

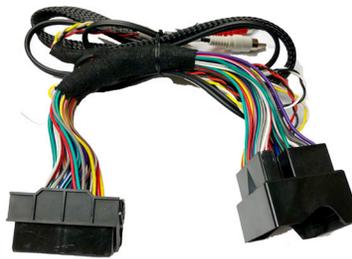
PRODUCT FEATURES:

- Adds front and rear aftermarket camera inputs.
- Retains functionality of the OEM backup camera if present.
- Front camera automatically shows on the screen after changing the gear from reverse to drive.
- Provides power and ground for the cameras.
- Adds 1 A/V Input.
- Adds 2 video and 1 audio outputs.

PARTS INCLUDED:



MRVBM-77Q Module



MRVBM-77Q Power Harness



LVDS Cable



Push Button Switch



I/O Cable



Remote Control



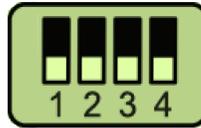
IR Cable



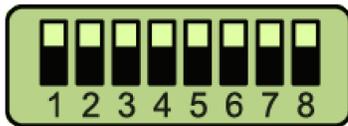
DIP SWITCH SETTINGS:

4 POSITION SWITCH

Set all DIP switches DOWN



8 POSITION SWITCH



DIP switches 1 to 3:

DIP	STATUS	FUNCTION
1	UP	AV1 ON
	DOWN	AV1 OFF
2	UP	Front Camera ON
	DOWN	Front Camera OFF
3	UP	Set to OFF
	DOWN	

DIP switches 4 and 5:

DIP	DIP #4	DIP #5	FUNCTION
STATUS	UP	UP	1440 x 540 (5, 7, X5 Series) (10.25" screen)
	UP	DOWN	1280 x 480 (8.8" screen)
	DOWN	DOWN	800 x 480 (6.5" screen)
	DOWN	UP	1280 x 480 (Mini with Touch)

DIP switches 6 to 8:

DIP	STATUS	FUNCTION
6	UP	5, 7 Series
	DOWN	1, 2, 3, 4, 6, X Series, Mini
7	UP	Use OEM Backup Camera
	DOWN	Use Aftermarket Backup Camera
8	UP	CAN in/out mode
	DOWN	CAN bypass mode

Please make sure to power cycle the interface (unplug power harness then plug back in) after changing the DIP switch settings.



REMOTE CONTROL:

KEY	FUNCTION
POWER & PIP	No Function
MENU	Activate OSD Menu
OK	Make the selection / Change the image display
▲	Move UP
▼	Move DOWN
◀	Move LEFT (Press for 2 seconds to Access Factory Mode)
▶	Move RIGHT (Press for 2 seconds to Reset User Data)

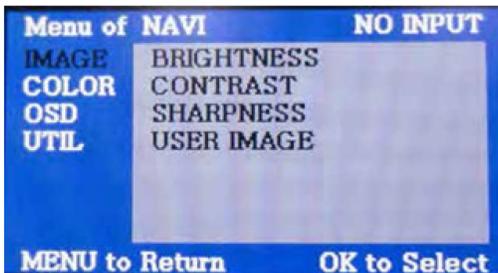


ON SCREEN DISPLAY (OSD) SETTINGS:

Make sure the IR receiver is connected to the module and is in a clear view for the IR Remote to contact.

There are two menus on the interface. “Menu of NAVI” and “Menu of FACTORY”. In order to access the Menus you must be in the AV source. *Tap the PURPLE wire (SAFE) to ground and* use the OK button on the IR remote to switch sources (same function as momentary switch included). Press the “MENU” button on the remote control to enter Menu of NAVI.

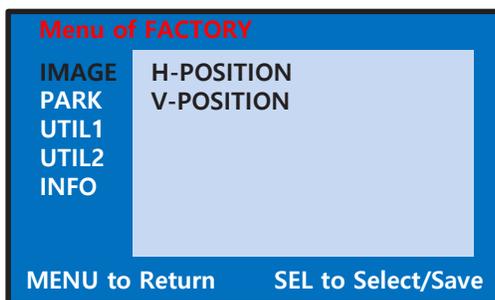
Adjusting Screen Settings (Menu of NAVI)



In this menu, user can set the image BRIGHTNESS, CONTRAST, SHARPNESS and set a USER IMAGE.

Setting the Rear View Camera (Menu of FACTORY)

To access the “Menu of FACTORY”, exit the Menu of NAVI, press and hold the left arrow for 3 seconds while in the same AV source. Use the arrows to navigate the menu.



H-POSITION : Move the image horizontally
V-POSITION : Move the image vertically
H-SIZE(NAVI) : Adjust the size of navigation image horizontally





PAS TYPE: Parking Guide Line Setting

- NOT USED: No use parking guide line
- PAS ON: Selecting Dynamic parking guide line
- PAS OFF: Selecting fixed parking guide line

PAS SETUP: Adjusting the position of the parking guide line

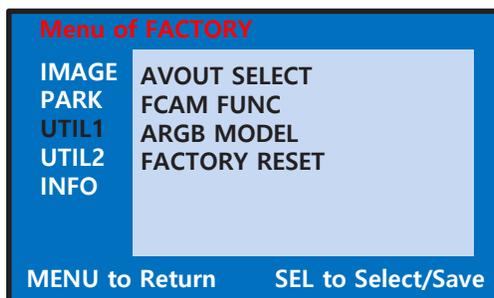
REAR TYPE: Choose Rear Camera Recognition

- CAN: Reverse Camera is triggered by CAN when shifting into reverse. CAN wire of module must be connected to CAN wire of car.
- LAMP: Reverse Camera is triggered when the reverse light turns on. Connect "Rear-C" cable of the power cable the reverse light.

RADAR ENABLE: Setting up the parking Distance Alarm Sensor

SAFE ENABLE: ENABLE to enter OSD Menu

UTIL1



AVOUT SELECT: Select background sound via car AUX

- Plug in Audio Output to Car's Aux input

FCAM FUNC: Front Camera Function after a Reverse Process

- 15x: Displays front camera for 15, 10, 5 or 3 seconds
- OFF: Front camera will not be displayed

ARGB MODEL: Not used

FACTORY RESET: Reset unit to factory defaults



VOICE KEY: Enable/disable the OEM voice button on the steering wheel for more changes on select vehicles. Default is OFF.

MEMORY KEY: Enable/disable the use of the OEM memory buttons. Default is OFF.



OEM BUTTON FUNCTIONS:

The MRVBM-77Q allows the user to control the unit using vehicle’s steering wheel controls, iDrive knob or the memory buttons on the dashboard.



Steering Wheel Controls



iDrive

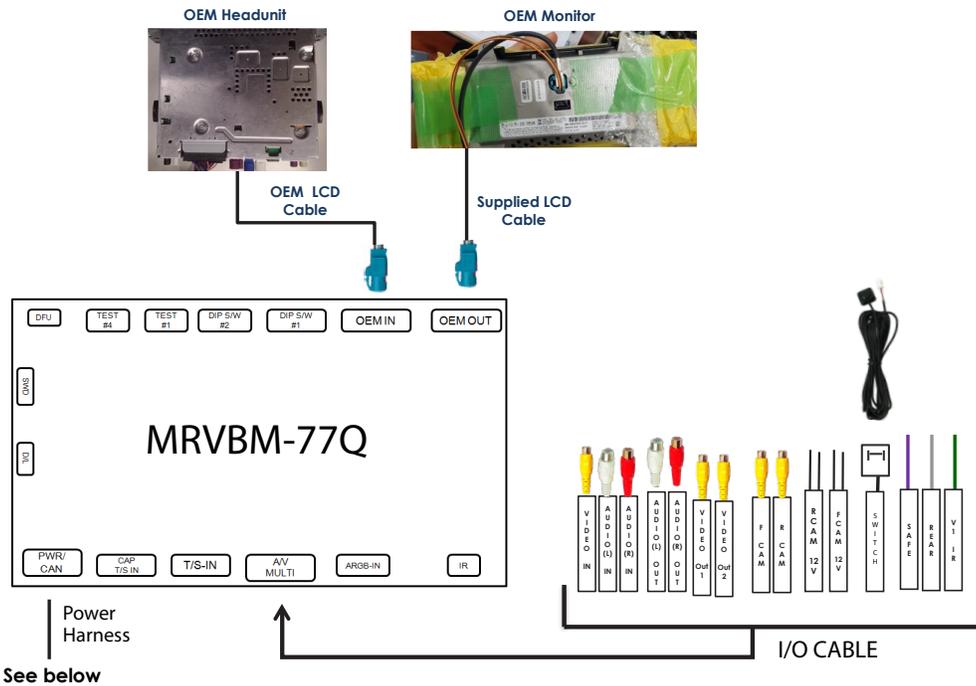


Memory Buttons

SECTION	BUTTON	OPERATION	FUNCTION
Steering Wheel	Voice	Short Press	Mode Switch
		Short Press	PIP Mode Choice
Memory	#7	Short Press	Mode Switch
iDrive	MAP	Long Press (3 sec.)	Mode Switch
		Short Press	Return to OEM
	COM	Long Press (7 sec.)	Safe ON / OFF
	OPTION	Short Press	Return to OEM
	MEDIA	Short Press	
	RADIO	Short Press	
	BACK	Long Press (7 sec.)	Factory Mode: ON
		Short Press	Factory Mode: BACK
	MENU	Long Press (3 sec.)	Mode Switch
		Short Press	Return to OEM screen (On FCAM screen, turn off FCAM screen)
	Knob UP	Short Press	OSD Menu Up
	Knob DOWN	Short Press	OSD Menu Down
Knob Press	Short Press	OSD Menu Select	



WIRING DIAGRAM:



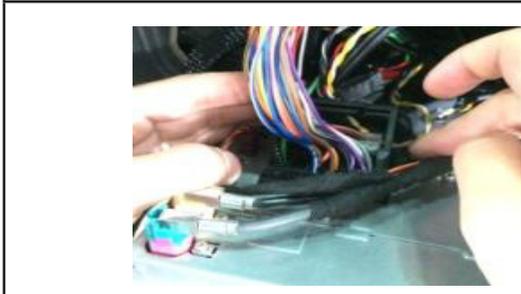
WIRING AT THE HEADUNIT



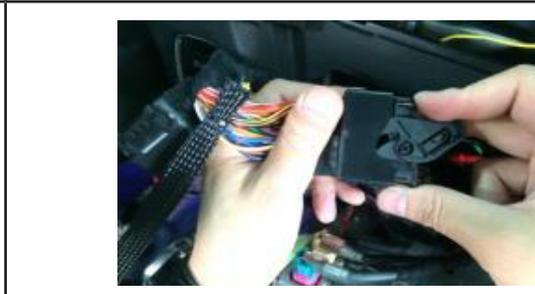
1. Remove the headunit and unplug the Quadlock connector. Unplug the Fiber Optic cable connector from the main connector housing.



2. Plug in the fiber optic cable connector to the female Quadlock connector supplied on the MRVBM-77Q power harness.



3. Plug the male Quadlock connector of the MRVBM-77Q power harness to the headunit.



4. Plug the OEM Quadlock connector to the mating connector on the MRVBM-77Q power harness.



5. Plug the cameras to be used to the corresponding video RCAs on the I/O harness. Use the power and camera ground wires supplied on the same harness.
6. Test the cameras for functionality. Put the gear in reverse and confirm that the backup camera image shows up on the screen. Put the gear to drive and the front camera image should show on the screen (confirm front camera setting on the OSD on page 2).
7. If using the AV input, plug in an AV source to test for functionality. Use the selector buttons as stated on pages 4 and 5.
8. Once functionality tests are completed, reinstall the headunit.

VEHICLE APPLICATIONS:

BMW & Mini with 8.8" or 10.2" Monitors and Evo2 iDrive5 Systems

BMW

- 2017 – 2018 1 Series
- 2017 – 2018 2 Series
- 2017 – 2018 3 Series
- 2017 – 2018 4 Series
- 2017 – 2018 5 Series
- 2017 – 2018 6 Series
- 2017 – 2018 7 Series
- 2017 – 2018 X3
- 2017 – 2018 X4
- 2017 – 2018 X5

Mini

- 2017-2018 Mini

