

Manual Date : 2020.3

Installation Manual

HDMI Interface for BMW/MINI ID5 and ID6



Compatibility: BMW/MINI ID5 and ID6 2017~

Components: Interface Main*1

Interface Input / Output specification for *DTR(Daughter) Version:*

Input: HDMI*2
LVDS*1
Analog RGB*1
A/V*1
CVBS(Front Camera)*1
CVBS(Rear Camera)*1

Output: To LCD*1
AUDIO OUT*1

Interface Input / Output specification for *No DTR(Daughter) Version:*

Input: Analog RGB*1
A/V*2
CVBS(Front Camera)*1
CVBS(Rear Camera)*1

Output: To LCD*1
AUDIO OUT*1

Power Spec:

Input Power: 8VDC ~ 18VDC
Consumption: 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
QCPASS1327



POWER CABLE
HPOWER0157



LCD CABLE
HLCDCA0049



RGB CABLE
HRGBCA0030



AV CABLE
HAVCAB0058



BUTTON CABLE
HARETC0001



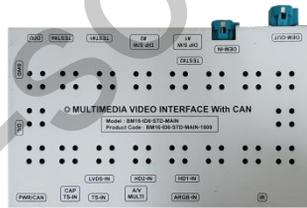
REMOTE CONTROL
REMOTE0001



IR CABLE
HIRCAB0002



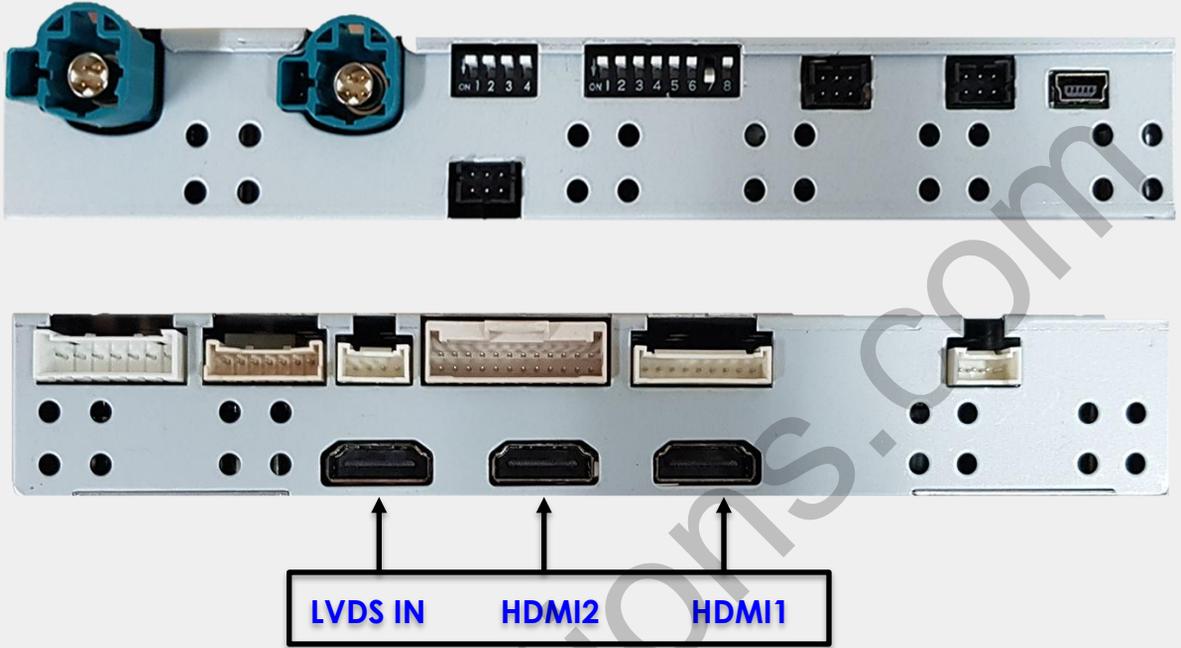
OPTION
Power J by J Cable
(UNDER IDRIVE)
QCPASS0175



OPTION
Main Board with DTR
QCPASS0175

Main Board Side View

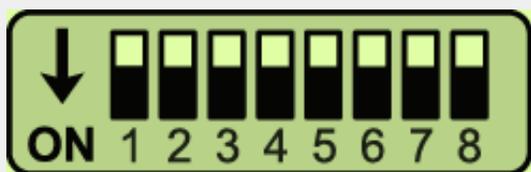
* Side View for DTR(Daughter) Version



* Side View for No DTR(Daughter) Version



DIP Switch Settings for DTR Version



*** ON : DOWN / OFF : UP**

Please make sure to disconnect the power cable of the interface and reconnect the power cable again to apply the dip switch changes.

4POL DIP SWITCH SETTING

DIP S/W	STATUS	DESCRIPTION
DIP1	OFF	LVDS Navigation Mode
	ON	LVDS Navigation Mode Skip
DIP2	OFF	RGB Navigation Mode
	ON	RGB Navigation Mode Skip
DIP3	OFF	HD1 Mode
	ON	HD1 Mode Skip
DIP4	OFF	HD2 Mode
	ON	HD2 Mode Skip

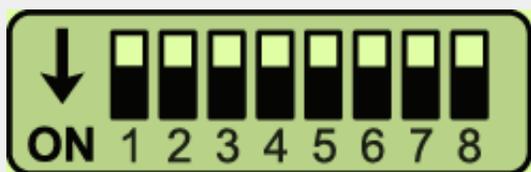
8POL DIP SWITCH SETTING

DIP S/W	STATUS	DESCRIPTION
DIP1	OFF	AV1 Mode
	ON	AV1 Mode Skip
DIP2	OFF	Ext. Front Camera Mode
	ON	Ext. Front Camera Mode Skip
DIP3	OFF	Normal Mode (Support Rear PIP Mode)
	ON	OEM Screen RELAY Bypass Mode (Not Support Rear PIP Mode, ex. 2019 X2 10.2")

DIP S/W	DIP4	DIP5	RESOLUTION
STATUS	OFF	OFF	1440*540 (10.25")
	OFF	ON	1280*480 (8.8")
	ON	ON	800*480 (6.5")

DIP S/W	STATUS	DESCRIPTION
DIP6	OFF	G Type Model (G11, G20, G30...)
	ON	F Type Model (F10, F20, F30...)
DIP7	OFF	OEM Rear Camera Mode
	ON	Ext. Rear Camera Mode
DIP8	OFF	CAN In/Out Mode
	ON	CAN Bypass Mode

DIP Switch Settings for No DTR Version



*** ON : DOWN / OFF : UP**

Please make sure to disconnect the power cable of the interface and reconnect the power cable again to apply the dip switch changes.

4POL DIP SWITCH SETTING

DIP S/W	STATUS	DESCRIPTION
DIP1	OFF	No Use
	ON	
DIP2	OFF	RGB Navigation Mode
	ON	RGB Navigation Mode Skip
DIP3	OFF	No Use
	ON	
DIP4	OFF	No Use
	ON	

8POL DIP SWITCH SETTING

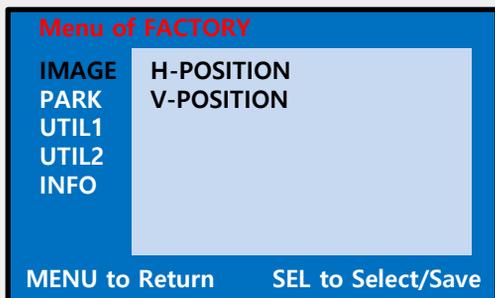
DIP S/W	STATUS	DESCRIPTION	
DIP1	OFF	AV1 Mode	
	ON	AV1 Mode Skip	
DIP2	OFF	Ext. Front Camera Mode	
	ON	Ext. Front Camera Mode Skip	
DIP3	OFF	Normal Mode (Support Rear PIP Mode)	
	ON	OEM Screen RELAY Bypass Mode (Not Support Rear PIP Mode, ex. 2019 X2 10.2")	
DIP S/W	DIP4	DIP5	RESOLUTION
STATUS	OFF	OFF	1440*540 (10.25")
	OFF	ON	1280*480 (8.8")
	ON	ON	800*480 (6.5")
DIP S/W	STATUS	DESCRIPTION	
DIP6	OFF	G Type Model (G11, G20, G30...)	
	ON	F Type Model (F10, F20, F30...)	
DIP7	OFF	OEM Rear Camera Mode	
	ON	Ext. Rear Camera Mode	
DIP8	OFF	CAN In/Out Mode	
	ON	CAN Bypass Mode	

Remote Control



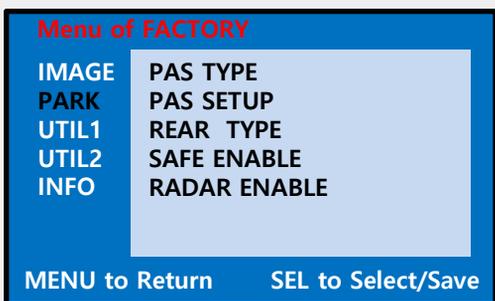
Key	FUNCTION
POWER & PIP	N/C
MENU	Activating OSD menu
OK	Making a selection, changing image display
▲	Moving upward
▼	Moving downward
◀	Moving leftward (If you press this button 2 seconds long, you can access the factory mode)
▶	Moving rightward (If you press this button 2 seconds long, you can reset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

Factory Settings



IMAGE

H-POSITION/V-POSITION Setting



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)

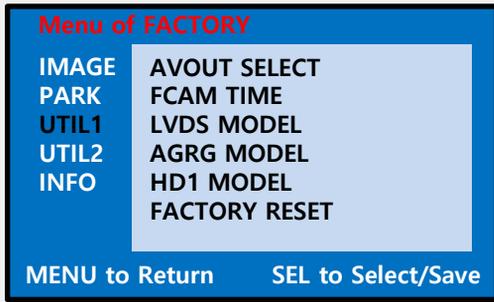
SAFE ENABLE:

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



UTIL1

AVOUT SELECT:

Select audio channel transmitted through AUX(HDMI, AV)

FCAM FUNCTION:

Front Camera Display Setting

LVDS/ARGB/HD1 MODEL:

ANDROID/CARPLAY/DTV/MIRRORING SETTING

FACTORY RESET:

Factory mode reset (YES/NO)



UTIL2

IDRV REMOTE:

Able to use remote control on DVD, DTV by selecting "User" after IR memory registered

IDRV CONTROL:

Able/disable to control UI remote by touch

IDRV TYPE: (4 KEY/2 KEY)

VOICE/MEMORY KEY:

ON/OFF (YES/NO)

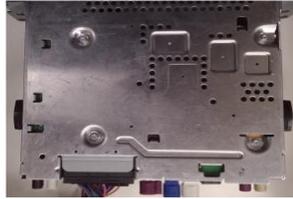


INFO

System version information

Installation Diagram

OEM Head Unit

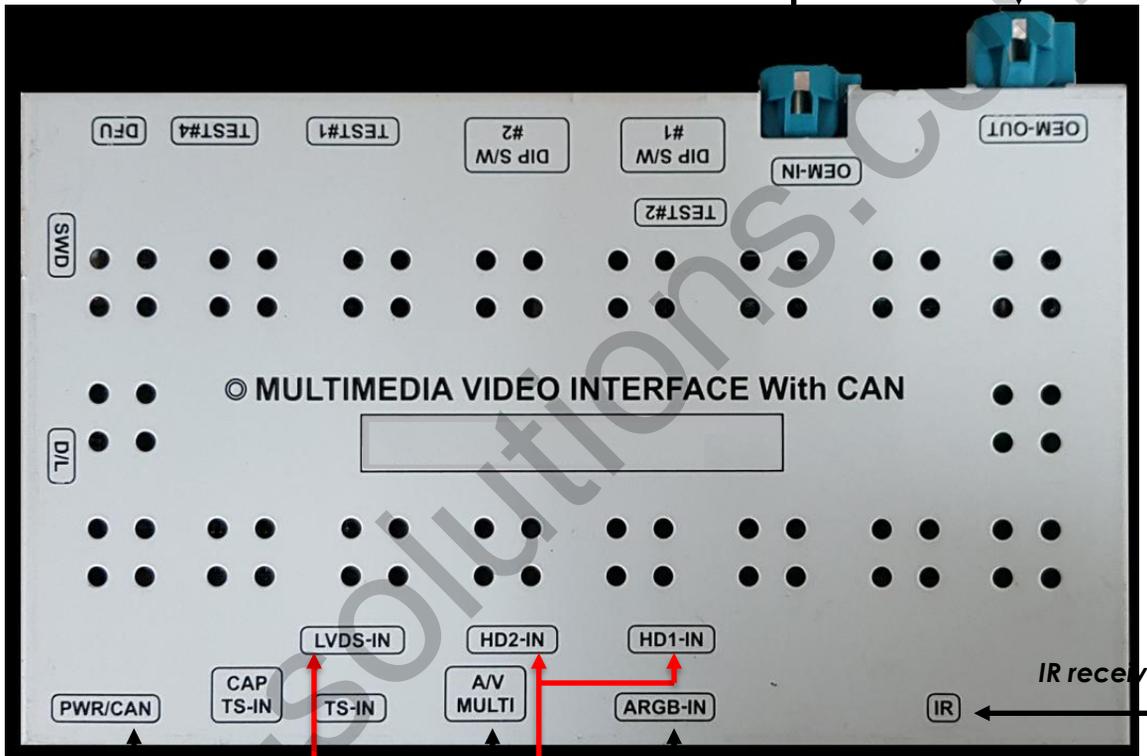


OEM Monitor



OEM LCD Cable to interface "LVDS IN"

QDIS supplied LCD Cable to interface "LVDS OUT"



** Please refer next page for Power/CAN connection*

A/V in *2
RCAM in *1
FCAM in *1
AUX out *1

HDMI input *2

RGB Pin#7 is UART-TX for UART Touch



CARPLAY BOX



ANDROID NAVIGATION BOX

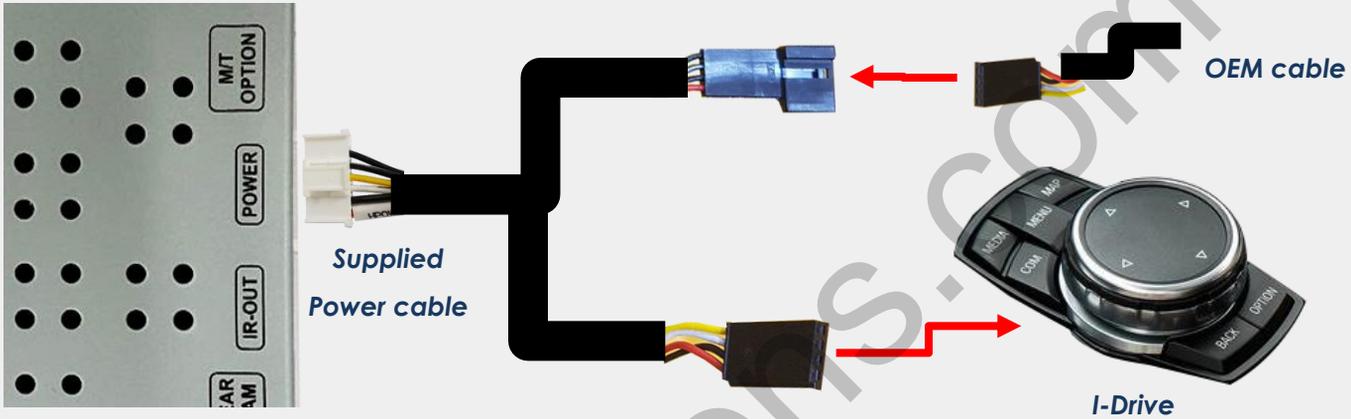
Power/CAN Connection

* Two ways to connect POWER/CAN cable

1. Connect the cable from I-Drive, TV free is not supported (Dip switch #8-OFF)
2. Connect the cable from the Head unit, TV free is supported (Dip switch #8-ON)

• IDRIVE

* Detach OEM cable from I-Drive and connect with supplied power cable



• HEAD UNIT



Pull out the bunch of cables from the backside of command and disconnect the marked optical fiber cable



Connect the optical fiber cable to the supplied power cable



Connect the provided power cable to the backside of monitor

support@car-solutions.com



Connect the bunch of original cables to the provided power cable (Female connector)

car-solutions.com

• Activation with OEM Button

* Switch the mode or activate the function by OEM button



<Steering wheel>



<I-Drive>



<Memory Button>

Section	Button	Operation	Function
IDRV	IDRV MENU	long press (3sec)	Mode change
		short press	Return to original (When entering front camera mode, return to before mode)
	IDRV MAP	long press (3sec)	Mode change
		short press	Return to original
	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
	IDRV WHEEL RIGHT SPIN	short press	DTV CH+, DVD NEXT
			OSD MENU UP
	IDRV WHEEL LEFT SPIN	short press	DTV CH-, DVD PREV
			OSD MENU DOWN
	IDRV WHEEL PUSH	short press	OSD MENU DOWN
	IDRV MEDIA	short press	Return to original
IDRV RADIO			
IDRV OPTION			
4 KEY	IDRV UP	short press	DTV CH+, DVD NEXT
	IDRV DOWN	short press	DTV CH-, DVD PREV
	IDRV LEFT	long press (3sec)	Ext. Rear PIP mode function
HANDLE	VOICE	short press	Mode change
		short press - in ext. RCAM	Ext. Rear PIP mode function
Memory	#7	Short press	Mode switch

• Activate Car-play & Android Auto by OEM Buttons

* Regarding IDR V type selection, please go to factory menu -> UTIL2 -> IDR V Type.

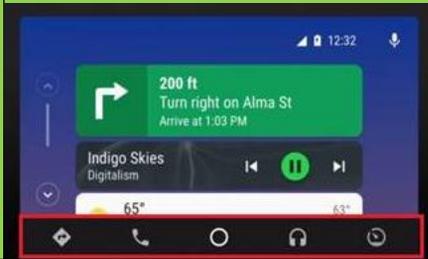


4 KEY TYPE IDRIVE
(with IDR V Up/Down)



2 KEY TYPE IDRIVE
(no IDR V Up/Down)

Section	Button	Operation	Function	
IDRV	IDRV WHEEL RIGHT SPIN	Moving right	Right	
	IDRV WHEEL LEFT SPIN	Moving left	Left	
	IDRV WHEEL PUSH	Short press	Selection/Enter	
		Long press (3sec)	Si-ri Call	
	4 KEY	IDRV LEFT	Short press	Left/Track -
		IDRV RIGHT	Short press	Right/Track +
		IDRV UP	Short press	Up
			Long press (3sec)	Home
	IDRV DOWN	Short press	Down	
		Long press (3sec)	1. Back 2. Moving to Android Auto Down Side Menu	
	2 KEY	IDRV RIGHT	Short press	Right/Track +
			Short press	Left/Track -
IDRV LEFT		Long press (3sec)	Home	



• Trouble shooting

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)