

Installation Manual

HDMI Interface for New Land Rover



•Specification

Car Compatibility :

8" monitor

RANGE ROVER JEEP, DISCOVERY SPORTS, JAGUAR F_PACE

10" monitor

RANGE ROVER EVOQUE, RANGE ROVER SPORT

DISCOVERY, JAGUAR XJ

Components : Interface* 1ea

Multimedia interface Input/output spec

Input : HDMI*1, 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
- The improved Screen Display (User Friendly Interface)
- Switch modes via original OEM button
- Supply power for 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



•Components



POWER * 1ea
(HPOWER0190)



AV * 1ea
(HAVCAB0056)



RGB * 1ea
(HRGBCA0013)



MULTI * 1ea
(HARETC0240)



LCD * 1ea
(HLCDCA0049)



BUTTON * 1ea
(HARETC0001)



IR * 1ea
(HIRCAB0002)



REAR * 1ea
(HIRCAB0002)

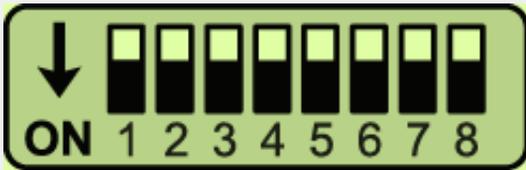


Remote * 1ea
(REMOTE0001)

support@car-solutions.com

car-solutions.com

DIP SWITCH



※ ON : DOWN / OFF : UP

| PIN | FUNCTION | Dip S/W |
|-----|-----------------------------------|--|
| 1 | RGB MODE | OFF : DISPLAY RGB ON : SKIP RGB |
| 2 | HDMI MODE | OFF : DISPLAY HDMI ON : SKIP HDMI |
| 3 | AV1 MODE | OFF : DISPLAY AV1 ON : SKIP AV1 |
| 4 | AV2 MODE | OFF : DISPLAY AV2 ON : SKIP AV2 |
| 5 | Refer to dip switch setting below | |
| 6 | NO USE(OFF) | |
| 7 | REAR CAMERA MODE | OFF : OEM REAR CAMERA ON : EXTERNAL REAR CAMERA |
| 8 | Refer to dip switch setting below | |

| Settings Car Model | MONITOR | | CAR MODEL | | | | DIP SW | |
|-----------------------|---------|-----|-----------|-------|--------|-----------|--------|--------|
| | 8" | 10" | TYPE1 | TYPE2 | Evoque | Jaguar XE | DIP #5 | DIP #8 |
| RANGE ROVER JEEP | ● | | not used | | | | ON | ON |
| RANGE ROVER EVOQUE | | ● | | | ● | | OFF | OFF |
| RANGE ROVER SPORT | | ● | | ● | | | OFF | OFF |
| DISCOVERY | | ● | | ● | | | OFF | OFF |
| DISCOVERY SPORTS | ● | | ● | | | | ON | OFF |
| JAGUAR XJ | | ● | ● | | | | OFF | OFF |
| JAGUAR XE | | ● | | | | ● | OFF | OFF |
| JAGUAR F_PACE | ● | | | ● | | | ON | OFF |

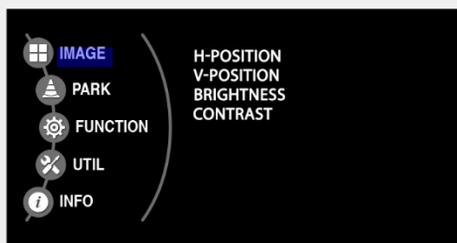
※ Please make sure to disconnect the power cable of the interface and reconnect the power cable again to apply the dip switch setting whenever changing DIP switch. Otherwise, DIP switch setting will not be applied.

• REMOTE CONTROL SETTING



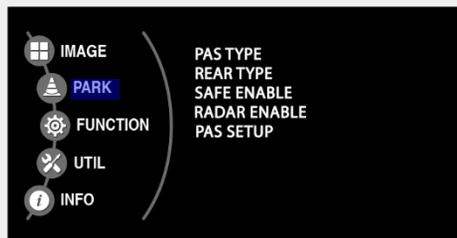
| Key | FUNCTION |
|-------------|---|
| POWER & PIP | NO USE |
| MENU | Activate Factory menu |
| OK | Selection, changing image display |
| ▲ | Up |
| ▼ | Down |
| ◀ | Left(Access the factory mode if the button is pressed for 2 seconds) |
| ▶ | Right (Activate factory reset if the button is pressed for 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

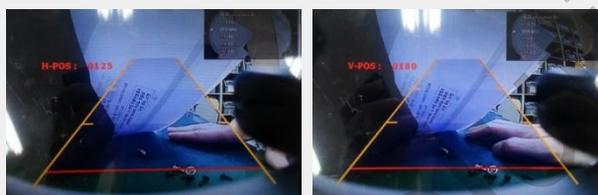


Adjust rear view camera setting.

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

PAS SETUP : Adjusting the position of the parking guide line



<H-POSITION>

<V-POSITION>

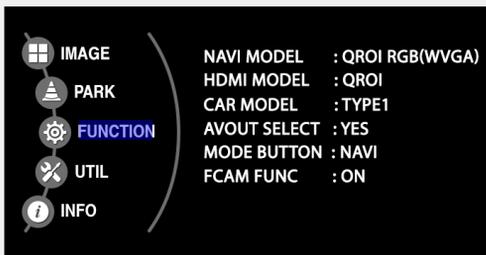
REAR TYPE : Choose rear camera recognition.

- 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



Navigation & Car model setting up

NAVI MODEL : Setting for RGB navigation (Default, Q-roi RGB, WP9230, HDMI(WVGA))

HDMI MODEL : Setting for HDMI navigation (Q-roi RGB, WP9320, HDMI, PAPAGO)

CAR MODEL : Selection for car model (TYPE1, TYPE2)

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

MODE BUTTON : Selecting mode button (NAVI, HOME)

※ Only 8 inch monitor is supported

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

Other options

CALIBRATE : Able to calibrate touch screen

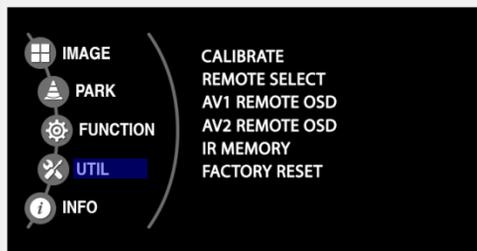
REMOTE SELECT : Able to use remote control on DVD, DTV by selecting “User” after IR memory is registered. (Default, User)

AV1 REMOTE OSD : AV1 multimedia OSD setting

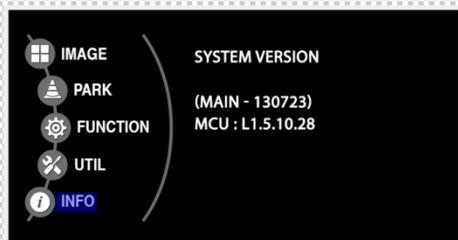
AV2 REMOTE OSD : AV2 multimedia OSD setting

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

FACTORY RESET : FACTORY mode reset



System version information



•OEM button(8inch)



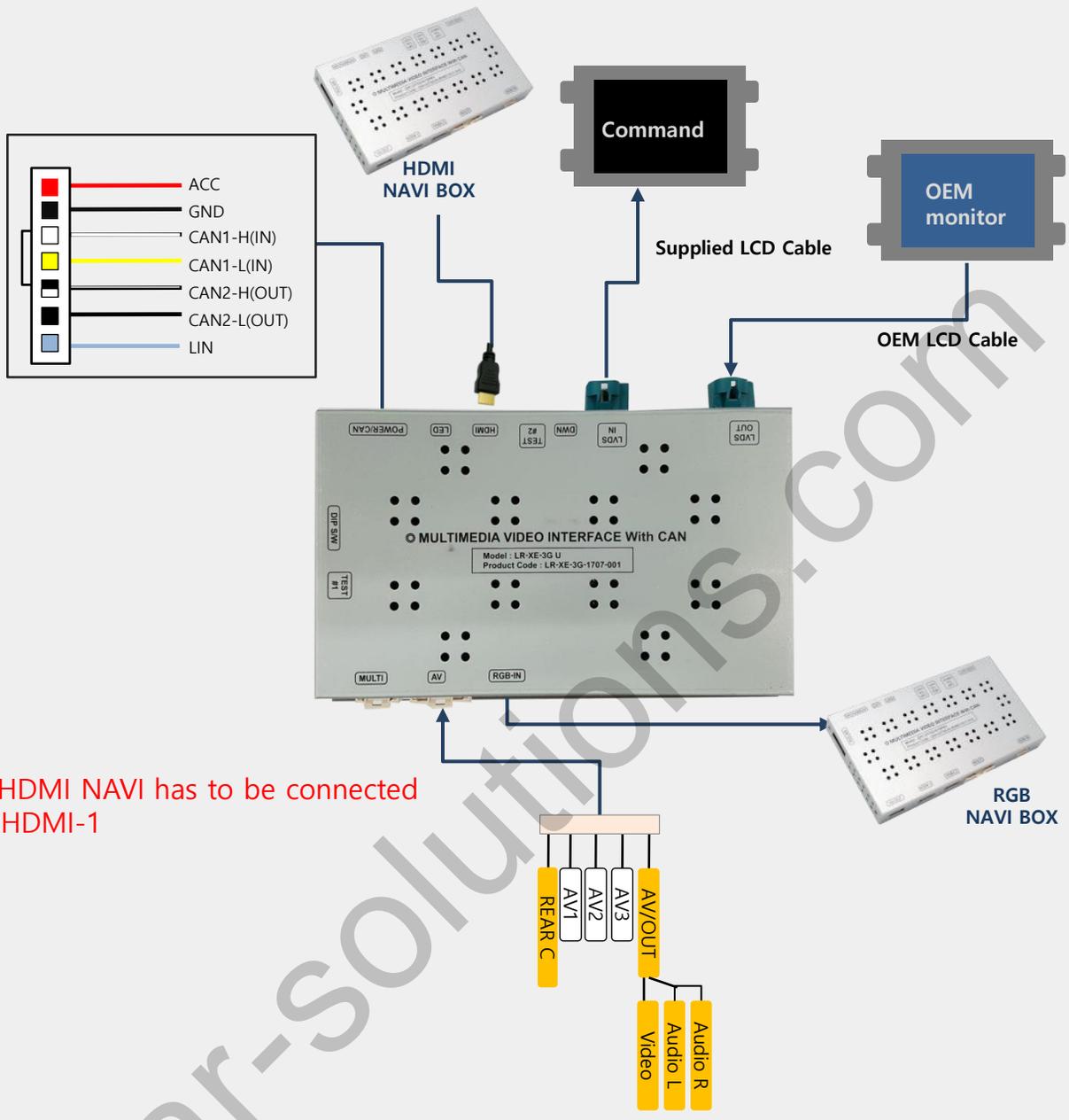
- ※ Able to switch modes via HOME or NAV button of car monitor
- ※ Set up the "mode button" setting on the factory mode

•OEM button(10.2inch)



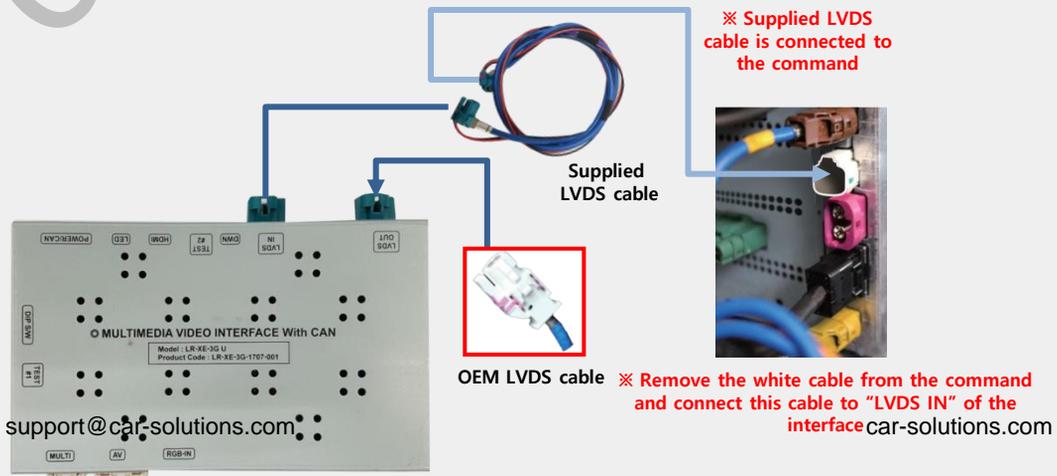
- ※ Press the voice button long on the steering wheel to change the mode

• Installation Diagram



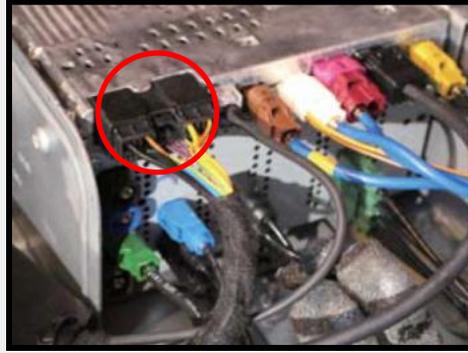
※ HDMI NAVI has to be connected to HDMI-1

• LCD cable (8inch, 10inch)



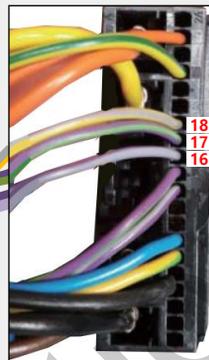
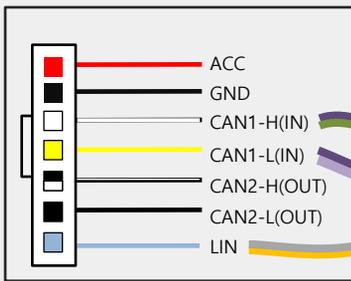
•CAN Connection(10.2inch)

- ※ Headunit location
- JAGUAR : Trunk inside
- LAND ROVER : Below the passenger's seat



Find the square connector from the back side of the command

Power cable



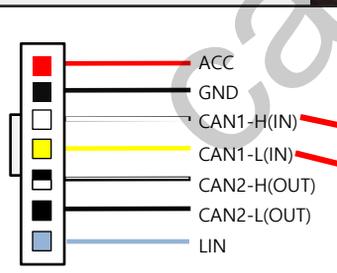
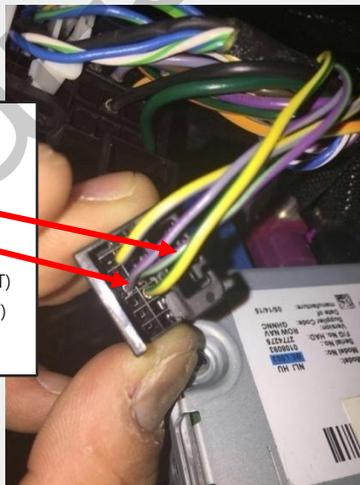
Cut and wire cables as shown on the left

| OEM cable | Supplied power cable |
|----------------------------------|----------------------|
| No 16 pin Purple+Light Purple | CAN1-L(IN) |
| No 17pin Green+Purple | CAN1-H(IN) |
| No 18pin Yellow+Grey | LIN |

•CAN connection(8inch)

<OEM SINGLE CAN>

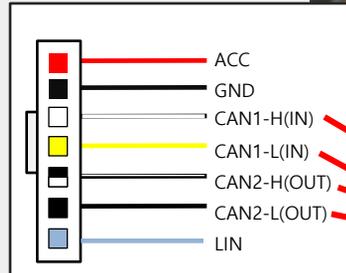
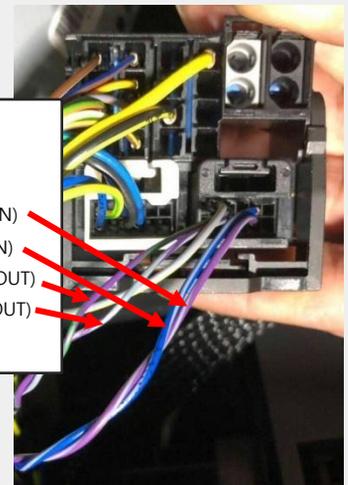
Supplied Power cable



CAN1-H(IN) → Green+Purple
CAN1-L(IN) → Grey+Purple

<OEM DUAL CAN>

Supplied Power cable



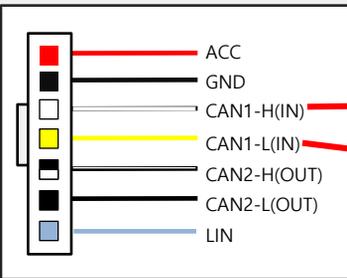
CAN1-H(IN) → Purple+Grey
CAN1-L(IN) → Blue+Grey
CAN2-H(OUT) → Green+Purple
CAN2-L(OUT) → Grey+Purple

•CAN connection(8inch)

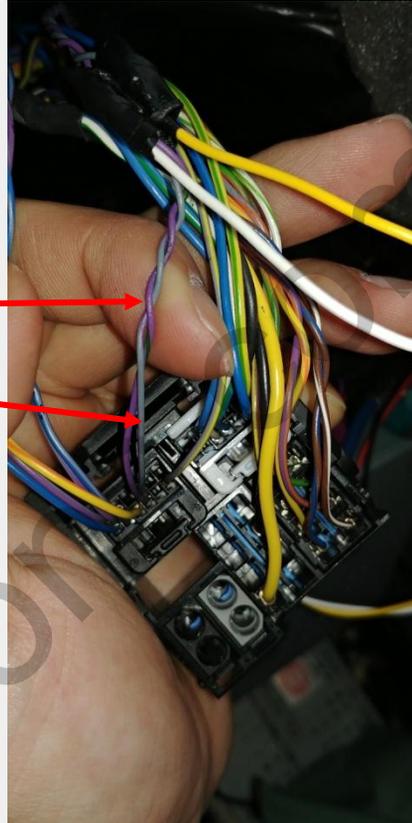
Discovery Sports

<Gear CAN>

Supplied Power cable

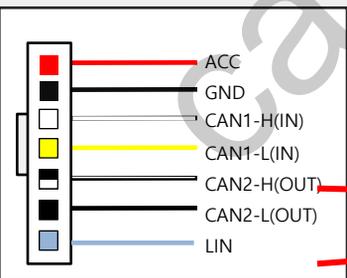


CAN1-H(IN) → Green+Purple
CAN1-L(IN) → Grey+Purple

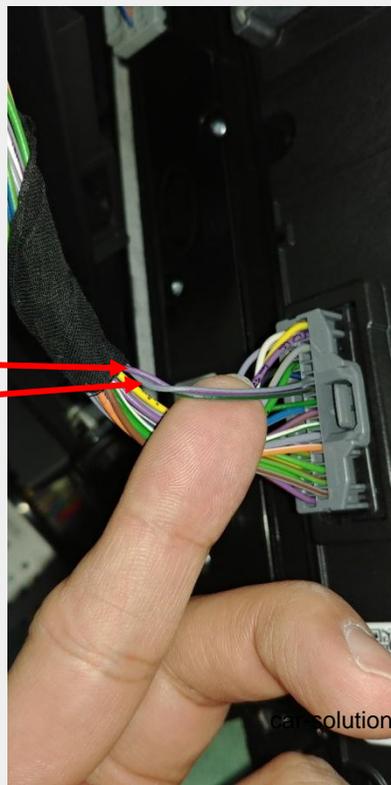


<BUTTON CAN>

Supplied Power cable



CAN2-H(OUT) → Green+Purple
CAN2-L(OUT) → Grey+Purple



•Q-ROI RGB -Uart Touch



Connect a wire to the first pin on the right
It's Q-ROI RGB Uart wire.



Another side of the wire shall
be connected to "IR-NAVI"
from RGB cable of the
interface

• 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)