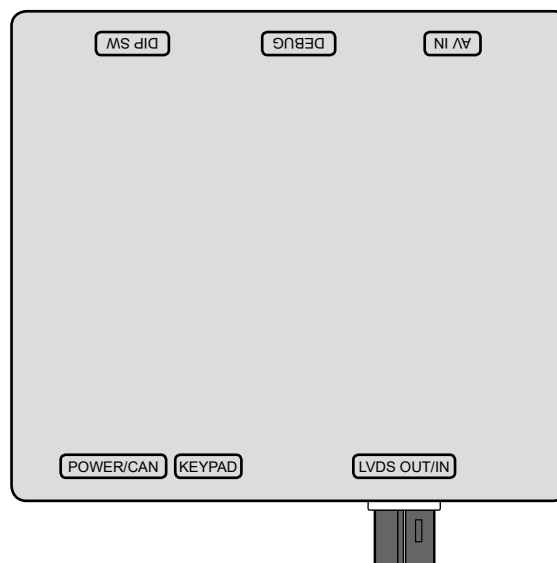


# Instruction Manual














REAR INTERFACE for Mercedes NTG6(MBUX),NTG5.5

**27-592-HW**



Model Name	27-592-HW
Latest Firmware Date	2019 - 09 - 03
Manual Version	Rev. 1.5
Language	English

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- **Full Installation Diagram **NTG5.5**** \_\_\_\_\_ 
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  - **Settings AV1 (FRONT VIEW) (**OEM Camera delay time setting**)** \_\_\_\_\_ 
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# Car Compatibility Chart

## Comand NTG 5.5

Car Models	Specific Models	Production Year	Specific Models	Screen Size
C-CLASS	W205	2018 -	- Mercedes Comand APS NTG 5.5 * <b>facelift</b>	7 inch
				10.25 inch
E-CLASS	W213	2016 -	- Mercedes Comand APS NTG 5.5	12.3 inch
CLS-CLASS	C257	2018 -	- Mercedes Comand APS NTG 5.5	12.3 inch
S-CLASS (facelift)	W222	2018 -	- Mercedes Comand APS NTG 5.5	12.3 inch
G-CLASS	W463	2018 -	- Mercedes Comand APS NTG 5.5	12.3 inch



Mercedes NTG5.5 <10.2 inch>



Mercedes NTG6 MB-UX <10.25 inch>

## Comand NTG 6 <MB-UX>

Car Models	Specific Models	Production Year	Specific Models	Screen Size
A-Class	W177 V177	2018 -	- Mercedes Comand APS MB-UX	7 inch
				10.25 inch
Sprinter	VS30	2018 -	- Mercedes Comand APS MB-UX	7 inch
				10.25 inch



2019 A-Class



2019 C-Class  
\***facelift**



E-Class



2019 CLS-Class



2019 S-Class  
\***facelift**



2019 G-Class



2019 Sprinter

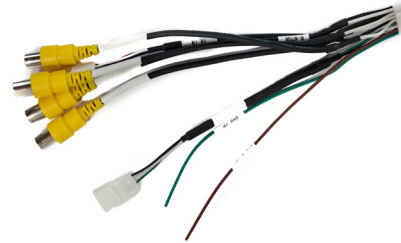
# Components



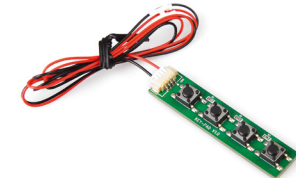
**1.Power Cable**



**2.LVDS Cable**



**3.AV Cable**



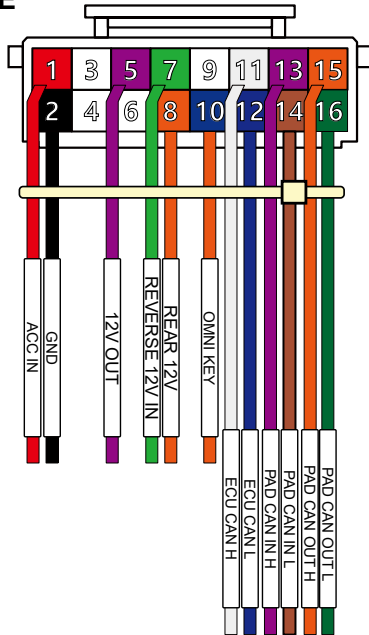
**4.KEYPAD**



**5.IR Sensor**

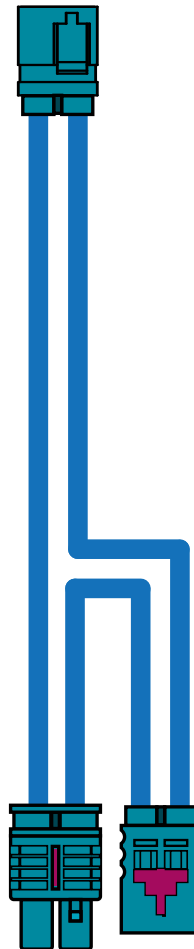
# Body Connector specifications

**POWER/CAN CABLE**

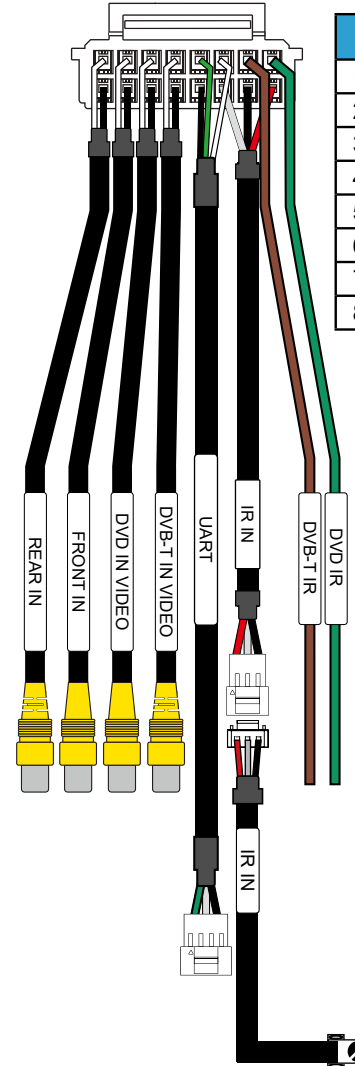


POWER / CAN CABLE		
1	BATTERY POWER INPUT	9
2	GROUND	10
3		11
4		12
5	12V(ACC) OUT	13
6		14
7	REVERSE 12V IN	15
8	REAR 12V POWER OUT	16

**LVDS OUT CABLE**



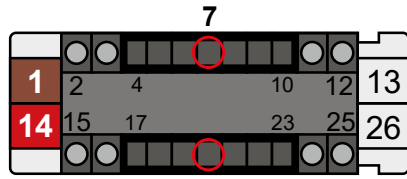
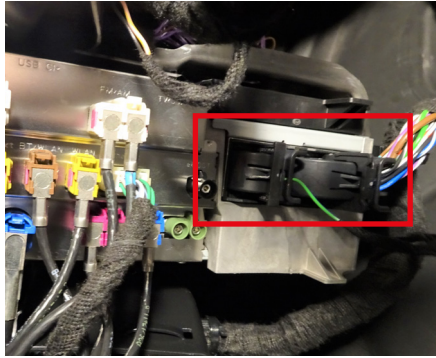
**AV CABLE**



AV CABLE			
1	RV-CAM VIDEO INPUT	9	GND (RV-CAM VIDEO)
2	FRONT CAM VIDEO INPUT	10	GND (FRONT-CAM)
3	DVD VIDEO INPUT	11	GND (DVD)
4	DVB-T VIDEO INPUT	12	GND(DVB-T)
5	UART RX	13	UART (GND)
6	UART TX	14	IR (IR Signal)
7	DVB-T IR IN	15	IR (GND)
8	DVD-T IR IN	16	IR (Power)

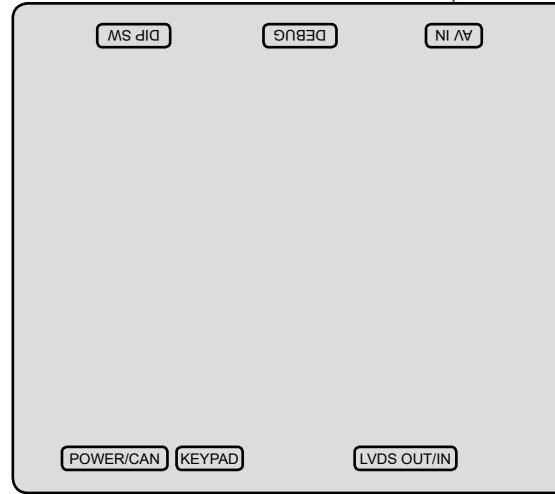
# Full Installation Diagram <NTG6 MB-UX>

## MBUX 10.25 inch Head Unit Main Connector

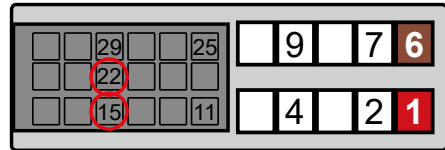
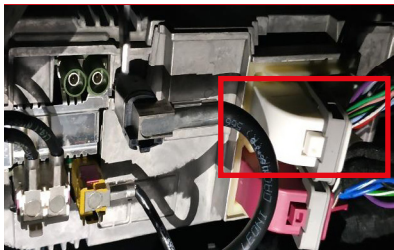


- (Red) B+ Pin # 14 = ■
- (Brown) Ground Pin # 1 = ■
- Pas Can High Pin # 7 = ■ (Purple/White)
- Pas Can Low Pin # 20 = ■ (Purple)

Click Go to contents page

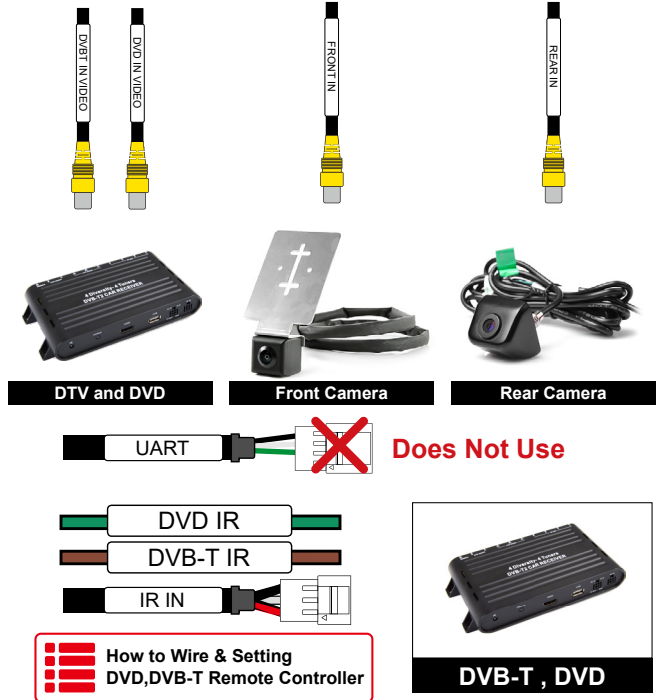


## MBUX 7inch Head Unit Main Connector



- (Red) B+ Pin # 1 = ■
- (Brown) Ground Pin # 6 = ■
- Pas Can High Pin # 15 = ■ (Purple/White)
- Pas Can Low Pin # 22 = ■ (Purple)

## AV IN Port



## 12V ACC Power Out

For external device (Front Cam, DVD,DTV,etc..) Power

## REVERSE IN

When the reverse gear is not detected by CAN-BUS, the 'REVERSE 12V IN wire' should be spliced with 12V power of reverse light.

## REAR 12V

For the external rear view camera power When the shift gear to reverse. the power will be "ON"

12V ACC Power Out

Reverse IN

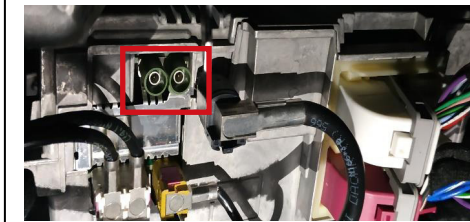
Rear 12V

OMNI KEY

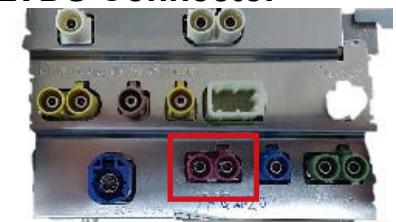
Does Not Use

Does Not Use

## MBUX 7inch Head Unit LVDS Connector



## MBUX 10.25 Head Unit LVDS Connector

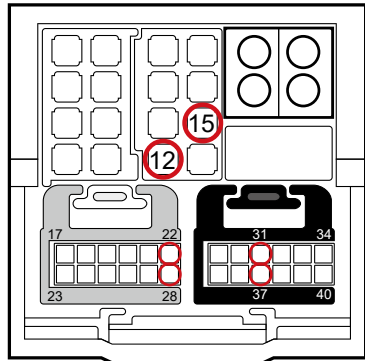


OEM LVDS Cable

# Full Installation Diagram <NTG5.5>

Click  
Go to contents page

## Mercedes NTG5.5 Head Unit Main Connector



- (Red) B+ Pin # 15 = ■
- (Brown) Ground Pin # 12 = ■
- (Purple/White) Pas Can High Pin # 37 = ■
- (Purple) Pas Can Low Pin # 31 = ■
- (Black/White) CMD CAN H Pin # 28 = ■
- (Black) CMD CAN L Pin # 22 = ■

### 12V ACC Power Out

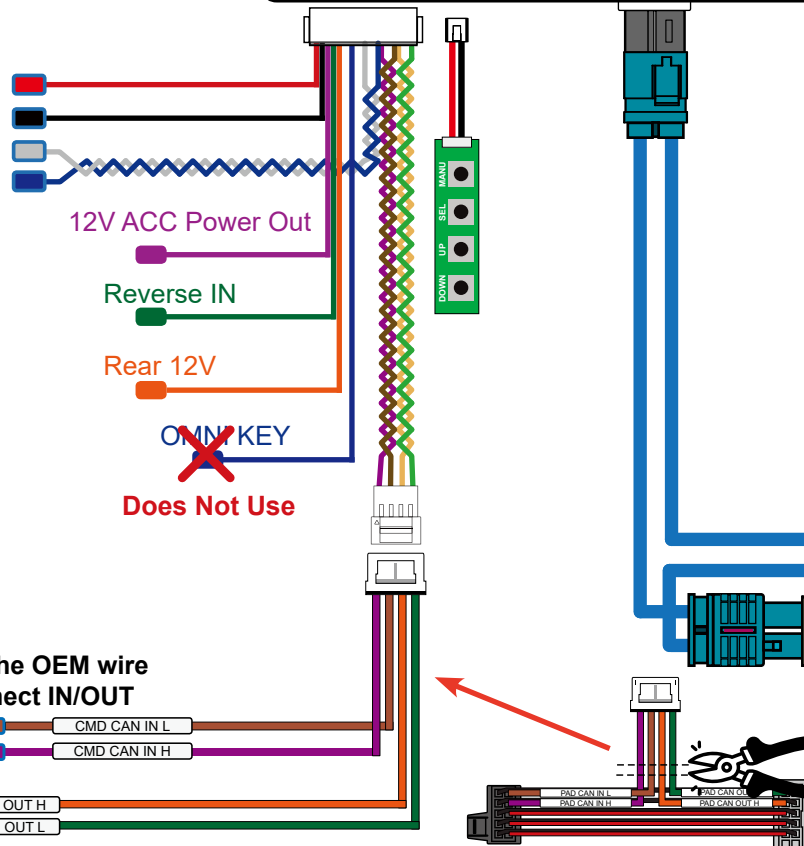
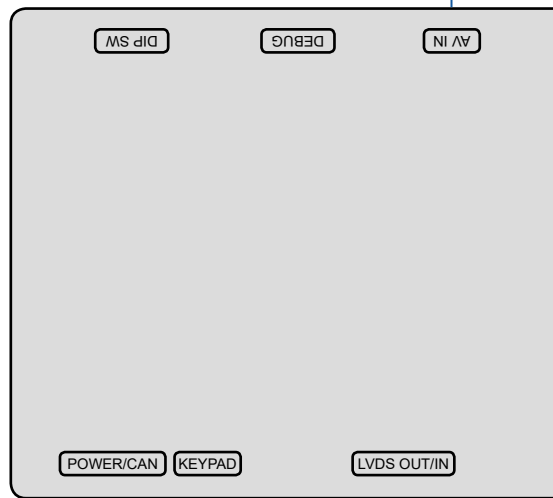
For external device (Front Cam, DVD,DTV, etc..) Power

### REVERSE IN

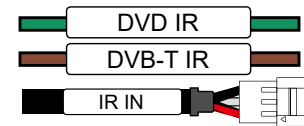
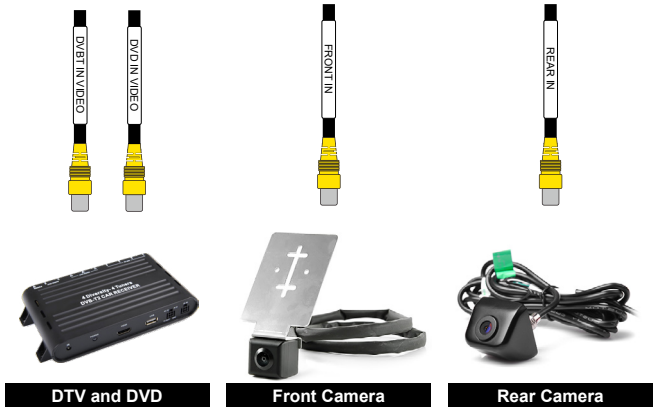
When the reverse gear is not detected by CAN-BUS, the 'REVERSE 12V IN wire' should be spliced with 12V power of reverse light.

### REAR 12V

For the external rear view camera power  
When the shift gear to reverse, the power will be "ON"



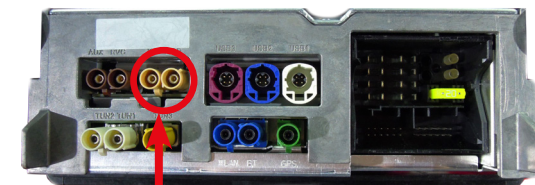
## AV IN Port



How to Wire & Setting  
DVD, DVB-T Remote Controller

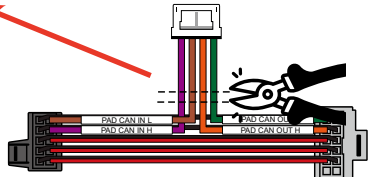
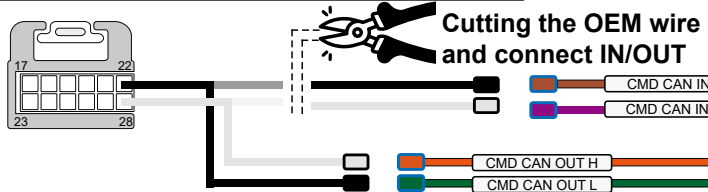


## Mercedes NTG5.5 Head Unit

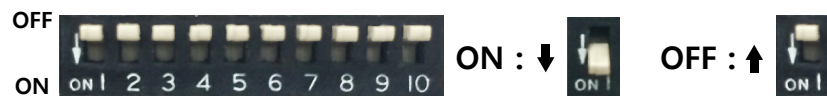


LVDS Cable

OEM LVDS Cable



# DIP Switch Settings

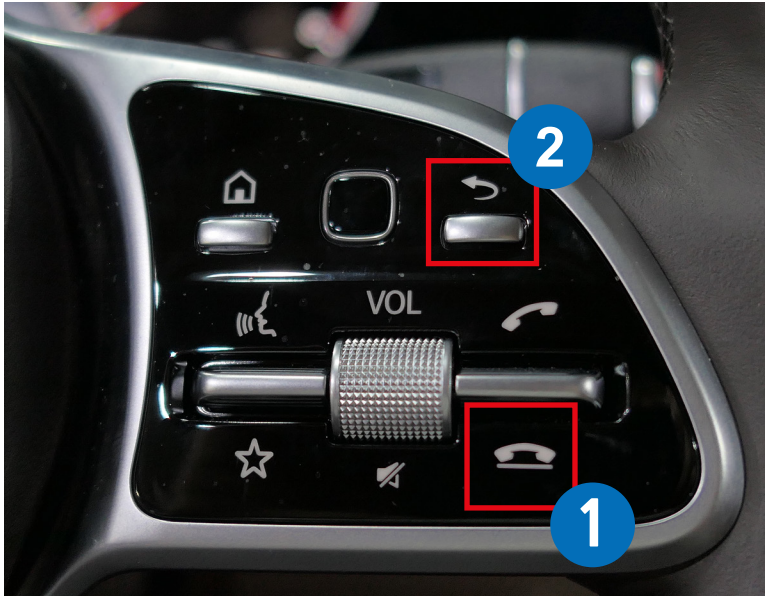


PIN	ON (▼)	OFF(▲)
1	External Rear View Camera	Original Rear View Mode <b>(OEM CAMERA)</b>
2	External Front View Camera(AV1 Mode)	<b>Skip</b> External Front View Camera(AV1 Mode)
3	DVB-T Mode	<b>Skip</b> DVB-T Mode
4	DVD Mode	<b>Skip</b> DVD Mode
5	<b>Not Used (default "OFF")</b>	
6	<b>Not Used (default "OFF")</b>	
7	Select car model	
8		
9		
10		

No.7	No.8	No.9	No.10	Car Model	Code Name	Screen Size
OFF(▲)	OFF(▲)	OFF(▲)	OFF(▲)	A-Class	W177 V177	10.25 inch
OFF(▲)	OFF(▲)	ON (▼)	OFF(▲)	A-Class	W177 V177	7 inch
OFF(▲)	OFF(▲)	OFF(▲)	ON (▼)	C-Class <i>*facelift</i>	W205	10.25 inch
				E-Class	W213	
				Sprinter	VS30	
OFF(▲)	OFF(▲)	ON (▼)	ON (▼)	C-Class <i>*facelift</i>	W205	



# Activation by original buttons



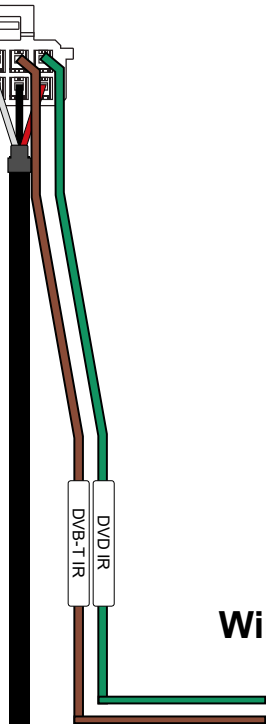
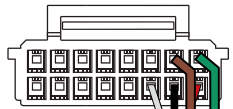
**W213 Steering Wheel Buttons**

Button	Function	Operation	Remarks
<b>2</b> Back	Changing Modes (Front Cam)	Press the button 2 seconds	Order : AV1 (Front View Camera)
		Press the button short time	Order : AV1 → Previous screen
<b>1</b> Hang up	Changing Modes	Press the button 2 seconds	Order : DVB-T → DVD → OEM

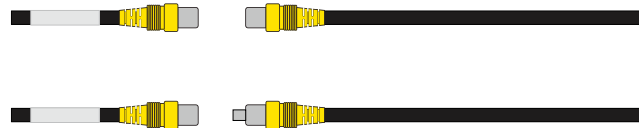
# DVB-T Diagram

## DVB-T OR DVD DEVICE

### AV CABLE



### CVBS



Wire To DVB-T IR  
DVD IR

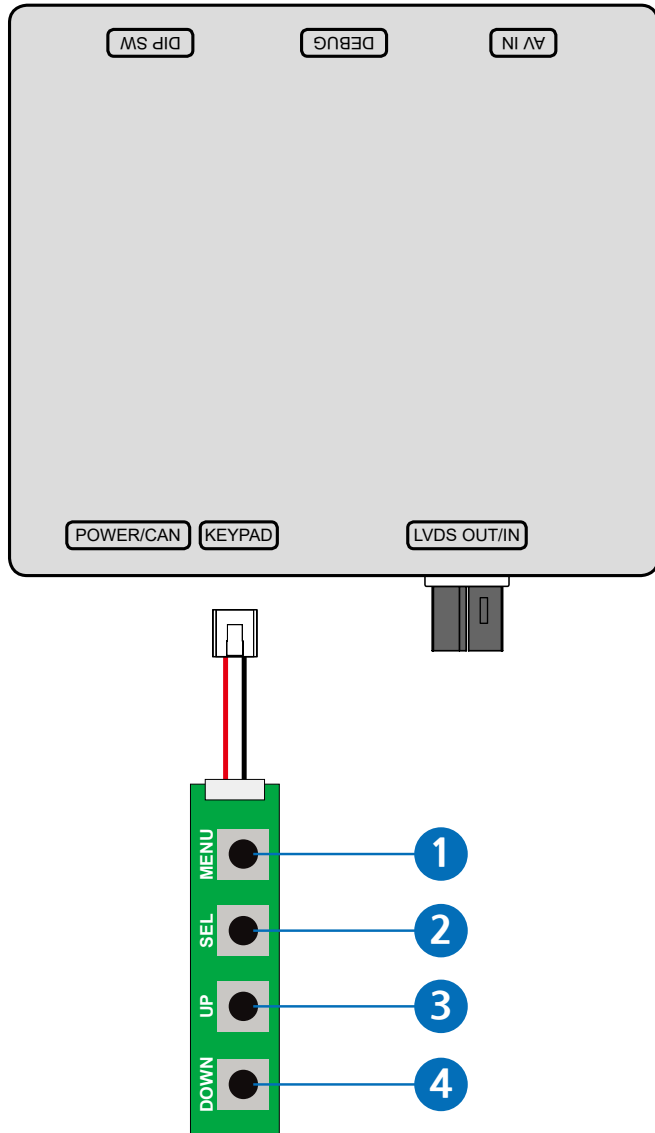
### IR SIGNAL IN



DVB-TV IR Sensor	
Red	POWER
White	SIGNAL
Black	GROUND



# Settings (How To Use KEYPAD)



## KEYPAD - Function #1


Button	Function	Operation	Remarks
1 MENU	Changing Modes	Press the button short time	Order : Front View → DVB-T → DVD → OEM
2 SEL	Enter into the setting menu	Press the button short time	

## KEYPAD - Function #2

Button	Function	Operation
1 MENU	Back to previous menu When press the button short.	Press the button short time
2 SEL	Select the setting menu and setting values.	Press the button short time
3 UP      4 DOWN	Move the menu-pointer and adjust the setting values	Press the button short time

# Settings

HDMI	INPUT SOURCE	OEM CAMERA
NAVIGATION	BRIGHT	AVM (AROUND VIEW)
REAR VIEW	CONTRAST RED	EXTERNAL CAMERA
FRONT VIEW	CONTRAST GREEN	
DTV	CONTRAST BLUE	
DVD		
CUSTOM		
EXIT		

DIP SWITCH INFO : 

FIRMWARE DATE :  
MAIN : 2018-03-02  
SUB : 2018-03-02  
TW23 : 2018-03-02

## REAR VIEW INPUT - OEM CAMERA


### - INPUT SOURCE

- OEM CAMERA
- **AVM** ( 360° Around View Camera )
- EXTERNAL CAMERA

### - BRIGHT and CONTRAST

Adjust the values of brightness and contrast

HDMI	INPUT SOURCE	AVM ( AROUND VIEW )
NAVIGATION	BRIGHT	128
REAR VIEW	CONTRAST RED	128
FRONT VIEW	CONTRAST GREEN	128
DTV	CONTRAST BLUE	128
DVD	AVM KEEPING TIME R → D	7 Sec
CUSTOM	AVM KEEPING TIME P → D	7 Sec
EXIT	PGS ON / OFF	OFF
	PGS - HORIZONTAL	128
	PGS - VERTICAL	128
	PDC ON / OFF	OFF

DIP SWITCH INFO : 

FIRMWARE DATE :  
MAIN : 2018-03-02  
SUB : 2018-03-02  
TW23 : 2018-03-02

## REAR VIEW INPUT - AVM

### - BRIGHT and CONTRAST

Adjust the values of brightness and contrast

### - AVM KEEPING TIME

- When you shift gear 'from reverse to drive' or 'from parking to drive', it just works automatically during the activation time you selected.

### - PGS (Parking Guide System)

- Adjust position of parking guide lines and select the lines 'ON or OFF'.


### - PDC (Graphic Sensor Image)

- Sensor Image 'ON or OFF'.

# Settings

HDMI	INPUT SOURCE	EXTERNAL CAMERA
NAVIGATION	BRIGHT	128
REAR VIEW	CONTRAST RED	128
FRONT VIEW	CONTRAST GREEN	128
DTV	CONTRAST BLUE	128
DVD	PGS ON / OFF	OFF
CUSTOM	PGS - HORIZONTAL	128
EXIT	PGS - VERTICAL	128
	PDC ON / OFF	OFF

<b>DIP SWITCH INFO :</b> 	<b>FIRMWARE DATE :</b> MAIN : 2018-03-02 SUB : 2018-03-02 TW23 : 2018-03-02
---	--

## REAR VIEW INPUT - EXTERNAL CAMERA

### - BRIGHT and CONTRAST

Adjust the values of brightness and contrast


### - PGS (Parking Guide System)

· Adjust position of parking guide lines and select the lines 'ON or OFF'.

### - PDC (Graphic Sensor Image)

· Sensor Image 'ON or OFF'.


# Settings

HDMI	INPUT SOURCE	OEM CAMERA
NAVIGATION	CAM KEEPING TIME R → D	7 Sec
REAR VIEW	CAM KEEPING TIME P → D	7 Sec
<b>FRONT VIEW</b>		
DTV		
DVD		
CUSTOM		
EXIT		
DIP SWITCH INFO :		FIRMWARE DATE :
		MAIN : 2018-03-02 SUB : 2018-03-02 TW23 : 2018-03-02

## FRONT VIEW INPUT - OEM CAMERA

### - CAM KEEPING TIME

- When you shift gear 'from reverse to drive' or 'from parking to drive', it just works automatically during the activation time you selected.

HDMI	INPUT SOURCE	EXTERNAL CAMERA
NAVIGATION	BRIGHT	128
REAR VIEW	CONTRAST RED	128
<b>FRONT VIEW</b>	CONTRAST GREEN	128
DTV	CONTRAST BLUE	128
DVD	CAM KEEPING TIME R → D	7 Sec
CUSTOM	CAM KEEPING TIME P → D	7 Sec
EXIT		
DIP SWITCH INFO :		FIRMWARE DATE :
		MAIN : 2018-03-02 SUB : 2018-03-02 TW23 : 2018-03-02

## FRONT VIEW INPUT - EXTERNAL CAMERA

### - BRIGHT and CONTRAST

Adjust the values of brightness and contrast

### - FRONT CAM KEEPING TIME

- When you shift gear 'from reverse to drive' or 'from parking to drive', it just works automatically during the activation time you selected.

### - PDC (Graphic Sensor Image)


- Sensor Image 'ON or OFF'.



Click  
Go to contents page

# Settings

HDMI	BRIGHT	128
NAVIGATION	CONTRAST RED	128
REAR VIEW	CONTRAST GREEN	128
FRONT VIEW	CONTRAST BLUE	128
<b>DTV</b>	REMOTE OSD ON / OFF	ON
<b>DVD</b>	REMOTE TYPE	ALPINE
CUSTOM	MEMORY UP <b>1</b>	0x807f807f
EXIT	MEMORY DOWN <b>2</b>	0x807f807f
	MEMORY LEFT <b>3</b>	0x807f807f
	MEMORY RIGHT <b>4</b>	0x807f807f
	MEMORY OK <b>5</b>	0x807f807f
	MEMORY MENU <b>6</b>	0x807f807f
	MEMORY EXIT <b>7</b>	0x807f807f
	MEMORY ETC1 <b>8</b>	0x807f807f
	MEMORY ETC2 <b>9</b>	0x807f807f

**DIP SWITCH INFO :** 

**FIRMWARE DATE :**  
 MAIN : 2018-03-02  
 SUB : 2018-03-02  
 TW23 : 2018-03-02

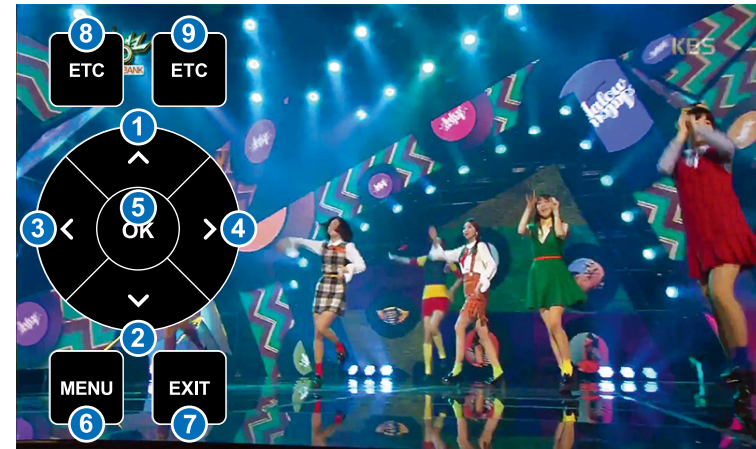
## DTV , DVD

### - BRIGHT and CONTRAST

Adjust the values of brightness and contrast

### - REMOTE OSD ON / OFF

· You can control to some of function on DTV remote control by OSD UI



### - REMOTE TYPE

· ALPINE

· GEX909DTV

· HIT7700