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ANNKE CS1EQ

ANNKE 4K UHD Dual-Light Mini Bullet Camera

Model: CS1EQ - User Manual

1. Product Overview

The ANNKE 4K UHD Dual-Light Mini Bullet Camera (Model CS1EQ) is a high-resolution surveillance camera designed for both indoor and outdoor use. It features advanced imaging capabilities, versatile night vision modes, and broad compatibility with various DVR systems, ensuring comprehensive security coverage.



The ANNKE 4K UHD Dual-Light Mini Bullet Camera, a compact and robust surveillance device.



Experience crystal-clear 4K Ultra HD resolution with a 16:9 broad vision, capturing wide and detailed scenes.



Illustration of the camera's Smart Dual-Light technology, showing 66ft color mode, 100ft IR mode, and automatic switching triggered by human or vehicle detection.



Diagram showing the camera's versatile 4-in-1 compatibility, supporting TVI, AHD, CVI, and CVBS video output signals.



Visualizing the 2.8mm wide-angle lens with a 127° diagonal field of view and F1.6 large aperture for enhanced light intake and clearer night vision.



Comparison showing the visual improvement when Wide Dynamic Range (WDR) is enabled, providing balanced exposure in challenging lighting conditions.



The camera submerged in water, demonstrating its IP67 weatherproof rating, ensuring durability against dust and water.

2. Package Contents

Please verify that all items are present and in good condition upon opening the package:

- 1x ANNKE 4K UHD Dual-Light Mini Bullet Camera (CS1EQ)
- 1x Mounting Screw Bag
- 1x User Manual for Camera

3. Specifications

Feature	Description

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Image Sensor	4K CMOS Image sensor
Video Resolution	3840 (H) × 2160 (V)
Signal System	PAL/NTSC
Video Output Modes	TVI/AHD/CVI/CVBS (switchable via BNC port)
Lens	2.8mm
Angle of View	Horizontal FOV: 108°, Vertical FOV: 59°, Diagonal FOV: 127°
Minimum Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), 0 Lux with IR
Supplement Light Type	White Light, IR
Supplement Light Range	IR: Up to 25 m (82 ft), White Light: Up to 20 m (66 ft)
Wide Dynamic Range	DWDR
Housing Material	Plastic
Color	White
Operating Power	DC 12V
Operating Temperature	-40 °F – 140 °F (-40 °C – 60 °C)
Weatherproof Rating	IP67
Dimensions	15.5 x 7.6 x 7.6 cm
Weight	220 g

4. Setup

4.1 Mounting the Camera

The ANNKE Mini Bullet Camera offers flexible mounting options for both wall and ceiling installations. Ensure the mounting surface is sturdy enough to support the camera.

- **Wall Mount:** Position the camera on a vertical surface, ensuring a clear field of view.
- **Ceiling Mount:** Install the camera on a horizontal overhead surface for downward surveillance.

Use the provided mounting screw bag to securely attach the camera to your chosen location. The flexible axis allows for easy adjustment of the camera's angle after installation.



Illustrates the flexible mounting options for the camera, including wall and ceiling installations for easy setup.

4.2 Power and Connectivity

Connect the camera to a stable DC 12V power source. The camera supports four switchable video output signals (TVI/AHD/CVI/CVBS) via its BNC port, making it compatible with a wide range of DVRs.

5. Operating Instructions

5.1 Night Vision Modes

The camera features three distinct night vision modes to adapt to various lighting conditions:

- **Smart Dual-Light Mode (Default):** This mode provides black and white night vision, which automatically switches to full-color imaging when human or vehicle motion is detected. This requires an ANNKE DVR with AI capabilities for optimal performance.
- **IR Night Vision:** Provides clear black and white images in complete darkness using infrared illumination, with a range of up to 25 meters (82 feet).
- **White Light Mode:** Utilizes built-in white light to provide full-color night vision, effective up to 20 meters (66 feet). This mode can also act as a deterrent.

5.2 Switching Video Output Signals

The camera's video output mode (TVI/AHD/CVI/CVBS) can be easily switched by controlling the tailwire button. Refer to your DVR's manual for the correct signal type to ensure compatibility.

5.3 Wide Dynamic Range (DWDR)

The Digital Wide Dynamic Range (DWDR) feature enhances image clarity in scenes with high contrast lighting, such as bright backlighting. It balances exposure to reveal details in both bright and dark areas of the image.

6. Maintenance

To ensure optimal performance and longevity of your ANNKE camera, follow these maintenance guidelines:

- **Cleaning:** Gently wipe the camera lens and housing with a soft, dry cloth. For stubborn dirt, use a slightly damp cloth and then dry thoroughly. Avoid abrasive cleaners or solvents.
- **Environmental Conditions:** The camera is rated IP67 weatherproof, designed to withstand temperatures from -40 °F to 140 °F (-40 °C to 60 °C). While robust, avoid direct exposure to extreme conditions beyond its specified operating range.
- **Cable Management:** Periodically inspect all cables for any signs of wear or damage. Ensure connections are secure and protected from environmental elements.

7. Troubleshooting

If you encounter issues with your camera, please refer to the following common troubleshooting steps:

- **No Image/Signal:**
  - Ensure the camera is properly powered (DC 12V).
  - Verify the video cable connection between the camera and the DVR.
  - Check if the video output signal (TVI/AHD/CVI/CVBS) matches your DVR's input. Use the tailwire button to switch if necessary.
- **Black and White Image (Daytime):**
  - This can occur if the camera is stuck in IR night vision mode. Ensure there is sufficient ambient light.
  - Check your DVR settings to ensure the camera's day/night mode is set to auto or color during the day.
  - If using Smart Dual-Light, ensure your DVR supports AI human/vehicle detection to trigger color mode.
- **Poor Picture Quality:**
  - Clean the camera lens to remove any dust or smudges.
  - Ensure the video cable is not damaged or too long, which can cause signal degradation.
  - Check your DVR's display settings and resolution.
  - Verify that the camera's signal output matches the DVR's input resolution capabilities.
- **Camera Not Responding:**
  - Perform a power cycle by disconnecting and reconnecting the power supply.
  - Ensure the power adapter is providing the correct voltage (DC 12V).

8. Warranty and Support

ANNKE is committed to providing reliable security solutions and excellent customer service.

- **After-Sale Support:** Our dedicated team is available to assist you with any product-related inquiries or issues.
- **Lifetime Technical Help:** ANNKE offers lifetime technical support for its products, ensuring you have assistance whenever needed.

- **Customer First Approach:** We strive to understand and meet your needs, providing solutions that enhance your security experience.

For further assistance, please visit the official ANNKE support website or contact our customer service team directly. Contact information can typically be found on the ANNKE brand store page or within your product packaging.

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