

# Manual for IPA Interface V1.0

Thank you for purchasing the IPA interface. This manual shows how to operate the device smoothly and correctly. Make sure to read this manual carefully before using this product. Please note that specification and information are subject to changes without prior notice in this manual. Any change will be integrated in the latest release. The manufacturer assumes no responsibility for any errors or omissions in this document.

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## Summary

### IPA means Intelligent Parking Aid

- 1 · Universal for all vehicles. New Technology.
- 2 · Don't need ECU or CAN, easy to install.
- 3 · The movable guiding line help you control the steer.
- 4 · Give you bird's eye view when 1meter approaching the Obstacle.



### **Safety Instructions:**

Please pay attention to the following:

- Use an acceptable power wire.
- Try to use the power wire provided in the product package.
- Follow the settings in the manual
- Please follow the instructions in the manual. Do not disassemble the product.
- Please don't install this product in a wet environment.

### **Introduction :**

The parking guidance system can be used for the following conditions:

- Weather conditions: Clear sky, rain, cloudy sky, night time.
- Parking conditions: Normal parking space.
- Road conditions: Normal road, concrete floor, mud

When a camera is connected to the system, and the system is in image mode, there are certain conditions that will have a negative effect on the accuracy of the system.

- Camera lens is blocked by snow or mist.
- When strong light is being put in front of the camera
- When the camera lens is very dirty
- When the color of the object and background shown in the camera image is similar to each other.

# Hardware description

**Front face**



**Rear face**



**Side face**



**Bottom face**



\*Button from the left side to the right side:  
Select, (+), (-), Menu/Save

## **Main accessories**

Video input and output cable



Power wire/ Signal cable

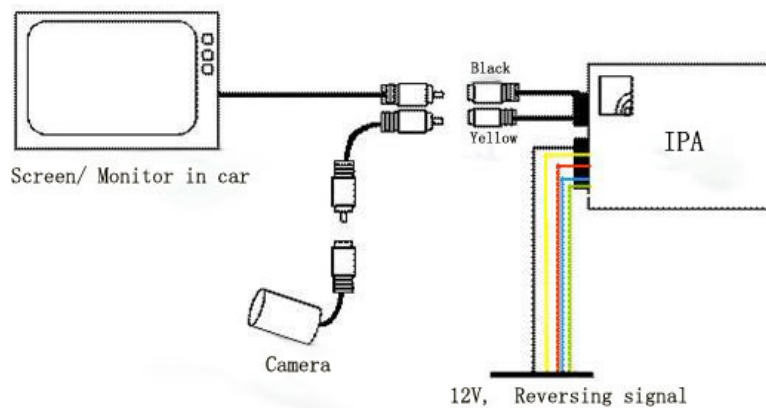


Others:

Camera (CMD or CCD camera is the best choice to match the IPA interface)  
Monitor (All LCD monitor with AV input)

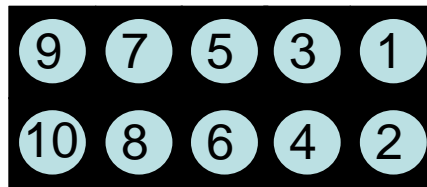
## Installation

1. Preset the installing height and angle, and install the camera behind the car in proper position according to the car model.
2. Put the IPA interface in the proper position (not moist place)
3. Connect the cable (power wire/signal cable, video input/output cable), according to the following installing diagram, with the IPA interface control box, camera and monitor.
4. Connect the reversing signal wire with the rear lamp power wire .
5. Power on and start up the system.



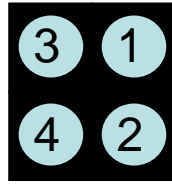
Installing diagram

### **Power/ Signal Cable Number Definition**



1. Power wire (Red): Connect the ACC
2. Reversing 12V output wire (Yellow): Connect the reversing signal cable of the Monitor.
3. Ground wire (Black)
4. Reversing signal cable (White): Connect the wire
5. Signal cable for parking sensor (Green): Connect the parking sensor, namely siren wire, and preset 0.4-1 meter for siren on/off. If under the manual mode, this signal cable is useless.
6. Bird's eye view manual igniting wire (Gray): Connect the 12V,
7. N/A
8. N/A
9. CAN High (+): Useless
10. CAN Low (-): Useless

## Video Input/Output Number Definition



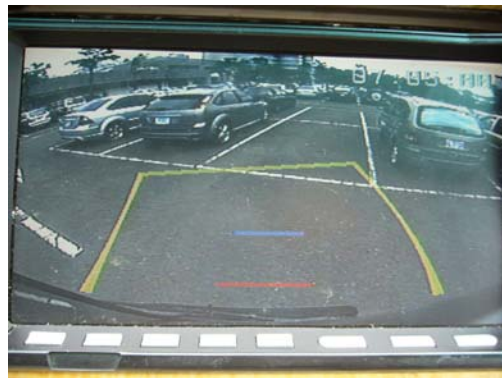
1. Video Input
2. Video Output Ground wire
3. Video Input
4. Video Input Ground wire

Note: Please assign the trained technician to install this product, improper installing will result in function failure.

## Function Operation

IPA system will start up working when shift to Reversing gear, the monitor will appear different image under different situation.

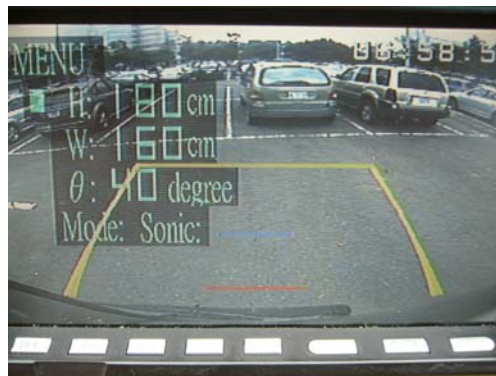
Reversing real time image



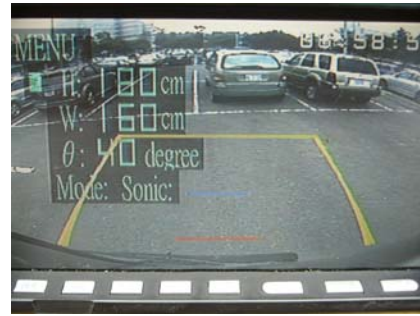
Bird's eye view image



System presetting Image



## Presetting



\*The button from the left side to the right side: Select, (+), (-), Menu/Save

### **Menu/Save:**

Press this button, will enter into system presetting mode, after finishing the presetting, press this button again, and will go back to normal mode.

### **(+):**

Add the value for the parameter adjusting

### **(-):**

Minus the value for the parameter adjusting

### **Select:**

Press this button for choosing different parameter to adjust.

### **Parameter below can be preset:**

- 1) Camera installing height (H): Range from 50cm to 200 cm, +/- 5 cm for each adjusting; higher the camera is installed, better the working effect will be.
- 2) Car width (the widest one) (W): Range from 50cm to 200 cm, +/- 5 cm for each adjusting; the widest car width should be between the 2 outside rearview mirror. The yellow guideline in the image is for indicating the car width.
- 3) Camera installing angel ( $\theta$ ): Range from 10 degree to 60 degree, +/- 2 degree for each adjusting; Please adjust this parameter according to the guideline carefully, **Red** guideline is supposed to indicate 1 meter from the obstacle, **Blue** guideline indicates 1.5 meter, **Yellow** guideline indicates 3 meter ;
- 4) Mode for Bird's eye view presetting (Mode):
  - ◆ Ignited by mode of Sonic parking sensor: when choose this mode, the bird's eye view image will appear on the monitor when the car is 1 meter far away from the obstacle.
  - ◆ Ignited by mode of IMAGE: when choose this mode, the bird's eye view image will appear on the monitor when the Red guideline reaches the obstacle.
  - ◆ Ignited by mode of MANUAL: when choose this mode, the bird's eye view image will appear on the monitor when turn on the 12V power switch by hand.

## Cautions

- ◆ Working temperature: -40°C ~ +85°C ( IPA Interface), -10°C ~ +60°C (Camera)
- ◆ Power supply: 8-30 V DC
- ◆ The camera had better be installed in the centre place behind the car.

## Trouble shooting

- ◆ **No reaction when press the presetting button**

Please check if the system is under presetting mode.

- ◆ **Power signal lamp not on**

Please check the power connection, and turn on the power.

## CLAIM

**IPA system is just a device for assisting parking your car;  
the driver should take all responsibility for the driving  
security!**