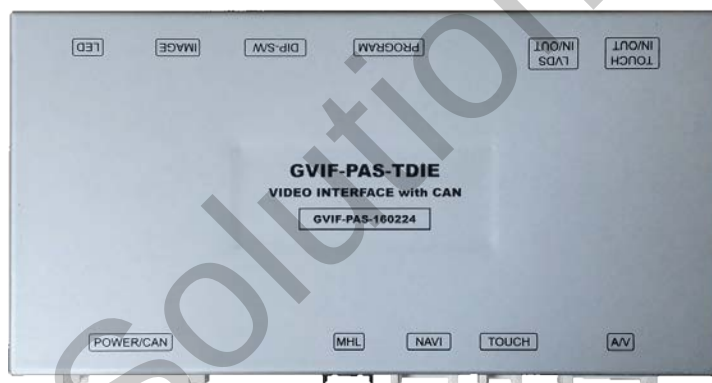


TOYOTA LC200 (VIDEO Interface)



MODEL	GVIF-PAS-160224
DATE	2016.08.05

Main Spec.

1. Input Spec. (MULTI VIDEO INTERFACE)

- 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)
- 1 x Analog RGB Input (Navigation System output)
- 1 x GVIF Input. (Car Command System)

2. Output Spec.

- 2 x CVBS Output (Video out for Installing Headrest Monitor)
- 1 x Audio L/R Output.
- 1 x GVIF Output (LCD Operation)

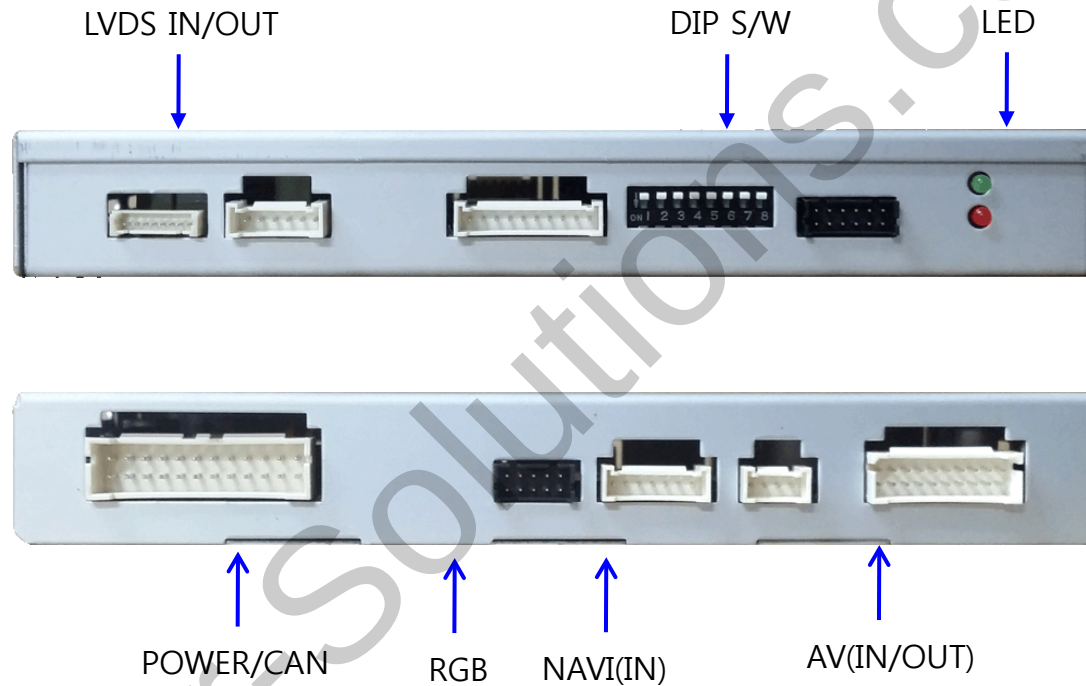
3. Power Spec.

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

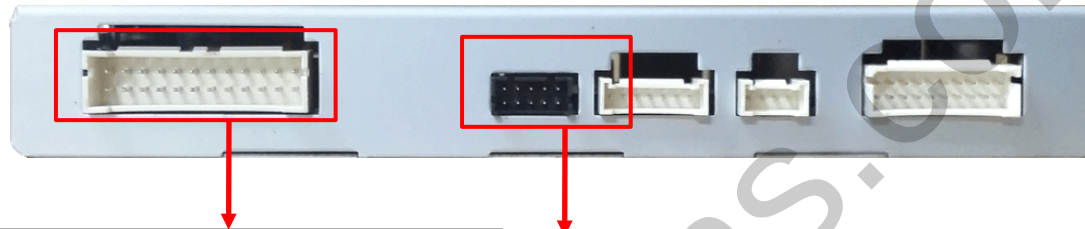
4. Switch Input mode

- Possible to select CAR model while switching mode by DIP S/W
- By button on the Commander in the car via CAN

External Appearance



Connector Pin Assignment



*POWER Connect

1	Yellow	Brown	Green	White	White	White	Red	Red	White	Black	23
2	Yellow	Blue	Orange	Green	White	White	Black	Black	White	Green	24

- | | |
|---------------------|---------------------|
| 1. Battery (Yellow) | 13. NC |
| 2. Battery (Yellow) | 14. GND (Black) |
| 3. REAR-DET (Brown) | 15. REAR-VCC (RED) |
| 4. FRONT-DET (Blue) | 16. GND (Black) |
| 5. CAN-L (Green) | 17. FRONT-VCC (RED) |
| 6. CAN-H (Orange) | 18. GND (Black) |
| 7. NC | 19. TX |
| 8. SI-OUT (Green) | 20. RX |
| 9. NC | 21. GND |
| 10. SI-IN (White) | 22. MODE (Green) |
| 11. NC | 23. GND (Black) |
| 12. NC | 24. GND (Black) |

*NAVI Connect

①	Red	Green	Blue	White	Black	Green	Yellow
①	②	③	④	⑤	⑥	⑦	

- ① R DATA (Red)
- ② G DATA (Green)
- ③ B DATA (Blue)
- ④ SYNC (White)
- ⑤ GND (Black)
- ⑥ DMB IR (Green)
- ⑦ DVD IR (Orange)

Product Composition



Interface 1 EA



Power Cable 1 EA



GVIF IN/OUT Cable 1 EA



OSD Board 1 EA



RGB Navi Cable(7pin) 1 EA



A/V Cable(20pin) 1 EA



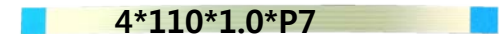
Touch Cable converter (for KD-900) 1 EA



Mode S/W 1 EA



Touch IN/OUT(4pin) 1 EA



Touch FFC Cable(100mm) 1 EA

Product Composition Option



Option : Sub Board 1 EA



Option : RGB Cable 1 EA



Not for sale : HDMI Cable 1 EA

DIP S/W Setting

* ON : DOWN , OFF : UP

PIN	FUNCTION	DIP S/W Selection
1	RGB(=NAVI) MUTE	ON : Skipping RGB Mode OFF : RGB Display
2	AV1(=DVB-T) MUTE	ON : Skipping AV1 OFF : AV1 Display
3	AV2(=DVD) MUTE	ON : Skipping AV2 OFF : AV2 Display
4	RGB(=MHL) MUTE	ON : Skipping MHL Mode OFF : MHL Display
5	CAR TYPE	RIGHT PHOTO
6		
7	Steer Wheel button	ON : Used OFF : Not Used
8	CAR TYPE	RIGHT PHOTO

* DIP S/W Example

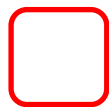


LC200

Mode Change



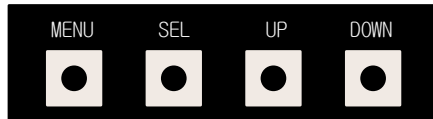
Return OEM Display



mode change(1 second)

OSD(On Screen Display) Control

OSD Control Board



MENU	Push -> OSD menu On/Off
SEL	Item Selection, Value Selection
UP	Item up Increase selected value
DOWN	Item down Decrease selected value

Mode State		
MENU	Config	NAVI
Config	NAVI-RGB	KD900(WVGA)
Option	NAVI-AV	Default
Image	DVD	ELT-980XU Slim
Screen	DVB-T(IMB)	ELT-DVBT20
Parking	BlackBox	Default
First Menu	Second Menu	Third Menu

OSD(On Screen Display) Control

First Menu	Second Menu	Third Menu	Action
Option	RearCam-Type	OEM	Original Camera
		ExtDevice	Use aftermarket Rear camera
	RearCam-Power	ON	Rear camera get +12V consistently
		AUTO	Rear camera get +12V when reverse gear on
		OFF	Shut out the power supply.
	FrontCam-Type	OEM	Original Camera
		ExtDevice	Use aftermarket Front camera
	FrontCam-Power	ON	Front camera get +12V consistently
		AUTO	Front camera get +12V when reverse gear on
		OFF	Shut out the power supply.
	RearCam-RcvOpt	ON	Show Frontcam 25sec after rear mode.
		OFF	Default
	Reset	Excute	Option Menu all Reset

OSD(On Screen Display) Control

NAVI-RGB menu

First Menu	Second Menu	Third Menu	Action
Image	Brightness		Adjust the value of brightness
	Contrast		Adjust the value of contrast
	Color-RED		Adjust the value of RED
	Color-GREEN		Adjust the value of GREEN
	Color-BLUE		Adjust the value of BLUE
	Reset	Excute	Option Menu all Reset

DVD,DVB-T(DMB),NAVI-AV,REAR,FRONT menu

First Menu	Second Menu	Third Menu	Action
Image	Brightness		Adjust the value of brightness
	Contrast		Adjust the value of contrast
	Saturation		Adjust the value of Saturation
	Hue		Adjust the value of Hue
	Sharpness		Adjust the value of Sharpness
	Reset	Excute	Option Menu all Reset



<< Brightness >>



<< Saturation >>



<< Contrast >>

OSD(On Screen Display) Control

OSD Setting - Screen mode

- Horizontal
- Vertical
- Scaler X Up
- Scaler X Down
- Scaler Y Up
- Scaler Y Down

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

OSD(On Screen Display) Control

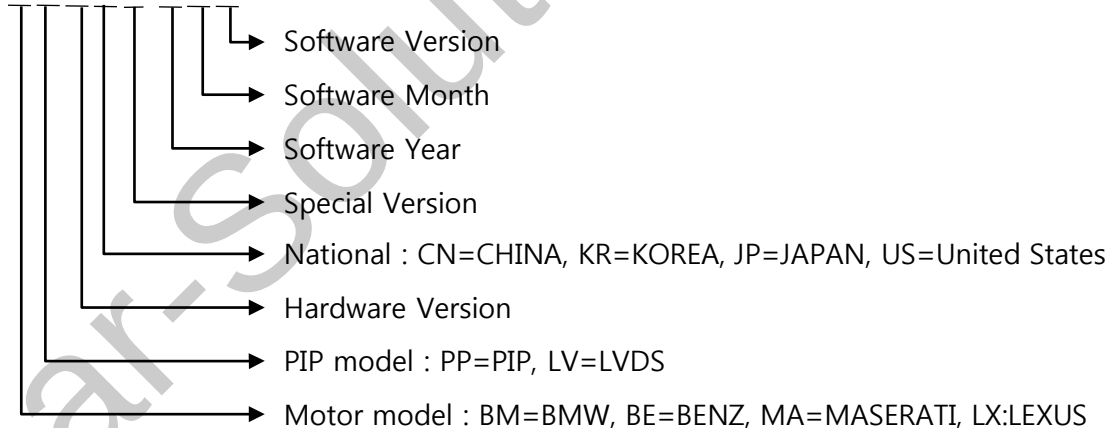
OSD Setting - Utility Mode

MENU	Utility / Factory Reset	REAR
OSD	Factory Reset	Execute Cancel
Utility	Version	BEPP06SGX-130950

- Factory Reset : Execute - Reset All (Setting Default)
- Version : FW Version

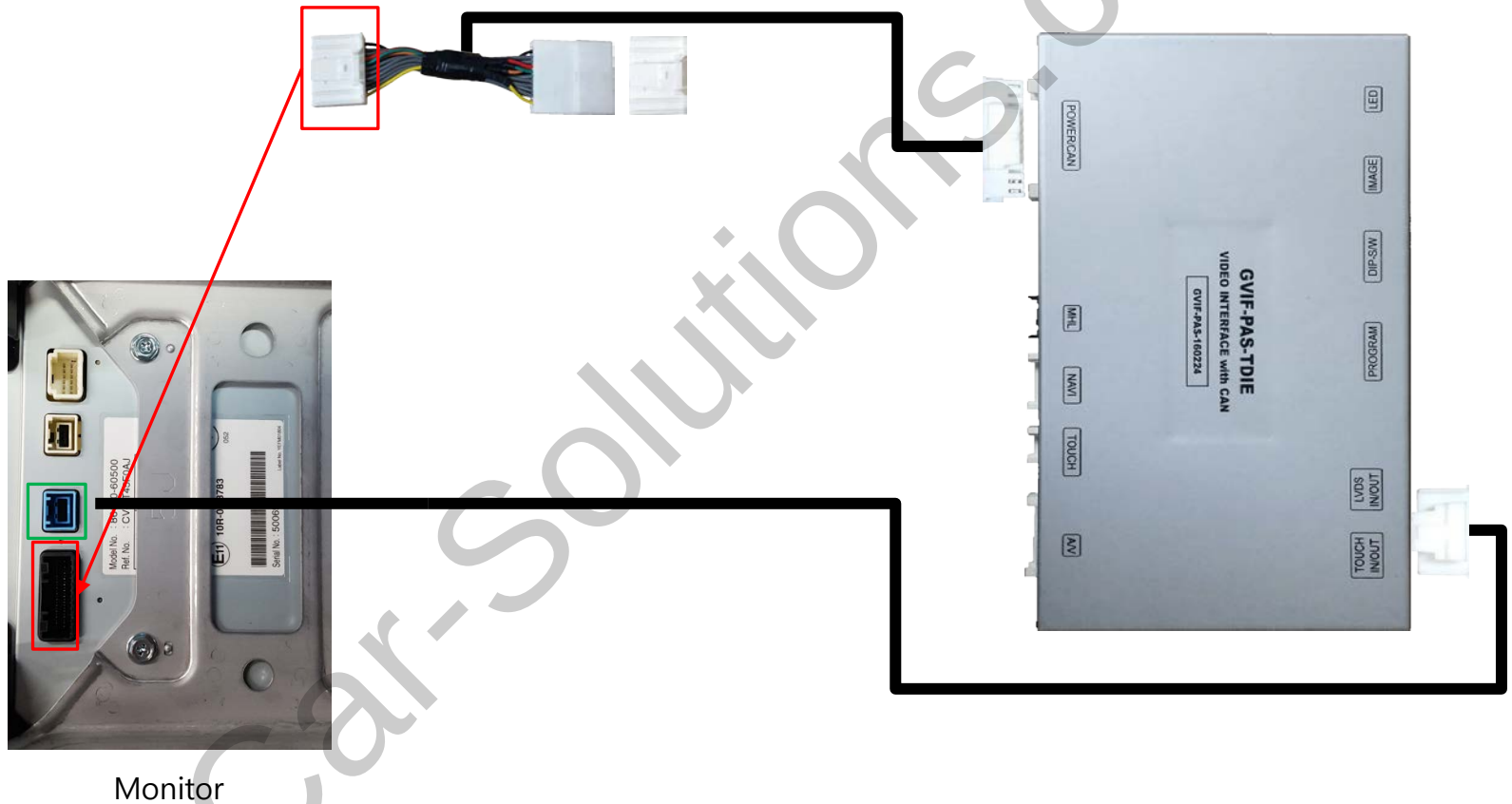
Finish update FW, check the FW version

Last Source : BEPP06SGX-130950



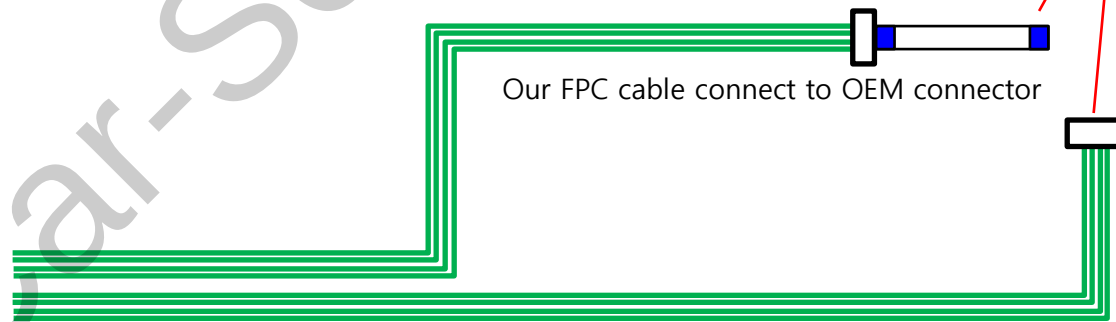
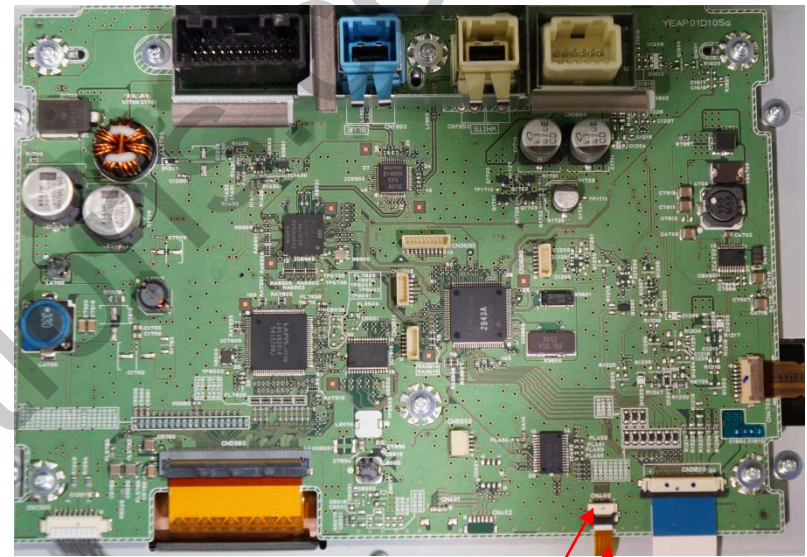
Install Manual

1. Installation Power, LVDS Connection



Install Manual

2. Installation Touch Connection



Q & A



1. If Interface has a problem, Please check LED.

- ACC on (12v), If Interface does not have a problem; GREEN LED is blinking every 1 sec..
- RED LED is turn on (not blinking), Interface has a problem.
- RED LED is turn off every 1 sec, there is no input.
- RED LED and GREEN LED both are not turn on, check the CAN or ACC connection.

2. Q : LCD screen black

A : LVDS Cable problem or, connection problem.

3. When DTV or DVD mode, cannot control with I-Drive

- Check IR cable, and DTV or DVD device' s ground cable and Interface ground cable join together with using extra cable.
- Check device in OSD menu