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Instruction Manual High-Definition Link for EVO ID5, ID6 With OEM Touch

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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.

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

Car Models	Production Year	Specific Models
5 Series (G30)	2017 -	- NBT EVO i-Drive6 OEM Touch
6 Series (G32)	2017 -	- NBT EVO i-Drive6 OEM Touch
7 Series (G11)	2016 -	- NBT EVO i-Drive5,6 OEM Touch



2017 BMW 5Series G30



Car Models	Production Year	Specific Models
X3 (G01)	2017 -	- NBT EVO i-Drive6 OEM Touch
X5 (F15)	2017 -	- NBT EVO i-Drive6,i-Drive5 OEM Touch
X6 (F16)	2017 -	- NBT EVO i-Drive6,i-Drive5 OEM Touch



2017 5Series G30



2017 X3 G01



2017 6Series G32



2017 X5 F15



2016 7Series G10



2017 6Series F16



Components



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Body Connector specifications





DIP Switch Settings

OFF	-							-	-	-		
ON	ONI	2	3	4	5	6	7	8	9	10	ON I	ON .

PIN	ON (▼)	OFF(▲)		No.6	No.7	No.8	No.9	No.10	Car Model
1	HDMI Mode	Skip HDMI Mode			C	+			2017~ BMW 5(G30) 10.25inch 2017~ BMW 6(G32) 10.25inch
2	Navigation Mode	Skip Navigation Mode		OFF (▲)	OFF (▲)	OFF (▲)	OFF (▲)	OFF (▲)	2016~ BMW 7(G11) 10.25inch 2016~ BMW X3(G01) 10.25inch
3	External Rear View Camera	Original Rear View Mode							2017~ BMW X5 (F15) 10.25inch 2017~ BMW X6 (F16) 10.25inch
4	External Front View Camera(AV1 Mode)	Skip External Front View Camera(AV1 Mode)	X						
5	AV2 Mode	<mark>Skip</mark> AV2 Mode	\bigcirc						
6									
7	Selection o	f car model							
8									
9									
10									

 $\langle \cdot \rangle$

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.
2 DIAL UP	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 DIAL DOWN	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.
7	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
2 DIAL UP	VIM	Move the Upwards 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.

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Control Some Functions by original buttons



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

External Camera Script



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 $R \rightarrow D$	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 : MAIN : 2018-03-02 SUB : 2018-03-02 TU00 : 0010 00 00

EVO5-N23

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





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



Settings (How To Use KEYPAD)

(ТЯАU) (ИНИАИ)		KEYPA	D - Fu	nction #1	
		Button	Function	Operation	Remarks
DEBUG	HOTING AD	1 MENU	Changing Modes	Press the button short	$\begin{array}{l} \text{Order}: \ \text{HDMI} \rightarrow \text{HDMI2} \rightarrow \text{HDMI3} \\ \rightarrow \text{NAVI} \rightarrow \text{DVB-T} \rightarrow \text{DVD} \rightarrow \text{OEM} \end{array}$
		KEYPA	D - Fu	nction #2	
		Button	Function		Operation
		1 MANU	Back to pre When pres	evious menu s the button short.	Press the button short
	C	2 SEL	Select the and setting	setting menu values.	Press the button short
		3 4 UP DOWN	Move the n and adjust	nenu-pointer the setting values	Press the button short
₩ 2 5 3	c^{0}				

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 $R \rightarrow D$	7 Sec
AV2 (DTV)	AVM KEEPING TIME $P\toD$	7 Sec
NONE	PGS ON / OFF	OFF
CUSTOM	PGS - HORIZONTAL	128
EXIT	PGS - VERTICAL	128
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
- AVM (360° Around View Camera)
- DTV (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'.

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	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 :

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 MAIN :
 2018-03-02

 SUB :
 2018-03-02

 TW23 :
 2018-03-02

HDMI 1	BRIGHT	125
HDMI 2	CONTRAST RED	125
HDMI 3	CONTRAST GREEN	125
NAVIGATION	CONTRAST BLUE	125
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

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

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

REAR VIEW INPUT - OEM CAMERA

- INPUT SOURCE (Hdmi device model select)

- 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)

Adjust position of parking guide lines and select the lines 'ON or OFF'.
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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
AV1 (FRONT VIEW)	PGS ON / OFF	OFF
AV2 (DTV)	PGS - HORIZONTAL	128
NONE	PGS - VERTICAL	128
CUSTOM		
EXIT		
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'.

HDMI 1	INPUT SOURCE	OEM CAMERA
HDMI 2	CAM KEEPING TIME $R \to D$	7 Sec
HDMI 3	CAM KEEPING TIME $P \to D$	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

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) - OEM CAMERA

- 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.

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 (1)	0x807f807f
AV2 (DTV)	MEMORY DOWN 2	0x807f807f
NONE	MEMORY LEFT 3	0x807f807f
CUSTOM	MEMORY RIGHT	0x807f807f
EXIT	MEMORY OK 5	0x807f807f
	MEMORY MENU 6	0x807f807f
	MEMORY EXIT	0x807f807f
	MEMORY ETC1 (8)	0x807f807f
	MEMORY ETC2 9	0x807f807f



IRMWARE DATE :

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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	IDRIVE ON / OFF	ON
HDMI 2		
HDMI 3		
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

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