. AV1(DTV)/ AV2(DVD)/ AV3(RECORDER)

2-2(5). CUSTON IR SETTING

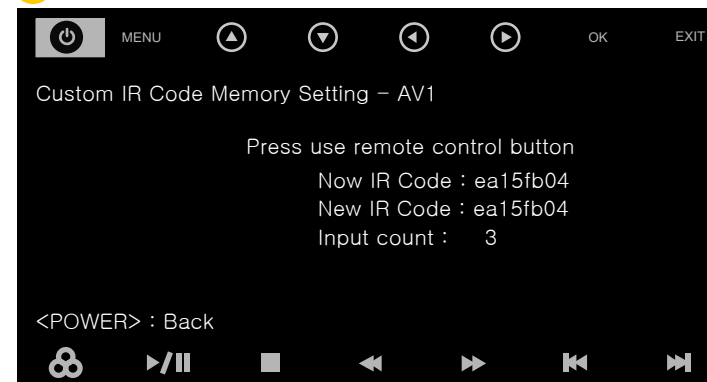
1 [ICON SELECT]



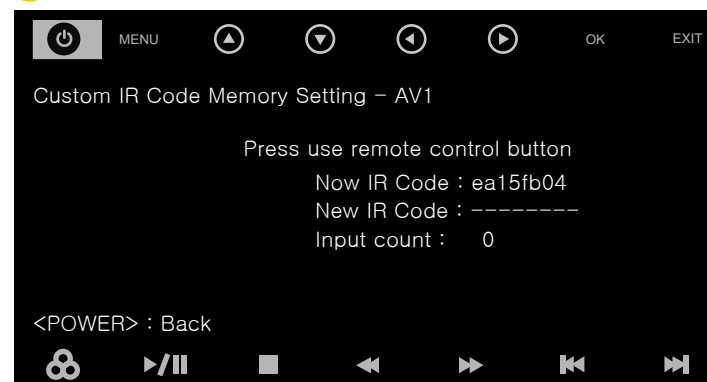
2 [IR CODE INPUT]



3 [IR CODE INPUT]



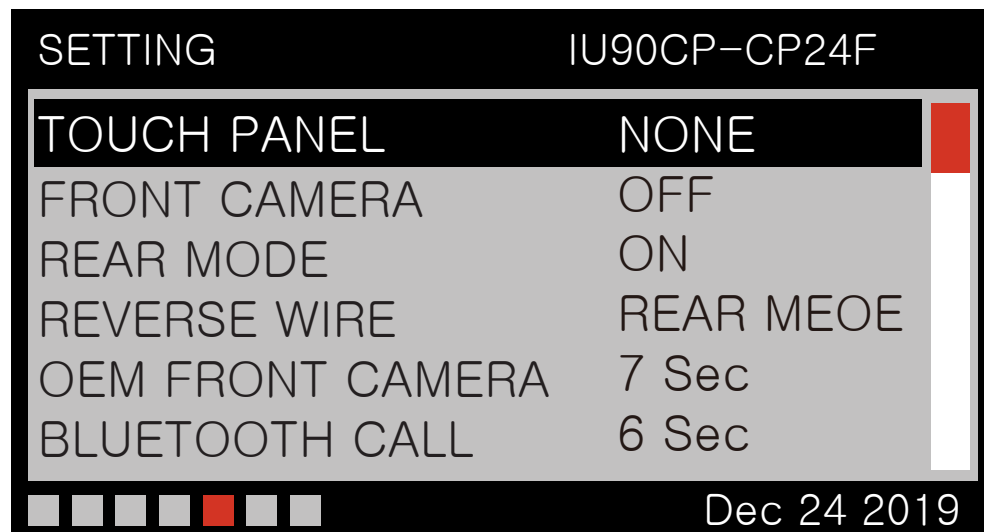
4 [IR CODE INPUT FINISHED]



- PLEASE SELECT THE SET MODE, IF SCREEN DISPLAY SAME AS ABOVE SCREENS. PLEASE SELECT ONE ICON AND INPUT YOUR IR CODE. NUMBERS WILL DISPLAY PER PRESS FM 1 TO 0 WHEN YOU FILL INRO IR CODE, IT WILL DISPLAY ON “NOW IR CODE”. IF YOU FINISH SETTING ALL ICONS YOU WANT. PLEASE PRESS BUTTON TO FINISH SETTING.

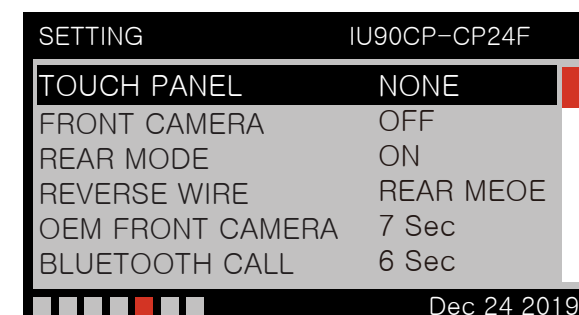
※PLEASE SELECT [CUSTOM], IN ORDER TO USE INPUT FUNCTIONS ON [CUSTOM]※

2-3. SETTING



2-3. SETTING

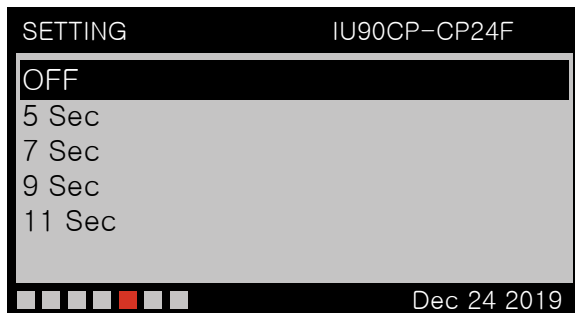
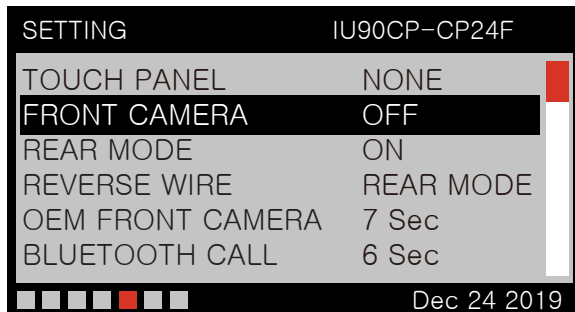
2-3(1). TOUCH PANEL



2-3. SETTING

2-3(2). FRONT CAMERA

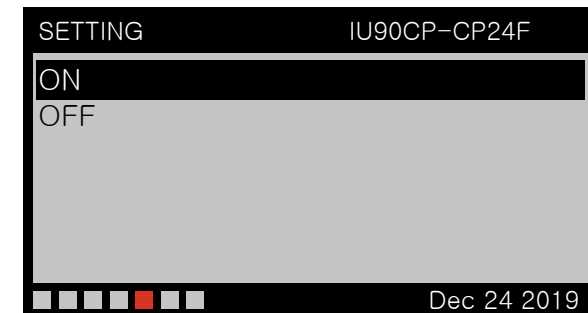
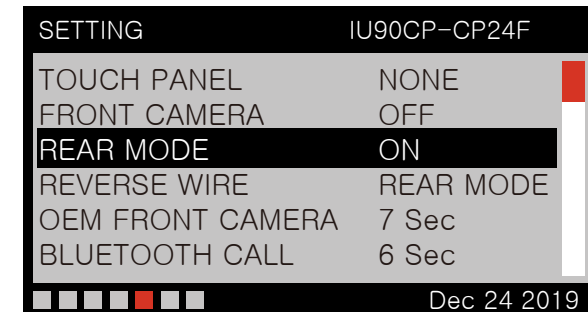
THIS SETTING FUNCTION USES FOR FRONT CAMERA.
IT WILL DISPLAY REAR CAMERA INPUT WHEN PUT THE REVERSE GEAR. AND IT WILL DISPLAY FRONT CAMERA INPUT AUTOMATICALLY WHEN PUT BACK TO DRIVE GEAR.
IT ALSO DISPLAY FRONT CAMERA INPUT AUTOMATICALLY FOR FEW SECONDS WHEN YOU ARE DRIVING.



- OFF : DO NOT USE FRONT CAMERA
- 5 Sec : DISPLAY FRONT CAMERA INPUT FOR 5 SECONDS
- 7 Sec : DISPLAY FRONT CAMERA INPUT FOR 7 SECONDS
- 9 Sec : DISPLAY FRONT CAMERA INPUT FOR 9 SECONDS
- 11 Sec : DISPLAY FRONT CAMERA INPUT FOR 11 SECONDS

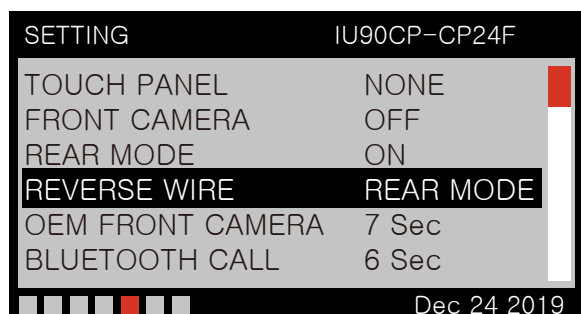
2-3. SETTING

2-3(3). REAR MODE



2-3. SETTING

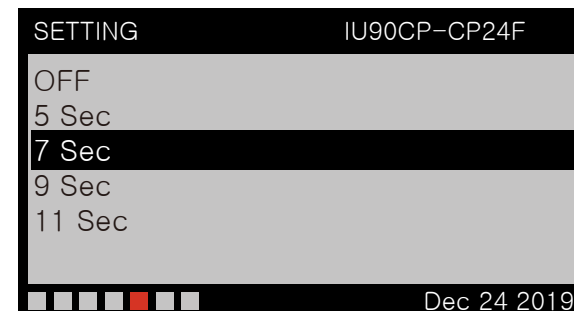
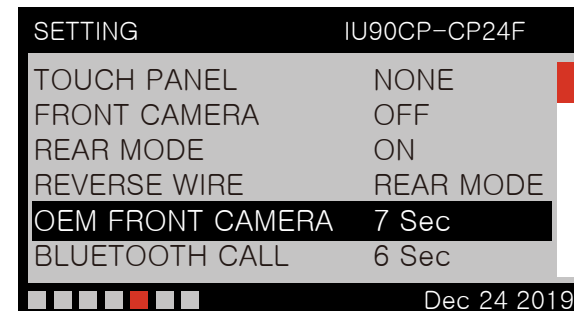
2-3(4). REVERSE WIRE



2-3. SETTING

2-3(5). OEN FRONT CAMERA

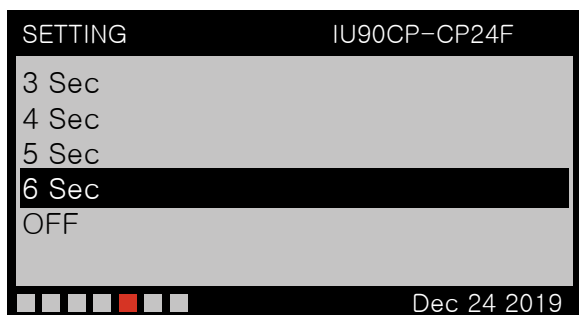
THESE ARE SETTING FUNCTIONS FOR USING FRONT CAMERA OF OEM.



- OFF : DO NOT USE FRONT CAMERA OF OEM
- 5 Sec : DISPLAY OEM FRONT CAMERA INPUT FOR 5 SECONDS
- 7 Sec : DISPLAY OEM FRONT CAMERA INPUT FOR 7 SECONDS
- 9 Sec : DISPLAY OEM FRONT CAMERA INPUT FOR 9 SECONDS
- 11 Sec : DISPLAY OEM FRONT CAMERA INPUT FOR 11 SECONDS

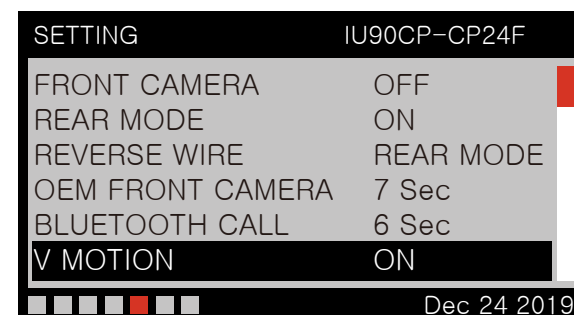
2-3. SETTING

2-3(6). BLUETOOTH CALL



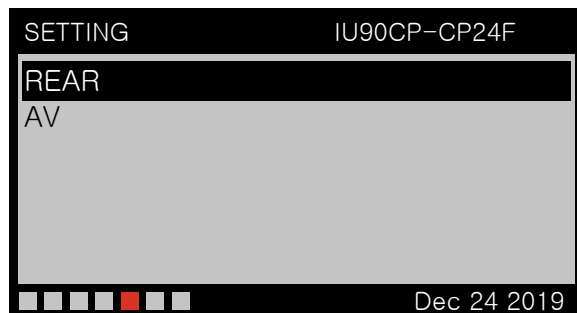
2-3. SETTING

2-3(7). V MOTION



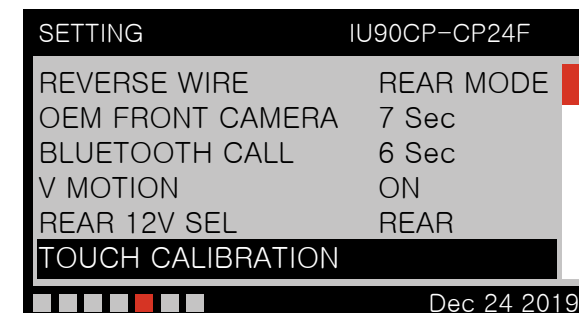
2-3. SETTING

2-3(8). REAR 12V SEL



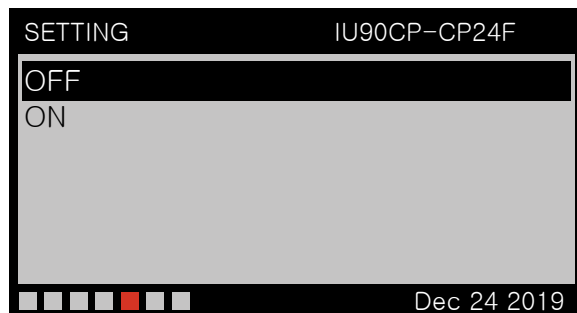
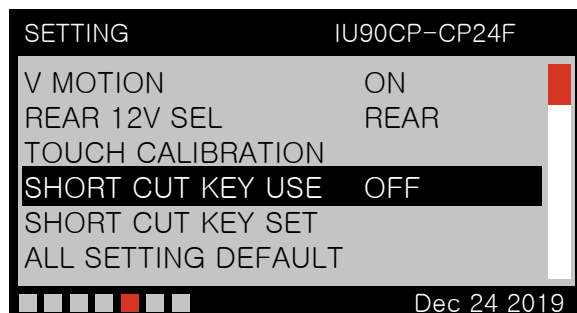
2-3. SETTING

2-3(9). TOUCH CALIBRATION



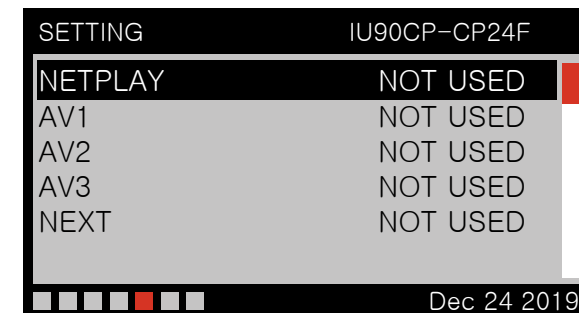
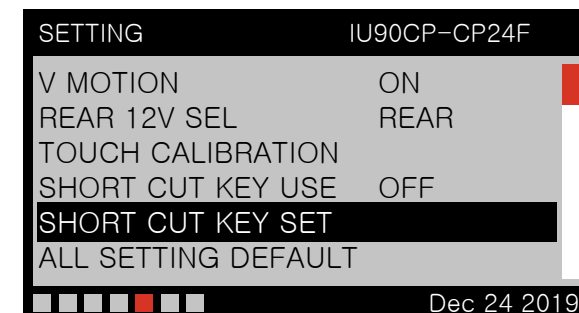
2-3. SETTING

2-3(10). SHORT CUT KEY USE



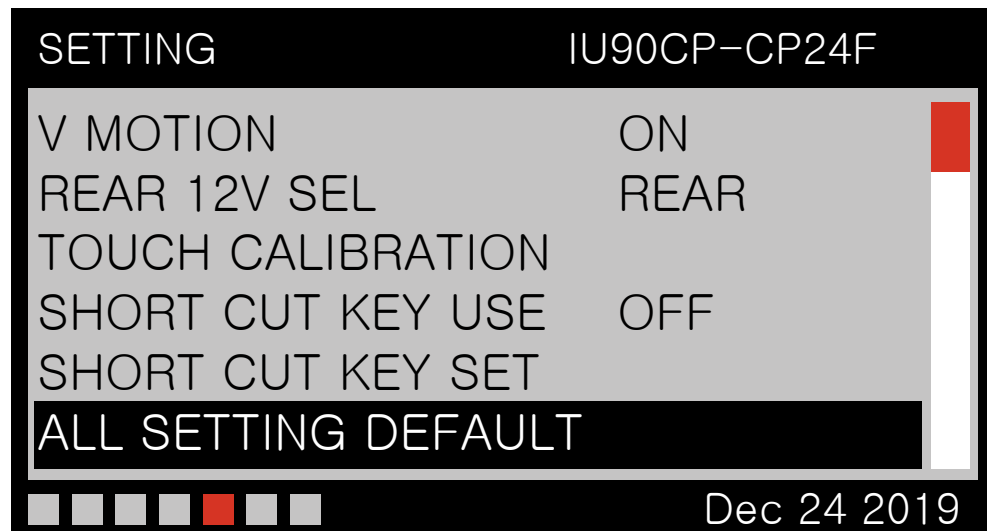
2-3. SETTING

2-3(11). SHORT CUT KEY SET

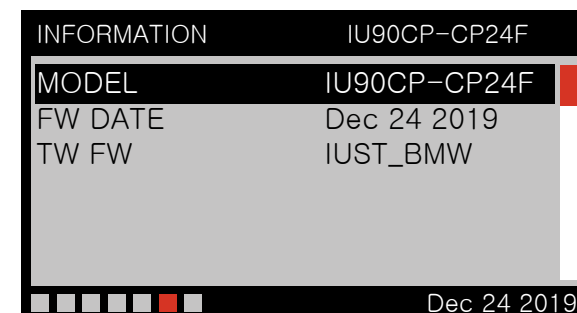


2-3. SETTING

2-3(12). ALL SETTING DEFAULT



2-4. INFORMATION



2-5. EXIT



※ METHOD HOW TO ENTER TO OSD MENU ※

[Video OSD Menu] The method how to enter to Video OSD Menu is press ¹ **OK** button for 4times by R/C, on Navi, AV1, AV2, AV3, HDMI modes. numbers will display per press on screen. Finally, Please press ² **Power** button to enter when the screen appear number 4.

[Rear OSD Menu] The method how to enter to Rear OSD Menu is same as above method.

(pulling reverse gear to move the rear camera mode.)

1 ► 1 ► 1 ► 1 ► 2

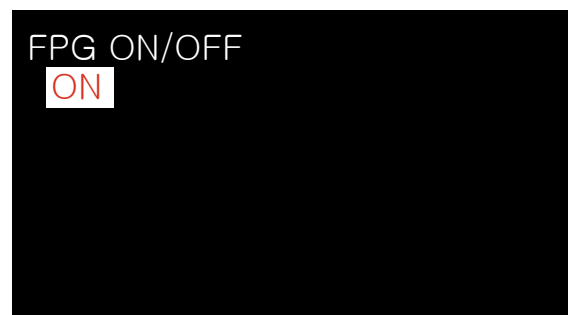
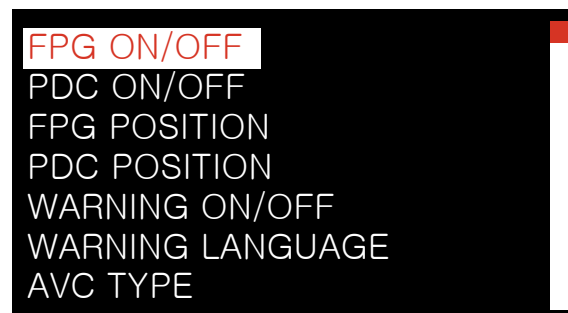


[INTERFACE R/C]

3. REAR OSD DETAILED FEATURES

3-1. FPG ON/OFF

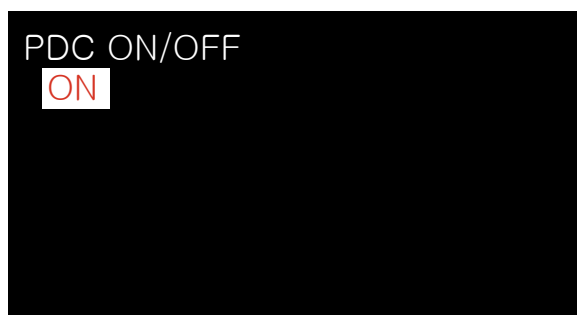
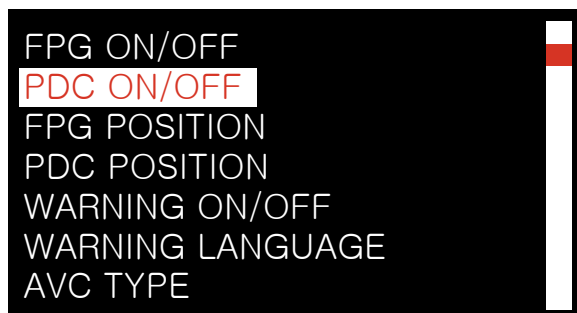
SETTING FPG LINE ON/OFF.



- ON : DISPLAY FPG LINE
- OFF : DO NOT DISPLAY FPG LINE

3-2. PDC ON/OFF

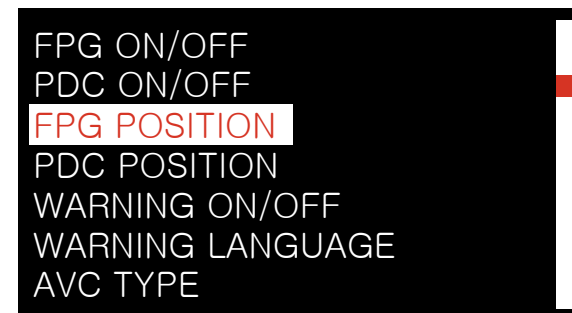
SETTING PDC ON/OFF.



- ON : DISPLAY PDC
- OFF : DO NOT DISPLAY PDC

3-3. FPG POSITION

ADJUST THE POSITION OF FPG LINE.

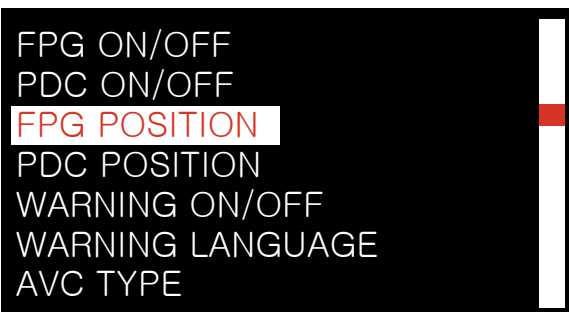


- V POS : MOVE VERTICAL DIRECTION OF FPG LINE
- H POS : MOVE HORIZONTAL DIRECTION OF FPG LINE
- DEFAULT : INITIALIZATION



3-4. PDC POSITION

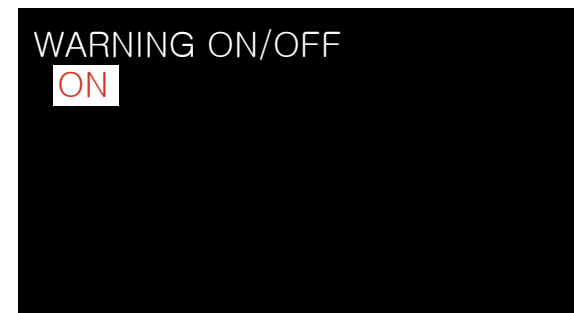
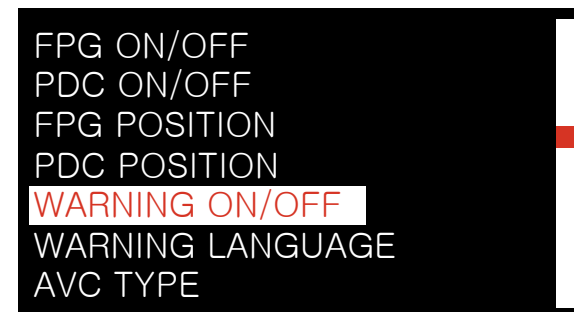
ADJUST THE POSITION OF PDC.



- RIGHT TOP : PDC DISPLAY ON THE UPPER RIGHT OF SCREEN
- LEFT TOP : PDC DISPLAY ON THE UPPER LEFT OF SCREEN

3-5. WARNING ON/OFF

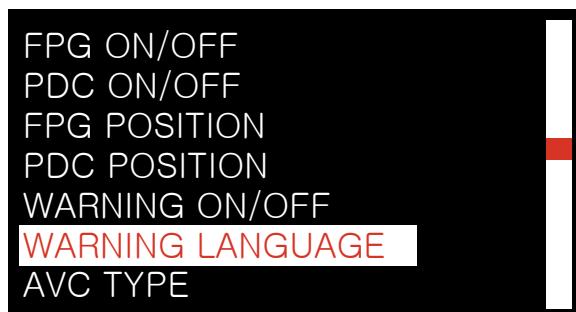
SETTING WARNING ON/OFF.



- ON : DISPLAY REAR WARNING
- OFF : DO NOT DISPLAY REAR WARNING

3-6. WARNING LANGUAGE

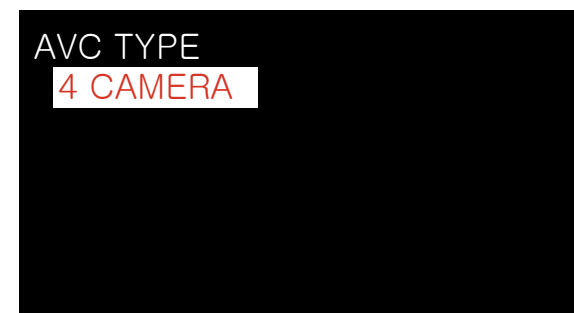
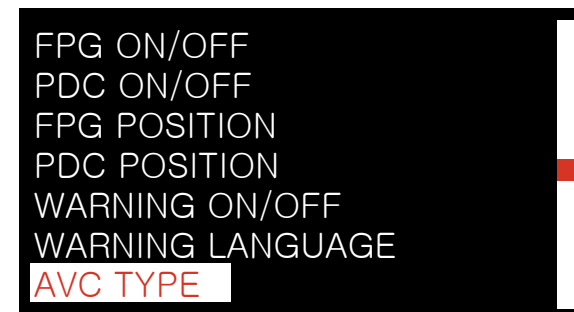
SETTING WARNING LANGUAGE.



- ENGLISH
- KOREAN
- CHINESE

3-7. AVC TYPE

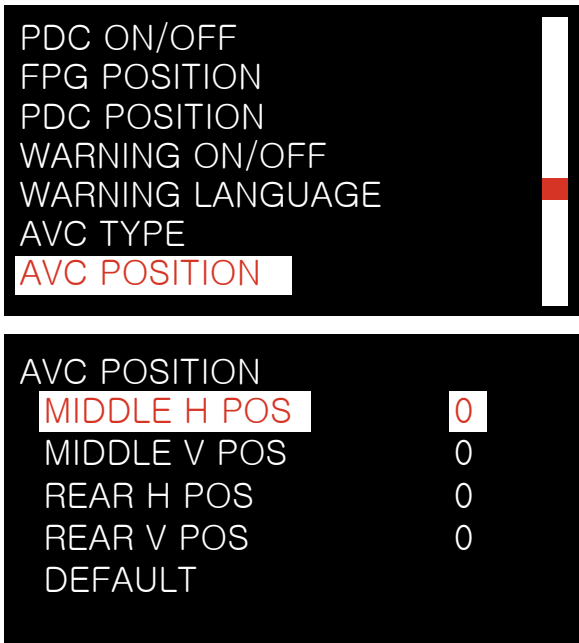
SETTING AROUND VIEW MODE.



- OFF : DO NOT USE AROUND VIEW MODE
- OMNIVUE : USE AROUND VIEW BY OMNIVUE
(SUPPORT AROUND VIEW PARKING LINE)
- 4 CAMERA : USE AROUND VIEW BY CHINESE 4 CAMERA
(SUPPORT AROUND VIEW PARKING LINE)

3-8. AVC POSITION

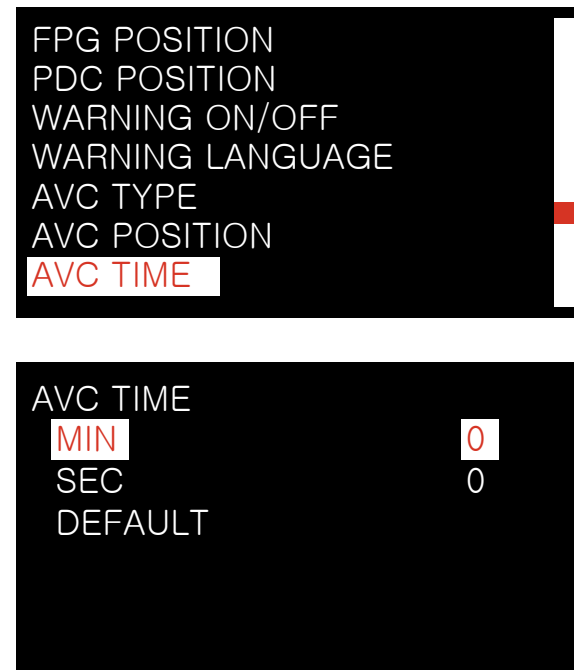
ADJUST THE POSITION OF AROUND VIEW LINE.



- MIDDLE H POS : ADJUST SIDE LINE HORIZONTAL POSITION ON AVC
- MIDDLE V POS : ADJUST SIDE LINE VERTICAL POSITION ON AVC
- REAR H POS : ADJUST REAR LINE HORIZONTAL POSITION ON AVC
- REAR V POS : ADJUST REAR LINE VERTICAL POSITION ON AVC
- DEFAULT : INITIALIZATION

3-9. AVC TIME

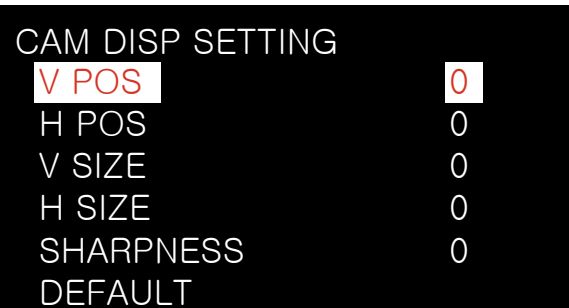
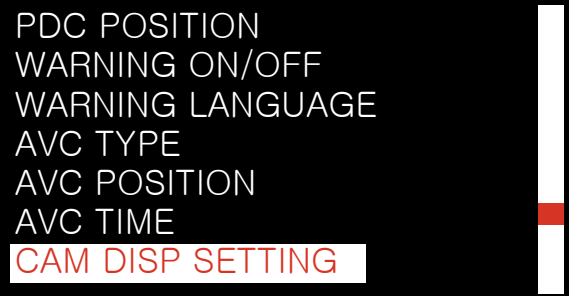
THESE ARE SETTING METHOD WHEN USING AVC.
IT WILL DISPLAY AVC WHEN PUT THE REVERSE GEAR, AND IT WILL STILL ACTIVE FOR PRE-DIFINED AMOUNT OF TIME, ONCE VEHICLE LEAVES REVERSE GEAR..



- MIN : SETTING FOR MINUTES
- SEC : SETTING FOR SECONDS
- DEFAULT : INITIALIZATION

3-10. CAM DISP SETTING

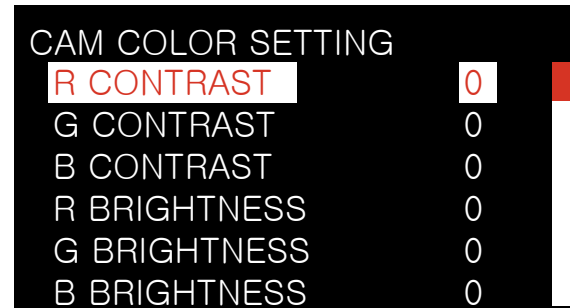
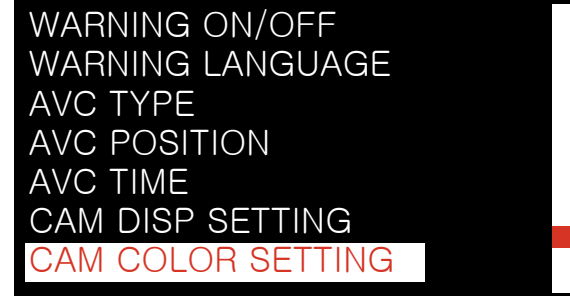
THESE ARE ADJUSTMENT FUNCTIONS FOR VIDEO OUTPUT OF REAR CAMERA WHICH CAN'T COMPATIBLE WITH DISPLAY SCREEN SIZE.



- V POS : VERTICAL MOVEMENT
- H POS : HORIZONTAL MOVEMENT
- V SIZE : VERTICAL ENLARGEMENT OR REDUCTION
- H SIZE : HORIZONTAL ENLARGEMENT OR REDUCTION
- SHARPNESS : ADJUST THE SHARPNESS
- DEFAULT : INITIALIZATION

3-11. CAM COLOR SETTING

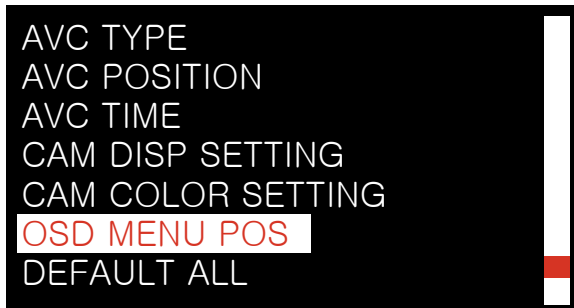
THESE ARE ADJUSTMENT FUNCTIONS FOR VIDEO CONTRAST AND VIDEO BRIGHTNESS OF GPS BOX.



- R CONTRAST : ADJUST RED OF CONTRAST
- G CONTRAST : ADJUST GREEN OF CONTRAST
- B CONTRAST : ADJUST BLUE OF CONTRAST
- R BRIGHTNESS : ADJUST RED OF BRIGHTNESS
- G BRIGHTNESS : ADJUST GREEN OF BRIGHTNESS
- B BRIGHTNESS : ADJUST BLUE OF BRIGHTNESS
- DEFAULT : INITIALIZATION

3-12. OSD MENU POS

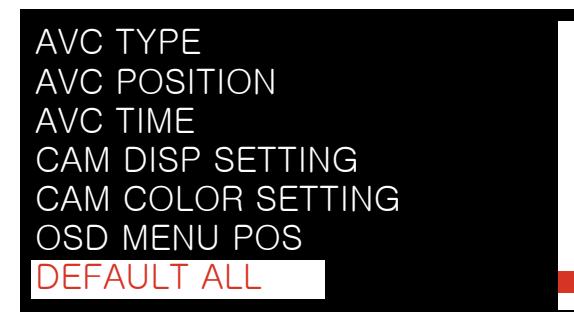
THESE ARE ADJUSTMENT FUNCTIONS FOR MOVING POSITION OF OSD MENU. IT WILL BE USED WHEN OVERSHADOWED SETTING IMPOSSIBLE.



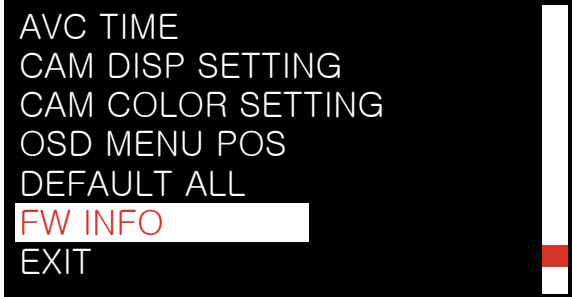
- RIGHT TOP : OSD MENU DISPLAY ON UPPER RIGHT OF SCREEN
- LEFT TOP : OSD MENU DISPLAY ON UPPER LEFT OF SCREEN

3-13. DEFAULT ALL

INITIALIZE ALL MODES OF REAR OSD MENU SETTING.



3-14. FW INFO



3-15. EXIT

INITIALIZE ALL MODES OF REAR OSD MENU SETTING.

