

Installation Manual

Multimedia Interface for BMW/MINI ID7

Model: BM16-ID7



Specification

Compatibility:

Components:

Interface Input / Output specification :

LVDS IN (Car System) *1 LVDS *1 A/V *2 CVBS(Front Camera) *1 CVBS(Rear Camera) *1 **HDMI *1 [Optional]**

Interface Main*1

BMW/MINI EVO ID7 2019~

Output:

Input:

LVDS OUT (Car System) *1 AUDIO OUT*1

Power Spec:

Input Power: Consumption: 8VDC ~ 18VDC 5WATT

Switch input mode:

- 1. External video sources skip function: Able to control input videos on and off via Dip switches
- 2. Able to switch videos via the remote and button switch
- 3. Able to detect the rear view camera by CAN or rear lamp cable

•Components









MAIN BOARD QCPASS1396 POWER CABLE (HEAD UNIT) HPOWER0242

LCD CABLE HLCDCA0049 AV CABLE HAVCAB0066







BUTTON CABLE HARETC0001 REMOTE CTRL. REMOTE0001

IR CABLE HIRCAB0002

UART CABLE



OPTION POWER CABLE (UNDER IDRIVE) HPOWER0246



OPTION HDMI-SUB QCPASS1435

OPTION

HDMI-SUB CABLE HARETC0327

•DIP Switch Settings



* ON: DOWN / OFF: UP

Please make sure to disconnect the power cable of interface and reconnect to apply dip switch setting whenever changing DIP switch.

• 4POL DIP SWITCH SETTING

DIP S/W	STATUS	DESCRIPTION		
DIP 1	OFF	LVDS Navigation Mode		
	ON	LVDS Navigation Mode Skip		
DIP2	OFF	AV1 Mode		
	ON	AV1 Mode Skip		
DIP3	OFF	AV2 Mode		
	ON	AV2 Mode Skip		
DIP4	OFF	Ext. Front Camera Mode		
	ON	OEM Front Camera Mode		

10POL DIP SWITCH SETTING

DIP S/W	STATUS	DESCRIPTION			
DIP 1	OFF	HDMI Mode (HDMI Optional)			
	ON	HDMI Mode Skip (HDMI Optional)			
DIDO	OFF	HDMI Mode Skip (HDMI Optional)			
DIPZ	ON	HDMI Mode (HDMI Optional)			
DIP3					
DIP4	Set to OFF				
DIP5					
	OFF	No Use (OFF)			
DIFO	ON				
דמות	OFF	OEM Rear Camera Mode			
DIF7	ON	Ext. Rear Camera Mode			
ססוח	OFF				
DIFO	ON	NO USE (OFF)			
סמוס	OFF				
DIPY	ON	NO USE (OFF)			
	OFF				
DIFTU	ON				

•Remote Control



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Кеу	FUNCTION		
POWER & PIP	N/C		
MENU	Activating OSD menu		
ОК	Making a selection, changing image display		
	Moving upward		
▼	Moving downward		
	Moving leftward		
•	(If you press this button 2 seconds long, you can access the factory mode)		
	Moving rightward		
	(If you press this button 2 seconds long, you can reset all the data about user environment)		

•Factory Settings

Menu of FACTORY			
image Park Util1 Util2 Info	H-POSITION V-POSITION LVDS MODEL		
MENU to	Return SEL to Select/Save		

IMAGE

H-POSITION/V-POSITION Setting LVDS MODEL:

(Android, Car-play, Navigation Model Setting)

Menu of FACTORY			
image Park Util1 Util2 Info	PAS TYPE PAS SETUP REAR TYPE SAFE ENABLE RADAR ENABLE		
MENU to	Return SEL to Select/Save		

PARKING

PAS TYPE: Select parking line type.

NOT USED: Do not use parking line

PAS ON: Use Flexible Parking Lines

PAS OFF: Use fixed parking line

PAS SETUP:

You can move the position of parking line.

REAR TYPE: Choose rear camera recognition.

CAN: Detecting the rear view camera by CAN signal. (Installer must connect "CAN" cable of the power cable to the "CAN" cable of the car)

LAMP: Detecting the rear view camera via "Grey Rear" wire. (Installer must

connect "Rear-C" cable of the power cable to the rear lamp of the car)

SAFE ENABLE:

If enable, HDMI, RGB, and A/V mode doesn't show up while driving. (Default: OFF)

RADAR ENABLE:

Setting up parking distance alarm sensor. (ON/OFF)

•Factory Settings

Menu of FACTORY			
IMAGE PARK UTIL1 UTIL2 INFO	AVOUT SELECT FCAM TIME IR MEMORY CALIBRATE FACTORY RESET		
MENU to Beturn SEL to Select/Save			

UTIL1

AVOUT SELECT: Select audio channel transmitted through AUX(Default/AV1/AV2) FCAM TIME: Front Camera Display Setting IR MEMORY: Register IR memory of remote control for DTV, DVD(AV1/AV2) CALIBRATE: Able to calibrate touch screen (YES/NO) FACTORY RESET: Factory mode reset (YES/NO)

Menu of IMAGE	FACTORY IDRV REMOTE			
PARK UTIL1	IDRV CONTROL VOICE KEY			
UTIL2 INFO	MEMORY KEY CAR MODEL			
MENU to Return SEL to Select/Save				

UTIL2

IDRV REMOTE: Able to use remote control on DVD, DTV by selecting "User" after IR memory registered IDRV CONTROL: Able to control UI remote by touch (OFF/ON) VOICE/MEMORY KEY: (ON/OFF) CAR MODEL: BMW-ID7

Menu of FACTORY				
IMAGE PARK UTIL1 UTIL2 INFO	<system version=""> - MAIN : 191119 - SUB : 191119 - MODEL : ID7-STD</system>			
MENI I to	Return SEL to Select/Save			

INFO

System version information

Installation Diagram



Installation Manual-Power/CAN

•Two ways to connect POWER/CAN cable:

- Connect Head-unit jack by jack cable behind Head unit, in this case CAN data in/out mode and bypass mode could be set by Dip switch #8. (If you want to use TV free, please set Dip switch #8 to CAN data in/out mode)
- Connect I-Drive jack by jack cable under I-Drive, in this case only supports CAN data bypass mode. (TV free is not supported)

* Head-unit Jack by Jack:



- 1. Pull out OEM cable from the backside of head unit as above
- 2. Plug in male connector of supplied power cable to the back side of head unit instead
- 3. Connect OEM cable to the female connector of supplied power cable sypport@car-solutions.com car-solutions.com

Installation Manual-Power/CAN

* I-Drive Jack by Jack: In case use I-Drive J by J cable, please detach OEM cable from I-Drive and connect with supplied power cable.



* Please note that ID7 7 series car have different I-Drive power/CAN pin map with other ID7 cars, make sure to check the pin map before installation under I-Drive.

Car Model	Cable Type	#1	#2	#3	#4
ID7 7 Series I-Drive Power/CAN Pin Map	OEM Cable	ACC (Red/White)	Ground (Grey)	CAN-High (Orange/Green)	CAN-Low (Green)
	QDIS supplied cable	12V (Red)	Ground (Grey)	CAN-High (Green)	CAN-Low (Black/White)
ID7 common I-Drive Power/CAN Pin Map	OEM Cable	ACC (Red/White)	CAN-High (Orange/Green)	CAN-Low (Green)	Ground (Grey)
	QDIS supplied cable	12V (Red)	CAN-High (Green)	CAN-Low (Black/White)	Ground (Grey)



* Please find locker on male and female connector of supplied I-Drive power cable, once open the locker you could easily change the pin arrangement and lock it.

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Activation with OEM Button

* Switch mode or activate the function by OEM button



<Steering wheel>





<Memory Button>

Section	Button	Operation	Function
		long press (3sec)	Mode change
	IDRV HOME	short press	Return to original (In front camera mode, return to previous mode)
		long press(3sec)	Mode change
		short press	Return to orignal
	IDRV NAV	long press (7sec) - in ori.	TV Lock ON/OFF (DIP8 OFF)
	IDRV COM	long press (7sec) - in ori.	SAFE ON/OFF
	IDRV BACK	long press (7sec) - in ext.	Open Factory OSD MENU
		short press	Return OSD MENU
IDKV		abort proce	DTV CH+, DVD NEXT
		short press	OSD MENU UP
		short pross	DTV CH-, DVD PREV
	IDRV WHEEL DOWN	3101 01-053	OSD MENU DOWN
		Long press	Rear Camera display ratio changeable
	IDRV WHEEL PUSH	short press	OSD MENU DOWN
	IDRV MEDIA	short press	
-	IDRV RADIO		Return to original
	IDRV OPTION		
	IDRV UP	short press	DIV CH+, DVD NEXI
	IDRV DOWN	short press	DTV CH-, DVD PREV
HANDLE	VOICE	short press	Mode change
Memory	#7	Short press	Mode switch

Cautions before Installation

- 1. Ignition key should be taken off before starting installation, interface power connection must be the last step in installation.
- 2. Power cable should be separated when connecting interface.
- 3. Should be no any electronic devices or magnetic pole around installation place.
- 4. All steps of installation should be done by well-trained specialist.
- 5. Dismantling without manufacturer's permission can not be guaranteed, (No permission to break attached label on the board.)
- 6. Kindly check all parts are in the box, when receiving the product, if anything missing, inform to the supplier or manufacturer.
- According to our sales policy, any problems caused by user's mistake, careless can not be guaranteed.

•Trouble shoofing

Q. I cannot change mode

A. Check connection of Ground cable and IR Cable. Check LED lamp is on, if not check connection of POWER cable.

Q. All I got on the screen is black.

A. Check second LED lamp of the interface is on, if not, check A/V sources connected are working well. (Second lamp indicates AV sources connected works well) Check interface connection has been done well.

Q. Displayed image color is not proper (too dark or unsuitable color)

A. Press ▶ button on the remote control for 2 seconds and check how it goes, if it does not work, inform to manufacturer.

Q. I cannot watch the rear camera on the screen

A. Set the DIP switch #7 as state "ON".

Q. Set mode not appear

A. Check DIP Switch.

Q. OEM image is not displayed.

A. Check interface's LCD In/Out cable connection. If the status keeps on, inform to manufacturer.

Q. Screen only displays white color.

A. Check LCD out cable is connected well, if this status keeps, inform to manufacturer.

Q. If no image is shown on screen after connecting CAN wire with Park gear.

A. Go on the "FACTORY MODE", check "UTIL-Rear Select". If "LAMP", change the setting as "CAN" with the remote control. (* when connecting Rear-C wire of LAMP power cable to Backup lights, Setting should be like this / CAN : if controlling rear camera with CAN wire)

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