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Instruction Manual High-Definition Link for EVO ID5,ID6 Without OEM Touch

	POWER/CAN		ΝΙ SOΛT	(TVDS OUT)			Я
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	HDMI IN 5V PO	USB WER			NAVI IN	UART	

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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 the device 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 BMW

Car Models	Production Year	Specific Models
1 Series (F20)	2017 -	- NBT EVO i-Drive6 Without OEM Touch
3 Series (F30)	2017 -	- NBT EVO i-Drive6 With OEM Touch
5 Series (G30)	2017 -	- NBT EVO i-Drive6 Without OEM Touch









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2017 5Series G30

2017 1Series F20

2017 3Series F30

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Car Compatibility Chart MINI

Car Models	Production Year	Specific Models
MINI	2017 -	F56,F55,F57 8.8inch Screen With OEM Touch
Mini Countryman	2017 -	F60 8.8inch Screen With OEM Touch
Mini Clubman	2017 -	F54 8.8inch Screen With OEM Touch



MINI 8.8 inch with oem Touch



MINI 8.8 inch



2018 MINI



2018 JOHN COOPER WORKS



2018 CLUBMAN



2018 COUNTRYMAN



Components





Body Connector specifications





DIP Switch Settings

OFF							-	-	-	-	ON · 🖡 🔚	1
ON	ONI	2	3	4	5	6	7	8	9	10	ON	ONI

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	Not Use	Default OFF					
7	With OUT OEM Touch	With OEM Touch					
8		C					
9	Selection of car model						
10							

	No.8	No.9	No.10	Car Model
A A	OFF(▲)	OFF(▲)	ON (♥)	2017~ BMW 1(F20) 6.5inch without OEM Touch 2017~ BMW 3(F30) 6.5inch without OEM Touch 2017~ BMW 5 (G30) 6.5inch without OEM Touch
BMW	ON (▼)	OFF(▲)	OFF(▲)	2017~ BMW 1(F20) 8.8inch with OEM Touch 2017~ BMW 3(F30) 8.8inch with OEM Touch 2017~ BMW 5 (G30) 8.8inch without OEM Touch
MINI	OFF(▲)	ON (▼)	OFF(▲)	2017~ MINI 8.8inch with OEM Touch

Activation by original buttons



Button	Function	Operation	Remarks
1 MENU	Changing Modes	Press the button 2 seconds	Order : HDMI \rightarrow HDMI2 \rightarrow HDMI3 \rightarrow NAVI \rightarrow DVB-T \rightarrow DVD \rightarrow OEM
i-Drive Buttons	Changing Modes	Press the button short time	Return to the OEM mode in any modes.
28 DIAL UP DIAL RIGHT	FULL 6:4 PIP 4:6 PIP	Move the Upwards 2 seconds	- Full size mode - 6(HDMI, NAVI) : 4(OEM) - 4(OEM : 6(HDMI, NAVI)
3 9 DIAL DOWN DIAL LEFT	Changing Modes	Move the downwards 2 seconds	Order : AV1 (Front View Camera)
6	Changing	Press the button short time	Return to the OEM mode in any modes.
PARKING	Modes	When it function activate automatically	Return to the OEM mode in any modes.
0	Changing Modes	Press the button short time	Order : HDMI \rightarrow HDMI2 \rightarrow HDMI3 \rightarrow NAVI \rightarrow DVB-T \rightarrow DVD \rightarrow OEM
4 BACK	Power Reset	Press the button 10 seconds	You can use this function when you get in trouble
5 OPTION	Reset to factory default setting and power.	Press the button 10 seconds	You can use this function when you get in trouble
5 OPTION	Omni View Mode (KOREA Spec)	Press the button	Change the Omni View Mode
28 DIAL UP DIAL RIGHT	VIM	Move the Upwards 5 seconds Move the RIGHT 5 seconds	Always it need to activation by button for using it function. (When you power off. It functions will be OFF) Default : OFF

When installing the interface for the first time, press OPTION button for more than 10 seconds to initialize it.

Control Some of Functions by OEM buttons



※ Some applications might not be able to operate with i-Drive button.

External Camera Script

		How to settin	
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HDMI 1	INPUT SOURCE	EXTERNAL CAMERA	
HDMI 2	BRIGHT	128	
HDMI 3	CONTRAST RED	128	
NAVIGATION	CONTRAST GREEN	128	
REAR VIEW	CONTRAST BLUE	128	
FRONT VIEW	AVM KEEPING TIME R → D	7 Sec	
CVBS 1 - DVBT	AVM KEEPING TIME $P \rightarrow D$	7 Sec	
CVBS 2 - DVD	PGS ON / OFF	OFF	
CUSTOM	ADJUST - HORIZONTAL	128	
EXIT	ADJUST - VERTICAL	128	
DIP SWITCH INFO :		FIRMWARE DATE :	
DIP SWITCH INFO :		FIRMWARE DATE : MAIN : 2018-03-02	

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When you shift gear reverse It screen will be working to PIP <Left :External Camera> <Right : OEM PDC Sensor>



If it connected 12V to 'REVERSE 12V IN wire" The screen will be change to "External Camera mode"

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Around View Script



When you shift gear reverse and i-drive button up External Camera Screen size will be change <PIP Size> <Full Size>



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Settings (How To Use KEYPAD)

ТЯАО ИНУАИ			RER BSU		
DEBUG					DIP SWITCH
KEYPAD OUT IR OUT	LVDS OUT	LVDS IN	AV IN/OUT	POWER/CAN	
]

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)		
NONE		
CUSTOM		
EXIT		
DIP SWITCH INFO :		FIRMWARE DATE : MAIN : 2018-03-02 SUB : 2018-03-02 TW23 : 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 $R\toD$	7 Sec
AV2 (DTV)	AVM KEEPING TIME $P\toD$	7 Sec
NONE	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)

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

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
NONE	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)		
NONE		
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

i-Drive Control

Touch Control





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)		
NONE		
CUSTOM		
EXIT		
DIP SWITCH INFO :		FIRMWARE DATE : MAIN : 2018-03-02 SUB : 2018-03-02 TW23 : 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 $R\toD$	7 Sec
AV2 (DTV)	AVM KEEPING TIME $P\toD$	7 Sec
NONE	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
NONE	PGS - VERTICAL	128
CUSTOM	PDC ON / OFF	OFF
EXIT		

DIP SWITCH INFO :



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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)		
NONE		
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.

			Α
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 $R \to D$	7 Sec	
AV2 (DTV)	CAM KEEPING TIME $P\toD$	7 Sec	
NONE			
CUSTOM			
EXIT			
DIP SWITCH INFO :		FIRMWARE DATE :	
		MAIN : 2018-03-02 SUB : 2018-03-02 TW23 : 2018-03-02	

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 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	0x807f807f
AV2 (DTV)	MEMORY DOWN (2)	0x807f807f
NONE	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 :



500

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



Touch Control

HDMI 1	IDRIVE ON / OFF	ON
HDMI 2	VOLUME PIP	ON
HDMI 3		
NAVIGATION		
REAR VIEW		
AV1 (FRONT VIEW)		
AV2 (DTV)		
NONE		
CUSTOM		
EXIT		



FIRMWARE DATE :

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

TW23 : 2018-03-02

CUSTOM

- IDRIVE ON / OFF

ON - When you use A-LINK. If you use i-drive buttons.
 The OEM function will be not working by i-drive buttons

- VOLUME PIP ON / OFF

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

