www.car-solutions.com

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English

Language

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Main Specifications

OS	Android 7.1.2(Nougat)
CPU	Six-Core 64bit Server Class Cortex-A72 Core @2.0Ghz, Mali-T860 Quad-Core GPU (Total Ten-Core)
VPN	H.264/H.265/VP9 up to 4Kx2K@60fps (4K Video)
Memory	2GB DDR3
USB	USB2.0 High Speed Port
USB 3.0	USB3.0 5.0Gbps Port
Wireless	2.4GHz/5GHz Dual-Band WiFi, Support 802.11a/b/g/n/ac, Bluetooth 4.1
GPS	Ublox8 GPS (GLONASS/BEIDOU/GALILEO/QZSS/SBAS)
Touch	Capacitive touch
LVDS OUT	1280x720 video IN -> Digital 800x480 LVDS OUT (LVDS Scale adjustment)
HDMI IN	DC 12V ~ 24V
HDMI OUT	HDMI 2.0, Support maximum 4K@60Hz display
Speaker	2W
1/0	Stereo Audio Out, Mic (voice recognition), CVBS Out(On LVDS Out)
Input Power	DC 8V ~ 24V
Temperature	-20°C ~ 80°C
Operationg	-15°C ~ 70°C



Precautions

Device related

You should check the names and colors of each wires exactly, before you connect the wires. ex) CAN HIGH: White wires / CAN LOW: Blue wires

The 'POWER / CAN Cable' should always be connected last and be disconnected first.

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

- This product is assistive devices that help the driving safely. Do not drive by rely solely on
- The rated voltage of this product is DC 12. And it requires the correct wiring connections and mounting. Please install only by a qualified technician.
- GPS Satellite reception may be unstable in a particular area or some vehicles that have the special tinted windows and electromagnetic interference.
- Please read the manual prudently before using this product. And then use this product correctly.
- To avoid any risk of electric shock or other injuries, please never disassemble and reassemble this product.
- This product yourself Installing or servicing this product and its connecting cables may expose you to the risk of electric shock or other hazards, and can cause damage to this product.
- Do not cut the GPS antenna cable to shorten it or use an extension to make it longer. Altering the antenna cable could result in a short circuit or malfunction.
- Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions.
- Company can not be held responsible for incidental damages of the driver caused as a result of using the product.

Car Compatibility Chart

Car Models	Specific Models	Production Year	Specific Models	Screen Size
E CLASS			Comand ADS NTG 5 5	12.3 inch
E-CLASS	WZ15	2010 -	- Comanu APS NTG 5.5	8.4 inch
CLS-CLASS	C257	2018 -	- Comand APS NTG 5.5	12.3 inch
S-CLASS (facelift)	W222	2018 -	- Comand APS NTG 5.5	12.3 inch
G-CLASS	W463	2018 -	- Comand APS NTG 5.5	12.3 inch



Mercedes NTG5.5 <12.3 inch>



2019 S-Class

*facelift



2019 CLS-Class



2019 G-Class

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Mercedes NTG5.5 <12.3 inch>



Components





1. Quadlock Harness



6. Capacitive Touch Cable



11. BT / WIFI Antenna



2. Main Power Cable



7. External GPS



12. External Speaker



3. LVDS Cable



8. KEYPAD

13. Brackets





5. AV Cable



4. AV IN / OUT Cable



9. MicroPhone

10. IR Sensor



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Body Connector specifications





DIP Switch Settings

ON (▼)

HDMI Mode

External Rear View Camera

External Front View

Camera(AV1 Mode)

DVB-T Mode

DVD Mode

Not Using Control Android

by Original Buttons

(Only Touch Panel)

PIN

1

2

3

4

5

6

7 8

9 10 OFF ON ON 1 2 3 4 5 6 7 8 9 10

Skip DVD Mode

Using Control Android

by Original Buttons

7 8 9 10 ON : 4

OFF : 🔒 🧖

OFF(▲)	No.7	No.8	No.9	No.10	Car Model	Code Name	Screen Size
Skip HDMI Mode					E-Class	W213	
•	_		OFF(▲) OFF(▲)	OFF(▲) OFF(▲)	CLS-Class	C257	
Original Rear View Mode (OEM CAMERA)	OFF(▲)	OFF(▲)			S-Class *facelift	W222	12.3 inch
Skip External Front View	-1				G-Class	W463	
Camera(AV1 Mode)				•			
Skip DVB-T Mode	OFF(▲)	OFF(▲)	OFF(▲)	ON(▼)	E-Class	W213	8.4 inch

Select car model

DIP Switch Settings

PIN	ON (▼)	OFF(▲)		
1	Not Used (default "OFF")		
2	Not Used (default "ON")			
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Very Sometimes. The OEM system(OEM radio) will be Shutdown (Black screen and Warring message in Instrument Cluster panel <EX : "Active Parking assistant and PARKTRONIC Does not work">)

If you are can not accept it problem. Please. turn ON the DIP Switch to "No.6 ON"

Of Course. If the driver press the button radio power ON/OFF

The OEM system will be restarted and working. Come back to normal

Activation by original buttons



Mercedes NTG5.5 Controller



Mercedes NTG5.5 Radio Buttons



W213 Steering Wheel Buttons support@car-solutions.com

Button	Function	Operation	Remarks
1	Changing	Press the button 2 seconds	Order : Android \rightarrow HDMI \rightarrow DVB-T \rightarrow DVD \rightarrow OEM
MODE	Modes	Press the button 2 seconds	Return to the OEM mode in any modes.
2	Changing	Press the button 2 seconds	Order : AV1 (Front View Camera)
MODE	(Front Cam)	Press the button short time	Order : $AV1 \rightarrow Previous screen$
1 MODE	Reset	Press the button 10 seconds	You can use this function when you get in trouble

Activation by original buttons



off P切

Select, Enter

Touch two times



Documents, Websites Scroll

Slide two fingers Up or Down the touchpad



Swipe to Navigate

Touch one time and sliding

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Android Firmware

Only USB2.0 port supports for Android Firmware



* Update Time will 4~5 min, and first booting time will be 4~5 min. * Should be factory reset. when it done firmware

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Zoom Button Enable

Startup App

Cooling Fan

HDMI Out

5sec

 \Box

OFF

<

<

Delete User Boot Logo

Upgrade Device

Only USB2.0 port supports for Recovery software



Settings (How To Use KEYPAD)

KEYPAD - Function #1



HDMI	INPUT SOURCE	DEFAULT
	INPUT DEVICE	AVM
	BRIGHT	DTV
NAVIGATION	CONTRAST RED	
REAR VIEW	CONTRAST GREEN	
FRONT VIEW	CONTRAST BLUE	
DTV		
DVD		
CUSTOM		
EXIT		

HDMIINPUT SOURCEDEFAULTINPUT DEVICEAVMINPUT DEVICEAVMBRIGHTDTVNAVIGATIONCONTRAST REDREAR VIEWCONTRAST GREENFRONT VIEWCONTRAST BLUEDTVCONTRAST BLUEDVDCONTRAST BLUE			
INPUT DEVICEAVMINPUT DEVICEAVMBRIGHTDTVNAVIGATIONCONTRAST REDREAR VIEWCONTRAST GREENFRONT VIEWCONTRAST BLUEDTVCONTRAST BLUEDVDCONTRAST BLUEEXITImage: State	HDMI	INPUT SOURCE	DEFAULT
BRIGHTDTVNAVIGATIONCONTRAST REDREAR VIEWCONTRAST GREENFRONT VIEWCONTRAST BLUEDTV		INPUT DEVICE	AVM
NAVIGATIONCONTRAST REDREAR VIEWCONTRAST GREENFRONT VIEWCONTRAST BLUEDTVCONTRAST BLUEDVDCONTRAST BLUEEXITCONTRAST BLUE		BRIGHT	DTV
REAR VIEWCONTRAST GREENFRONT VIEWCONTRAST BLUEDTV	NAVIGATION	CONTRAST RED	
FRONT VIEWCONTRAST BLUEDTV	REAR VIEW	CONTRAST GREEN	
DTV DVD CUSTOM EXIT	FRONT VIEW	CONTRAST BLUE	
DVD CUSTOM EXIT	DTV		
CUSTOM EXIT	DVD		
EXIT	CUSTOM		
	EXIT		

HDMI - DEFALUT

- INPUT SOURCE (Hdmi device model select)

- · DEFALUT (Basic HDMI Device)
- AVM (360° Around View Camera)
- **DTV** (Digital Television)
- INPUT DEVICE ("DEFALUT" INPUT SOURCE)
 - APCAST 720 *Supports Only 720P
 - Apple TV 720 *Supports Only 720P
 - Xiaomi TV 720 *Supports Only 720P

🚹 Important

Using for "HDMI" port should be select "Input Device Model"in setting menu

If it does not selected input device model The screen might be able to white,black screen(not working)

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

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'.

HDMI	INPUT SOURCE	DTV
	INPUT DEVICE	DEFAULT
	BRIGHT	128
NAVIGATION	CONTRAST RED	128
REAR VIEW	CONTRAST GREEN	128
FRONT VIEW	CONTRAST BLUE	128
AV2 (DTV)	REMOTE OSD ON / OFF	ON
DTV	REMOTE TYPE	ALPINE
DVD	MEMORY UP (1)	0x807f807f
EXIT	MEMORY DOWN 2	0x807f807f
	MEMORY LEFT 3	0x807f807f
	MEMORY RIGHT	0x807f807f
	MEMORY OK 5	0x807f807f
	MEMORY MENU 6	0x807f807f
	MEMORY EXIT	0x807f807f
	MEMORY ETC1 (8)	0x807f807f
	MEMORY ETC2 (9)	0x807f807f

HDMI	BRIGHT	128
	CONTRAST RED	128
	CONTRAST GREEN	128
NAVIGATION	CONTRAST BLUE	128
REAR VIEW		
FRONT VIEW		
DTV		
DVD		
CUSTOM		
EXIT		

HDMI INPUT - DTV

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

- REMOTE OSD ON / OFF

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



- REMOTE TYPE · ALPINE · GEX909DTV · HIT7700

NAVIGATION <ANDROID>

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

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

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)
	BRIGHT	128
	CONTRAST RED	128
NAVIGATION	CONTRAST GREEN	128
REAR VIEW	CONTRAST BLUE	128
FRONT VIEW	AVM KEEPING TIME $R\toD$	7 Sec
DTV	AVM KEEPING TIME $P\toD$	7 Sec
DVD	PGS ON / OFF	OFF
CUSTOM	PGS - HORIZONTAL	128
EXIT	PGS - VERTICAL	128

REAR VIEW INPUT - AVM

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

- AVM KEEPING TIME

 $\cdot\,$ 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'.

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

REAR VIEW INPUT - EXTERNAL CAMERA

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

- PGS (Parking Guide System)

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

HDMI	INPUT SOURCE	OEM CAMERA
	CAM KEEPING TIME $R\toD$	7 Sec
	CAM KEEPING TIME $P\toD$	7 Sec
NAVIGATION		
REAR VIEW		
FRONT VIEW		
DTV		
DVD		
CUSTOM		
EXIT		

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
	BRIGHT	128
	CONTRAST RED	128
NAVIGATION	CONTRAST GREEN	128
REAR VIEW	CONTRAST BLUE	128
FRONT VIEW	CAM KEEPING TIME $R \to D$	7 Sec
DTV	CAM KEEPING TIME $P\toD$	7 Sec
DVD		
CUSTOM		
EXIT		

AV1 (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.

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

DTV, DVD

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

- REMOTE OSD ON / OFF

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



- REMOTE TYPE

· ALPINE · GEX909DTV · HIT7700