

Manual Date : 2018.01.18

# Installation Manual

HDMI Interface for MAZDA3

Model : QHI-LVTX-MAZ3



# • Specification

Car compatibility : MAZDA3, CX-5, CX-9

**Components** : Interface\* 1ea

## **Multimedia interface Input/output spec**

Input : HDMI\*1, Analog RGB\*1, A/V\*1, CVBS(Rear camera)\*1  
CVBS(Front camera)\*1

Output : To LCD\*1

## **Power spec**

Input power : 8VDC ~ 18VDC

Consumption : 6WATT

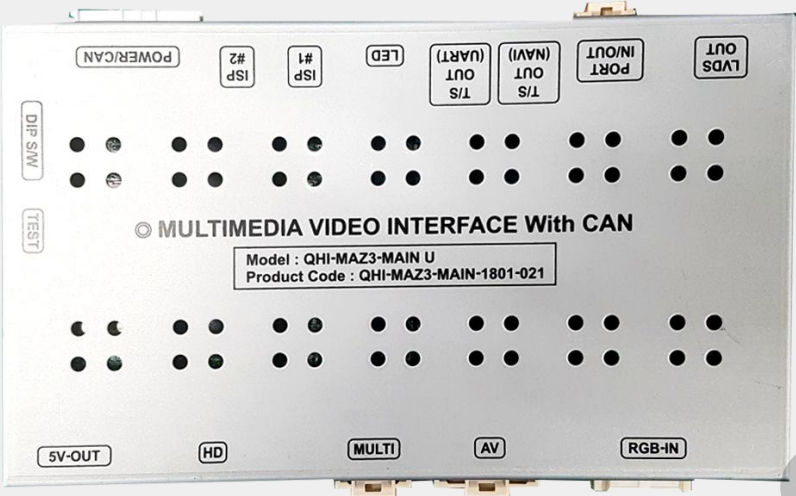
## **Switch input mode**

- External video sources skip function : able to control input videos on and off via DIP switches
- Able to switch videos via the remote, button switch, and original buttons
- Able to detect the rear view camera (back up camera) via Lamp or CAN

# • Features

- Able to output high resolution video via HDMI input
- Control external videos sources (DVD, DTV) via Multi Media Touch
- Adjust external videos screen position
- Check the improved Screen Display (User Friendly Interface)
- Switch modes via original OEM button
- Supply power to connect rear view camera (Back up camera)
- Assist your parking via Dynamic PAS(Parking Assistance System) moving parking line according movement of steering wheel

• Product Exterior



• Components



Subboard  
(QCPASS1192)



J by J \* 1ea  
(HPOWER0204)



MULTI \* 1ea  
(HARETC0240)



AV \* 1ea  
(HAVCAB0056)



RGB \* 1ea  
(HRGBCA0026)



LCD OUT \* 1ea  
(HLVDSC0064)



LCD IN \* 1ea  
(HLVDSC0063)



LVDS \* 1ea  
(HARETC0259)



AUX \* 1ea  
(HARETC0265)



HDMI \* 1ea  
(HARETC0067)



UART Touch \* 1ea  
(HTOUCH0033)



4P Touch \* 1ea  
(HTOUCH0004)



REAR \* 1ea  
(HARETC0002)



BUTTON \* 1ea  
(HARETC0001)



IR \* 1ea  
(HIRCAB0002)



Remote \* 1ea  
(REMOTE0001)

# DIP SWITCH



※ ON : DOWN / OFF : UP

PIN	FUNCTION	Dip S/W SETTING
1	RGB INPUT MUTE	OFF : RGB DISPLAY ON : Skipping RGB Mode
2	HDMI1 MODE MUTE	OFF : HDMI1 DISPALY ON : Skipping HDMI1 Mode
3	AV1 MODE MUTE	OFF : AV DISPLAY ON : Skipping AV Mode
4	AV2 MODE MUTE	OFF : AV DISPLAY ON : Skipping AV Mode
5	NO USE(OFF)	
6		
7	REAR MODE	OFF : OEM Rear Camera ON : External Rear Camera
8	NO USE(OFF)	

※ Please make sure to disconnect the power cable of the interface and reconnect the power cable again to apply the dip switch setting whenever changing DIP switch. Otherwise, DIP switch setting will not be applied.

# REMOTE CONTROL SETTING



KEY	FUNCTION
POWER & PIP	NO USE
MENU	Activating FACTORY 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 setting



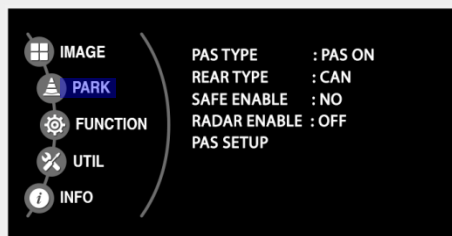
## Adjust a current screen position and size.

H-POSITION : Move display horizontally

V-POSITION : Move display vertically

BRIGHTNESS : Change brightness

CONTRAST : Change contrast



## Adjust rear view camera setting

PAS TYPE : Select type of parking guide line

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

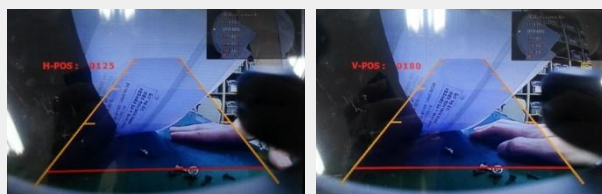
REAR TYPE : Choose rear camera recognition.

- CAN : By connecting to "CAN" cable of the car gear, changing to rear camera mode when shifting into reverse. (Connect "CAN" cable of the power cable to the "CAN" cable of the car gear.)
- LAMP : By connecting to the rear lamp of the car, switch to rear camera mode when shifting into rear. (Connect "Rear-C" cable of the power cable to the rear lamp of the car.)

SAFE ENABLE : If it is 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)

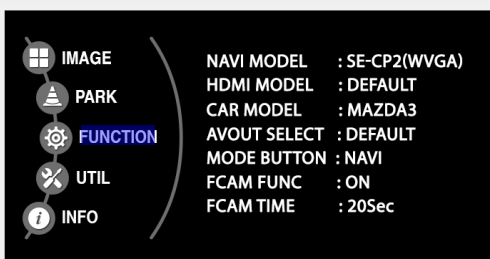
PAS SETUP : Adjusting the position of the parking guide line



<H-POSITION>

<V-POSITION>

# • Factory setting



## Navigation & Car model setting up

**NAVI MODEL** : Setting for RGB navigation  
(Default, SE-CP1, SE-CP2, Q-ROI1, Q-ROI2, )

**HDMI MODEL** : Setting for HDMI model

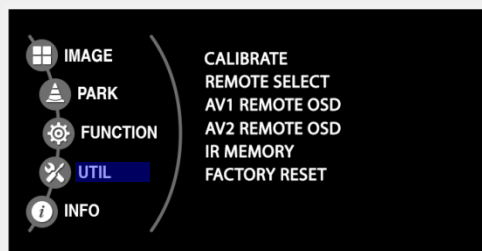
**CAR MODEL** : Choose the car model  
(MAZDA3, CX-5, CX-9)

**AVOUT SELECT** : Selecting background sound  
through car AUX. HDMI1, HDMI2,  
AV)

**MODE BUTTON** : OEM button to change the mode  
(NAVI)

**FACM FUNC** : ON – Use front camera  
OFF – Do not use front camera

**FCAM TIME** : Choose the time that Front camera  
displays (5sec, 10sec, 15sec, 20sec)



## Other options

**CALIBRATE** : No use

**REMOTE SELECT** : Able to use remote control on  
DVD, DTV by selecting “User”  
after IR memory is registered.  
(Default, User)

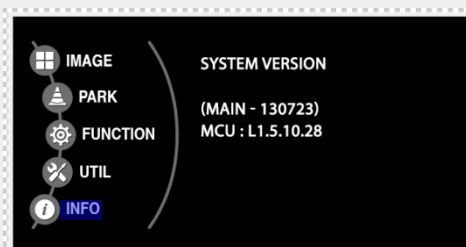
**AV1 REMOTE OSD** : AV1 multimedia OSD setting

**AV2 REMOTE OSD** : AV2 multimedia OSD setting

**IR MEMORY** : Register IR memory of  
Remote control for DTV, DVD

**FACTORY RESET** : FACTORY mode reset

## System version information





• OEM button

<Steering wheel>



<Gear box>



Position	Steering Wheel	Gear box				
Buttons	Hangup phone	Nav	Music	Home	Star	Wheel
Long	Mode changes	-				
Short	-	Back to OEM mode				

<Steering Wheel>

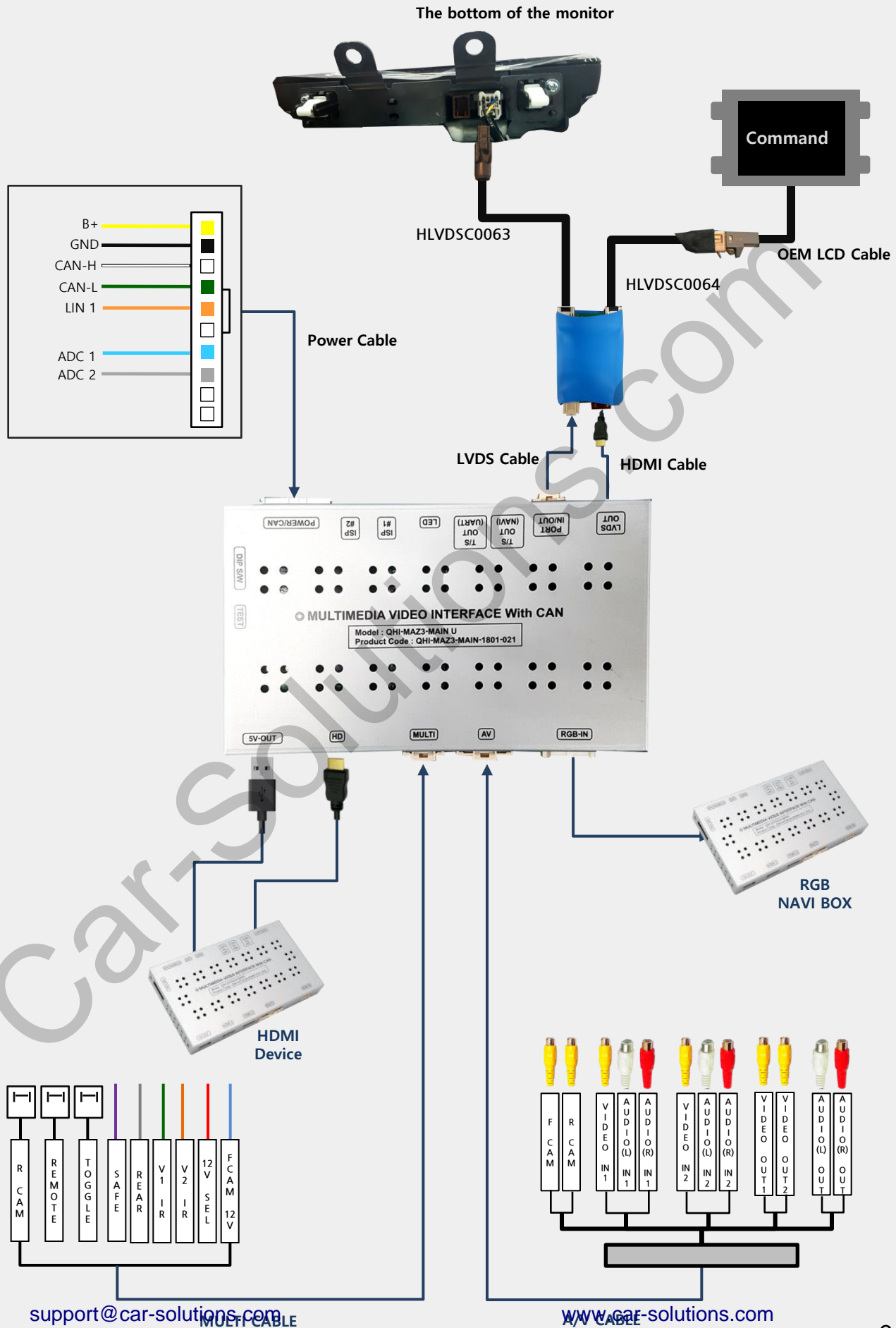


<Gear box>



Position	Steering Wheel	Gear box
Buttons	«,»	Push knob up/down
Function	DTV Channel up/down	

- Installation Diagram

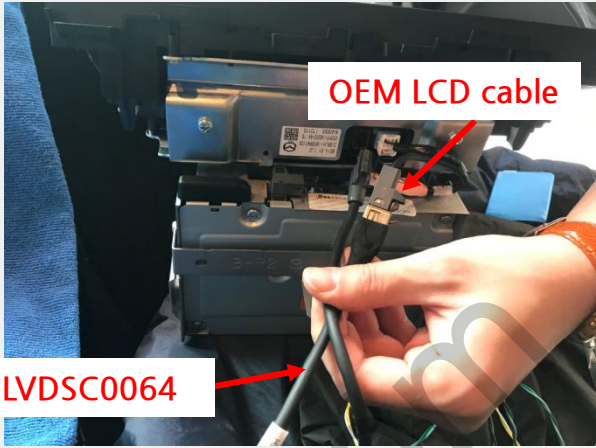




# • LCD cable IN/OUT



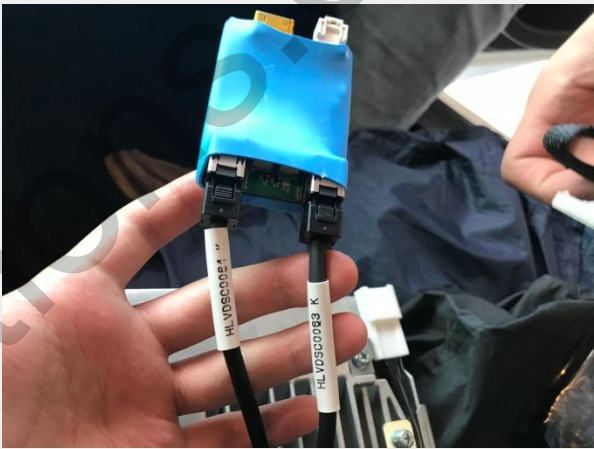
Remove OEM LCD cable from the monitor.



Connect OEM LCD cable to the supplied cable - “HLVDSC0064”

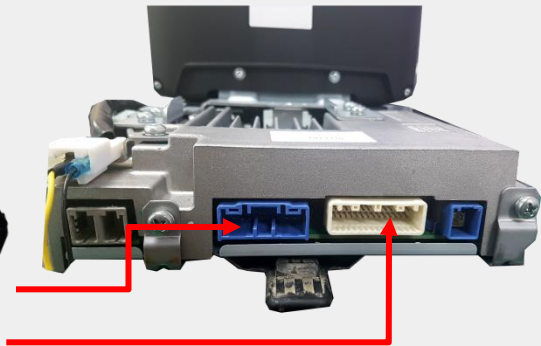
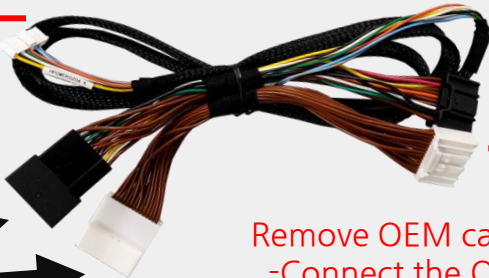


Connect the supplied cable-“HLVDSC0063” to the place where OEM LCD cable was removed



The other side of two supplied cables is connected to the subboard as shown above  
HLVDSC0064 → COMMAND-IN  
HLVDSC0063 → LCD-OUT

# • Power cable



Remove OEM cables from the headunit  
-Connect the OEM cable to the female connector of the supplied power cable.  
-Connect the male connector of the supplied power cable to the headunit.

OEM cable which was originally linked to the Headunit  
support@car-solutions.com

www.car-solutions.com

# • 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 the original screen is shown half only after using the handle button for running the PIP function.**

A. This is not because of defect but incorrect setting up. Make sure to set up the original monitor function as "split screen"

## **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)