

FN-Lexus2014 Installation Manual_v20141010

[Product type: FN- Lexus2014-PDC]

This interface can insert high definition RGB navigation video, AV and reverse camera video onto lexus car screens. It has excellent compatibility and versatility and fits all lexus screens since 2009 till 2014 which has light blue connector to take video signals. It has the built-in GPS module which drastically reduces the installation work.

The features of this interface are:

- This interface fits all lexus/Toyota screens with blue video connector[lexus from 2009 till 2014 ES model],all though they have different timing and resolution and sometimes totally different protocol. This interface is an upgrade version from Fosp's 3year old and well-sold interface, to support the newest lexus ES series.
- The specific lexus-2014 can box makes this interface has automatic reverse function, and parking guideline display.
- Internal navigation module makes the installation simple and easy. Digital navigation module makes the picture very clearly displayed on OEM screen.
- The internal navigation module has MP5 function, the newest CPU with DSP inside is ultra fast compared with any other competitor so far, it sends stereo sound out on the 3.5mm AUX jack, the independent sound processing makes media sound and navi sound output together while Navigation has talk-over dunction.
- The internal navigation module can also be changed to: Android module
This module has the same size, and can be directly replaced on the installer's side, he does not need to modify any wires.
- for the IS-series: Fosp also provides a specific plastic front face with touch panel inside, which can be used for the operation of navigation.



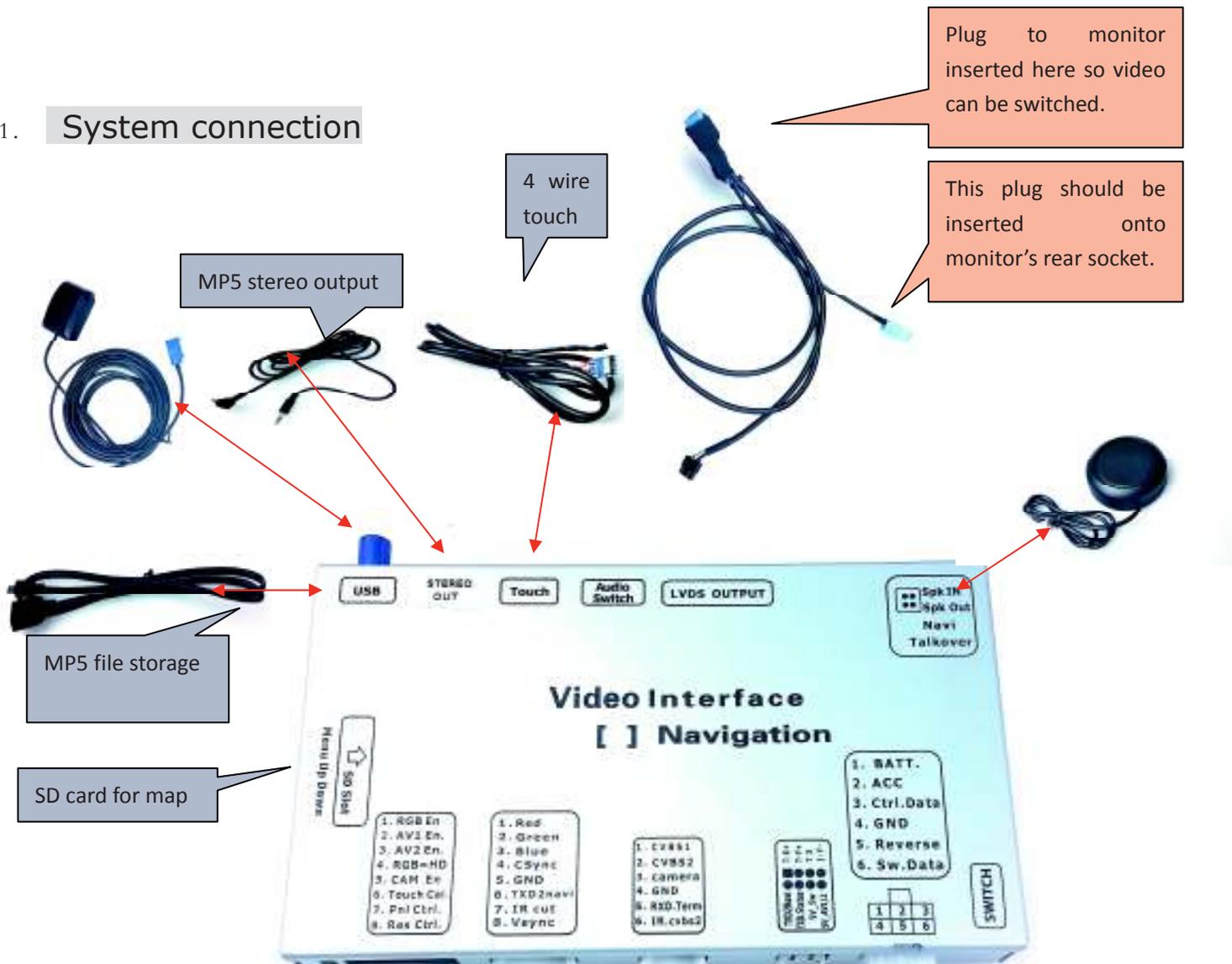
- "Call-OFF" key to switch interface.
- The user can also hold the place on touch screen to switch.

Lexus IS series:
Front face with touch panel to replace the OEM plastic cover, so touch control to navi is offered.

Lexus ES series:
8-inch touch frame can be added, so touch control navi, reverse camera, and guide lines can all be offered.

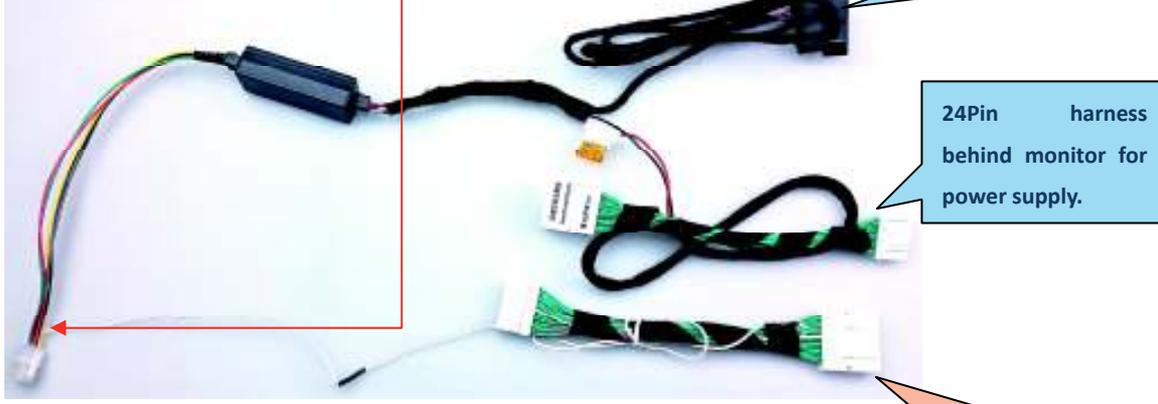


1. System connection



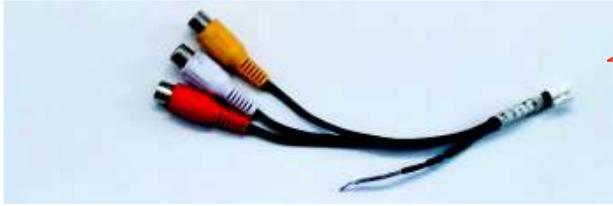
RGB input for FOSP HDMI to RGB converter.

OBD harness for reverse signal, PDC signals.



OBD socket here, fix the connector with type.

28Pin harness should be wired behind CD to get switch voltage.



External CVBS inserted to interface by this jack:

Yellow: AV1's video input.

White: AV2's video input

Red: reverse video input.

Gray: IR output to control DVD/TV in inserted video mode.

The Wire Description of 6p to interface:

[all these signals are generated by CAN box, the installer does not need to modify in normal situations]

Yellow: constant power of 12V。

Black: to GND。

Red: ACC (key power): When screen is on the line voltage is 12V and when it is off the line voltage is 0V.

Green: Reverse signal wire [=12V when in reverse] or 1A, with auto switch for reverse. It can also be connected to the reverse light to trigger reverse video.

White: switch signal wire, when the call-off key pressed, the interface switches.

Gray: CAN box dedicated data signal to the interface box. This wire carries PDC values from the can box to interface box.

2. DIP settings:

This interface can insert video onto all GVIF car screens today in market, it is an upgrade version from the previous stable and successful fosp GVIF interface. The DIP6,7,8 should be handled carefully to get this versatility.

Wrong DIP settings will not damage anything including interface and car OEM components.

If DIP6/7 is set wrong, white/Black screen may be seen. DIP8 set wrong will also lead to black screen or multiple pictures on the same screen. The installer just try DIP678 to be correct position, he does not need to repower the interface.

DIP	=ON side (DOWN)	=OFF side (UP)
1	RGB Enabled	RGB disabled
2,	AV1 enabled	AV1 disabled
3	AV2 enabled	AV2 disabled
4	RGB=High definition RGB The recommended definition for this interface: 800X480]	RGB input=1080p input with separate H.V sync. This mode is suggested when FOSP's HDMI dongle is connected, this conversion cable can be further connected to HDMI mirror dongle or MHL to HDMI conversion cable.
5	Reverse signal (green wire=12V) switch to CAM video	Reverse signal (green wire=12V) switch to OEM video
6	DIP 678 are used for LCD type selection. DIP6: says the monitor is 2014 model, or previous models. DIP7: Says the protocol. DIP8: says the resolution of the LCD, up=800X480, down=480X240.	DIP7 should be changed if black/white screen is seen.

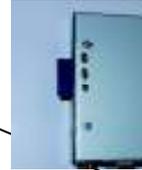
7,8

DIP678 up: 2014 version ES/IS with high resolution.

DIP67 up but DIP8 down: 2014 version ES/IS with low resolution.

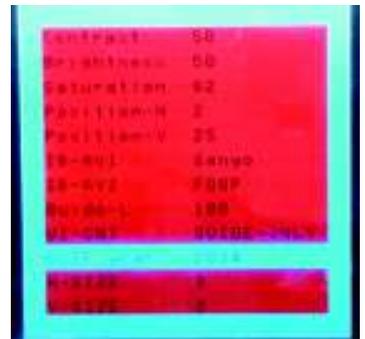
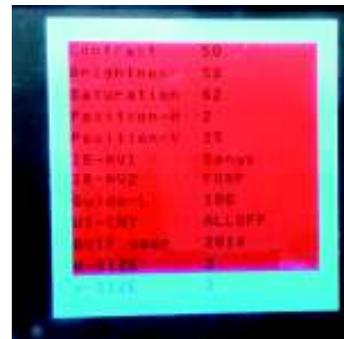
4. the 3 side key buttons

The input box has 3 side keys, the installer may use it to tune the picture display, and touch function for the connected DVD or other devices. The 3 keys are : menu, +, -. The first 5 options has separate state memory. The modification of one input is different not affecting others.



- The 3 side keys are : menu, +, - respectively. When menu is press, OSD strings will pop up on screen, and the installer may adjust the best video effect. The +/- will change the value.
- The brightness/contrast/saturation tunes the color of the current video input.
- The position H,position V set the image position on screen.
- The DVD/TUNER/NAVI is to set the IR code output to the installed device, so people use original knob or touch screen to control the installed device in AV1/2 mode. Left/right push will pop up the MMI icons, and push will execute the selected icon.
 - When set to "none", the control icons will not pop out
 - When set to "Prog", the installer can use DIP6=Down to program the IR code into the interface, so extra new devices can be controlled.

- The **Guide L** option: set the left guide line's offset on screen, when the value changes, the guide Line location moves horizontally on screen.
- The **UI CNT** option: set the PDC and guide line display on/off on screen.
 - 1.PDC ONLY: only the PDC picture displayed.
 - 2.GUIDE ONLY: Only the guide line displayed.
 - 3.ALLO: both the PDC and guide line displayed.
 - 4.ALLOFF: Bothe the PDC and guide line off.
- The **GVIF-year** : this option is used to toggle the big horizontal image offset on screen.



On some car screens, if the big offset is seen horizontally the installer toggle this option from 2012 to 2014, then the margin would be gone.

