Manual Date : 2017.03.22

Installation Manual

HDMI Interface for Infinity Q30

Model : QHI-LVTX-Q30

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• Specification

Car Compatibility : 2017 Infinity Q30

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 : 5WATT

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), PDC(Parking Distance Control), moving parking line according movement of steering wheel

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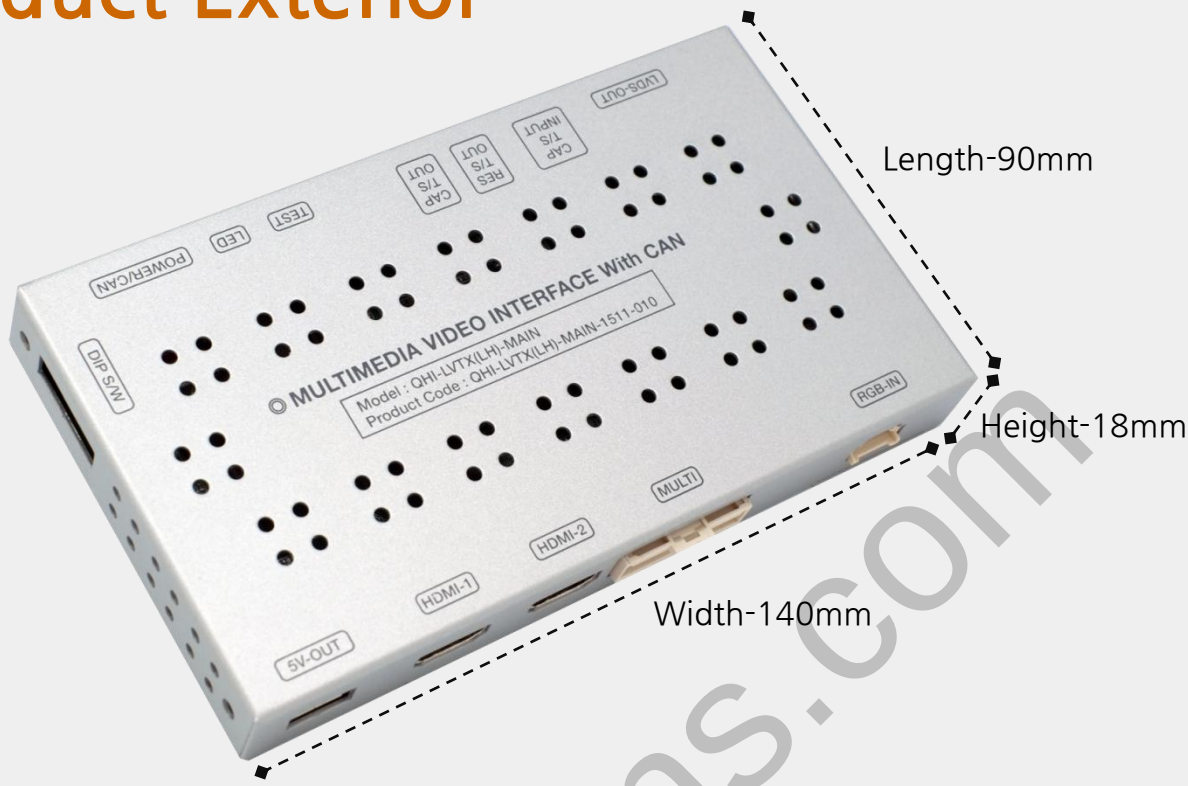
• Product Exterior



5V-OUT(Power supply for Mirroring device) | HDMI-1 | HDMI-2 | MULTI | RGB-IN(RGB Navigation input LVDS-OUT(Connection to Sub-board) | CAP T/S INPUT(Original touch cable connection) | RES T/S OUT(NOT FOR USE) | CAP T/S OUT(Connection to supplied touch cable) | TEST(NOT FOR USE) | LED | POWER/CAN(POWER / CAN connection) | DIP S/W(Dip switch setting)

• Components

서브보드 * 1ea
(QCPASS1015)

POWER * 1ea
(HPOWER0161)

FFC cable * 2ea
(FFCBAL0081)
(FFCBAL0084)

MULTI * 1ea
(HAVCAB0038)

RGB * 1ea
(HRGBCA0018)

LVDS * 1ea
(HLVDSC0055)

BUTTON * 1ea
(HARETC0001)

IR * 1ea
(HIRCAB0002)

TOUCH OUT * 1ea
(HTOUCH0031)

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 HDM1 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		
7	REAR CAM 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.)

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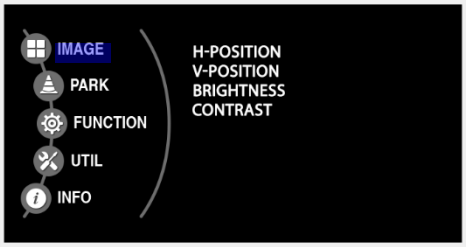
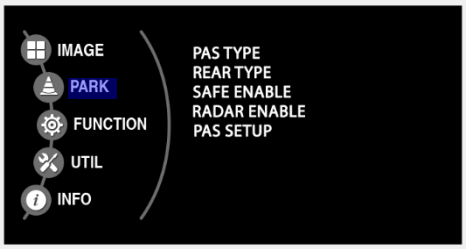
• Factory setting



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

PAS SETUP : Adjusting the position of the parking guide line

<H-POSITION>

<V-POSITION>

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)

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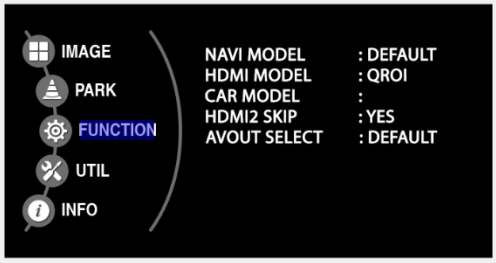
•Factory setting



Navigation & Car model setting up

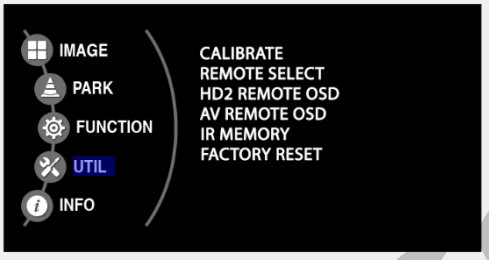
NAVI MODEL : Setting up RGB Navigation. (Default, Q-roi RGB, WP9230, HDMI(WVGA))

HDMI MODEL : Setting up HDMI1 Navigation. (Q-roi RGB, WP9320)

CAR MODEL :Q30

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)

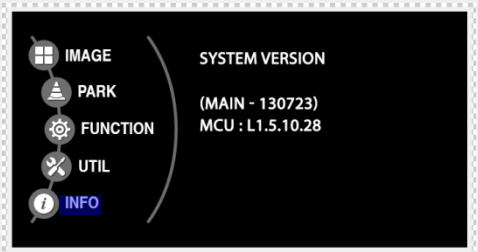
•**HD2 REMOTE OSD** : HDMI2 OSD on or off

•**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



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• OEM button

Long Press : Mode switch
Short Press: OEM mode

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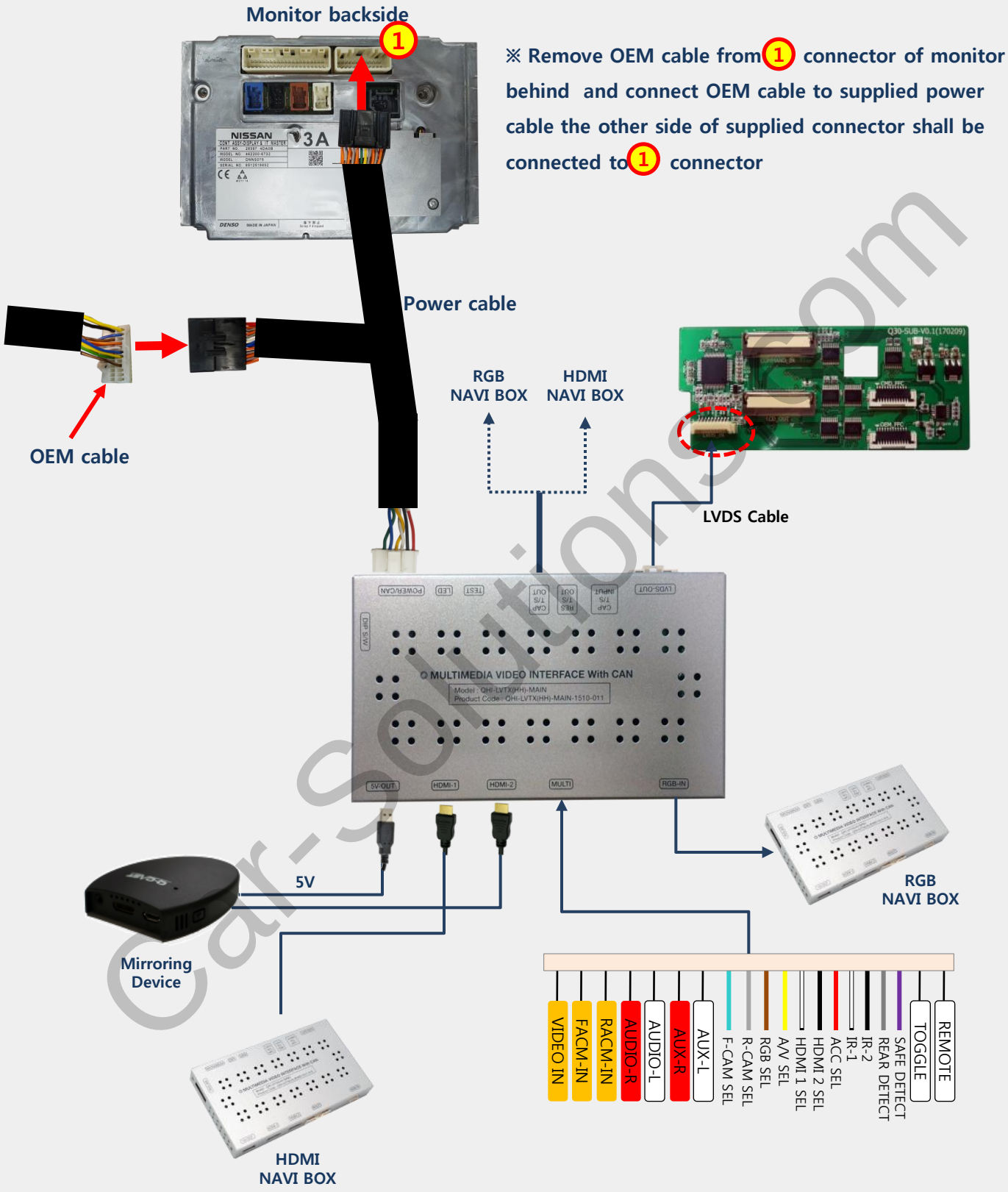
• Installation Diagram

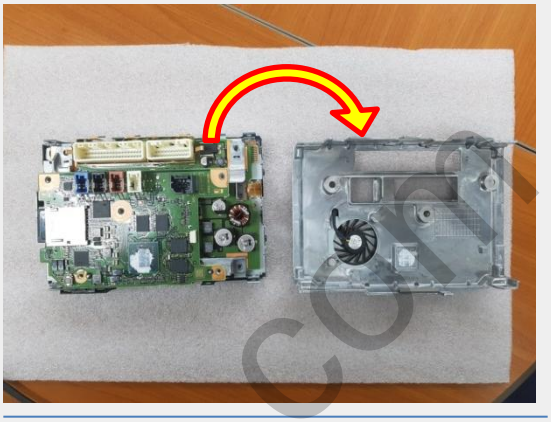


※ HDMI NAVI must be connected to HDMI-1.

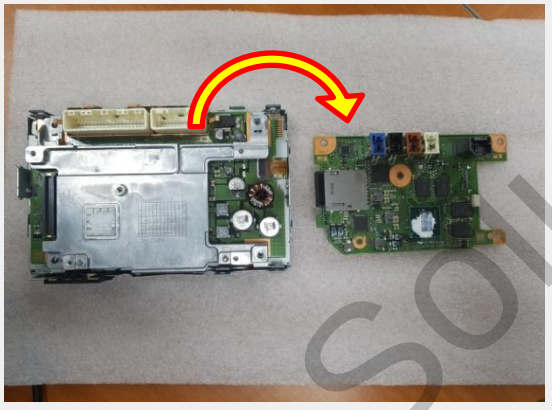
6. Installation

6.4 Subboard installation

Disassemble the monitor from Q30 as shown above

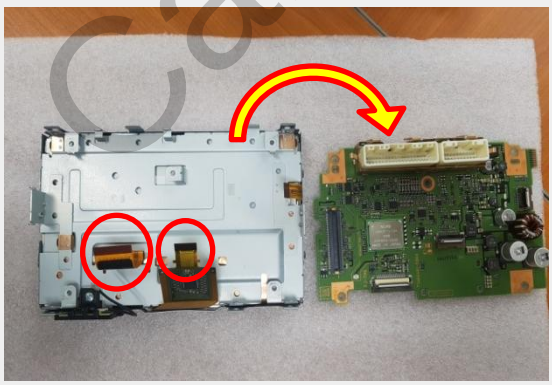


Remove the metal cover on the top

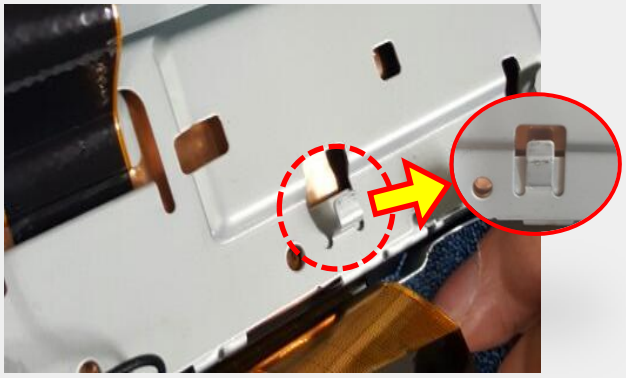


Disassemble the PCB board

Remove the metal cover again



Disassemble PCB board except OEM FPC cables



Make marked hook flat

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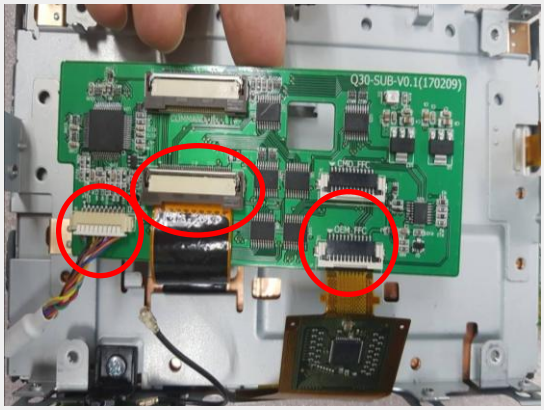
6. Installation

6.4 Subboard installation



OEM FPC cables and supplied LVDS cables shall be connected to the subboard

After attaching a double sided tape on the back of the subboard, Peel away the back of the tape. Fix the subboard on the metal surface and connect supplied FFC cables to the subboard

The opposite side of supplied FFC cables should be connected to the place where OEM FPC cables are connected

Place the board on the top of the metal case and reassemble the rest parts

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•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)

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