Instruction Manual TIVOLI PAS TD for TIVOLI



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1. Main spec.

- 1-1 Input Spec. (MULTI VIDEO INTERFACE)
 - 1 x Analog RGB Input (Navigation System source)
 - 1 x Digital RGB Input (Navigation System source)
 - 1 x CVBS(REAR CAMERA) Input. (Rear camera source)
 - 1 x CVBS(FRONT CAMERA) Input. (Front camera source)
 - 1 x LVDS Input. (Car Command System)
- 1-2 Output Spec.
 - 1 x LCD Output (LCD Operation)
- 1-3 Power Spec.
 - Input Power : 8VDC ~ 24VDC
 - Consumption Power : 12Watt, Max
- 1-4 Switch Input mode
 - Possible to switch input mode through original button

2. Features

- Display dynamic PAS(Parking assistance system)
- Easy installation with plug & play Power cable



3. Diagram



INTERFACE



4. Components





5. Exterior





1. Dip Switch

* ON : DOWN , OFF : UP

NO.	Function	Selection	
1	NAVI	ON : Skipping NAVI OFF : Display	
2	AV1 (DVB-T)	ON : Skipping DVB-T OFF : Display	
3	AV2 (DVD)	ON : Skipping DVD OFF : Display	
4	N.C		
5	Touch type	ON : Capacitive touch OFF : Resistive touch	
6	N.C		
7	N.C		
8	CAR type	OFF: TIVOLI	

* Example





2. Original button – Steering Wheel (Switching Mode)



Setup button – Capacitive touch model



Menu button : Resistive touch model

Long press : Switching Mode Short Press : switching to OEM screen directly

 \times The screen is switched in order as the pictures below





3. Touch screen – Touch calibration



Touch OEM screen in any mode more than 11sec. For calibration

(This function can be activated only one time after switching mode)



Touch the "+" correctly

- DVB-T/DVD Control



4. OSD Key board



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

5. OSD Menu

※ Press "MENU" button on Key board

MENU	Config	NAVI
Config Option Image Screen Parking	NAVI-RGB DVB-T (DMB) DVD Reset	GI5000_WVGA NET-770 ELT-980XU Slim Execute Cancel

Config - NAVI-RGB : Setup for the type of NAVI-RGB Config - DVB-T(DMB) : Setup for the type of DVB-T(DMB) Config - DVD : Setup for the type of DVD Reset : Reset all value



5. OSD Menu

% Press "MENU" button on Key board

MENU	Option	NAVI
Config	Rear Cam - Type	ExtDevice
Option	Rear Cam - Power	Auto
Image	Rear Cam - Det	CAN
Screen	Front Cam -Type	ExtDevice
Parking	Front Cam -Power	Auto

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 GEAR - By CAN
 - Extwire by rear cam detect wire
- FrontCam-Type : Setup for front camera ExtDevice - External rear camera OEM - Original camera
- 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



5. OSD Menu

※ Press "MENU" button on Key board

MENU	Optio	on N/	AVI
Config Option Image Screen Parking	FrontCam-Det FrontCam-RcvOpt NAVI COM Reset	ExtWire Off Execute Cancel	Os

Option

- FrontCam-Det : Setup for front detection ExtDevice - External rear camera OEM - Original camera
- FrontCam-RcvOpt : Selecting time of displaying Front camera before switching to RGB, DVD, OEM from Rear



NAVI COM : Connect touch through UART
 X Necessary to get Uart protocol from Navi mar

* Necessary to get Uart protocol from Navi manufacturer

• Reset : Reset all value



5. OSD Menu

% Press "MENU" button on Key board

- NAVI(RGB) Image / Screen

MENU	IM	IAGE	NAVI
Config Option Image Screen Parking	Brightness Contrast Color- RED Color- GREEN Color- BLUE		50 50 50 50 25
MENILI	Sc	raan	ΝΙΑΥΤ

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

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

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



5. OSD Menu – Parking mode

※ Press "MENU" button on Key board

- PDC ON/OFF

MENU	Parki	ng	Rear
Config Option Image Screen Parking	OPS Display Line Display Warning Lang Horizontal Vertical	On On 한국어	Off 50 50

Selecting a use of OPS(PDC) picture (OSD Menu – Parking – OSD Display – ON or OFF)



OPS Display - On

- Language

MENU	Parki	Rear	
Config Option Image Screen Parking	OPS Display Line Display Warning Lang Horizontal Vertical	On On 한국어	Off 50 50

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

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

- Adjust the position of Parking guide line

MENU	Parking		Rear
Config Option Image Screen Parking	OPS Display Line Display Warning Lang Horizontal Vertical	On On 한국어	Off 50 50

Possible to adjust the position of line by Keypad in Horizontal / Vertical menu % Pressing this Horizontal / Vertical menu, The OSD screen automatically disappears. Please adjust from the parking line Screen.





5. OSD Menu

※ Press "MENU" button on Key board

- OSD

MENU	Horizontal		
OSD Utility	Horizontal Vertical Display Transparency Language	50 50 10s English	

- OSD Horizontal
- OSD Vertical
- OSD Display : Setting time for displaying OSD menu
- OSD Transparency
- OSD Language : Setting language of ODS menu

- Utility

MENU	Utility		
OSDI Utility	Factory Reset Calibration Version	Execute Cancel Execute Cancel SSTV13KRX - 180106	

• Utility – INTERFACE SOFTWARE



Installation

1. Installation Diagram





Installation

2. Installation



1. Disconnect OEM FFC cable from OEM PCB board



2. Connect the offered FFC cable to where the OEM FFC cable was disconnected





3. As picture above, Connect the opposite side of the offered FFC and the OEM FFC cable to interface board



Installation

2. Installation



4. All cables should be passed through the hole



5. As picture above, fix the interface board by screw



Caution

1. FAQ

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

2. 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 problem caused by wrong installation



For your better driving