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Clarion CR8700A

Clarion CR8700A Compact HD Camera User Manual

Model: CR8700A

1. Product Overview

The Clarion CR8700A is a compact high-definition camera designed for various applications requiring a wide-angle view and clear image capture. It features a high-quality 1-megapixel CMOS sensor and HDR (High Dynamic Range) functionality to ensure excellent image reproduction even in challenging lighting conditions.



Image: Clarion CR8700A Compact HD Camera. This image shows the compact camera unit with its mounting bracket, featuring a lens at the front and a sturdy metal casing.

Key Features:

- High-quality 1-megapixel CMOS sensor for clear imaging.
- HDR (High Dynamic Range) function for improved image quality in varied lighting.
- Ultra-wide angle lens (120 degrees field of view).
- Mirror image capability.

2. Package Contents

Please check the package for the following items:

- Clarion CR8700A Compact HD Camera
- Mounting Bracket
- Power Cable
- Video Cable

- Instruction Manual (this document)
- Mounting Screws

3. Setup

3.1 Mounting the Camera

1. Choose a suitable location for mounting the camera. Ensure the chosen spot provides a clear, unobstructed view of the area you wish to monitor.
2. Using the provided mounting bracket as a template, mark the positions for drilling holes.
3. Drill pilot holes at the marked positions.
4. Secure the mounting bracket to the surface using the supplied screws.
5. Attach the camera to the mounting bracket and adjust its angle for optimal viewing.

3.2 Wiring Connections

Connect the camera to your display unit or recording device using the provided cables.

- Connect the video output cable from the camera to the video input of your monitor or DVR.
- Connect the power cable to the camera's power input. Ensure the power source matches the camera's voltage requirements (refer to specifications).
- Secure all connections to prevent accidental disconnections.

4. Operating Instructions

4.1 Powering On/Off

The camera will power on automatically when connected to a compatible power source. To power off, disconnect the power supply.

4.2 Adjusting View Angle

Loosen the screws on the mounting bracket slightly to adjust the camera's vertical and horizontal angle. Once the desired view is achieved, tighten the screws firmly to secure the camera in place.

4.3 Mirror Image Function

The CR8700A supports mirror image output, which is often useful for rear-view applications. This function is typically controlled by a specific wire loop or setting on the camera's cable. Consult the wiring diagram for details on how to enable or disable the mirror image function.

5. Maintenance

Regular maintenance ensures optimal performance and longevity of your camera.

- **Cleaning the Lens:** Gently wipe the camera lens with a soft, clean, lint-free cloth. For stubborn dirt, use a lens cleaning solution specifically designed for optical surfaces. Avoid abrasive materials or harsh chemicals.
- **Checking Connections:** Periodically inspect all cable connections to ensure they are secure and free from corrosion or damage.
- **Environmental Protection:** While the camera is designed for durability, avoid exposing it to extreme temperatures, direct water immersion, or strong impacts.

6. Troubleshooting

Problem	Possible Cause	Solution
No image on screen	No power; Loose video cable; Incorrect input selected on monitor.	Check power connection; Secure video cable; Select correct input on monitor.
Flickering or distorted image	Poor cable connection; Electromagnetic interference; Faulty cable.	Check and secure all connections; Relocate camera or cables away from interference sources; Replace cable if damaged.
Image too dark/bright	Extreme lighting conditions; HDR function not optimal for current scene.	The camera automatically adjusts for light. Ensure lens is clean.

7. Specifications

Feature	Detail
Model Number	CR8700A
Brand	Clarion
Optical Sensor Technology	CMOS
Optical Sensor Size	1/3 inch
Lens Type	Wide Angle
Actual Angle of View	120 degrees
Product Dimensions	40mm (L) x 38mm (W) x 28mm (H)

Feature	Detail
Item Weight	100 g
Display Technology	LED (referring to monitor output, not camera display)
Battery Usage	No (external power required)

8. Warranty and Support

8.1 Warranty Information

This product comes with a**3-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.
The warranty does not cover damage caused by:

- Accident, abuse, misuse, or natural disasters.
- Unauthorized repair or modification.
- Improper installation or operation not in accordance with this manual.

8.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Clarion customer support. Refer to the official Clarion website or your purchase documentation for contact details.

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