

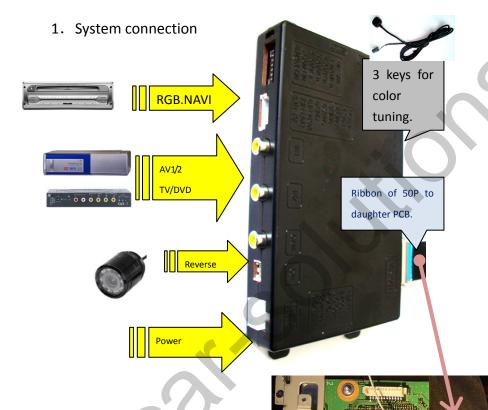
Toyota 8-inch interface installation manual_v120416

[product type: FV-Toyota-8inch]

This interface can insert RGB navigation video, AV and reverse camera video onto Toyota 8-inch car screens. For example: Alphard 2012, and Crown. The features:

- Both NTSC-RGB[400X240] and HD_RGB[800X480] navigation picture can be inserted.
- The OEM touch screen can be used for inserted navigation.
- Totally Digital processing circuit is used, which guarantees the video quality and stability.
- All OEM car information are kept.





Note1:

- The daughter PCB sockect should be wrapped with type after installation,
- 2) the flying wire is for OEM CALL key to switch the interface, it can also be cut off so people use the extra key pad to switch.

The 20P ribbon should be wired to the PCB socket first [below of PCB], then to the right side PCB[Top of PCB]. If people uses the extra keypad to switch, then these 2 connectors can be left away.

The top-8P to the OEM touch panel by a converting PCB socket.

The below 8P to the PCB by a ribbon cable.

The two 50P ribbons :

The top for the LCD,

while the below to the PCB.

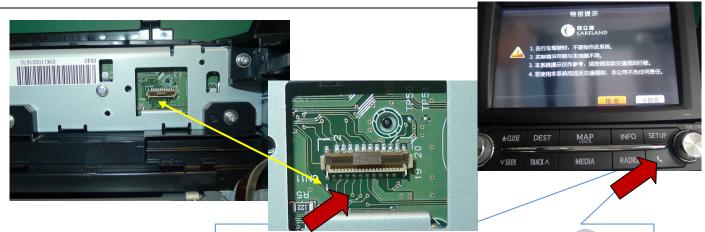
This 4P to the installed navi

此2个螺钉,要换为配件的螺钉柱,并且采用配件2个红色垫片,用来固定小板。

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1/4

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OEM "Call" key to switch the interface by connecting the flying wire from the daughter board to the left-point of the 3-points-in-1-row. Like the picture shows.

The signal definition of 6P on interface:

Yellow: constant power of 12V。 **black:** GND of chassis。 **RED[ACC]:** when the monitor works, this wire=12V, otherwise=0V。

Both Yellow and RED wires can be connected together to ACC of the car to make the interface work.

Green: reverse signal wire[=12V when in reverse].

White wire: switch signal wire, when =12V or 5V, this interface switches.

Gray wire: CAN bus control data to interface, it is used to pop up the control icons. Leave it free when installing.

DIP switch setting:

DIP	=ON [DIP=Down side.]	=OFF
1	RGB enabled	RGB disabled.
2,	AV1 for DVD enabled	AV1 disabled
3	AV2 for Tuner or extra video enabled	AV2disabled
4	RGB=HD	RGB=Normal NTSC
	This car LCD only suggests this format.	
5	This is reverse camera trigger wire	go to car video when Green wire= 12V
	go to CAM when Green wire= 12V]	
6	IR programme when once to ON	OFF for normal work.
	Touch calibration when get to ON >5 times.	
7,8	7=UP,8=UP: no function, leave both UP as default.	

2. Interface Settings

- 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 DVD/TUNER/NAVI is to set the IR code output to the installed device, so people use original touch screen to control the installed DVD etc.
- 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 installer can adjust the Position H, Position V values to make the image fit into the center of the screen. The second menu will pop out when the menu is pressed twice.





The programming of IR code:

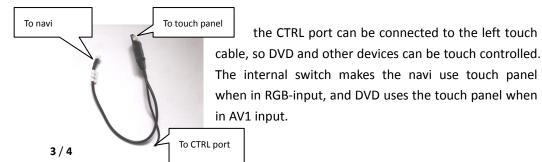
- There are >10 types of DVD, NAVI, and Tuners' IR code are stored inside the interface. The installer just adjusts the options to select to wanted one, then it works. If the wanted type is not there, he may set the option to be "Prog" in the menu.
- When programming, switch the input to AV1, and set DIP6 down once, then the control icons will be shown, and one of the them will be blinking. Point the IR remote controller to the IR port of interface, the blinking icon will be moved to the next one. Which means one code is programmed. Repeat this step until all icons are programmed.
- > The programming of AV2 is the same as above.

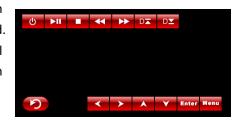
3. CTRL port

There is a 8-pin extra CTRL port on the interface, which the installer uses for touch panel switch, so installed navi uses the oem touch panel for control.

For experienced users, this port may be used to get extra functions.

One dedicated daughter board can be used, so people just touch the screen, the installed devices can be controlled by the icons, because the interface can generate IR code based on touch screen operations.





Ctrl port signal definitions:

Pin 1,2	+5V output voltage for sound-switch-relay, when AV1 is selected=5V, 0V when AV2 selected. Max 3A.	
3:	Constant +5V	Max .2A
4, 8	Ground	
5:	Dedicated control bus for camera.	Should not be connected to GND, otherwise CPU will halt.
6:		
7	+5V output when in interface mode, 0V when in Car mode.	

Note2:

There is a gray wire between the can box and interface box, which is used to deliver control data, so that multimedia icons will pop out and be executed. This wire can also deliver terminal-mode control data. So a 3rd party computer can control this interface.[terminal mode like: to directly go to RGB input, to AV1 input, AV2 input, reverse camera input], to get the full implementation of fosp interface terminal mode operations, please contact fosp sales people.

4. Parameters

No.	name	parameter
1	RGB video amplitude	0.7Vpp with 75 ohm impedance
		NTSC resolution [400X240,480X240], and HD resolution[800X480]
		of navigation are allowed.
2	sync amplitude in RGB-navi port	3~5Vpp with 5K ohm impedance
		Sync should be NTSC composite with negative polarity.
3	Av1,Av2, cam video amplitude	0.7Vpp with 75 ohm impedance
4	Av1,Av2, cam standard	NTSC/PAL/SECAM automatic switch
5		
6	Normal work Power consumption	2.4W [0.2A @12V]
7	Standby current	< 5mA
8	Standby start	10 seconds after the users switch off the CD unit.
9	Reverse trigger threshold	>5V trigger
10	Work temperature	-40 ~ +85C
11	dimensions	15.6 X 9.2 X 2.2 Cm

Toyota's other car screens:

Fosp's FV-camery is suitable for Camery and Hilux cars. They are not using 8-inch screens.





For Lexus, please contact fosp for the

GVIF interface, since it uses separate screen and head unit.