

# **Operation Guide**

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2.4GHz Wireless  
Car Rearview Backup Camera  
Model No.: 8912AZ/8912AB

Version No.: 1.0

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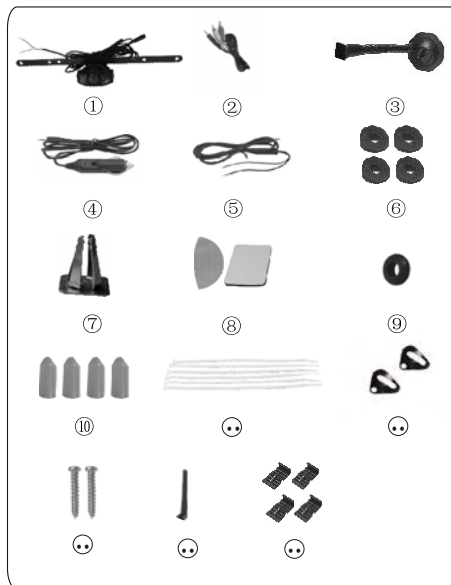
\* 8912AZ means GB8912 + GB7610

\* 8912AB means GB8912 + GP-792

## PREFACE

Thanks you for choosing our Rearview camera and receiver. Please install and use the product in accordance with our operating instructions. We will provide quality and reliable service for a variety of vehicles including cars, trucks, and so on. Our implements rigid quality control and testing to ensure the best performance of the product as well as satisfactory service for you.

## PACKING LIST



TFT-LCD Monitor Series



GB7610



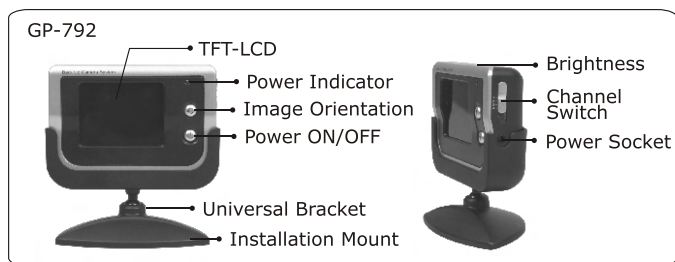
GP-792

\* Only one TFT-LCD monitor included in the package.

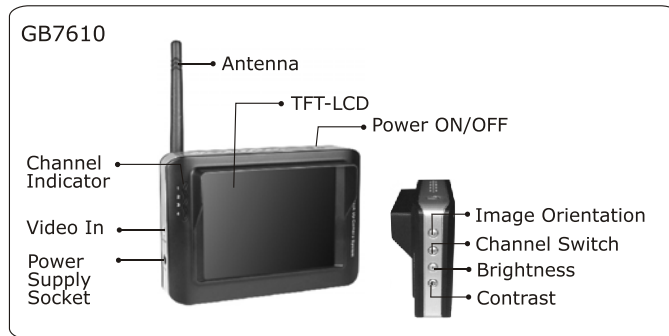
- ① Rearview Camera
- ② AV Cable
- ③ Mount Holder
- ④ +12/+24 Volt car power Adapter
- ⑤ Monitor Wiring Harness
- ⑥ Wedge Shaped Mounting Shims
- ⑦ Special Holder(Only for GP-792)
- ⑧ Hook & Loop Style Fastener(Only for GP-792)
- ⑨ Grommet
- ⑩ Special Holder Cover(Only for GP-792)
- ☉ Cable Ties
- ☉ Metal Shims
- ☉ License Plate Screws
- ☉ Antenna (Only for GB 7610)
- ☉ In-Line Wire Connectors

## STRUCTURE

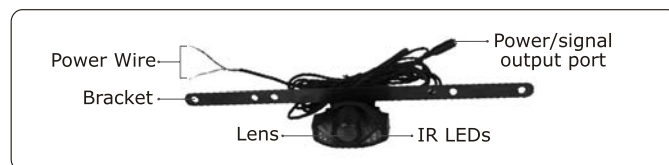
### 2.5" TFT- LCD Monitor



### 3.6" TFT- LCD Monitor



### Rearview Camera



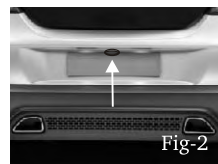
## CAMERA INSTALLATION

You may use the installation bolt or screw at the top of the license plate to install the camera. Upon camera installation, ensure that the light of sight of the driver shall not be blocked. To adjust the shooting angle of the camera, use the delivery-attached wedge gasket.

1. Loosen the license plate installation bolt or screw, and then remove the license plate on the rear of your car;
2. Insert the license plate installation bolt into the wedge, pass it through the bolt hole on the camera and then pass it through other wedges and the license plate, and tighten the license plate installation bolt or screw temporarily. The wedge will bring the angle of the camera downward(Fig-1);



4. Select an appropriate route, so that the power cable of the camera can adequately pass through the car body and reach the reversing lamp line on the other side;
5. Some cars are configured with openings for cabling, for example: on the license plate installation position; or you may drill a hole near the connection between the power cable and the camera. If your car has an existing hole, you can skip the following one step;
6. Select drilling position near the power cable outlet/inlet and the camera(Fig-2). Before drilling, check whether there is any part behind the hole-drilling position. If there is, for example, electronic



part or fueling system part,take all necessary measures to avoid any possible damage to these parts. And remove the license plate and camera;

7. After the hole is drilled, insert the supplied washer , and then pass the power cable through the washer and into the car . The washer shall be used to prevent the metal side of the hole from cutting the power cable;

8. Peel the backing paper of the bracket of the camera, attached the camera at the top of installation position of the license plate, use the license plate installation bolt through the bolt hole on the camera and the license plate, and



Fig-3

tighten the license plate install bolt or screw(Fig-3) ;  
9. Then locate the reversing lamp of your car. Open the reversing lamp. Place the ignition key of your car near the accessory position. Engage the parking brake to reverse the car. Check the tail lamps of your car to confirm the position of the reversing lamp (white lamp). Confirm the position of the 12V+ wire of the reversing lamp. You need to access the rear part of the tail lamps of your car. If you need any help to confirm the position of the reversing lamp circuitry, please contact the vehicle manufacture to request the dedicated wiring diagram;

10. Once you have confirm the specific position of the reversing lamp circuitry, distribute the power cable of the camera to this position. Please tighten the power cable to



Fig-4

avoid tangling of the power cable onto any car part, for example, hinge of your car (Fig-4). Never distribute the power cable outside the car in any cases.11.

Reversing lamp seat on most cars have two wires.

Normally, the black one is the negative wire, while the color one is the position wire. If you are not sure for the wiring, you may use a 12V testing lamp that you may purchase from any automobile accessories outlet to judge which is the position wire.

- a). Remove the reversing lamp from its enclosure, and then remove the bulb from the lamp seat;
  - b). Engage the parking brake, turn the ignition key to the "ON" position, but do not start up the car. Put the gear shift in the reverse position;
  - c). Connect the ground wire of the testing lamp to the grounding point of the car, and then you the positive wire to touch a lamp seat contact;
  - d). If the testing lamp lights up, it indicates that the wire corresponding to the contact is the positive one; if it does not light up, it indicates that the other wire is the positive one. For safety precautions on the testing lamp, please refer to the operating instructions of its manufacturer.
12. After confirming which is the positive wire and which is the negative wire, turn off the ignition key, and remove the negative cable from the battery;
13. According to descriptions mentioned in the operating instructions for the in-line wire connector, splice the red wire onto



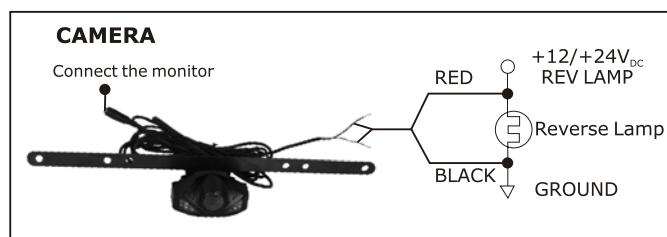
Fig-5



- the positive (+) wire of the reversing lamp by use of the connector(Fig-5);
14. Then splice the black wire of cable of the camera on to the negative (-) wire or grounding point of the reversing lamp;
  15. Replace the reversing lamp bulb, and reinstall the lamp seat. Use a cable clip or insulation adhesive to fix all wires. Reconnect the negative battery cable to the battery.
  16. If you use a wired monitor, it will be necessary for connecting the power/signal output port of camera to the power port of monitor.  
The camera is compatible with wired and wireless.

## CAMERA CONNECTION DIAGRAM

The camera is connected to the voltage part of the reversing unit. If the camera is not started, please check and make sure that the red wire is connected to the positive pole (+) and the black wire is connected to the negative pole (-).



## MONITOR INSTALLATION

The selection of monitor installation position shall ensure that the monitor is installed to avoid blocking of your line of sight when you are driving; otherwise it may affect safe driving of your car. The most common installation position is the dashboard.

Before fixing the monitor, please use isopropyl alcohol to clean the installation area first and then dry it thoroughly.

There are four installation models:

A-1. The two pieces of elliptical double-sided paste are attached to each other, and pull the lining paper out of the round side of the paste;



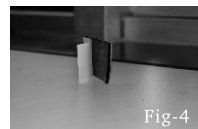
A-2. Align the double-sided paste with the bottom of the monitor bracket, and attach them together (Fig-1);



A-3. The sharp part of the double-sided paste exactly matches the round part of the monitor. You only need to tear the lining paper (Fig-2);



A-4. Then press the monitor bracket firmly onto the cleaned area. The adhesive will reach the maximum strength in 24 hours. Move the double-sided paste from its original position will weaken the adhesion force of the adhesive, and also may damage the installation surface (Fig-3);



B. Remove the adhesive film, paste one side of it directly onto the rear part of the car body, and the other side to an appropriate place of the car, as shown in the following figure(Fig-4, Fig-5);



C-1. Using the special holder to install the monitor(Fig-6)(Only for GP-792);



C-2. Special holder is plugged into the window of car air conditioner(Fig-7);



D-1. Using the mount holder to install the monitor(Fig-8);



D-2. Mount holder is stamped on the front window glass(Fig-9).



**Note:**

In order to make sure the effective paste of GP-792 bracket, it is recommended that it be used in the following conditions:

\*Surface temperature: 21℃ to 38℃

\*It shall not be used when the surface temperature is

lower than -10°C;

\*It shall not be used under direct sunlight;

\*Avoid direct sunlight in 24 hours after it is installed.

In an environment with extremely strong light, the image of the monitor takes several seconds to be stabilized.

Therefore, please wait patiently for its reaching stable status.

### **POWER CONNECTION OF MONITOR**

If the power port of monitor connect to power/signal output port with cable, camera will automatically output the power and signal to monitor, the monitor no need connect other power. Otherwise, please according to below two power supply modes to connect the power of the monitor:

#### **Using +12V cigarette lighter adapter inserted into the lighter socket**

1. Insert one end of the power cable into the monitor;
2. Insert the 12V cigarette lighter adapter into the lighter socket;
3. Press the <ON/OFF> button to turn on /off the monitor.

#### **Using the wire harness connected to the fuse box\_**

1. Disconnect the negative battery cable from the negative battery terminal of your car;
2. Connect the red wire to the 12V+/ACC terminal on the fuse box of your car;
3. The ground wire shall be located in the car body/heat insulation plate metal area, since no car parts exist in

the rear of this area. Sand off the paint to expose the bare metal. Use this area for chassis grounding;

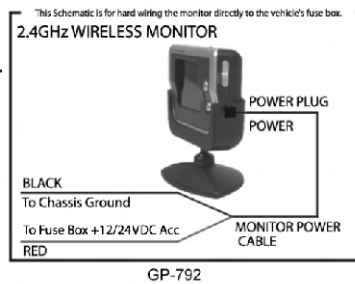
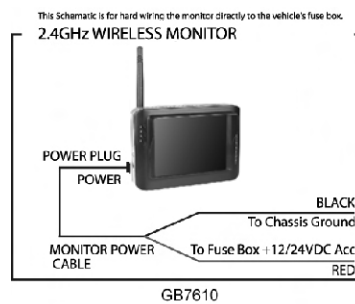
4. Drill a hole for the supplied metal screw. Make sure that there is no car parts in the place where the hole is to be drilled;

5. Strip off a proper length of the insulation sheath from the black wire (the stripped length is about 1.3 cm). Before tightening, wind the wire around the metal screw;

6. Reconnect the negative battery cable;

7. Insert the power cable into the monitor, and

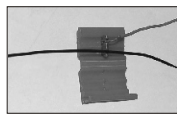
press the **<ON/OFF>** button to turn on/off the monitor.



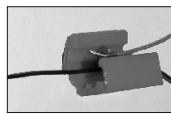
**NOTE:**

when the power input port of monitor is connected to the power/signal output port of camera, the camera will automatically output signal/power to the monitor, it means that monitor need not to connect to other power.

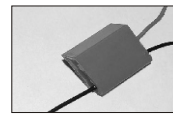
### In-Line Wire Connector Instructions



Insert the existing wire to be tapped.



Insert the wire to be attached.



Crimp tap then close lock

You do not need to use the In-Line Wire Connectors. The camera can be wired directly to the reverse light circuit by stripping the reverse light wires then twisting the camera wires to the exposed reverse light wires. Once connected, wrap with electrical tape. Do not attempt this if you are not knowledgeable with electrical installation practices.

### CAUTIONS

- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
- Turn off the Camera/Monitor if the system is not in use.
- The adapter is used as the disconnect device from the mains. The adapter shall remain readily operable.
- The Camera/Monitor can only be completely disconnected from the mains by unplug the adapter.
- Do not cut the DC power cable of the apparatus to fit with another power source.
- Attention should be drawn to the environment aspects of battery disposal.

## SPECIFICATIONS

|                |                              |                                 |                |
|----------------|------------------------------|---------------------------------|----------------|
| <b>CAMERA</b>  | <b>Items</b>                 | <b>GB8912</b>                   |                |
|                | Imaging Sensor               | CMOS                            |                |
|                | Total Pixels                 | 720×576 (PAL)                   | 720×480(NTSC)  |
|                | Horizontal View Angle        | 80 degree                       |                |
|                | Transmission Frequency       | 2414MHZ;2432MHZ;2450MHZ;2468MHZ |                |
|                | Transmission Power           | 94dBuV@3m                       |                |
|                | Minimum Illumination         | 5Lux(IR OFF)/0 Lux (IR ON)      |                |
|                | IR Night Range               | 3m                              |                |
|                | Modulation Type              | FM                              |                |
|                | Bandwidth                    | 18MHz                           |                |
|                | Power Supply                 | +12/+24Vdc                      |                |
|                | Consumption Current(Max.)    | 100mA(IR OFF) &130mA(IR ON)     |                |
|                | Dimensions(W x D x H)        | 370×55×35(mm)                   |                |
|                | Weight(about)                | 240g                            |                |
| <b>MONITOR</b> | <b>Items</b>                 | <b>GB7610</b>                   | <b>GP-7109</b> |
|                | LCD Screen Type              | 3.6" TFT-LCD                    | 7" TFT-LCD     |
|                | Effective Pixels             | 960 × 240                       | 480 × 234      |
|                | Video System                 | PAL/NTSC                        |                |
|                | Color Configuration          | R.G.B.delta                     |                |
|                | Received Sensitivity         | ≤-85dBm                         |                |
|                | Consumption Current (Max.)   | 250mA                           | 900mA          |
|                | Unobstructed Effective Range | 50m                             | 100m~150m      |
|                | Dimensions(W×D×H)            | 108 ×37×75(mm)                  | 196×27×127(mm) |
|                | Weight(About)                | 165g                            | 450g           |
|                | Power Supply Voltage         | +12/+24Vdc                      |                |
|                | Operating Temperature        | -10°C~+50°C/+14°C~+122°C        |                |
|                | Operating Humidity(Max.)     | 85%RH                           |                |

- \* Actual transmission range may vary according to the weather, location, interference and building construction.
- \* All the specifications are subject to minor change without prior notice.

## FCC INFORMATION

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference,
- (2) this device must accept any interference received, including interference that may cause undesired operation.

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

### EU Environmental Protection

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.



Car adapter model:HXZ791

manufacturer:Shenzhen Huaxinzhi Electronics Co.,LTD

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