Manual Date : JAN 19, 2016

Installation Manual

Video Interface for Aston martin
Model : QPI-LVTX-ASTM

•Specification

Car Compatibility : 2014 Aston martin DB9, RAPIDE, VANTAGE
VANQUISH

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

Multimedia interface Input/output spec
   Input : Analog RGB*2(Navigation, SMI), A/V*3,
        CVBS(Rear view Camera)*1,
   Output : To LCD*1

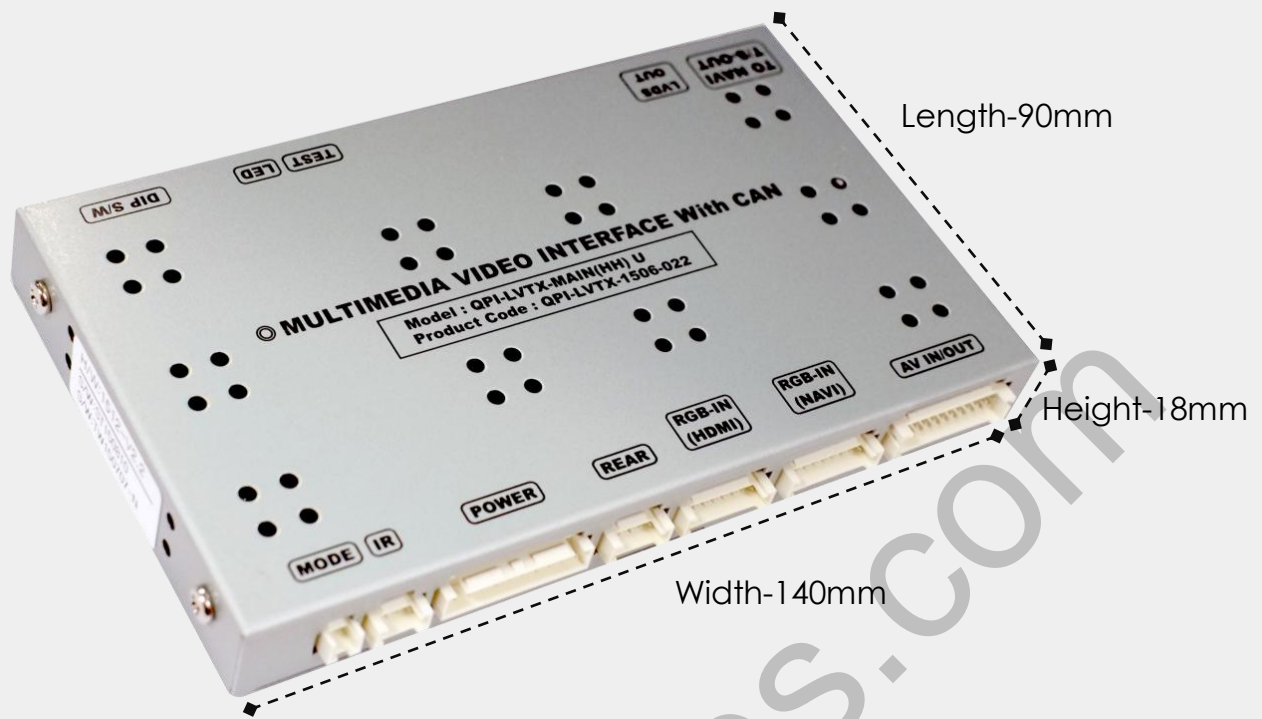**Power spec**
   Input power : 8VDC ~ 18VDC
   Consumption : 5WATT

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
- Control external videos sources (DVD, DTV) via Multi Media Touch GUI
- 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

•Product exterior

Length-90mm

Height-18mm

Width-140mm

MODE(Button cable connection) | IR(IR cable connection) | POWER(Power cable connection)
| REAR(Rear cable connection) | RGB-IN-HDMI(Mirroiring device connection)
| RGB-IN-NAVI(RGB Navigation Input) | AV IN/OUT(AV cable connection)
| TO NAVI T/S OUT(NAVI touch cable connection) | LVDS-OUT(Sub-board connection)
| TEST(NOT FOR USE) | LED | DIP S/W(DIP switch setting)

•Components

Sub-board * 1ea
(QCPASS0532)

Bracket * 1ea
(HPOWER0044)

LVDS * 1ea
(HLVDSC0020)

LCD * 1ea
(HLCDCA0029)

RGB * 1ea
(HRGBCA0013)

AV * 1ea
(HAVCAB0002)

NAVI TOUCH * 1ea
(HTOUCH0004)

TOUCH * 1ea
(HTOUCH0009)

REAR* 1ea
(HARETC0002)

BUTTON * 1ea
(HARETC0001)

IR * 1ea
(HIRCAB0002)

RC * 1ea
(REMOTE0001)

• DIP SWITCH

※ ON : DOWN / OFF : UP

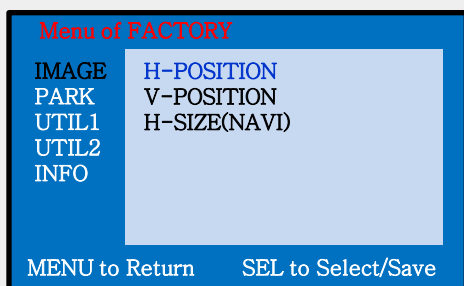| PIN	FUNCTION	Dip S/W SETTING
1	RGB INPUT MUTE	OFF : RGB DISPLAY ON : Skipping RGB Mode
2	HDMI1 MODE MUTE	OFF : HDMI1 DISPALY ON : Skipping HDMI1 Mode
3	AV MODE MUTE	OFF : AV DISPLAY ON : Skipping AV Mode
4	FRONT CAM MUTE	OFF : Front camera function on ON : Front camera function off
5	NO USE (OFF)	
6	MONITOR SETTING	OFF : Default
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

```
Menu of FACTORY
IMAGE      H-POSITION
PARK       V-POSITION
UTIL1      H-SIZE(NAVI)
UTIL2
INFO

MENU to Return     SEL to Select/Save
```
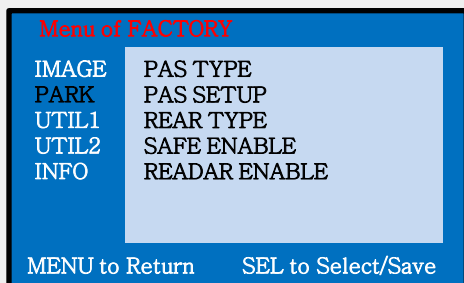
Adjust a current screen position and size.

H-POSITION : Move display horizontally
V-POSITION : Move display vertically.
H-SIZE(NAVI) : Control the left-right
                      monitor size

```
Menu of FACTORY
IMAGE      PAS TYPE
PARK       PAS SETUP
UTIL1      REAR TYPE
UTIL2      SAFE ENABLE
INFO       READAR ENABLE

MENU to Return     SEL to Select/Save
```
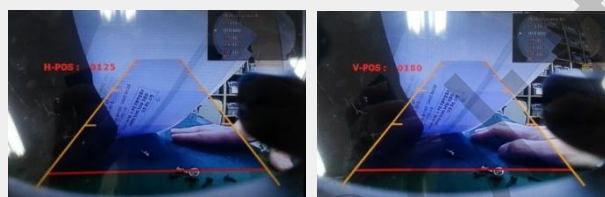
Adjust rear view camera setting.

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

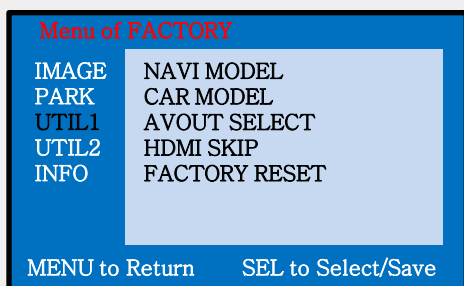⟨H-POSITION⟩   ⟨V-POSITION⟩

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
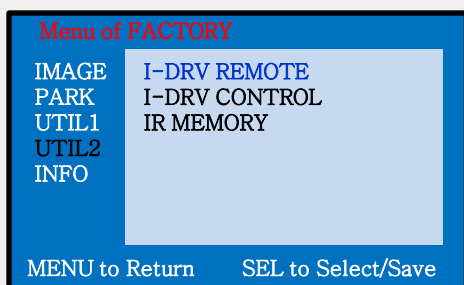   while driving. (Default : OFF)

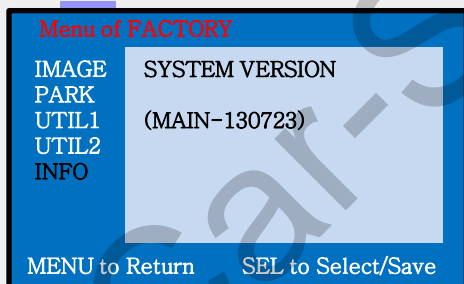RADAR ENABLE : Setting up parking distance alarm sensor. (ON/OFF)

•Factory setting

```
Menu of FACTORY
IMAGE    NAVI MODEL
PARK     CAR MODEL
UTIL1    AVOUT SELECT
UTIL2    HDMI SKIP
INFO     FACTORY RESET

MENU to Return     SEL to Select/Save
```

Navigation & Car model setting up

NAVI MODEL : Setting up RGB Navigation. (Default, Q-ROI)

CAR MODEL : Selecting the model of car. (Aston martin)

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

HDMI2 SKIP : Skipping HDMI mode when switching modes.

FACTORY RESET : Factory mode reset.

```
Menu of FACTORY
IMAGE    I-DRV REMOTE
PARK     I-DRV CONTROL
UTIL1    IR MEMORY
UTIL2
INFO

MENU to Return     SEL to Select/Save
```

Other options setting up

I-DRV REMOTE : Select 'User' mode to use customized remote control values on DVD, DTV after registration. (Default, User)

I-DRV CONTROL: Select whether to use remote control or not

IR MEMORY : To register DVD, DTV remote control, the remote control value must be registered.

```
Menu of FACTORY
IMAGE    SYSTEM VERSION
PARK
UTIL1    (MAIN-130723)
UTIL2
INFO

MENU to Return     SEL to Select/Save
```

System version information
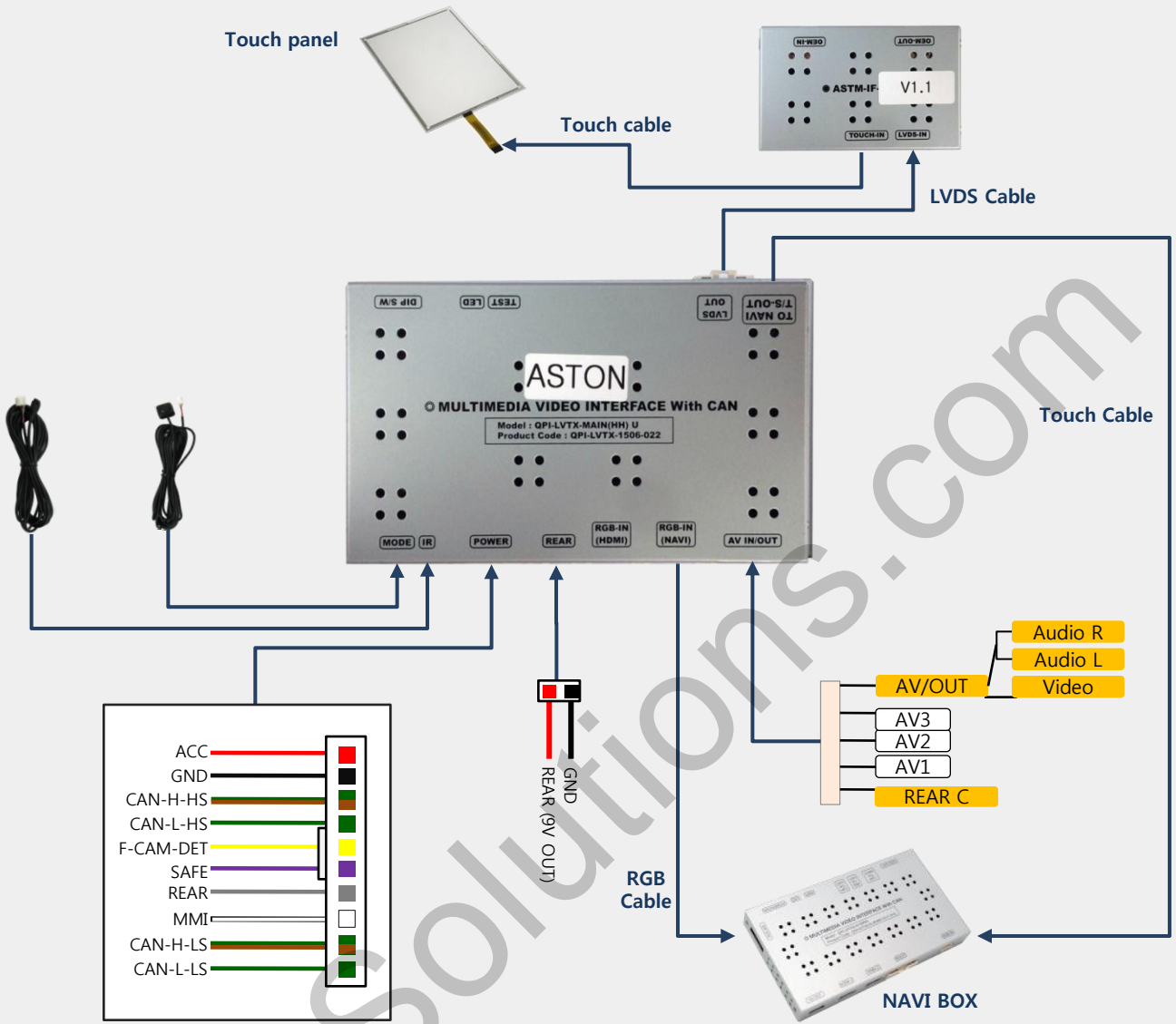
•How to use OEM buttons

※ Able to switch modes via NAV button on the center console of car .
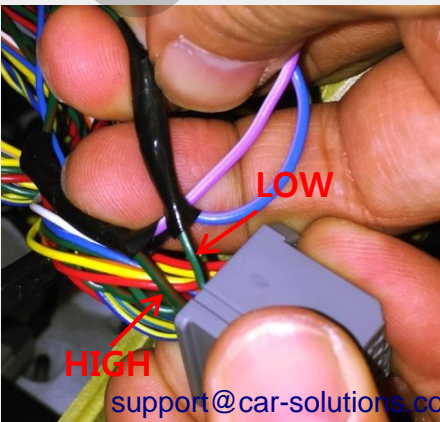
   * Long press : Switching modes.

                    (RGB→HDMI1→A/V→OEM mode)

   * Short press : Switching to OEM mode.

•Installation Diagram

Touch panel

Touch cable

ASTM-IF- V1.1
OEM-IN   OEM-OUT
TOUCH-IN   LVDS-IN

LVDS Cable

ASTON
© MULTIMEDIA VIDEO INTERFACE With CAN
Model : QPI-LVTX-MAIN(HH) U
Product Code : QPI-LVTX-1506-022

DIP S/W   TEST LED   TO NAVI LVDS T/S-OUT OUT

MODE IR   POWER   REAR   RGB-IN (HDMI)   RGB-IN (NAVI)   AV IN/OUT

Touch Cable

Audio R
Audio L
AV/OUT   Video
AV3
AV2
AV1
REAR C

GND
REAR (9V OUT)

RGB
Cable

ACC
GND
CAN-H-HS
CAN-L-HS
F-CAM-DET
SAFE
REAR
MMI
CAN-H-LS
CAN-L-LS

NAVI BOX

•CAN cable connection

LOW

HIGH

※ You can find original cables as the picture left behind of AC conditioner.
  - CAN LOW(Green/Black) → Connect to CAN-H-HS(Green)
  - CAN HIGH(Green/Brown) → Connect to CAN-L-HS(Green/Brown)

※ Color of cable would be different depending on Cars.

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•Connection of Sub-board

※ Take out the connected original cable on the PCB substrate behind the monitor.

※ Connect the original cable from the monitor to "OEM-IN" on the sub-board and then connect the provided cable from "OEM-OUT" on sub-board to the monitor where the original cable connected.

•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. I cannot switch set mode
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. After connect CAN cable, set gear "P", video doesn't appear.
A. Go to "FACTORY MODE" and check "UTIL-Rear Select". Change "LAMP" settings to "CAN" with remote control.
   (※ LAMP: when connecting Rear-C wire of LAMP power cable to Backup lights/ CAN : if controlling rear camera with CAN wire)