

Toyota Tundra Entune 2 Video Interface Manual

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1. Main specifications

1. Input Spec. (MULTI VIDEO INTERFACE)

- 1 x Analog RGB Input (Navigation System source)
- 1 x Digital RGB Input (Navigation System source)
- 2 x A/V Input (External video source)
- 1 x CVBS (REAR CAMERA) Input. (Rear camera source)
- 1 x CVBS (FRONT CAMERA) Input. (Front camera source)

2. Output spec.

2 x CVBS Output (Video out for Installing Headrest Monitor)

- 1 x Audio L/R Output.
- 1 x Virtual Analog Touch (Navigation System source)
- 1 x UART Digital Touch (Navigation System source)
- 1 x LCD Output (LCD Operation)

3. Power Spec.

- Input Power: 8VDC ~ 24VDC
- Consumption Power: 12Watt, Max

4. Switch Input mode

- OEM button on steering wheel
- The provided Mode switch

2. Features

- Possible to register IR code of DVD/DTV
- Easy installation by Jack by jack
- Possible to control DVD, DTV by OEM touch screen



2. Diagram





3. Components





4. Exterior





1. Dip Switch

* ON: DOWN, OFF: UP NO. Function Selection ON : Skipping NAVI NAVI 1 OFF : Display ON : Skipping AV1 (DVB-T) 2 AV1 (DVB-T) OFF : Display ON : Skipping AV2 (DVD) 3 AV2 (DVD) OFF : Display 4 N.C 5 N.C 6 OFF Car Model 7 OFF

* Example

8



OFF



Settings

2. Original button (Switching Mode)





Settings

3. Touch screen – Touch Calibration





3. Touch screen – DVD, DTV control

times Calibration : Touch any point of screen more than 11sec to start a touch calibration

• DTV - Please contact a supplier in advance for using this function



* To use this function, It is necessary to offer the remote IR code to manufacturer or setting OSD IR - Ctrl (P. 20)



Settings

4. OSD Key board



- MENU :Activating OSD Menu
- ② SEL :Selection
- ③ Up :Moving upward (Increasing value)
- ④ Down :Moving downward (Decreasing value)

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5. OSD Menu

%Press "MENU" button on Key board

MENU	Config NAVI		
Config Option Image Screen Parking	NAVI-RGB DVB-T(DMB) DVD HDMI RearCam	GI5000-WV ELT_DVBT2 ELT_980XU CASTIT AVM	/GA 0 Slim

Config - NAVI-RGB : Setup for the type of RGB Config - DVB-T(DMB) : Setup for the type of DVB-T(DMB) Config - DVD : Setup for the type of DVD Config - HDMI : Setup for the type of HDMI Config - RearCam(AVM) : Setup for the type of Around View Reset : Reset all value



5. OSD Menu

₩Press "MENU" button on Key board

MENU	Option		NAVI
Config	Rear Cam - Type	OEM	Off
Option	Rear Cam - Power	Auto	
Image	Rear Cam - Det	WIRE	
Screen	AV Mode	On C	
Parking	Front Cam - Type	ExtDevice	

Option

- RearCam-Type : Setup for rear camera ExtDevice - External rear camera OEM - Original camera
- RearCam-Power : Setup for Rear VCC wire in power cable ON - +12V out always (current consumption : 200mA) AUTO - +12V out in rear mode only (200mA) OFF - Power OFF
- RearCam-Det : Setup for Rear detection
 - CAN By CAN
 - WIRE By rear cam detect wire
 - OFF Rear detection OFF
- AV Mode : Change "Rear" input as Video input
 - ON Video input (Rearcam TYPE in OSD menu should be "OEM") OFF - Rear input
- FrontCam-Type : Setup for front camera ExtDevice - External rear camera
 - OEM Original camera



5. OSD Menu

XPress "MENU" button on Key board

MENU	Option	NAVI
Config Option Image Screen Parking	Front Cam-Power Front Cam-Det Front Cam-RcvOpt SteeringWheelBtn UI DVB-T(DMB)	Auto ExtWire Off On

Option

- FrontCam-Power : Setup for Front VCC wire in power cable ON - +12V out always (current consumption : 200mA) AUTO - +12V out in rear mode only (200mA) OFF - Power OFF
- FrontCam-Det : Setup for front detection
 GEAR By CAN
 - Extwire by rear cam detect wire
- FrontCam-RcvOpt : Selecting time of displaying Front camera before switching to RGB, DVD, OEM from Rear



· Button : Setting for OEM Home button (Switching Mode) - ON or OFF



5. OSD Menu

₩Press "MENU" button on Key board

MENU	Option		NAVI
Config Option	UI DVB-T(DMB) UI DVD	On On	
Image	ScrChg-Btn	On	
Parking	Reset	Execute	Cancel

Option

- UI DVB-T(DMB) : Setting for DVB-T(DMB) UI ICON ON or OFF
- UI DVD : Setting for DVD UI ICON ON or OFF
- - ON ON
 - OFF OFF
- NAVI COM : Connect touch through UART

※ Necessary to get Uart protocol from NAVI Manufacturer

Reset : Reset all value



Settings

5. OSD Menu

ℜPress "MENU" button on Key board

- NAVI(RGB) Image / Screen

MENU	IN	MAGE	NAVI
Config	Brightness		50
Option	Contrast		50
Image	Color- RED		50
Screen	Color- GREEN		50
Parking	Color- BLUE		25

MENU	Screen		NAVI
Config Option Image Screen Parking	Horizontal Vertical Scale X Up Scale X Down Scale X Up		50 50 50 50 50 50 50

- DVD, DVBT, NAVI-AV, REAR, FRONT Image

MENU		IMAGE	Rear
Config Option Image Screen Parking	Brightness Contrast Saturation Hue Sharpness		50 50 50 50 50 25



Settings

5. OSD Menu

℁Press "MENU" button on Key board

- Parking guide line ON/OFF

MENU	Park	ing	Rear
Config Option Image Screen Parking	Line Display Warning Lang Horizontal Vertical Reset	On English Execute	50 50 Cancel

Selecting a use of packing guide line (OSD Menu – Parking – Line display – ON or OFF)



Parking line "ON"

- Warning Language for rear screen

MENU	Parking		Rear
Config Option Image Screen Parking	Line Display Warning Lang Horizontal Vertical Reset	On English Execute	50 50 Cancel

Check entire surroundings!
请注意车辆周围环境!
차량 주변을 전부 확인
請注意車輛周圍環境!
Следите за всем окружением автомобиля!
周辺の安全を確認

Selecting a type of language (OSD Menu – Parking – Warning Lang)

- Adjust the position of Parking guide line

MENU	Park	ing	Rear
Config Option Image Screen Parking	Line Display Warning Lang Horizontal Vertical Reset	On English Execute	50 50 Cancel

Possible to adjust the position of line by Keypad in Horizontal / Vertical menu * After pressing the "Horizontal" / "Vertical" in OSD menu The OSD screen automatically disappears. In this state, Please adjust the position by Keypad

MENU	SEL	UP	DOWN
•	•	•	•
Left	Right	UP	Down



5. OSD Menu

₩Press "MENU" button on Key board

- OSD

MENU		Horizontal	
OSD IR-Ctrl Utility	Horizontal Vertical Display Transparency Language	English	50 50 10s 30

- OSD Horizontal
- OSD Vertical
- OSD Display : Setting time for displaying OSD menu
- OSD Transparency
- OSD Language : Setting language of ODS menu
- IR Ctrl (p.20)

- Utility

MENU	Horizontal	
OSD	Factory Reset	Execute Cancel
IR-Ctrl	Calibration	Execute Cancel
Utility	Version	TCTH00KRX - 180401

Utility - INTERFACE SOFTWARE



Settings

5. OSD Menu – Register IR code

₩Press "MENU" button on Key board

- IR Ctrl

MENU	DVB	-T(DMB)	DVD
OSD IR-Ctrl Utility	DVB - T DVD	Sel Learn User Sys	Cancel

① Select IR Ctrl \rightarrow DVB/DVD \rightarrow Learn to register IR code

(2)	
MENU	DVB-T(DMB) DVD
OSD IR-Ctrl Utility	ALL - Clear POWER

② All Clear : Remove all value of Remote control registered before Select one of the buttons registering to move on to next step

MENU	DVB-T(DMB) DVD
OSD	New Code :
IR-Ctrl	Cfm Code :
Utility	Save Clr Cancel

③ Press a button on the remote control of DVD/DTV then the IR code will be appeared on "New code" menu. Press the same button one more time to confirm the IR code. (Cfm code = confirm code)

※ Caution

• Delete :

ALL Clear – Delete all value Clr – Delete one button's Value Play/Pause:

To use button, Please register the IR code in power / Pause menu separately



Installation

1. LVDS cable connection





Installation

2. LVDS FPC cable connection



Unscrew and remove the cover



② Disconnect the OEM FPC cable.



③ Connect the provided FFC cable (100, 170mm)



④ Assemble the removed cover and mount the screw



Installation

2. LVDS FPC cable connection



© Connect the provided FFC cable (165mm), then connect the LVDS extension board to the LVDS cable



Caution

FAQ

Cannot switch modes

- Check connection of OSD Key pad wire
- Check CAN connection
- Displays wrong size of picture
- Check Dip s/w settings
- Displays black screen in OEM mode
- Check connection of LVDS/LCD cable
- Cannot switch to rear screen
 Check the packing setting
 (OSD Menu option RearCam-Det)

Caution

- The device must not be installed in where it interferes driving (close to brake pedal, steering wheel, airbag etc.)
- LVDS cable must be connected correctly according to the manual
- Insulate the end of wire by using electrical tape
- The installation should be done by expert
- GU electronic does not take any responsibility for any problems caused by wrong installation