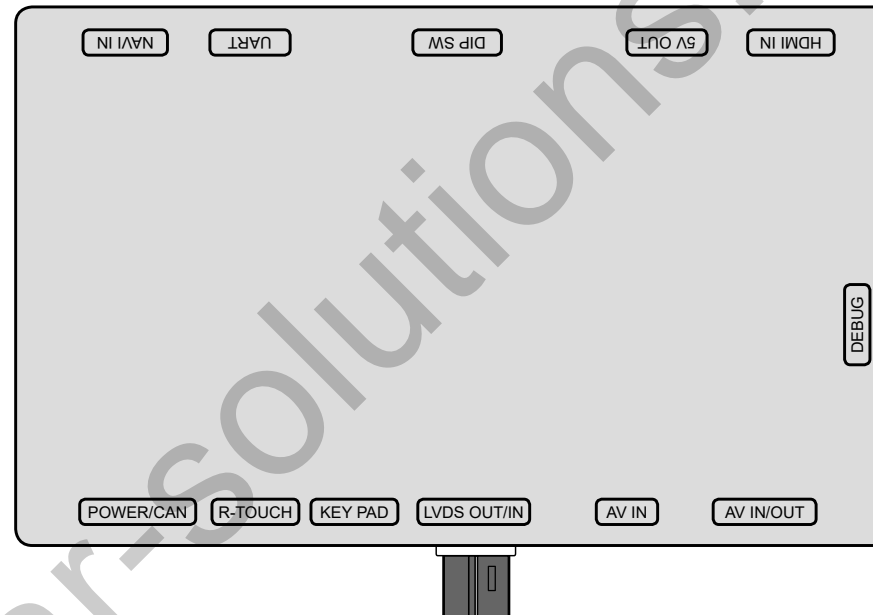


Instruction Manual

High-Definition Link for Mercedes NTG6(MB-UX),NTG55



Latest Firmware Date	2019 - 07 - 23
Manual Version	Rev. 1.3
Language	English

Contents

- Car Compatibility Char _____ 
- Components & Optional Parts _____ 
- Body Connector specifications _____ 
- Full Installation Diagram **NTG6 MB-UX** _____ 
- Full Installation Diagram **NTG5.5** _____ 
- HDMI,NAVI,DVB-T,DVD,External Rear Cam & AV1 Script _____ 
- How to Connected **HDMI,NAVI** _____ 
- Dip Switich Settings _____ 
- Activation by original buttons **NTG6** _____ 
- Activation by original buttons **NTG5.5** _____ 
- DVB-T Connection Diagram _____ 
- Settings **(How To Use KEYPAD)** _____ 
- Settings HDMI _____ 
- Settings HDMI, NAVIGATION _____ 
- Settings REAR VIEW _____ 
- Settings REAR VIEW _____ 
- Settings AV1 (FRONT VIEW) **(OEM Camera delay time setting)** _____ 
- Settings AV2 (DVB-T, DVD) _____ 

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 * facelift	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. Main Power Cable



2. LVDS Cable



3. AV IN / OUT Cable



4. AV Cable



5. IR Sensor



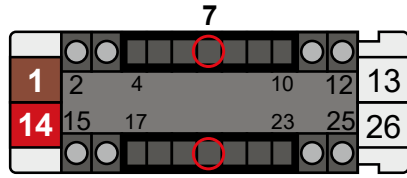
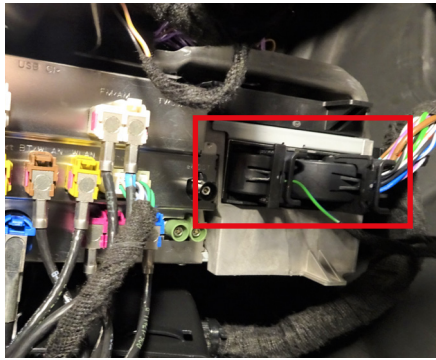
6. KEYPAD

Optional Parts (sold separately at the indiwork)



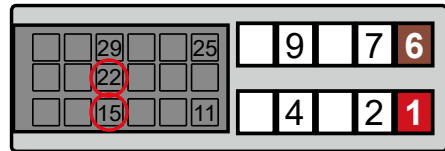
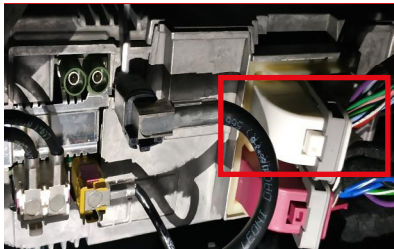
Full Installation Diagram <NTG6 MB-UX>

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)

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)

12V ACC Power Out

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

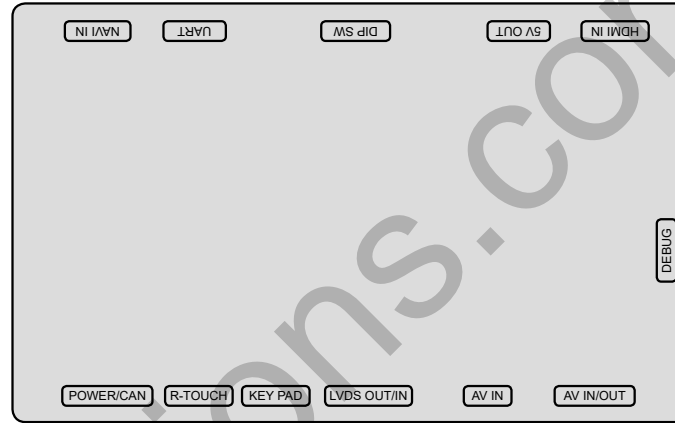
REVERSE IN

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

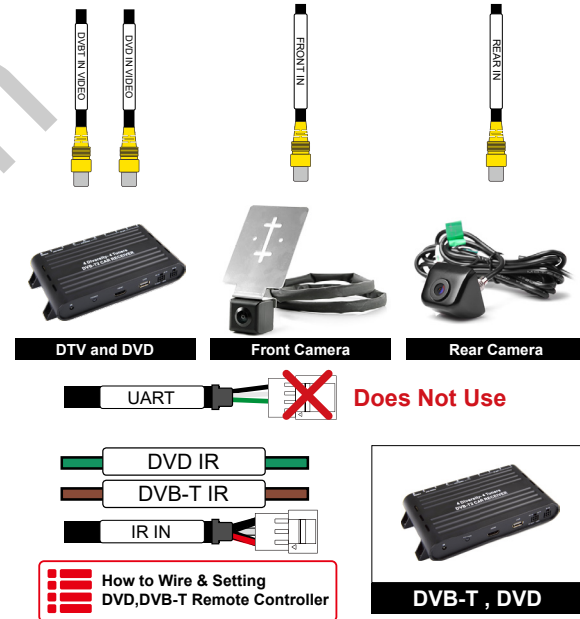
REAR 12V

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

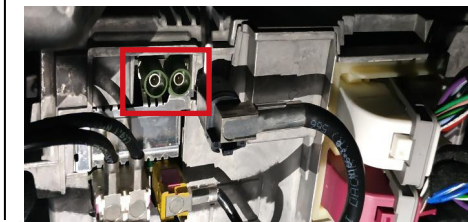
support@car-solutions.com



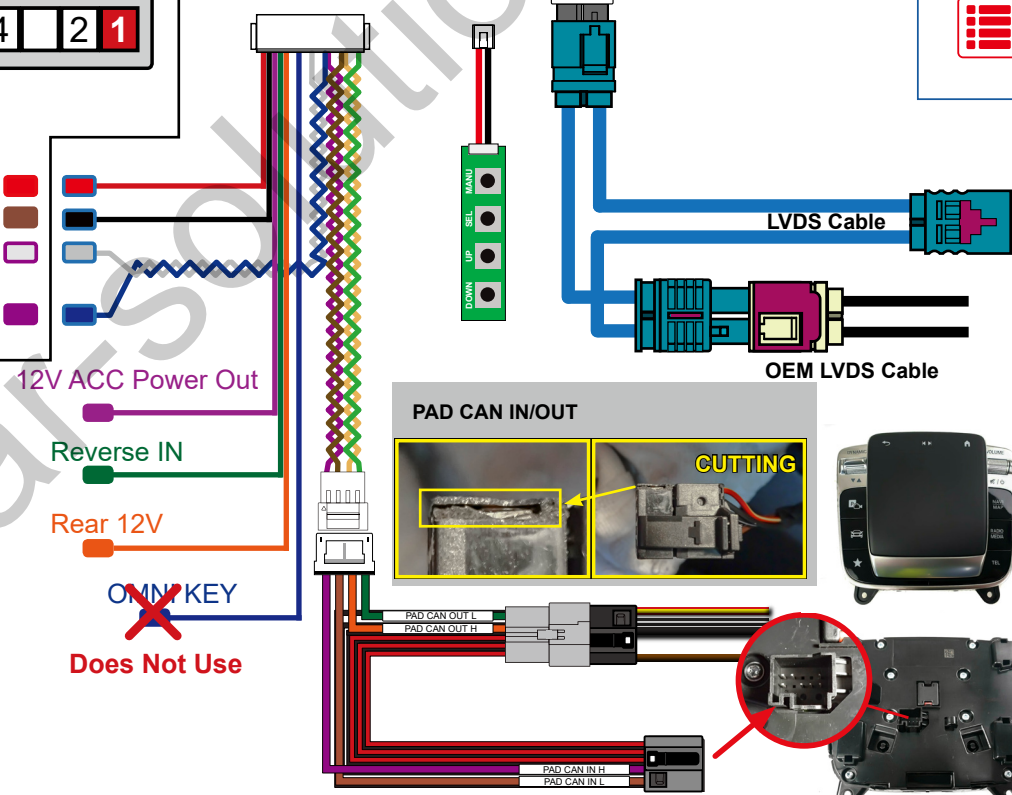
AV IN Port



MBUX 7inch Head Unit LVDS Connector



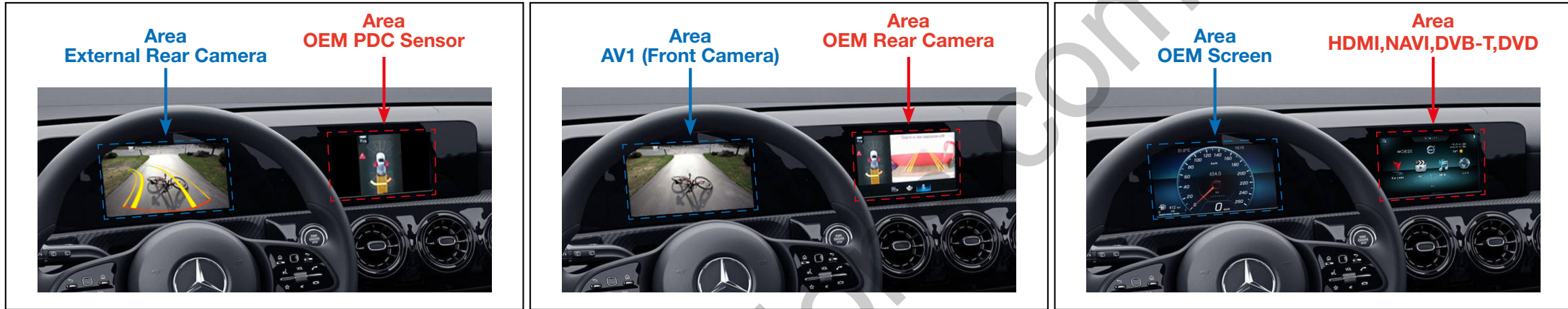
MBUX 10.25 Head Unit LVDS Connector



car-solutions.com

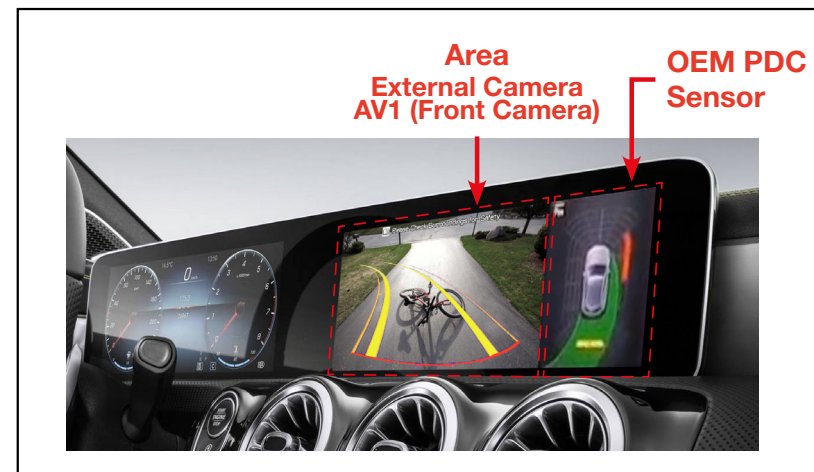
HDMI,NAVI,DVB-T,DVD, External Rear Camera & AV1 (FRONT CAMERA) Script

NTG6 "7inch" OEM Screen Type



※ It is the fixed. Can not change screen from left to right

NTG6 "10.25inch" OEM Screen Type

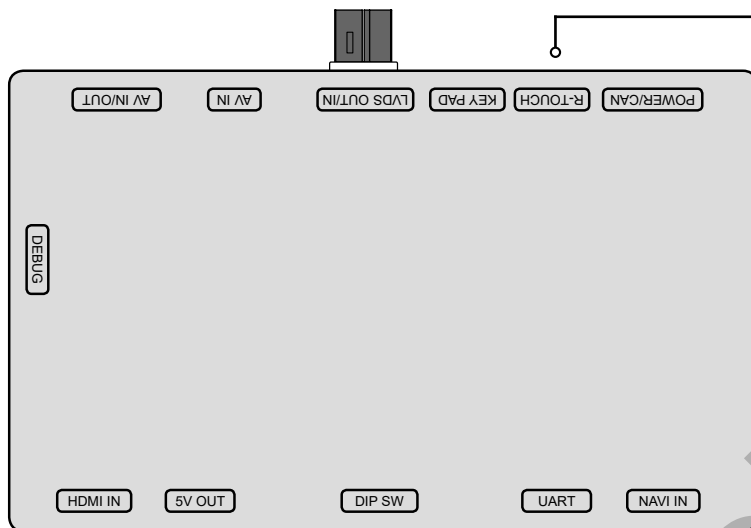


How to Connected HDMI , NAVI (Android)

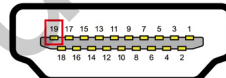
Touch Cable Spec



PIN #1	X -
PIN #2	Y -
PIN #3	X +
PIN #4	Y +



NAVI IN PORT UART TOUCH



Pin # 19 = Uart TX

Support Device

- A-LINK II
- M2C-100IW
- NV17
- NV100

Support OEM Touch PAD *Only "A-LINK"



Connected Touch by UART



HDMI DEVICE



Supports Only 720P

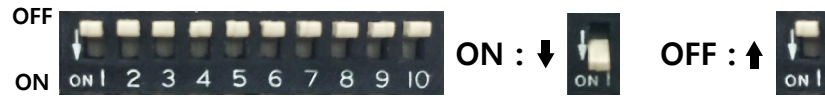
support@car-solutions.com

NAVI DEVICE (4CH LVDS)



N-LINK II (Gps Box *Only Korea) A-LINK (Android Box)

DIP Switch Settings



PIN	ON (▼)	OFF(▲)
1	HDMI Mode	Skip HDMI Mode
2	Navigation Mode	Skip Navigation Mode
3	External Rear View Camera	Original Rear View Mode (OEM CAMERA)
4	External Front View Camera(AV1 Mode)	Skip External Front View Camera(AV1 Mode)
5	AV2(DVBT) Mode	Skip AV2(DVBT) Mode
6	AV3(DVD) Mode	Skip AV2(DVD) Mode
7	Select car model	
8		
9		
10		

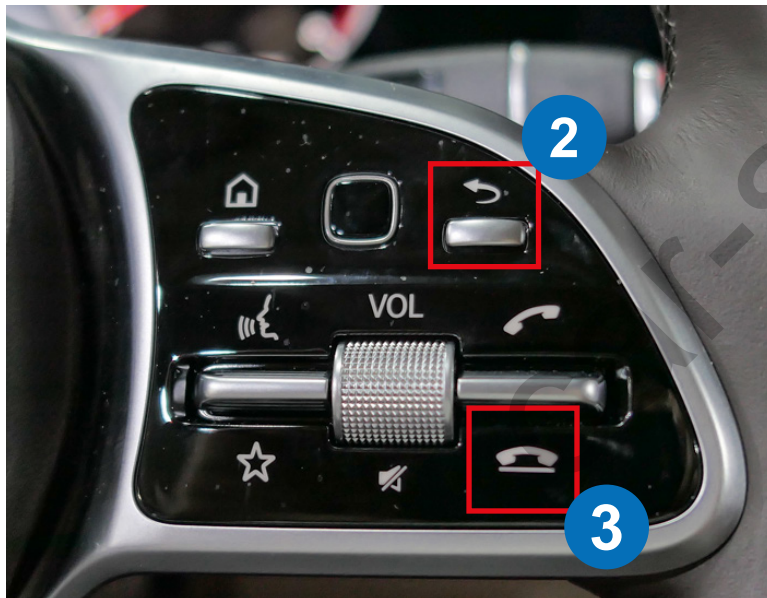
No.7	No.8	No.9	No.10	Car Model	Code Name	Screen Size
OFF(▲)	OFF(▲)	OFF(▲)	OFF(▲)	A-Class	W177 V177	10.25 inch
OFF(▲)	OFF(▲)	ON (▼)	OFF(▲)	A-Class	W177 V177	7 inch
OFF(▲)	OFF(▲)	OFF(▲)	ON (▼)	C-Class <i>*facelift</i>	W205	10.25 inch
				E-Class	W213	
				Sprinter	VS30	
OFF(▲)	OFF(▲)	ON (▼)	ON (▼)	C-Class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

Activation by original buttons <NTG6>



Touchpad and Buttons

Button	Function	Operation	Remarks
1 NAVI MAP	Changing Modes	Press the button 2 seconds	Order : HDMI → NAVI → DVB-T → DVD → OEM
		Press the button short time	Return to the OEM mode in any modes.
2 Back	Changing Modes (Front Cam)	Press the button 2 seconds	Order : AV1 (Front View Camera)
		Press the button short time	Order : AV1 → Previous screen
3 Hang up	Changing Modes (Front Cam)	Press the button 2 seconds	Order : OEM → Front View Camera
		Press the button 1 seconds	Return to the OEM mode in any modes.
4 CAR	Changing Modes	Press the button 1 seconds	Return to the OEM mode in any modes.



Steering Wheel Buttons

Activation by original buttons <NTG5.5>



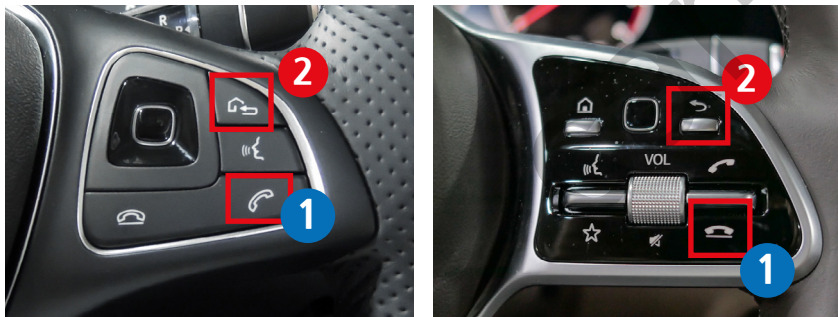
Mercedes NTG5.5 Controller

Button	Function	Operation	Remarks
1	Changing Modes	Press the button 2 seconds	Order : HDMI → NAVI → DVB-T → DVD → OEM
		Press the button short time	Return to the OEM mode in any modes.
2	Changing Modes (Front Cam)	Press the button 2 seconds	Order : AV1 (Front View Camera)
		Press the button short time	Order : AV1 → Previous screen
4 Dial Up	Changing Modes	Press the button 1 seconds	Return to the OEM mode in any modes.



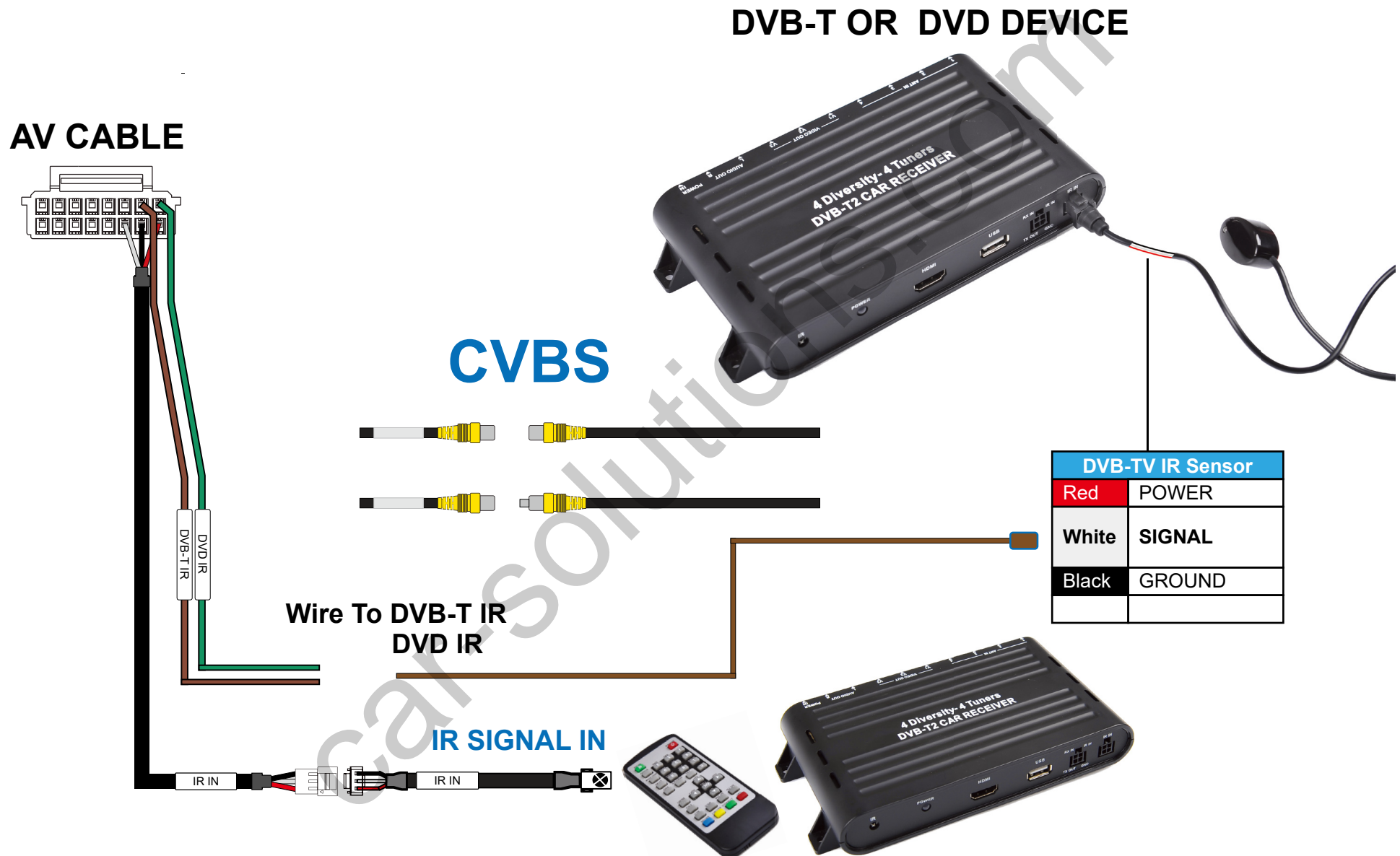
Mercedes NTG5.5 Radio Buttons

Button	Function	Operation	Remarks
4 Dial Up	Next track	Press the button 1 seconds	You can control DVB-T and DVD after connection and setting
5 Dial Down	Previous track	Press the button 1 seconds	

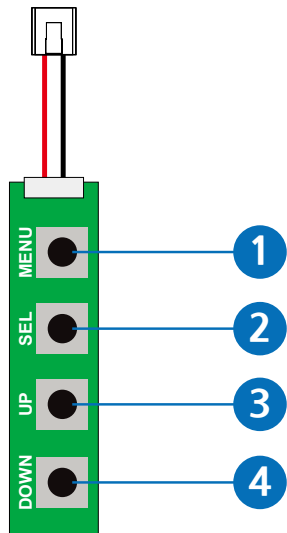
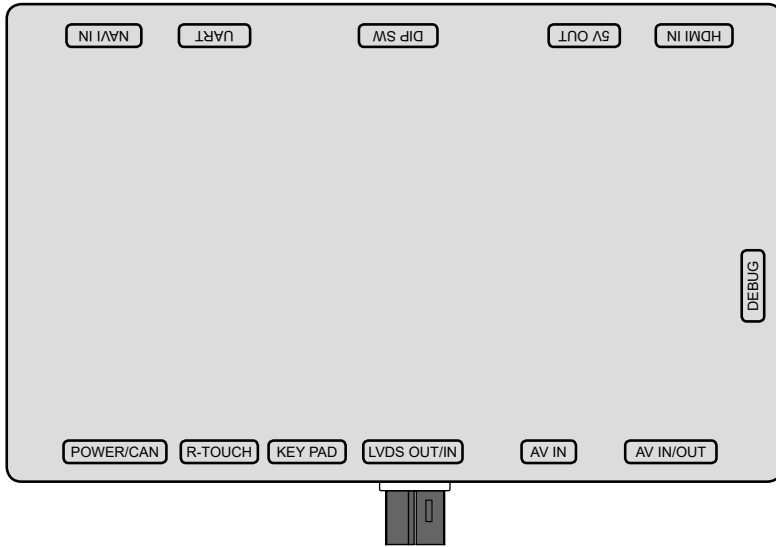


W213 Steering Wheel Buttons
support@car-solutions.com

DVB-T Diagram



Settings (How To Use KEYPAD)



KEYPAD - Function #1

Button	Function	Operation	Remarks
1 MENU	Changing Modes	Press the button short time	Order : HDMI → NAVI → 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	DEFAULT
NAVIGATION	BRIGHT	AVM
REAR VIEW	CONTRAST RED	DTV
AV1 (FRONT VIEW)	CONTRAST GREEN	
AV2 (DTV)	CONTRAST BLUE	
NONE		
CUSTOM		
EXIT		
DIP SWITCH INFO :		FIRMWARE DATE :
		MAIN : 2018-03-02
		SUB : 2018-03-02
		TW23 : 2018-03-02

HDMI - DEFALUT

- INPUT SOURCE (Hdmi device model select)

- **DEFALUT** (Basic HDMI Device)
- **AVM** (360° Around View Camera)
- **DTV** (Digital Television)

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

HDMI	INPUT SOURCE	AVM (AROUND VIEW)
NAVIGATION	BRIGHT	128
REAR VIEW	CONTRAST RED	128
AV1 (FRONT VIEW)	CONTRAST GREEN	128
AV2 (DTV)	CONTRAST BLUE	128
NONE	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

HDMI 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'.

Settings

HDMI	INPUT SOURCE	DTV
NAVIGATION	BRIGHT	128
REAR VIEW	CONTRAST RED	128
AV1 (FRONT VIEW)	CONTRAST GREEN	128
AV2 (DTV)	CONTRAST BLUE	128
NONE	REMOTE OSD ON / OFF	ON
CUSTOM	REMOTE TYPE	ALPINE
EXIT	MEMORY UP ①	0x807f807f
	MEMORY DOWN ②	0x807f807f
	MEMORY LEFT ③	0x807f807f
	MEMORY RIGHT ④	0x807f807f
	MEMORY OK ⑤	0x807f807f
	MEMORY MENU ⑥	0x807f807f
	MEMORY EXIT ⑦	0x807f807f
	MEMORY ETC1 ⑧	0x807f807f
	MEMORY ETC2 ⑨	0x807f807f

DIP SWITCH INFO :

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

HDMI	INPUT SOURCE	DTV
NAVIGATION	BRIGHT	128
REAR VIEW	CONTRAST RED	128
AV1 (FRONT VIEW)	CONTRAST GREEN	128
AV2 (DTV)	CONTRAST BLUE	128
NONE	GPS BOX MODEL	DEFAULT
CUSTOM		
EXIT		

DIP SWITCH INFO :

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

HDMI INPUT - DTV

- BRIGHT and CONTRAST

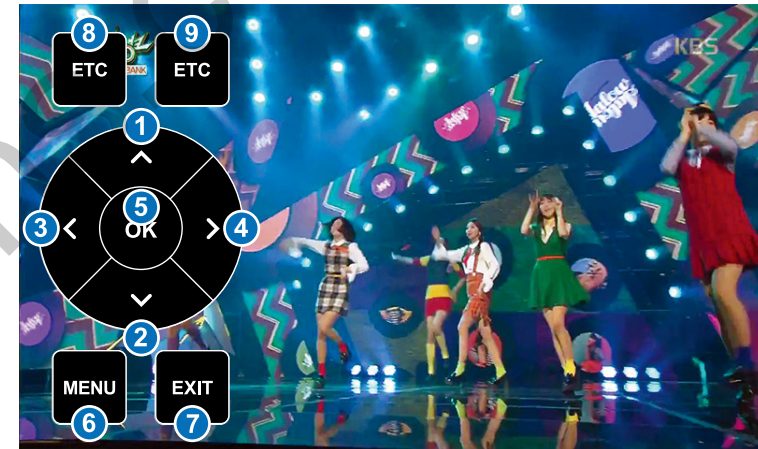
Adjust the values of brightness and contrast

- REMOTE OSD ON / OFF

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

- REMOTE TYPE

· ALPINE - TUE-T500 · Pioneer - GEX909 · HIT7700



NAVIGATION

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast


- GPS BOX MODEL

< Using for "UART in HDMI" Navigation model must be setting >

- A-LINK , M2C-100 IW
- NV17
- NV100

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

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

DIP SWITCH INFO : 

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

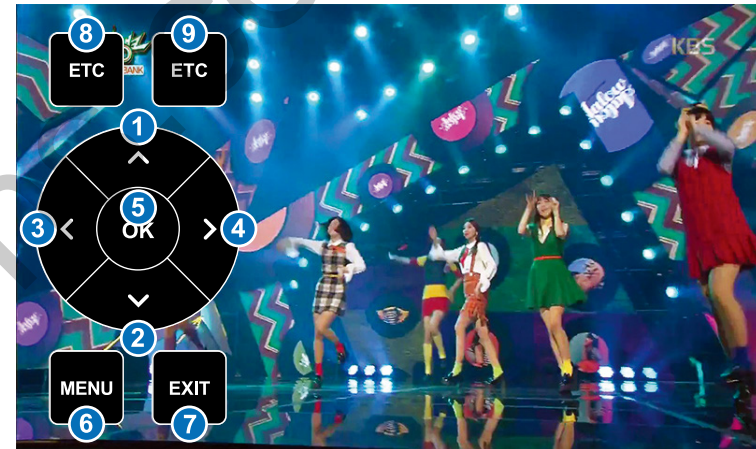
DTV , DVD

- 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