

DCSEC DC-AHD180CDVIRH

DCSEC 180 Degree Wide Angle Security Camera User Manual

Model: DC-AHD180CDVIRH | Brand: DCSEC

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your DCSEC 180 Degree Wide Angle Security Camera. Designed for both indoor and outdoor use, this 2MP 1080P camera offers a broad field of view, reducing the need for multiple cameras in a single area. Please read this manual thoroughly before using the product to ensure proper functionality and safety.



Figure 1: DCSEC 180 Degree Wide Angle Security Camera

PRODUCT FEATURES

- **180 Degree Wide Angle View:** Provides extensive coverage, potentially replacing multiple standard cameras.
- **2MP 1080P High Resolution:** Delivers clear and detailed video footage.
- **4-in-1 Compatibility:** Supports TVI, CVI, AHD, and Analog (CVBS) DVR systems.
- **Outdoor Housing:** Durable metal construction with IP66 waterproof rating for reliable outdoor performance.
- **IR Night Vision:** Equipped with 30pcs IR LEDs for clear night vision up to 80 feet.
- **Advanced DSP:** Ensures high image quality in various lighting conditions.

PRODUCT COMPONENTS

The DCSEC 180 Degree Wide Angle Security Camera includes the following key components:



Figure 2: Detailed view of camera components and features.

- **Metal Housing:** Robust and waterproof (IP66 rated) for outdoor durability.
- **30pcs IR LEDs:** Provide infrared illumination for night vision up to 80ft.
- **IR-Cut Filter:** Ensures crisper and clearer images by automatically switching between day and night modes.

- **1.7mm Lens:** Enables the 180-degree wide-angle view.
- **Sturdy Bracket:** Designed for secure wall mounting.
- **Video Output (BNC Connector):** For connecting to a DVR.
- **Power Port (DC 12V):** For connecting the power adapter (not included).
- **OSD Joystick:** Used to access and navigate the On-Screen Display menu for camera settings and mode adjustments.

SETUP AND INSTALLATION

1. Physical Installation

Choose a suitable location for your camera that provides the desired 180-degree coverage. Ensure the mounting surface is stable and can support the camera's weight. Use the provided sturdy bracket for secure wall mounting.



Figure 3: Example of camera wall mounting.

2. Cable Connection Scheme

Connect the camera to your DVR system following the diagram below. A DC12V 1A power adapter is required but not included with the camera.

CABLE CONNECTION SCHEME



Figure 4: Diagram illustrating camera to DVR connection.

1. Connect the BNC video output of the camera to a video input port on your DVR.
2. Connect a DC12V 1A power adaptor (not included) to the camera's power port.
3. Ensure your DVR is connected to a monitor with a VGA or HDMI interface for viewing.

3. Camera Working Mode Adjustment (OSD Control)

The camera's default mode is Analog CVBS (1200TVL) for broad compatibility. If you are using a High Definition DVR (AHD/CVI/TVI 1080P), you must change the camera's working mode to match your DVR type to achieve 1080P resolution. Use the OSD joystick for this adjustment.

CAMERA WORKING MODE ADJUSTMENT

180 DEGREE CVBS/CVI/AHD/TVI 4-IN-1 CAMERA



Figure 5: OSD joystick and mode adjustment options.

To change the camera working mode:

1. Press the middle of the OSD button to access the camera menu.
2. Navigate to **VIDEO SETTING**.
3. Change **HD** from CVBS to CVI/TVI/AHD according to your DVR type.
4. Change **STANDARD** from NTSC to 1080P 30 or 720P 30 according to your DVR type.
5. Select **APPLY & REBOOT** to save changes and restart the camera. This step is crucial.

OPERATING INSTRUCTIONS

Once installed and configured, the camera operates automatically, providing continuous surveillance. Its 180-degree wide-angle lens captures a broad area, minimizing blind spots.

Day and Night Vision

The camera features an automatic IR-Cut filter that switches between day (color) and night (black and white infrared) modes

based on ambient light conditions. The 30 IR LEDs activate in low light to provide clear night vision.

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Video 1: DCSEC 180 Degree Wide Angle CCTV Camera Day View. This video demonstrates the camera's wide field of view and image clarity during daytime conditions, showing a street with moving vehicles.

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Video 2: DCSEC 180 Degree Wide Angle Security Camera Night View. This video showcases the camera's infrared night vision capabilities, providing clear black and white footage of the same street scene at night.

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Video 3: DCSEC 180 Degree Wide Angle View Day & Night View. This video provides a combined demonstration of both day and night vision performance, highlighting the seamless transition and effective coverage.



Figure 6: Illustration of the 180-degree wide-angle coverage.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your security camera.

- **Cleaning:** Periodically clean the camera lens and housing with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the surface.
- **Cable Inspection:** Check all cable connections for any signs of wear, damage, or corrosion. Ensure they are securely connected.
- **Mounting Stability:** Verify that the camera remains securely mounted and that the bracket is not loose.
- **Software Updates:** While this is an analog camera, ensure your connected DVR's firmware is up-to-date for best compatibility and performance.

TROUBLESHOOTING

If you encounter issues with your camera, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No image on monitor/DVR	No power; Incorrect video mode; Loose cable connection.	Check power adapter connection. Adjust camera working mode via OSD to match DVR (AHD/CVI/TVI/CVBS). Ensure BNC cable is securely connected.
Poor image quality (blurry, distorted)	Incorrect video mode; Dirty lens; Cable interference.	Verify camera video mode matches DVR. Clean the camera lens. Use high-quality coaxial cables and ensure proper shielding.
Night vision not working or poor	Insufficient power; IR LEDs malfunction; Obstruction.	Ensure stable 12V power supply. Check for physical obstructions blocking the IR LEDs. Contact support if LEDs are not illuminating.
OSD menu not appearing	OSD joystick not pressed correctly; Camera not powered.	Ensure camera is powered. Press the middle of the OSD joystick firmly.

SPECIFICATIONS

Feature	Detail
Model Number	DC-AHD180CDVIRH
Resolution	2MP (1080P)
Viewing Angle	180 Degrees
Connectivity	BNC (TVI/CVI/AHD/Analog CVBS)
Power Source	DC12V 1A (Power Adapter Not Included)
Night Vision Range	Up to 80 Feet (with 30 IR LEDs)
Material	Metal Housing
Ingress Protection Rating	IP66 (Waterproof)
Dimensions (L x W x H)	5.31 x 4.53 x 4.53 inches
Item Weight	2.79 pounds

Feature	Detail
Recommended Use	Indoor/Outdoor

WARRANTY AND SUPPORT

For warranty information or technical support, please contact the manufacturer, Shenzhen D&C Security Technology Co.,Ltd, or your point of purchase. Keep your purchase receipt as proof of purchase for warranty claims.
Manufacturer: Shenzhen D&C Security Technology Co.,Ltd
For additional resources and product information, you may visit the [DCSEC Store on Amazon](#).