Real HD 5MP Full Color Night Vision Dome

Real HD 5MP Full Color Night Vision Dome TVI CCTV Security Camera User Manual

Model: 5MP Full Color Night Vision Dome

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Real HD 5MP Full Color Night Vision Dome TVI CCTV Security Camera. This camera is designed for both indoor and outdoor surveillance, offering high-definition video capture with advanced night vision capabilities. Please read this manual thoroughly before installation and operation to ensure proper functionality and safety.

Product Features

- **5 Megapixel High Definition:** Captures clear and detailed video at 5MP resolution.
- **Full Color Night Vision:** Equipped with visible white LED lights for 24/7 full-color imaging even in complete darkness, unlike traditional IR night vision.
- **Wide Viewing Angle:** Features a 2.8mm fixed lens providing a 100-degree field of view (FOV) to cover large areas.
- **Multi-Format Compatibility (4-in-1):** Supports HD-TVI, HD-CVI, AHD, and 960H (1000TVL) video formats, making it compatible with most brand CCTV systems.
- **DIP Switch for Easy Format Switching:** Allows for simple switching of video output formats (TVI/CVI/AHD/CVBS).
- **Weatherproof Design:** IP66 weather-rated full metal housing suitable for both indoor and outdoor use, operating in temperatures from -40°F to 140°F.
- **DVR Compatibility: ONLY compatible with 5MP or 8MP 4K DVRs.**Not compatible with 4MP or lower resolution DVRs.

Package Contents

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

- 1 x Real HD 5MP Full Color Night Vision Dome TVI CCTV Security Camera
- Mounting Screws and Plugs
- Quick Start Guide (refer to this manual for detailed instructions)

Note: Power adapter and DVR are sold separately and are required for camera operation.

Setup and Installation

1. Choosing a Location

Select a suitable location for your camera, considering the desired viewing area, power source accessibility, and cable routing. The camera is designed for both indoor and outdoor use due to its IP66 weatherproof rating.

2. Mounting the Camera

Securely mount the camera to a wall or ceiling using the provided screws and plugs. Ensure the mounting surface is strong enough to support the camera's weight.



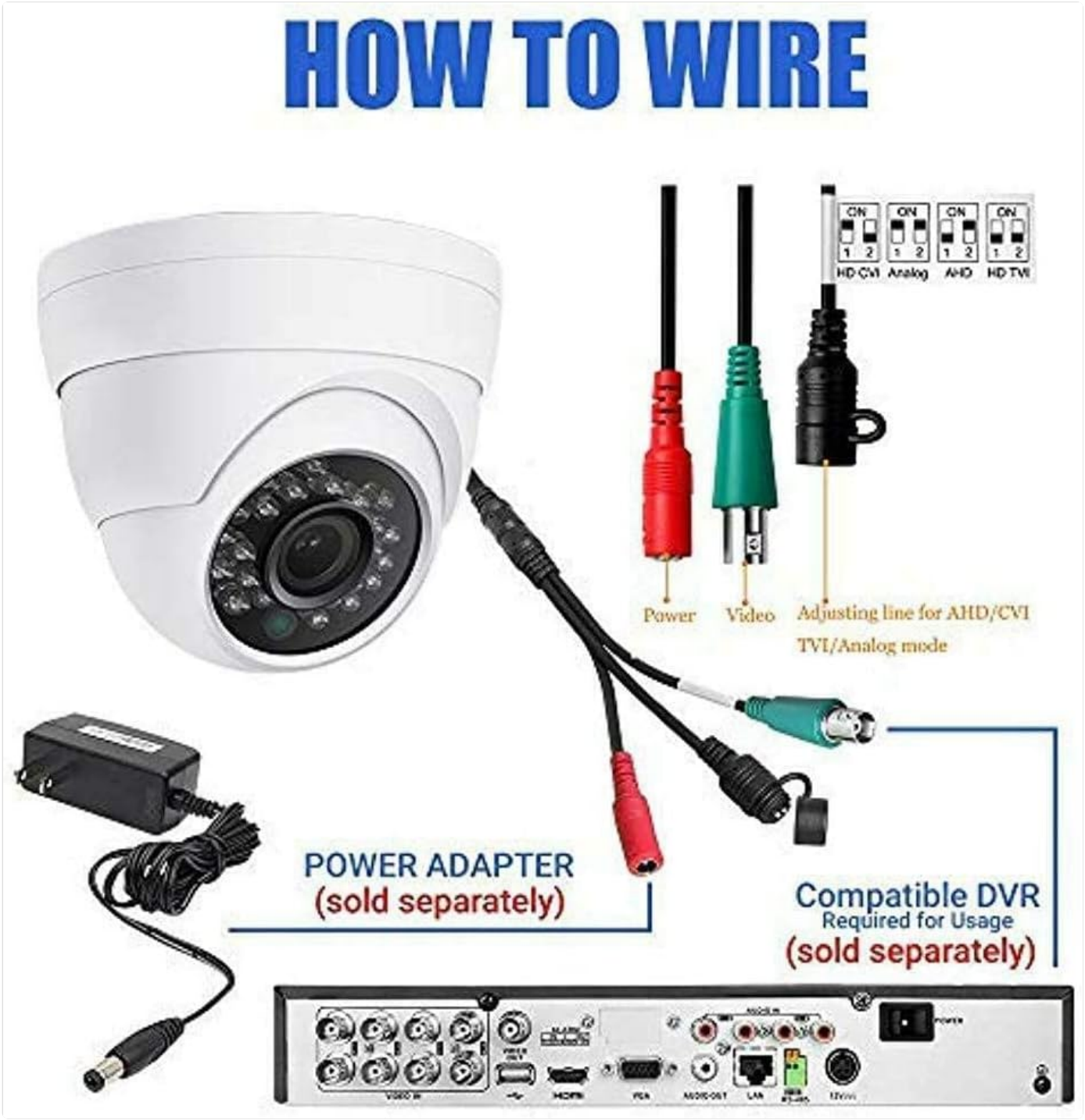
This image illustrates the flexible mounting and adjustment options of the dome camera, including its 180-degree tile rotation, 180-degree pan rotation, and 360-degree horizontal rotation, allowing for precise aiming after installation. It also shows the camera's main body and two rings for mounting.



This technical drawing provides precise dimensions of the dome camera, indicating a height of 98mm and a diameter of 119mm, which is useful for planning installation space.

3. Wiring the Camera

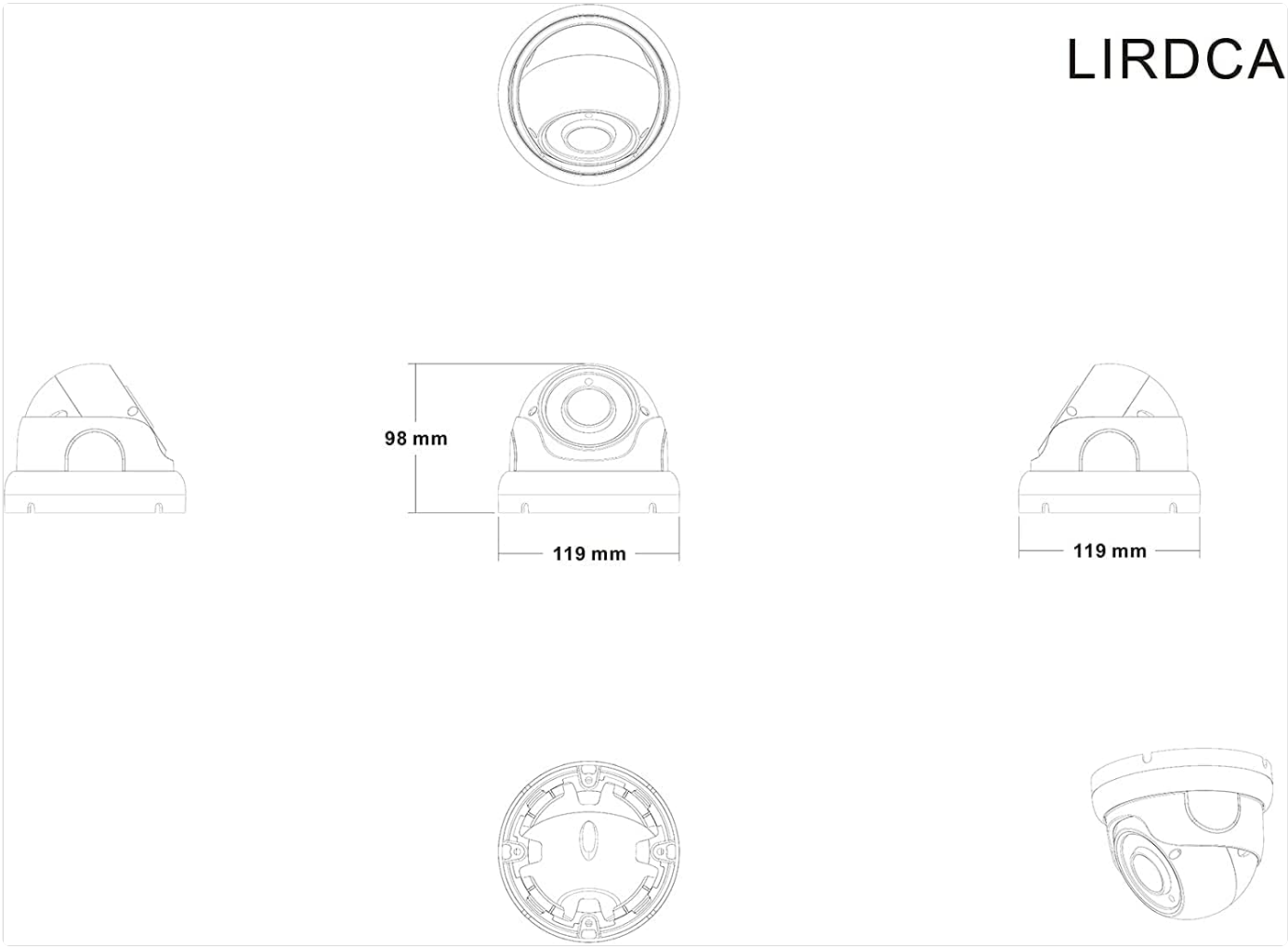
Connect the camera to your DVR system. This camera requires a 12V DC power supply (sold separately) and a compatible DVR (sold separately).



This diagram illustrates the wiring process for the security camera. It shows the connections for the power adapter (sold separately) and the video cable to a compatible DVR (sold separately). An adjusting line is also depicted for switching between AHD/CVI/TVI/Analog video modes.

4. Switching Video Output Format (DIP Switch)

This camera supports multiple video formats (TVI, CVI, AHD, CVBS/960H). Use the DIP switch located on the camera's cable to select the correct video format that matches your DVR. Refer to the diagram below for switch settings.



This image demonstrates the camera's 4-in-1 compatibility, showing how it can connect to various DVR types: 960H Analog/CVBS, TVI, CVI, and AHD. The lower part of the image details the DIP switch settings required to configure the camera for each specific video format (HD TVI, HD CVI, AHD, Analog).

DIP Switch Settings for Video Format Selection

Video Format	DIP Switch Position (1-2)
HD TVI	ON-ON
HD CVI	OFF-ON
AHD	ON-OFF
CVBS (Analog/960H)	OFF-OFF

Ensure the camera's video format matches your DVR's input format for proper operation. Incorrect settings may result in no video signal.

Operating Instructions

1. Powering On

Once wired correctly and connected to a compatible DVR, apply power to the camera via the 12V DC power adapter. The camera will power on automatically.

2. Viewing Live Feed

Access the live video feed through your connected DVR system. Refer to your DVR's manual for specific instructions on

viewing camera channels.

3. Full Color Night Vision

This camera utilizes visible white LED lights to provide full-color night vision, offering a clearer and more detailed image than traditional infrared (IR) night vision in low-light or total darkness conditions. The white LEDs will activate automatically when light levels drop.



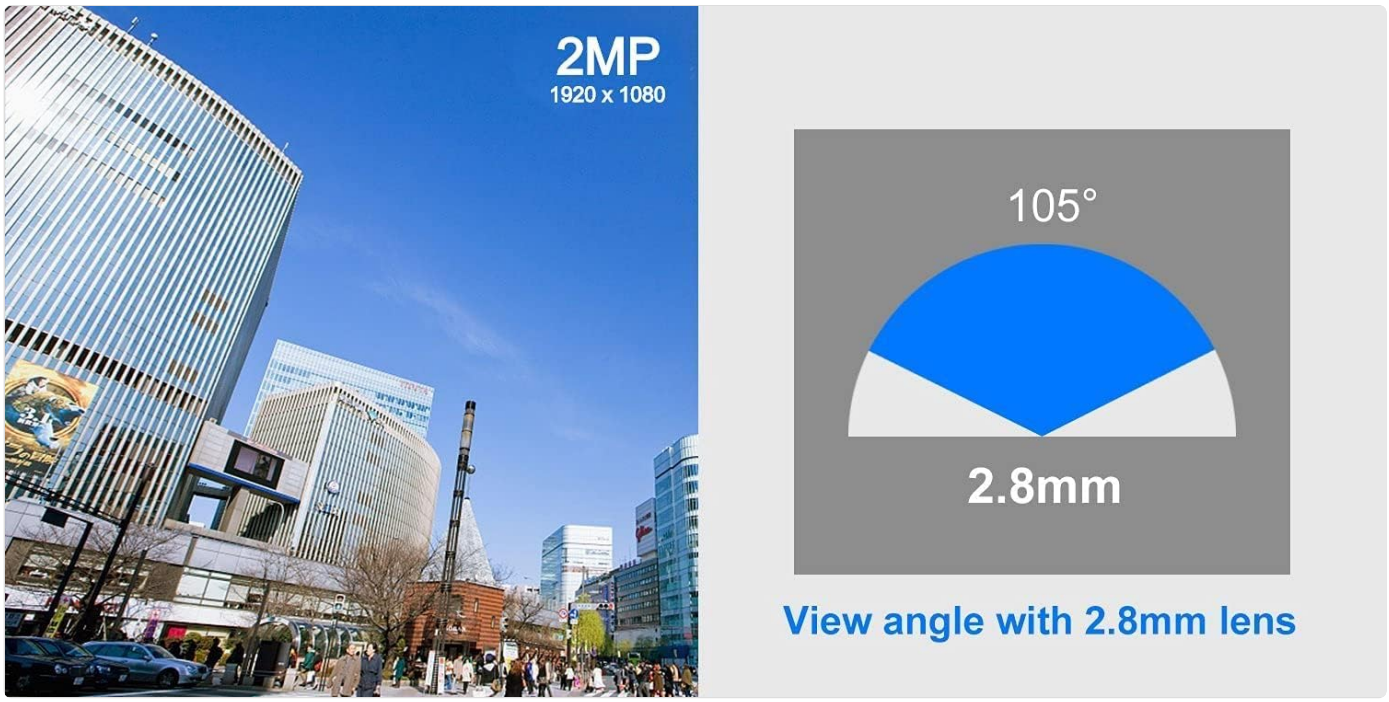
This image shows the security camera actively illuminating a backyard scene at night using its visible white LED lights, enabling full-color night vision. This feature allows for detailed color capture even in low-light environments.



This comparison highlights the difference between Full Time Color Night Vision (top) and traditional IR Night Vision (bottom). The top image displays a vibrant, colored street scene at night, while the bottom image shows the same scene in black and white with less detail, demonstrating the superior clarity and color retention of the camera's full-color night vision.

4. Wide Viewing Angle

The 2.8mm fixed lens provides a wide 100-degree field of view, suitable for monitoring broad areas such as large rooms, yards, or parking lots.



This image illustrates the wide viewing angle provided by the camera's 2.8mm lens, showing a broad outdoor scene. A diagram next to it visually represents the 105-degree field of view, indicating the extensive area the camera can cover.

5. Motion Detection and Remote View

This security camera does not have built-in recording or remote view features. These functionalities are dependent on your connected DVR system. Ensure your 5MP or 8MP DVR supports motion detection and remote viewing, and configure these features through your DVR's interface.

Maintenance

- **Cleaning:** Periodically clean the camera lens with a soft, lint-free cloth to ensure clear image quality. Avoid abrasive cleaners.
- **Cable Inspection:** Regularly check all cable connections for wear, damage, or loose connections, especially for outdoor installations.
- **Environmental Checks:** For outdoor cameras, ensure no debris, spiderwebs, or obstructions are blocking the camera's view or ventilation.

Troubleshooting

Problem	Possible Cause	Solution
No video signal / Black screen	Incorrect DVR compatibility Incorrect video format selected (DIP switch) Loose or faulty cable connection No power to camera	Ensure DVR is 5MP or 8MP 4K compatible. Verify DIP switch setting matches your DVR's format. Check all video and power cable connections. Ensure power adapter is connected and functional.
Poor image quality / Blurry video	Dirty camera lens Improper focus (if adjustable, though this model has fixed lens) Insufficient lighting (for non-color night vision modes)	Clean the camera lens. Ensure adequate lighting for optimal performance, especially if not using full color night vision.

Problem	Possible Cause	Solution
Night vision not working	Insufficient power LEDs obstructed	Verify stable 12V DC power supply. Ensure nothing is blocking the white LED lights on the camera.
Motion detection or remote view not functioning	Camera does not have these features inherently DVR settings not configured	These features rely on your DVR. Configure them within your DVR's software/settings. Ensure your DVR model supports these functions.

Specifications

Feature	Detail
Model	5MP Full Color Night Vision Dome
Video Capture Resolution	5 MP
Connectivity Technology	Wired
Compatible Devices	DVR (5MP or 8MP 4K only)
Power Source	12V DC
Viewing Angle	100 Degrees (2.8mm Fixed Lens)
Night Vision Range	65 Feet (with Visible White LED Lights)
Frame Rate	12.5fps
Material	Full Metal Housing
International Protection Rating	IP66 (Weatherproof)
Operating Temperature	-40°F ~ 140°F
Item Weight	14 ounces
Package Dimensions	4.45 x 4.41 x 3.66 inches
Manufacturer	Real HD

Warranty and Support

For warranty information and technical support, please contact the seller directly. Real HD strives to provide reliable products and responsive after-sales service. You can typically find seller contact information on your purchase receipt or through the platform where the product was purchased.
For additional resources and product information, you may visit theReal HD Store on Amazon.

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