Owner's Manual of IPS System

Thanks for your purchase of our user-friendly IPS system. IPS is short for **Image Parking Syste**m. It is a device designed to assist you in seeing and short distance obstacle's detecting. Although IPS provides an excellent assistance, however the right judgment and decision making is still rested on you.

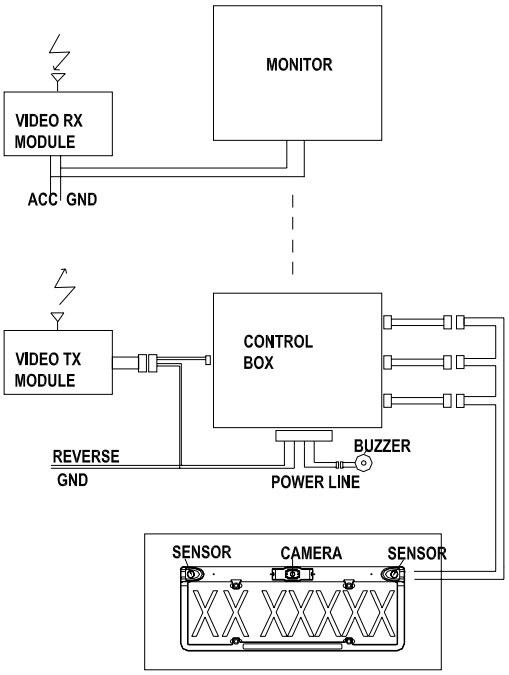
IPS combines the two most common and useful systems (Camera and ultrasonic sensor) in one. The Camera system sees the image. The ultrasonic system tells the distance. On the LCD monitor, it shows sharp image and digital distance reading. It is easy DIY system with a concealed hole behind the license plate.

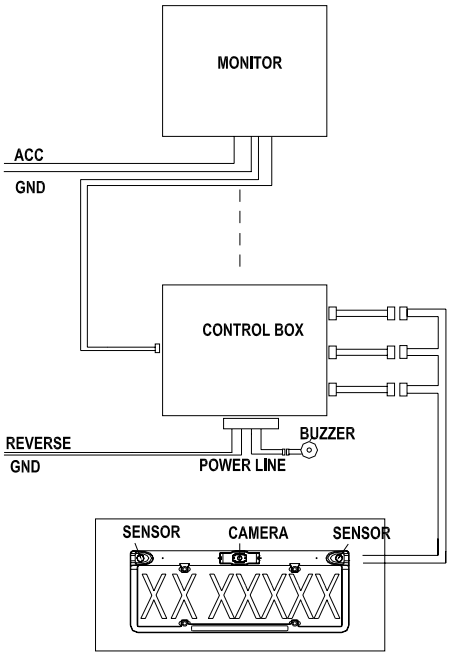
1. Purpose of using IPS

The purpose of using IPS is to avoid drilling many holes on a beautiful bumper for passenger. For various commercial vehicles, they have different available mounting heights. It is difficult to drill many holes on a big truck, less holes less job. With an environment learning program within, IPS is a "one system fits all" product.

2. How it works

Camera is located in the center of IPS bar. Through the camera, it catches image. One ultrasonic sensor locates on each end of the bar. Ultrasonic sensors detect the distance. The control module receives both Image and Distance data. TX module transmits the data to the monitor.



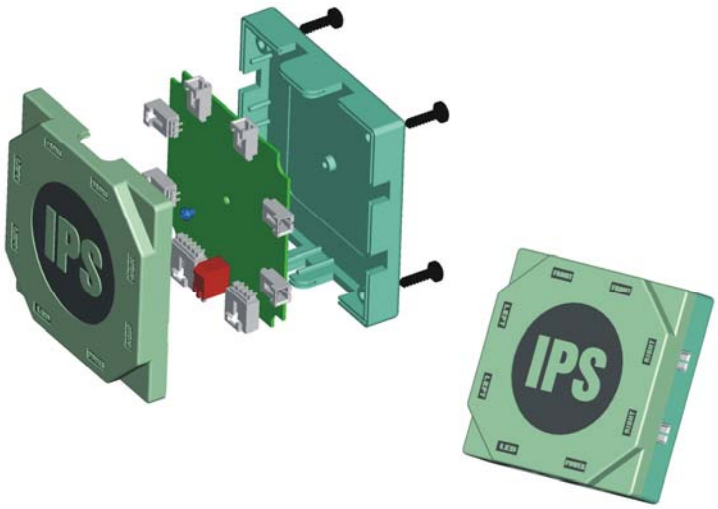


3. COMPONENTS

3.1 MONITOR

Bright LCD monitor shows sharp image and Digital reading. Power can be from ACC source or Cigarette Lighter plug. The monitor stands on the top of dashboard. It can be adjusted to meet individual need.

3.2 CONTROL BOX



Rigid control module is filled up with non-inflammable potting material to prevent moisture and absorb certain unexpected shock. The module is worked with a video TX transmitter. It may be installed in the boot or lights box. The module could work up to 4 sensors. The module works with different criteria in different heights from 35cm to 80cm.

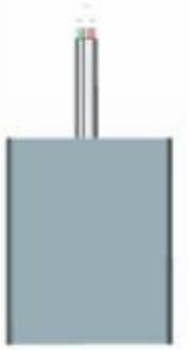
3.3 LICENSE PLATE

IPS bar contains sensors, camera and bar shaped holder. Camera and sensors can be adjusted 35 degrees up and down on either side. It fits all cars in different height.

3.4 WATCH BUZZER

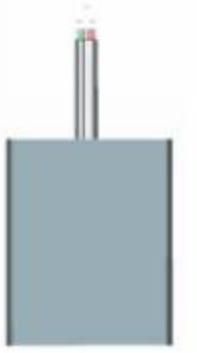
Watch buzzer's volume can be fully adjusted. It is recommend that this buzzer is to be installed inside the cabin.

3.5 VIDEO TX MODULE



This is a video TX module which connects to the control module. It receives both image and distance data and sends the same digital data to video RX module connecting to the LCD monitor.

3.6 VIDEO RX MODULE



This is a video RX module which receives the data sending from video TX module. The module should be concealed behind the dashboard close to the monitor. (It applies only on RF/wireless system.)

4. SPECIFICATION

RATED VOLTAGE：DC 12V

OPERATION VOLTAGE：9～16V DC

OPERATION TEMPERATURE：-30℃～85℃

EFFECTIVE PIXELS：NTSC:510(H)*496(V)/PAL:628(H)*582(V)

MINIMUM LIIUMINATION：0.1LUX

5. Self-Diagnosis

Once power on, the system starts its self-diagnosis checking

a. 1 beep - The system works well ●

b. 2 beeps - 1 sensor is out of order ●●

c. 3 beeps - 2 sensors are out of order ●●●

d. 4 beeps - 3 sensors out of order ●●●●

Remark: When there are no L and/or R sensors connected, the system deems it has two sensors.

6. The system's Distance detection

Once power on, obstacle distance detection starts

a. When obstacle within 3 – 6ft, beeper sounds more rapidly once closer.

b. Solid beep means the obstacle is within 3ft. On monitor screen it shows "Stop" sign with camera image.

   L and R corner alarm within 2ft.

Important:

Whenever you hear solid beeps or see "stop" sign showing on the screen, you should immediately stop.

Changes or Modifications not expressly approved by the party reponseible for compliance could void the user's authority to operate the equipment.