1. Main spec.

- 1-1 Input Spec. (MULTI VIDEO INTERFACE)
 - 2 x A/V Input (External video source)
 - 1 x Analog RGB Input (Navigation System output)
 - 1 x CVBS(REAR CAMERA) Input. (Rear camera source)
 - 1 x CVBS(FRONT CAMERA) Input. (Front camera source)
 - 1 x LVDS Input (Car command sysemm)
- 1-2 Output Spec.
 - 2 x CVBS Output (Video out for headrest monitor)
 - 1 x Audio L/R Output
 - 1 x LCD Output (LCD Operation)
- 1-3 Power Spec.

 - Input Power : 8VDC ~ 24VDC Consumption Power : 12Watt, Max S. COM
- 1-4 Switch Input mode
 - Possible to switch input mode through original button
 - Possible to switch input mode through provided touch film(option)
 - Possible to switch input mode through "HOME" button on screen

2. Features

Possible to install touch film

3. Diagram



4. Components

%The connection of LVDS IN/OUT will be changed according to a type of car (Refer to P.17,18))



Power Cable(8pin) 1 EA

4. Components (Option)



Option : Touch Cable



Option : TOUCH Board



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 Video OFF : Display |
| 3 | AV2 (DVD) | ON : Skipping Video OFF : Display |
| 4 | ca ^{N-C} solut | ions.com |
| 5 | Setup of OEM button use for mode change | ON : Not used OFF : using OEM button |
| 6,7 | N.C | |
| 8 | Car model | ON : GranTurismo MC OFF : GranTurismo |

* Example

- -Use input mode : NAVI, AV1
- -Mode change : by using OEM button on steering wheel
- -Car : GranTurismo MC



2. Original button

- Switching mode

*****Make sure that the Dip sw no.5 is "ON" position



%The screen is switched in order as the pictures below



3. Touch screen – Switching mode

%It is necessary to install the provided capacitive touch file on OEM monitor

Switching from OEM screen to External screen only (not possible to switching input mode)



Sliding the screen from right to left for switching mode

Sliding the screen from left to right for switching mode





3. Touch screen

Switching mode

% It is necessary to install provided capacitive touch file on OEM monitor **%** It is needed to select "HomeIcon-ON" in Option menu to activate HOME button



Press "HOME" button to activate OSD for mode change * The position of Home button can be moved by dragging

4. OSD Key board



- **①** MENU : Activating OSD Menu
- ② SEL : Selection

③ Up : Moving upward / increasing value

④ Down : Moving downward / dicreasing value

5. OSD Menu

%Press "MENU" button on Key board



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

5. OSD Menu

%Press "MENU" button on Key board

| MENU | Option / RearCa | m-Power | REAR |
|---------|-----------------|-----------|------|
| Config | RearCam-Type | ExtDevice | |
| Option | RearCam-Power | Auto | |
| Image | RearCam-Det | CAN | |
| Screen | FrontCam-Type | ExtDevice | |
| Parking | FrontCam-Power | Auto | |

Option

- RearCam-Type : Setup for rear camera ExtDevice - External rear camera OEM - Original carmer
- 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 (N.C) CAN - By CAN
 - Extwire by rear cam detect wire
- FrontCam-Type : Setup for front camera ExtDevice - External rear camera OEM - Original carmer
- 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 | HomelCon | | DVD |
|---------|----------------|---------|--------|
| Config | FrontCam-Det | ExtWire | |
| Option | HomelCon | On | Off |
| Image | RearCam-RcvOpt | | 🗖 Os |
| Screen | AV Out | USER | |
| Parking | Reset | Execute | Cancel |

Option

- FrontCam-Det : Setup for front detection (N.C) ExtDevice - External rear camera OEM - Original carmer
- HomeICon : Setup for a use of HOME button
 - ON Activating HOME button
 - OFF Disappearing HOME button
- RearCam-RcvOpt : Selecting time of displaying Front camera before switching to RGB, DVD, OEM from Rear



AV out : Setup for the external AV out in OEM screen AV1 : AV1's AV comes out in OEM screen AV2 : AV2's AV comes out in OEM screen USER : select one of AV out

5. OSD Menu

※ Press "MENU" button on OSD Key board



<NAVI-RGB>

| MENU | Image / Brigh | tness REAR | MENU | Image / Re | set <u>REAR</u> |
|---------|---------------|-------------------|---------|-------------|-----------------|
| Config | Brightness | 50 | Config | Color-RED | 50 |
| Option | Contrast | 50 | Option | Color-GREEN | 50 |
| Image | Saturation | 50 | Image | Color-BLUE | 50 |
| Screen | Hue | 50 | Screen | Reset | Execute Cancel |
| Parking | Sharpness | 25 | Parking | | |

<DVD, DVBT, NAVI-AV, REAR, FRONT>

5. OSD Menu - Parking mode

※ Press "MENU" button on OSD Key board

-Parking guide line ON/OFF



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



Packing line "ON"

-Adjust the position of Parking guide line



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.

| MENU | SEL | UP | DOWN | |
|------|-------|------|------|--|
| | | | | |
| Left | Right | : UP | Down | |

Installation

1. Installation Diagram

%The connection of LVDS IN/OUT will be changed according to a type of car (Refer to P.17,18)



Installation

2. LVDS Installation





OEM Monitor

Caution

1. FQA

- 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