

Manual Date : 2018.02.08

Installation Manual

HDMI Interface for INFINITI QX60
Model : QHI-LVTX(HH)-MAIN-V3.0



•Specification

Car Compatibility : INFINITI QX60, Q50

Components : Interface* 1ea, Sub-board*1ea

Multimedia interface Input/output spec

Input : HDMI*2, Analog RGB*1, A/V*1,

CVBS(Rear view Camera)*1, CVBS(Front camera)*1

Output : To LCD*1

Power spec

Input power : 8VDC ~ 18VDC

Consumption : 6WATT

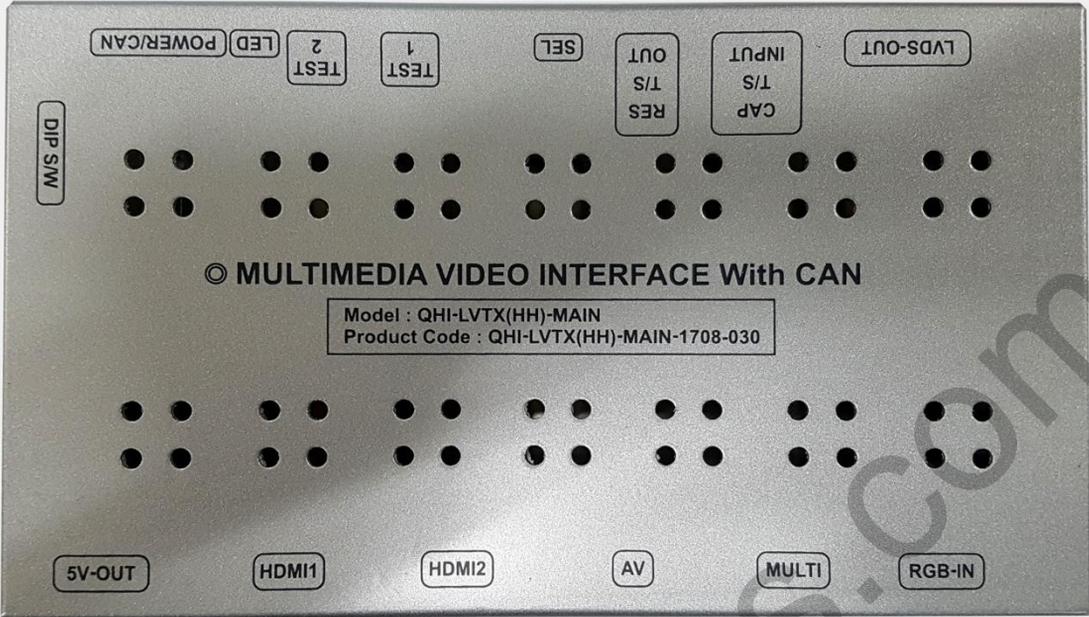
Switch input mode

- 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). It displays the moving parking line according movement of steering wheel

•Product Exterior



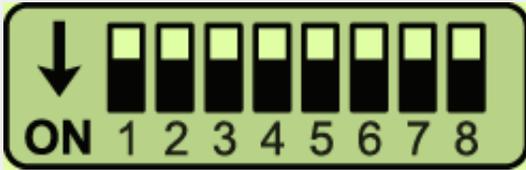
•Components

- Subboard * 1ea
(QCPASS1158)
- POWER * 1ea
(HPOWER0161)
- AV * 1ea
(HAVCAB0056)
- RGB * 1ea
(HRGBCA0026)
- LVDS * 1ea
(HLVDSC0062)
- REAR * 1ea
(HARETC0002)
- MULTI * 1ea
(HARETC0240)
- SEL * 1ea
(HARETC0250)
- 60P FFC * 1ea
(FFCABL0012)
- 10P FFC * 1ea
(FFCABL0088)
- BUTTON * 1ea
(HARETC0001)
- IR * 1ea
(HIRCAB0002)
- REMOTE * 1ea
(REMOTE0001)

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•DIP SWITCH



※ ON : DOWN / OFF : UP

PIN	Function	Dip S/W
1	RGB INPUT MUTE	OFF : RGB DISPLAY ON : Skipping RGB Mode
2	HDMI1 MODE MUTE	OFF : HDMI1 DISPLAY ON : Skipping HDMI1 Mode
3	AV MODE MUTE	OFF : AV DISPLAY ON : Skipping AV Mode
4	FRONT CAM MUTE	OFF : Front camera function on ON : Front camera function off
5	NO USE(OFF)	
6	CAR MODEL	OFF : QX60 ON : Q50
7	REAR CAM MODE	OFF : OEM Rear Camera ON : External Rear Camera
8	NO USE(OFF)	

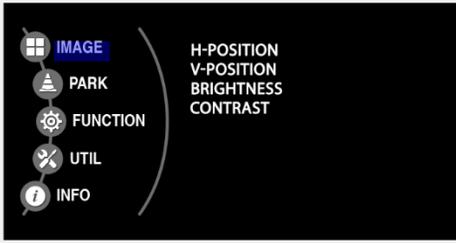
※ Please make sure to disconnect and reconnect the power cable again to apply the dip switch setting whenever changing DIP switch. Otherwise, DIP switch setting will not be applied.

•REMOTE CONTROL SETTING



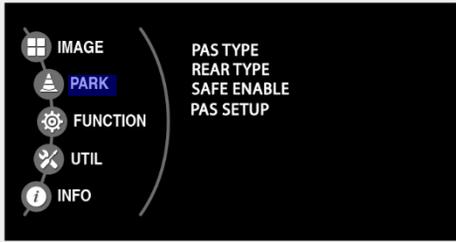
Key	Function
POWER & PIP	No use
MENU	Activate FACTORY mode
OK	Select, Changing image display
▲	Move up
▼	Move down
◀	Move left(Access to the factory mode if you press this button more than 2 seconds)
▶	Move right (Activate the data reset if you press this button more than 2 seconds)

• Factory setting



Adjust a current screen position and size.

- H-POSITION : Move display horizontally
- V-POSITION : Move display vertically
- BRIGHTNESS : Adjust brightness of screen
- CONTRAST : Adjust contrast of screen



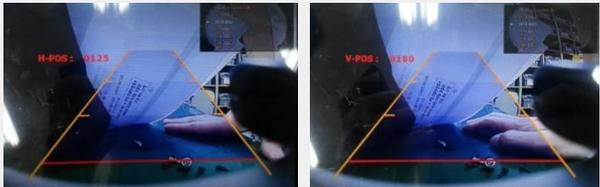
Adjust rear view camera setting.

- 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)

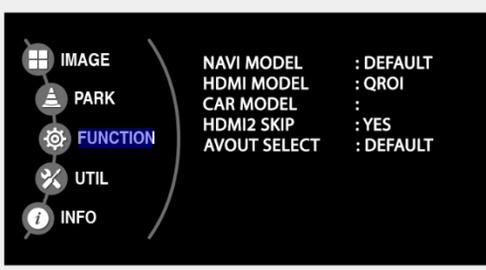
PAS SETUP : Adjusting the position of the parking guide line



<H-POSITION>

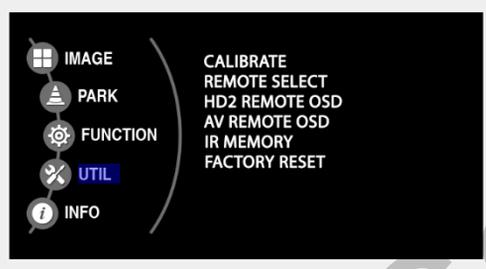
<V-POSITION>

•Factory setting



Navigation & Car model setting up

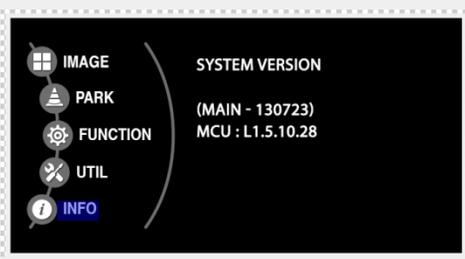
- NAVI MODEL** : Setting up RGB Navigation (Default, Q-roi RGB, WP9230, HDMI(WVGA))
- HDMI MODEL** : Setting up HDMI1 Navigation. (Q-roi RGB, WP9320)
- CAR MODEL** : No Use
- HDMI2 SKIP** : Skipping HDMI mode when switching modes.
- AVOUT SELECT** : Selecting background sound through car AUX. (HDMI1, HDMI2, AV)



Other options setting up

- CALIBRATE** : Able to calibrate touch screen
- REMOTE SELECT** : Able to use remote control on DVD, DTV by selecting "User" after IR memory registered. (Default, User)
- HD2 REMOTE OSD** : HDMI2 OSD on or off
- AV REMOTE OSD** : AV OSD on or off
- IR MEMORY** : Registering IR memory (Remote control values) of DTV, DVD.
- FACTORY RESET** : Factory mode reset.

System version information



•OEM button

※ QX60



Long press : Mode switch
Short press : Back to OEM mode

※ Q50



Long press : Mode switch
Short press : Back to OEM mode

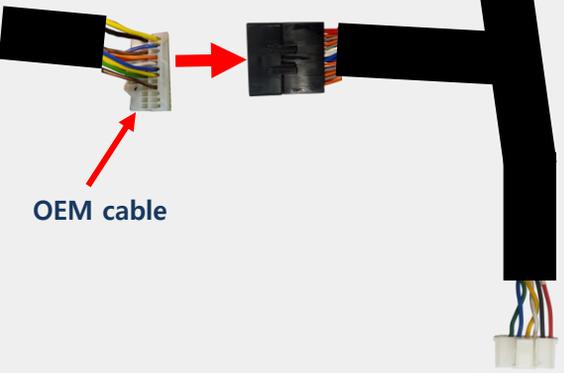
Installation Diagram

Back side of the monitor



※ Remove the oem cable from the back side of the monitor " 1 " and connect OEM cable to the supplied power cable. Male connector of the supplied power cable is connected to the back side of the monitor

Supplied power cable

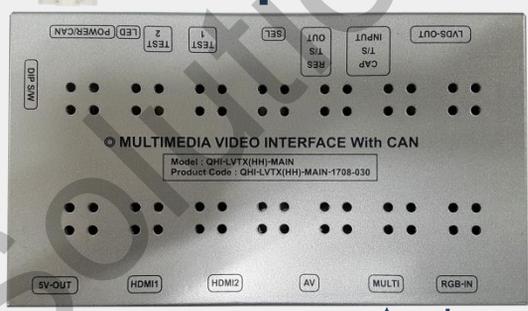


OEM cable



LVDS Cable

RGB NAVI BOX
HDMI NAVI BOX



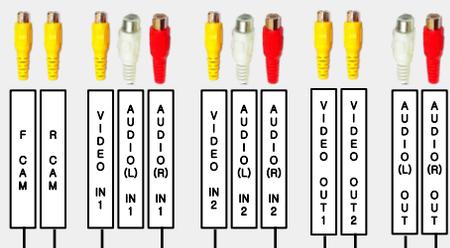
Mirroring Device



HDMI NAVI BOX

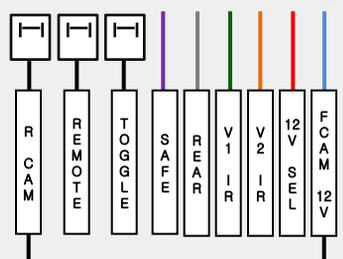


RGB NAVI BOX



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A/V CABLE



MULTI CABLE

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•Subboard installation



Disassemble the monitor from the car



Remove the cover



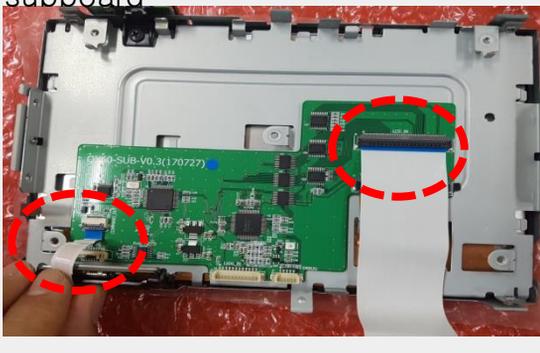
Detach the OEM board from the case



Marked OEM touch cable is connected to "OEM T/S" of the supplied subboard



Attach the supplied subboard on the surface and Marked OEM FFC cable is connected to "LCD-OUT" of the supplied subboard.



Insert two supplied FFC cables as shown above.

• Subboard installation



Place the OEM board on the top of the supplied subboard and the other side of the supplied FFC cables is connected as shown above

Put LVDS cable through the hole of the cover and connect this cable to "LVDS-IN" of the supplied subboard



Reassemble the cover

Caution : Make sure that supplied FFC cables are not stuck when reassemble the cover

•Q-ROI RGB&Uart Touch

※Connect IR-NAVI wire from RGB-In cable of QHI-QX60 to Uart wire from RGB-Out of Q-ROI RGB



The first pin from the right of RGB Out is Uart wire



IR-NAVI label for QHI-QX60

•Q-ROI2& Uart Touch

※Connect IR-NAVI wire from RGB-In cable of QHI-QX60 to Red wire of Uart-touch cable from QROI2 multi cable



There are three wires for Uart-touch cable from QROI2 multi cable.



IR-NAVI label for QHI-QX60

• 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)