

GreenYi AHD Monitor Camera Set

GreenYi AHD Monitor Camera System User Manual

Model: AHD Monitor Camera Set

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your GreenYi AHD Monitor Camera System. This system includes a 5-inch AHD TFT LCD monitor and a universal 720P camera, designed to enhance vehicle safety by providing clear visual assistance for rear, front, or side views. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent damage to the product and ensure safe operation:

- Ensure all power connections are secure and correctly polarized to avoid electrical shorts.
- Disconnect the vehicle's battery before performing any wiring to prevent electrical hazards.
- Do not obstruct the driver's view or interfere with vehicle controls during installation.
- Avoid installing the monitor or camera in locations exposed to extreme temperatures or direct sunlight for prolonged periods.
- This system is an aid to driving and does not replace the driver's responsibility for safe operation and awareness of surroundings.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

PACKGAE CONTENT

 <p>HD Backup Camera</p>	 <p>Metal Holder 1</p>	 <p>Accessories for Holder 1</p>
 <p>Silicone Holder 2</p>	 <p>Accessories for Holder 2</p>	 <p>5FT 4Pin to RCA Power Cable</p>
 <p>26FT Double-shielded Video Cable</p>		 <p>Zip Ties*5</p>
 <p>Wire Clamp*5</p>	 <p>RCA Coupler</p>	 <p>Removal Tool</p>
 <p>Electrical Adhesive Tape</p>	 <p>Thanks Card</p>	 <p>User Manual</p>
 <p>T-tap Set*2</p>		 <p>Mini Screwdriver</p>

Figure 3.1: Overview of all included components.

Monitor Package:

- 1 x 5-inch AHD 800x480 Car TFT LCD Monitor
- 1 x Cigarette Lighter Power Adapter
- 1 x Dashboard Mounting Bracket
- 1 x Windshield Suction Cup Mounting Bracket
- 1 x 5FT Power Cable (for monitor)
- 1 x User Manual (for monitor)
- 1 x RCA Video Coupler

Camera Package:

- 1 x HD 720P Backup Camera
- 1 x 26FT Double Shielded Video Cable
- 1 x 5FT Power Cable (for camera)
- 1 x Metal Holder set

- 1 x Accessory Bag for Metal Holder
- 1 x Silicone Holder
- 1 x Accessory Bag for Silicone Holder
- 1 x User Manual (for camera)
- 1 x Adhesive Tape
- 1 x Removal Tool
- 5 x Zip Ties
- 5 x Wire Clamps
- 1 x Mini Screwdriver
- 1 x RCA Male to Male Coupler
- 1 x RCA Female to Female Coupler
- 1 x Electric Adhesive Tape
- 2 x T-tap Sets

4. PRODUCT SPECIFICATIONS

Monitor Specifications:

Feature	Specification
Type	AHD Digital TFT LCD
Display Screen Size	5 Inch
Resolution	800*RGB*480
Video Signal	Compatible with both AHD and CVBS Video Signal
Contrast	300:1
Power Consumption	About 3W
Power Supply	DC 12-30V
Brightness	500CD/
Video Format	PAL / NTSC (automatically switch)
Operating Temperature	-4°F~+140°F (-20°C~+60°C)
Storage Temperature	-22°F~+176°F (-30°C~+80°C)
Material	ABS Plastic

Camera Specifications:

Feature	Specification
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Feature	Specification
Image Sensor	CCD AHD Chip
TV System	NTSC
Resolution	1280*720 Pixels
Viewing Angle	170 degrees
Signal to Noise Ratio	≤48dB
Waterproof Grade	IP68
Power Supply	DC 12-24V
Minimum Illumination	0.01Lux / F1.5
Working Humidity	80%RH
Operating Temperature	-22°F~+140°F (-30°C~+60°C)
Storage Temperature	-40°F~+176°F (-40°C~+80°C)

5. SETUP & INSTALLATION

5.1 Monitor Installation

The monitor can be installed using either the dashboard mounting bracket or the windshield suction cup mounting bracket.

- 1. Choose Location:** Select a location on your dashboard or windshield that does not obstruct your view or interfere with vehicle controls.
- 2. Attach Bracket:**
 - For dashboard mount: Secure the dashboard bracket to the desired surface using the adhesive pad or screws (not included).
 - For suction cup mount: Press the suction cup firmly against a clean, smooth windshield surface and engage the locking lever.
- 3. Mount Monitor:** Attach the monitor to the chosen bracket. Adjust the angle for optimal viewing.
- 4. Power Connection:** Connect the monitor's power cable to the cigarette lighter adapter or directly to a 12-30V DC power source in your vehicle.



Figure 5.1: Monitor and camera components.

5.2 Camera Installation

The camera offers versatile installation options for front, rear, or side views. Use the provided metal or silicone holders.

Various Installation Positions with 2 Different Holders



Figure 5.2: Examples of camera installation positions.

1. **Select Mounting Position:** Choose a suitable location (e.g., license plate area for rear view, grille for front view, under side mirror for side view).
2. **Attach Holder:** Secure the metal or silicone holder to the chosen surface using screws or adhesive tape.
3. **Mount Camera:** Insert the camera into the holder.
4. **Adjust Angle:** Use the mini screwdriver to adjust the camera's lens angle (360-degree rotatable body) for the desired viewing perspective.

Adjustable Camera Body



Figure 5.3: Camera angle adjustment.

5.3 Wiring Diagram

Follow the wiring diagram carefully to connect the camera to the monitor and vehicle power supply.

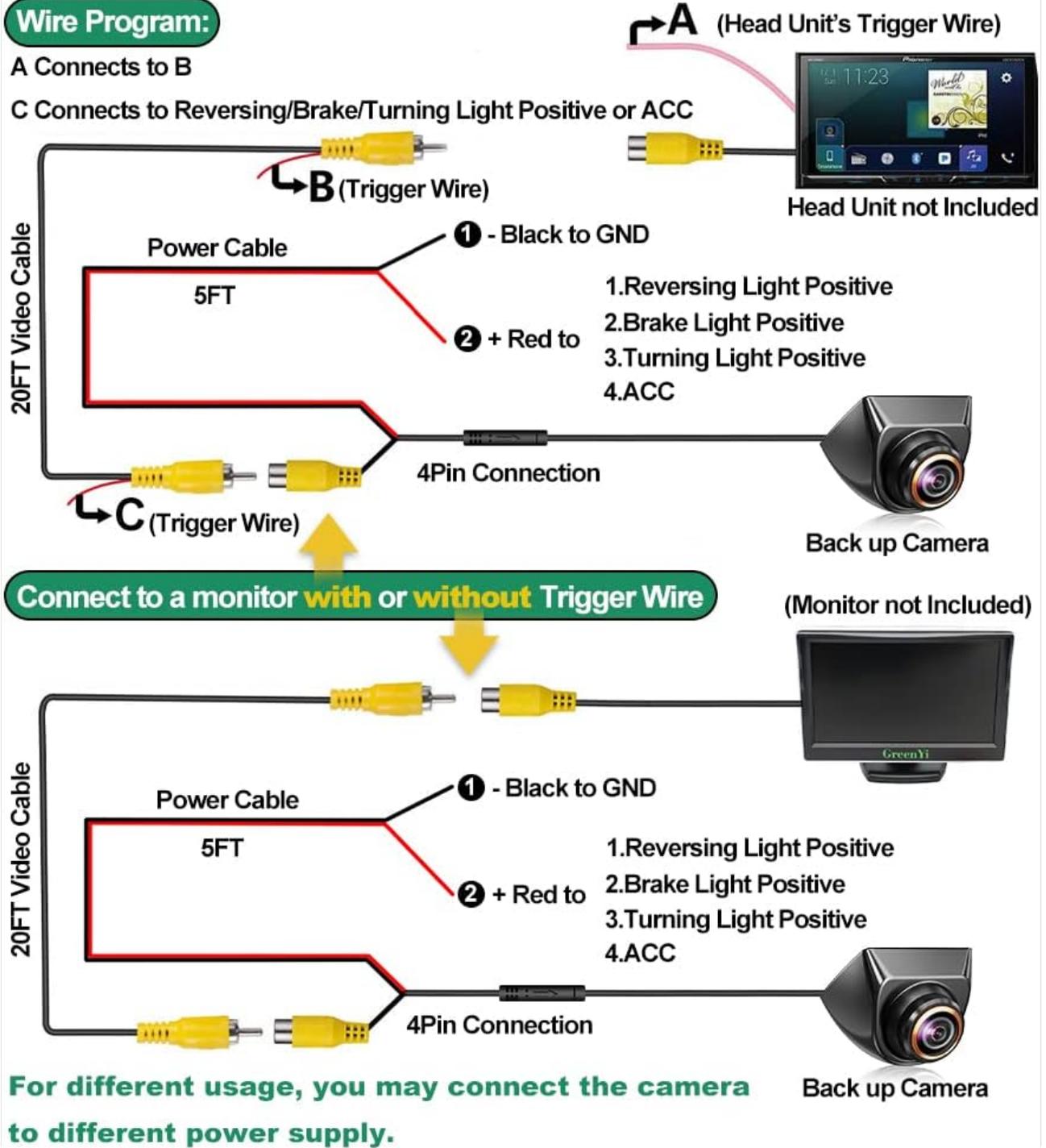


Figure 5.4: Wiring connections for the camera system.

- Connect the 4-pin camera cable to the provided 26FT Double Shielded Video Cable.
- Connect the video cable's RCA end to the monitor's video input. The yellow plug is typically for the rear view camera.
- Connect the camera's 5FT power cable:
 - **Red wire:** Connect to a 12-24V DC power source (e.g., reversing light positive, brake light positive, turning light positive, or ACC).
 - **Black wire:** Connect to vehicle ground (GND).
- If connecting to a head unit with a trigger wire, connect the trigger wire (usually labeled "Reverse" or "Back") from the head unit to the reversing light positive.
- Ensure all connections are secure and insulated using the provided electrical adhesive tape and zip ties.

Note: All 4-pin cameras require the use of the provided power cable for connection to any monitor.

6. OPERATION

6.1 Monitor Operation

The monitor will automatically power on and display the camera feed when the connected power source (e.g., reverse gear) is activated.



Figure 6.1: Monitor rear view with menu controls.

Use the buttons on the back of the monitor to access and adjust settings:

- **Menu Button:** Press to enter the menu and navigate through options.
- **Up/Down Buttons:** Use to adjust values or select menu items.
- **Available Settings:** Brightness, Contrast, Saturation, Tint, Language, Mode, Reset.

6.2 Camera Features

The camera offers customizable features via switcher cables:

Switcher Cables to Enable More Features

Mirror(rear) to Non-mirror(Front)



CVBS to AHD Video Signal



Guideline ON to Guideline OFF



Figure 6.2: Camera feature switcher cables.

- **White Cable:** Cut this cable to switch between mirror (rear view, default) and non-mirror (front view) image display.
- **Orange Cable:** Cut this cable to switch between CVBS and AHD video signal output. Ensure this matches your monitor's input capability.
- **Green Cable:** Cut this cable to toggle parking guidelines ON or OFF.

Note: Perform these cable modifications before final installation and power connection.

Fisheye Lens with Golden Rim

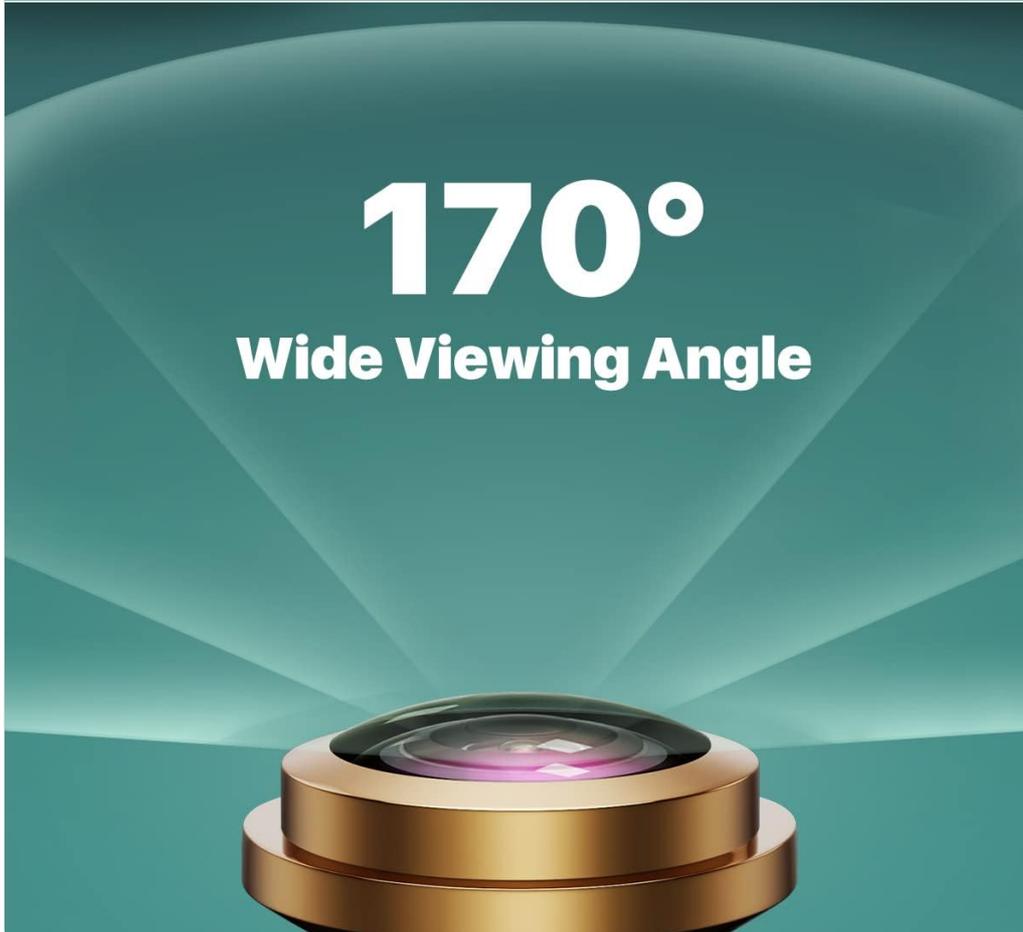


Figure 6.3: Camera fisheye lens with 170-degree viewing angle.

The camera features a 170-degree wide viewing angle fisheye lens, designed to cover a broad area and minimize blind spots.

7. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the monitor screen and camera lens. Avoid abrasive cleaners or solvents.
- **Cable Inspection:** Periodically check all cables and connections for wear, damage, or loose contacts.
- **Lens Clarity:** Ensure the camera lens remains free of dirt, mud, snow, or ice to maintain clear image quality.
- **Mounting Security:** Verify that the monitor and camera mounts are secure and have not loosened over time due to vehicle vibrations.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No image on monitor	<ul style="list-style-type: none"> No power to monitor or camera Loose video cable connection Incorrect video input selected Damaged camera or cable 	<ul style="list-style-type: none"> Check power connections for both monitor and camera. Ensure video cable is securely connected to both camera and monitor. Verify monitor is on the correct video input channel. Test with another camera/monitor if available.
Image is distorted or flickering	<ul style="list-style-type: none"> Poor power supply Interference from other vehicle electronics Loose video connection Incorrect video signal type (AHD/CVBS) 	<ul style="list-style-type: none"> Ensure stable 12-30V power supply. Route cables away from ignition wires or other high-current cables. Check video cable connections. Verify camera's video signal output (AHD/CVBS) matches monitor's input. Adjust using orange switcher cable if necessary.
Image is upside down or mirrored incorrectly	<ul style="list-style-type: none"> Incorrect camera setting for mirror/non-mirror view 	<ul style="list-style-type: none"> Adjust camera's mirror/non-mirror setting by cutting or restoring the white switcher cable.
Parking guidelines are missing or always on	<ul style="list-style-type: none"> Incorrect camera setting for guidelines 	<ul style="list-style-type: none"> Adjust camera's guideline setting by cutting or restoring the green switcher cable.

9. WARRANTY & SUPPORT

For warranty information and technical support, please refer to the specific warranty card included in your product package or contact GreenYi customer service directly. Keep your purchase receipt as proof of purchase.

Contact Information: Please visit the official GreenYi website or refer to the contact details provided in your product packaging for support.