

Manual Date : 2017.01.10

Installation Manual

Video Interface for Ford Sync3 System

Model : QPI-LVTX-MAIN SYNC3



• Specification

Compatibility : 2016 Ford Sync3 System
FORD EXPLORER, MUSTANG, F150, KUGA, FOCUS

Components : Interface* 1pcs, Subboard* 1pcs

Interface Input/Output specification

Input : 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: 5WATT

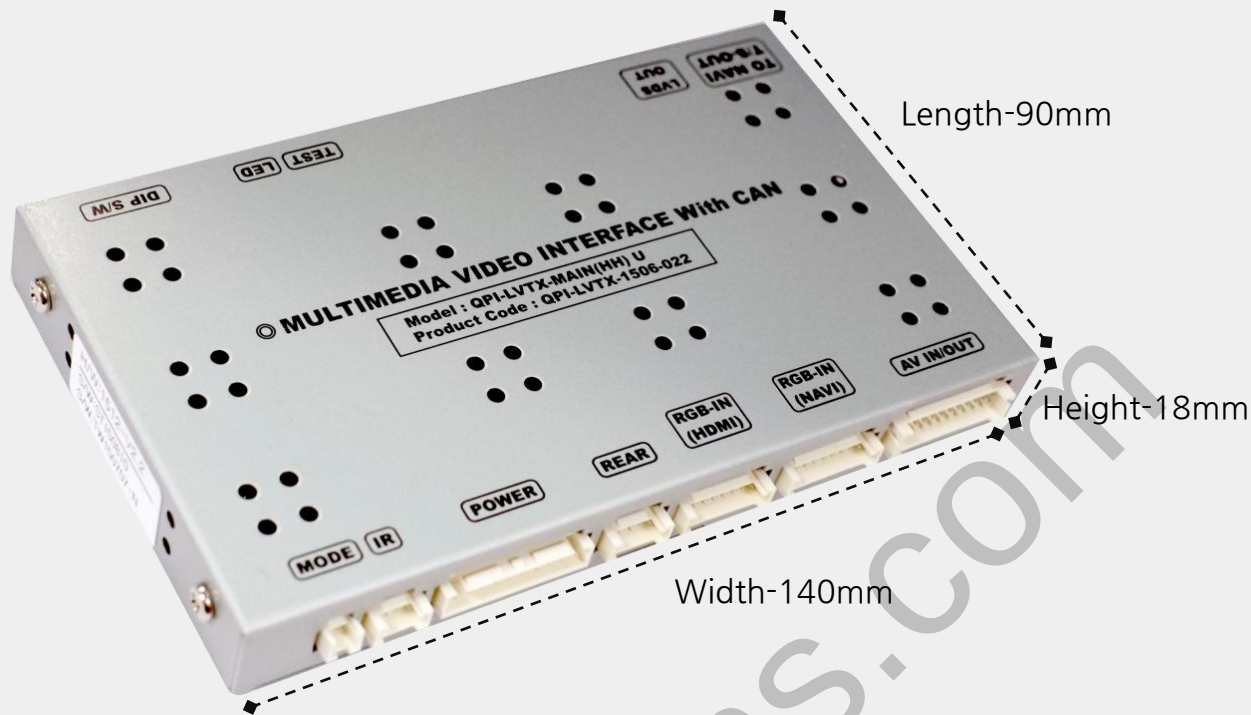
Switch input mode

- External video sources skip function : able to control input videos on and off via DIP switches.
- Able to switch input 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
- Adjust external videos screen position
- Check the improved Screen Display (User Friendly Interface)
- Switch modes via original OEM button (KUGA, FOCUS Only)
- Supply power to rear view camera (Back up camera)
- Offer Dynamic Pas(Parking assistance system), moving parking line based on the steering wheel movement.

• Product exterior



MODE(Button cable) | IR(IR cable) | POWER(Power cable) | REAR(rear cable) |
RGB-IN-HDMI(Mirroring connection) | RGB-IN-NAVI(RGB Navigation) |
AV IN/OUT(AV cable) | TO NAVI T/S OUT(NAVI touch cable) | LVDS-OUT(Subboard)
TEST(No use) | LED | DIP S/W(Dip switch setting)

• Components



DIP SWITCH



※ ON : DOWN / OFF : UP

PIN	Function	Dip S/W
1	RGB mode	OFF : Display RGB(Navi) Mode ON : Skip RGB(Navi) Mode
2	AV1 mode	OFF : Display AV1 Mode ON : Skip AV1 Mode
3	AV2 mode	OFF : Display A/V2 Mode ON : Skip A/V2 Mode
4	AV3 mode	OFF : Display A/V3 Mode ON : Skip A/V3 Mode
5, 6	No use(OFF)	
7	Rear Camera	OFF : OEM Rear camera ON : Aftermarket rear camera
8	No use(OFF)	

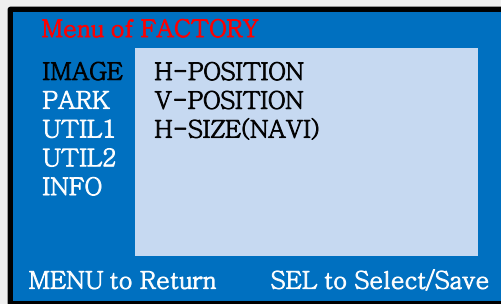
※ Please make sure to disconnect and reconnect the power cable after changing the dip switch setting. Otherwise, new dip switch setting will not be applied.

Remote Control



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

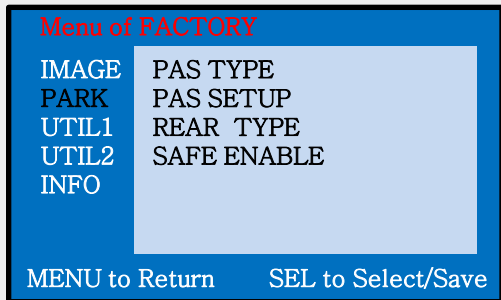


Adjust the position and size of image

H-POSITION : Move the image horizontally

V-POSITION : Move the image vertically.

H-SIZE(NAVI) : Adjust the size of navigation image horizontally



Setting for rear camera

PAS TYPE : Parking guideline setting

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

PAS SETUP : adjusting the position of the parking guideline



<H-POSITION>



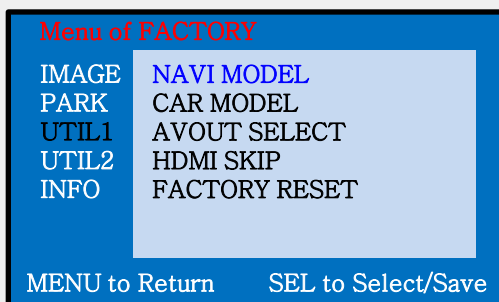
<V-POSITION>

REAR TYPE : Choose rear camera recognition

- * LAMP - Detecting the rear view camera via rear lamp (Installer must connect "Rear-C" cable of the power cable to the rear lamp of the car.)
- * CAN - Detecting the rear view camera by CAN signal (Installer must connect "CAN" cable of the power cable to the "CAN" cable of the car.)

SAFE ENABLE : Able/unable to display the image of HDMI, RGB, AV modes while driving(Default: Off)

• Factory Setting



Select Navigation&Car model.

NAVI MODEL : Select RGB Navigation model

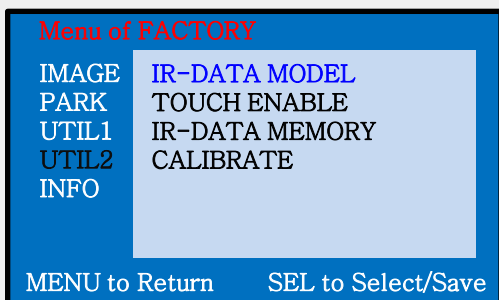
CAR MODEL : Select car models.

- SYNC3 : F150, EXPLORER, MUSTANG
- SYNC3 TYPE2 : KUGA, FOCUS

AVOUT SELECT : Select Aux sound among av modes

HDMI SKIP : Able to skip HDMI mode

FACTORY RESET : FACTORY FACTORY mode reset



Setting for other options.

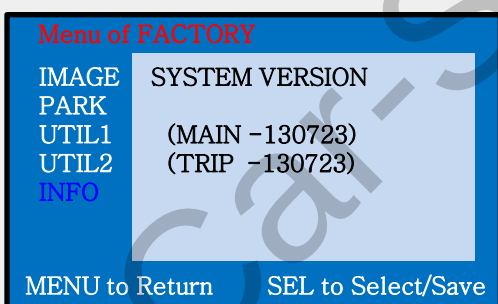
IR DATA MODEL : Resister IR Memory of DVD, DTV (Default, User)

TOUCH ENABLE : Activate/Deactivate UI remote touch

IR DATA MEMORY : Enter Remote values of DTV, DVD

CALIBRATE : Activate Touch calibration

✗ Refer to IR manual for IR settings



Able to check the version of product

• OEM buttons

※ Able to change modes via OEM buttons

(KUGA, FOCUS are only supported - CAR MODEL-SYNC3 TYPE2)



※ SOUND button

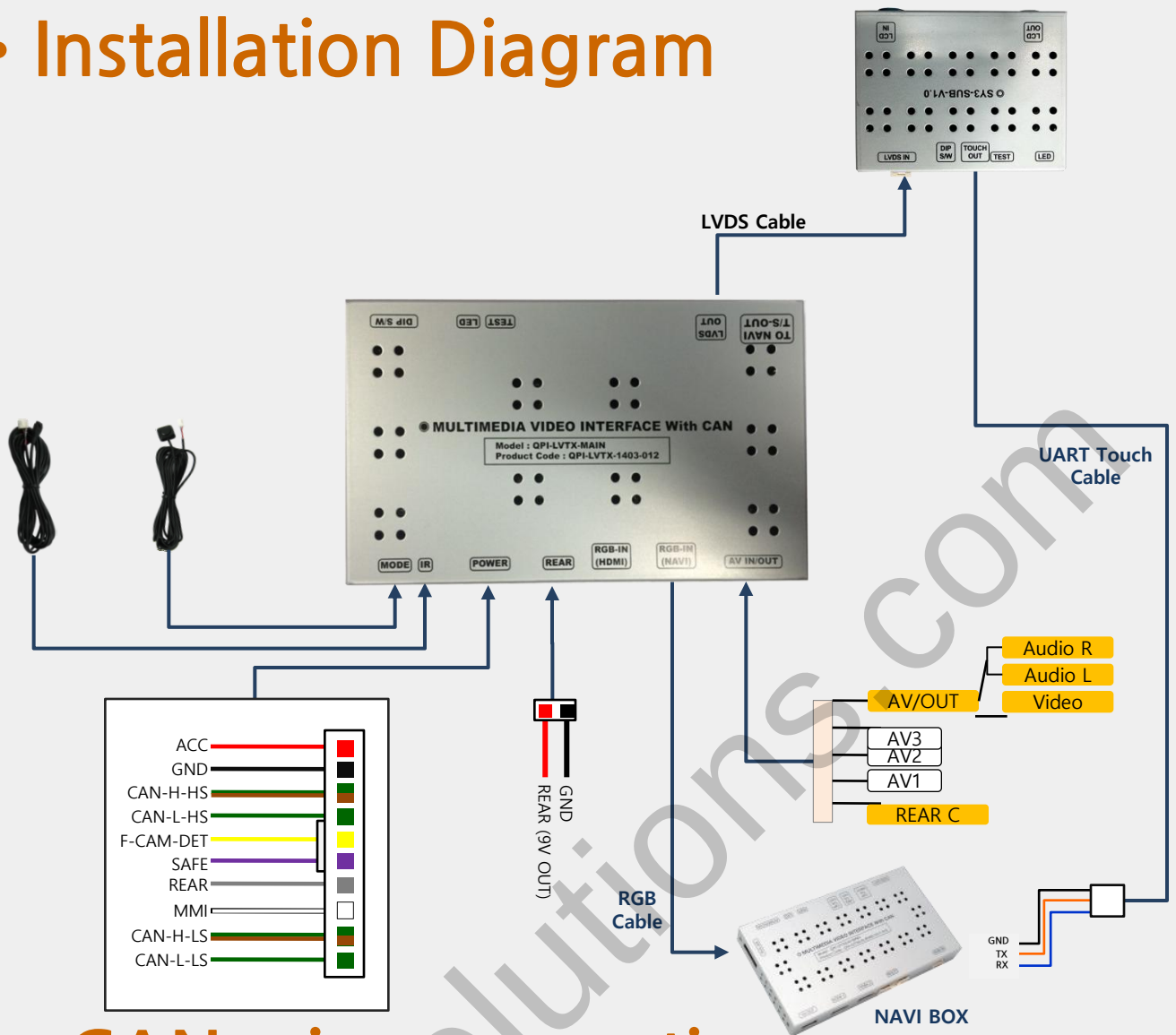
Long press- Mode switch

Short press - Return to OEM mode

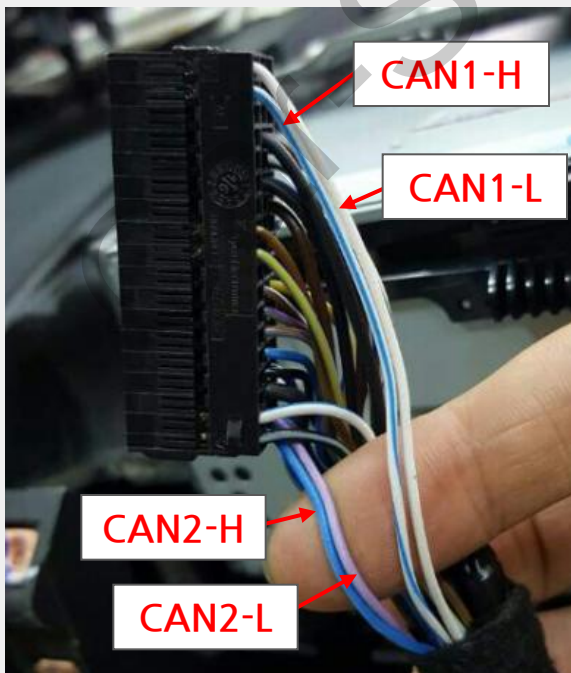
※ Short press while rear camera mode

Aftermarket rear camera ↔ OEM rear camera

• Installation Diagram



• CAN wire connection



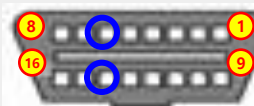
- ※ Find OEM cable connector (picture included on the left) behind the monitor
- ※ Choose CAR MODEL as **"SYNC3 TYPE2"**
- CAN1 : Gear data, PAS data
- CAN2 : Monitor button data
- Connect OEM CAN1-H (Blue + White) wire to supplied CAN-H-HS (Brown + Green) wire
- Connect OEM CAN1-L (White) wire to supplied CAN-L-HS (Green) wire
- Connect OEM CAN2-H (Blue + Grey) wire to supplied CAN-H-LS (Brown + Green) wire
- Connect OEM CAN2-L (Purple + Grey) wire to supplied CAN-L-LS (Green) wire

※ EXPLORER, MUSTANG, F150

Find OBD and connect the supplied power cable to OBD
Do not connect OEM cable connector behind the monitor to the supplied power cable

(Monitor buttons are not supported)

※ Choose CAR MODEL as **"SYNC3"**



- Connect OBD pin 6 (CAN-H) to supplied CAN-H-HS (Brown + Green) wire
- Connect OBD pin 14 (CAN-L) to supplied CAN-L-HS (Green) wire

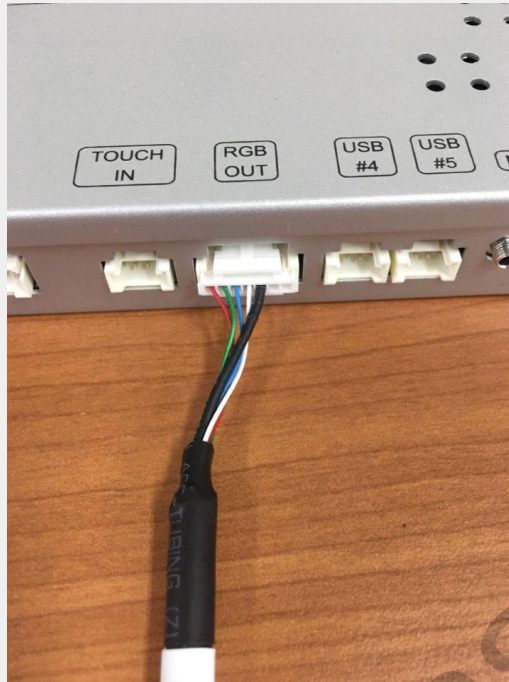
• LCD IN/OUT connection



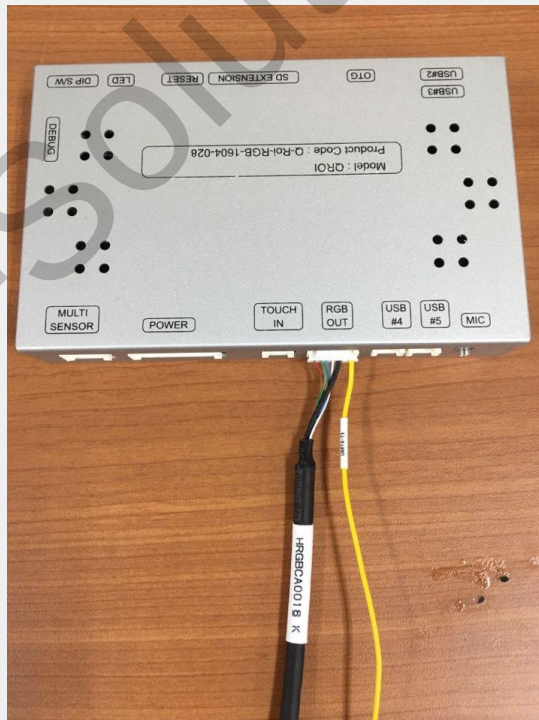
Remove OEM LCD cable on the left side



- Connect to Q-ROI RGB



QROI-RGB and
rgb out cable connection



Insert UART4-TX of HTOUCH0031 from Sync3
To last pin of RGB-Out cable from QROI-RGB