





High-Definition Link for MIB2

	S TUO/NI VA) [F NI VA) (IND SOLAT)	AD LVDS OUT		POWER/CA
D		C				
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C	HDMIIN	5V USB POWER	DIP SWITCH	UART	U-PAD	NAVI IN

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support@car-solutio	ons.com • Settings AV3 (DVD)	

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Precautions

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.

The 'Mode Switch' is an optional part to change modes forcibly without CAN-BUS. Generally, the CAN-BUS wires are connected for changing modes by original buttons.

When the reverse gear is not detected by CAN-BUS, the 'REVERSE 12V IN wire' should be spliced with 1 2V power of reverse light.

HDMI Device-related

HDMI mode accepts general-screen resolution of HDMI devices.

Generally, '5V 1A Power output(5V USB POWER)' is a standard voltage for charging smartphone. If you need higher voltage than 5V, you should add a separate power supply.

Navigation(GPS) box - related

When you connect the power wires(B+, ACC) to the navigation(GPS) box, the 'NAVI 12V OUT' wire supported by video interface should be spliced with an ACC wire of navigation box.

The navigation box should be powered off before unplugging the HDMI cable.

Car Compatibility Chart

Car Models	Production Year	Specific Modelsv	
A3	2013 - 2016	- Audi A3 MMI Radio - Audi A3 MMI Navigation Plus	
A4	2016 -	- MIB2 STD, MIB2 Main-Unit	
A6	2016 -	- MIB2 STD, MIB2 Main-Unit	
A7	2016 -	- MIB2 STD, MIB2 Main-Unit	
Q5	2016 -	- MIB2 STD, MIB2 Main-Unit	
Q7	2016 -	- MIB2 STD, MIB2 Main-Unit	





AUDI A4 ,Q5



Muirend

2:22=

AUDI A3 (5.8inch)

Cairndow Aylinaii

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35 yd

Settings

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Dest.





Car Compatibility Chart

Volkswagen

SKODA

Car Models

Octavia

Car Models	Production Year	Specific Models
POLO	2016 -	- VW Composition Media (6.5inch, 8-inch) - VW Discover Media Pro (6.5inch, 8-inch) - 2017 Discover Media, Pro(8inch, 9.2-inch)
GOLF	2016 -	- VW Composition Media (6.5inch, 8-inch) - VW Discover Media Pro (6.5inch, 8-inch) - 2017 Discover Media, Pro(8inch, 9.2-inch)
TIGUAN	2016 -	- 2017 Discover Media, Pro(8inch, 9.2-inch)
PASSAT	2016 -	- 2017 Discover Media, Pro(8inch, 9.2-inch)
		4

Specific Models

- 2017 Discover Media, Pro(8inch, 9.2-inch)



Composition Media (5.8inch, 6.5inch, 8inch)



2017 Discover Media (8-inch)



Discover Pro(8-inch) Discover Media (6.5inch, 8inch)



Production

Year

2016 -

Car Compatibility Chart



PORSCHE

Car Models	Production Year	Specific Models
Panamera	2017 -	- PCM 4.1
911 Carrera (991)	2017 -	- PCM 4.0
Macan	2017 -	- PCM 4.0



PANAMERA PCM 4.1



MACAN PCM 4.0

BENTLEY

Car Models	Production Year	Specific Models
BENTAYGA	2016 -	- Bentley Infotainment



Bentley Infotainment

Exterior

G H I JKLM
POWERVEAN OUT REPLATES OUT LYDS IN AVIN A KINUT SYNNOT SYNNOT
DEBUG
HDMI IN SV USB DIP SWITCH UART U-PAD NAVI IN
A B C D E F
CO.

- (A) HDMI IN(B) 5V USB POWER
- © DIP SWITCH
- D UART
- E U-PAD
- (F) NAVI IN

- G AV IN / OUT 2
- H AV IN 1
- () LVDS IN
- (J) LVDS OUT
- (K) KEY PAD
- (L) TOUCH OUT
- (M) POWER / CAN

Components



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Body Connector specifications





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 AV3(DVD) Mode						
7								
8								
9	Selection	Selection of car model						
10								

	No.7	No.8	No.9	No.10	Car Model	Remarks	
	OFF(▲)	OFF(▲)	OFF(▲)	OFF(▲)	VW / GOLF,PASSAT,TIGUAN SKODA / Octavia	2017 Discover Media / 8-inch Discover Media, Pro / 6.5, 8-inch Composition Media / 6.5, 8-inch	
	OFF(▲)	ON (▼)	OFF(▲)	OFF(▲)	VW / GOLF,PASSAT,TIGUAN SKODA / Octavia	2017 Discover Pro / 9.2-inch	
voikswagen	OFF(▲)	ON (▼)	ON (▼)	OFF(▲)	VW / GOLF,PASSAT,TIGUAN SKODA / Octavia	Composition Media / 5.8 inch Composition Colour / 5.8 inch	
ŠKODA	ON (▼)	OFF(▲)	OFF(▲)	OFF(▲)	VW / GOLF,PASSAT,TIGUAN SKODA / Octavia	2017 Discover Media / 8-inch Discover Media, Pro / 6.5, 8-inch Composition Media / 6.5, 8-inch	Manua
	ON (▼)	ON (▼)	ON (▼)	OFF(▲)	VW / GOLF,PASSAT,TIGUAN SKODA / Octavia	Composition Media / 5.8 inch Composition Colour / 5.8 inch	Gear
	OFF(▲)	OFF(▲)	ON (▼)	OFF(▲)	2017~ Audi Q7 2017~ Audi Q5 2017~ Audi A4	MIB2 / 8.3 inch	
	OFF(▲)	ON (▼)	ON (♥)	ON (♥)	2017~ Audi A4 2017~ Audi Q5	MIB2 / 7 inch	
	ON (▼)	OFF(▲)	OFF(▲)	ON (▼)	2013~2016 Audi A3	Audi A3 MMI Radio / 7 inch	
0	ON (▼)	OFF(▲)	ON (▼)	OFF(▲)	2013~2016 Audi A3	Audi A3 MMI Radio / 5.8 inch (Low Resolution)	
	ON (▼)	OFF(▲)	ON (▼)	ON (♥)	2016~ Audi A6(C7), A7(4G8)	MIB2 / 8 inch	
	OFF(▲)	OFF(▲)	ON (▼)	ON (▼)	Porsche Panamera	PCM4.1 / 12.3 inch	
PORSCHE	OFF(▲)	ON (▼)	OFF(▲)	ON (▼)	Porsche Macan	PCM4.0 / 8 inch	
BENTLEY	OFF(▲)	OFF(▲)	OFF(▲)	ON (▼)	Bentley BENTAYGA	MIB2 / 8 inch	



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

% It's connected to A-LINK USB1, USB2 port



Activation by original buttons

Button	Function	Operation	Remarks	
1	Changing Modes	Press the button 2 seconds	$Order: \ HDMI \to NAVI \to DVB\text{-}T \to DVD \to OEM$	
MENU		Press the button short time	Return to the OEM mode in any modes.	
2	Changing Modes	Press the button short time	$Order: HDMI \leftrightarrow NAVI \leftrightarrow DVB\text{-}T \leftrightarrow DVD$	
3 DIAL	DVB-T, DVD Menu Control	Press the button, Turn the dial	You can control DVB-T and DVD after connection and setting	
BACK (F	Changing	Press the button 2 seconds	Order : AV1 (Front View Camera)	
	(Front Cam)	Press the button short time	Order : $AV1 \rightarrow Previous \ screen$	
5	Changing	Press the button 2 seconds	$Order: \ HDMI \to NAVI \to DVB\text{-}T \to DVD \to OEM$	
NAV	Modes	Press the button short time	Order : $\rightarrow OEM$	
1 MENU	Reset Press the button 10 seconds		You can use this function when you get in trouble	







Activation by original buttons W Volkswagen



Volkswagen Discover Pro(8-inch)



2017 Discover Pro(9.2-inch)



Steering Wheel Buttons support@car-solutions.com



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

SKODA

PDC Button

Activation by original buttons



PORSCHE



Porsche Panamera Steering Wheel Buttons



Porsche PCM 4.1

Button	Function	Operation	Remarks
1	Changing	Press the button 2 seconds	$Order: \ HDMI \to NAVI \to DVB\text{-}T \to DVD \to OEM$
NAV	Modes	Press the button short time	Return to the OEM mode in any modes.
3	Changing	Press the button 2 seconds	Order : AV1 (Front View Camera)
Hang Up	(Front Cam)	Press the button 2 seconds	Order : $AV1 \rightarrow Previous screen$
2 DIAL	DVB-T, DVD Menu Control	Press the button, Turn the dial	You can control DVB-T and DVD after connection and setting
1 NAV	Reset	Press the button 10 seconds	You can use this function when you get in trouble



Porsche PCM 4.0 support@car-solutions.com

Activation by original buttons





	-		
Button	Function	Operation	Remarks
•	Changing Modes	Press the button 2 seconds	$Order: \ HDMI \to NAVI \to DVB\text{-}T \to DVD \to OEM$
НОМЕ		Press the button short time	Return to the OEM mode in any modes.
Номе	Reset	Press the button 10 seconds	You can use this function when you get in trouble



Settings (How To Use KEYPAD)

NIIVAN	[] DA9-U]	TAAU	DIP SWITCH	OWER V USB	NI IWOH	
						DEBUG
POWER/CA		KEY PAD LVDS OUT	LVDS IN	AV IN 1	AV IN/OUT 2	

KEYPAD - Function #1

Button	Function	Operation	Remarks
1 MENU	Changing Modes	Press the button short time	Order : HDMI \rightarrow HDMI2 \rightarrow HDMI3 \rightarrow NAVI \rightarrow DVB-T \rightarrow DVD \rightarrow 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 4 UP DOWN	Move the menu-pointer and adjust the setting values	Press the button short time



HDMI 1	INPUT SOURCE	DEFAULT
HDMI 2	BRIGHT	AVM
HDMI 3	CONTRAST RED	DTV
NAVIGATION	CONTRAST GREEN	
REAR VIEW	CONTRAST BLUE	
AV1 (FRONT VIEW)		
AV2 (DTV)		
AV3 (DVD)		
CUSTOM		
EXIT		
DIP SWITCH INFO :		FIRMWARE DATE :
		MAIN : 2018-03-02 SUB : 2018-03-02

HDMI 1	INPUT SOURCE	AVM (AROUND VIEW)
HDMI 2	BRIGHT	128
HDMI 3	CONTRAST RED	128
NAVIGATION	CONTRAST GREEN	128
REAR VIEW	CONTRAST BLUE	128
AV1 (FRONT VIEW)	AVM KEEPING TIME $R \to D$	7 Sec
AV2 (DTV)	AVM KEEPING TIME $P\toD$	7 Sec
AV3 (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

HDMI - DEFALUT

- INPUT SOURCE (Hdmi device model select)

- DEFALUT (Basic HDMI Device)
- · AVM

· DTV

(360° Around View Camera) (Digital Television)

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



If the keeping time set is "OFF" The AVM screen stayed When the "P" button while active and When the "P" button will be disabled. The Screen will be change to previous screen

· 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'. car-solutions.com

HDMI 1	INPUT SOURCE	DTV
HDMI 2	BRIGHT	128
HDMI 3	CONTRAST RED	128
NAVIGATION	CONTRAST GREEN	128
REAR VIEW	CONTRAST BLUE	128
AV1 (FRONT VIEW)	REMOTE OSD ON / OFF	ON
AV2 (DTV)	MEMORY UP 1	0x807f807f
AV3 (DVD)	MEMORY DOWN (2)	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	0x807f807f
DIP SWITCH INFO :		FIRMWARE DATE : MAIN : 2018-03-02 SUB : 2018-03-02 TW23 : 2018-03-02

HDMI 1	NAVIGATION MODEL	DEFAULT
HDMI 2	BRIGHT	128
HDMI 3	CONTRAST RED	128
NAVIGATION	CONTRAST GREEN	128
REAR VIEW	CONTRAST BLUE	128
AV1 (FRONT VIEW)		
AV2 (DTV)		
AV3 (DVD)		
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



NAVIGATION

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

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HDMI 1	INPUT SOURCE	OEM CAMERA
HDMI 2	BRIGHT	AVM (AROUND VIEW)
HDMI 3	CONTRAST RED	EXTERNAL CAMERA
NAVIGATION	CONTRAST GREEN	
REAR VIEW	CONTRAST BLUE	
AV1 (FRONT VIEW)		
AV2 (DTV)		
AV3 (DVD)		
CUSTOM		
EXIT		
DIP SWITCH INFO :		FIRMWARE DATE : MAIN : 2018-03-02 SUB : 2018-03-02 TW23 : 2018-03-02

HDMI 1	INPUT SOURCE	DEFAULT
HDMI 2	BRIGHT	128
HDMI 3	CONTRAST RED	128
NAVIGATION	CONTRAST GREEN	128
REAR VIEW	CONTRAST BLUE	128
AV1 (FRONT VIEW)	AVM KEEPING TIME $R \to D$	7 Sec
AV2 (DTV)	AVM KEEPING TIME $P\toD$	7 Sec
AV3 (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 - OEM CAMERA

- INPUT SOURCE
 - · OEM CAMERA
 - AVM (360° Around View Camera)
 - · EXTERNAL CAMERA

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

REAR VIEW INPUT - AVM

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

- AVM KEEPING TIME



If the keeping time set is **"OFF"** The AVM screen stayed When the "P" button while active and When the "P" button will be disabled. The Screen will be change to previous screen

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)

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

HDMI 1	INPUT SOURCE	EXTERNAL CAMERA
HDMI 2	BRIGHT	128
HDMI 3	CONTRAST RED	128
NAVIGATION	CONTRAST GREEN	128
REAR VIEW	CONTRAST BLUE	128
AV1 (FRONT VIEW)	PGS ON / OFF	OFF
AV2 (DTV)	PGS - HORIZONTAL	128
AV3 (DVD)	PGS - VERTICAL	128
CUSTOM	PDC ON / OFF	OFF
EXIT		

DIP SWITCH INFO :



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

...

SUB : 2018-03-02 TW23 : 2018-03-02

REAR VIEW INPUT - EXTERNAL CAMERA

- BRIGHT and CONTRAST

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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 1	INPUT SOURCE	OEM CAMERA
HDMI 2	CAM KEEPING TIME $R\toD$	7 Sec
HDMI 3	CAM KEEPING TIME $P\toD$	7 Sec
NAVIGATION		
REAR VIEW		
AV1 (FRONT VIEW)		
AV2 (DTV)		
AV3 (DVD)		
CUSTOM		
EXIT		
DIP SWITCH INFO :		FIRMWARE DATE : MAIN : 2018-03-02 SUB : 2018-03-02 TW23 : 2018-03-02

AV1 (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.

AV1	(FRONT	VIEW	INPUT	- EXTERNAL	CAMERA
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- 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 1	INPUT SOURCE	EXTERNAL CAMERA
HDMI 2	BRIGHT	128
HDMI 3	CONTRAST RED	128
NAVIGATION	CONTRAST GREEN	128
REAR VIEW	CONTRAST BLUE	128
AV1 (FRONT VIEW)	CAM KEEPING TIME $R\toD$	7 Sec
AV2 (DTV)	CAM KEEPING TIME $P\toD$	7 Sec
AV3 (DVD)		
CUSTOM		
EXIT		
DIP SWITCH INFO :		FIRMWARE DATE :
		MAIN : 2018-03-02 SUB : 2018-03-02 TW/23 : 2018-03-02
		11120 - 2010-03-02

HDMI 1	BRIGHT	128
HDMI 2	CONTRAST RED	128
HDMI 3	CONTRAST GREEN	128
NAVIGATION	CONTRAST BLUE	128
REAR VIEW	REMOTE OSD ON / OFF	ON
AV1 (FRONT VIEW)	MEMORY UP 1	0x807f807f
AV2 (DTV)	MEMORY DOWN (2)	0x807f807f
AV3 (DVD)	MEMORY LEFT 3	0x807f807f
CUSTOM	MEMORY RIGHT (4)	0x807f807f
EXIT	MEMORY OK 5	0x807f807f
	MEMORY MENU 6	0x807f807f
	MEMORY EXIT	0x807f807f
	MEMORY ETC1 (8)	0x807f807f
	MEMORY ETC2 (9)	0x807f807f

DIP SWITCH INFO :



510

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

AV2 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



HDMI 1	BRIGHT	128
HDMI 2	CONTRAST RED	128
HDMI 3	CONTRAST GREEN	128
NAVIGATION	CONTRAST BLUE	128
REAR VIEW	REMOTE OSD ON / OFF	ON
AV1 (FRONT VIEW)	MEMORY UP 1	0x807f807f
AV2 (DTV)	MEMORY DOWN (2)	0x807f807f
AV3 (DVD)	MEMORY LEFT 3	0x807f807f
CUSTOM	MEMORY RIGHT 4	0x807f807f
EXIT	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 :

510

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

AV3 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

