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Real HD HIK-DS-2CD2386G2-IU

Hikvision DS-2CD2386G2-IU 4K 8MP Acusense DarkFighter Turret PoE IP Camera User Manual

Model: HIK-DS-2CD2386G2-IU

1. Product Overview

The Hikvision DS-2CD2386G2-IU is a high-performance 4K 8MP Acusense DarkFighter Turret PoE IP Camera designed for robust outdoor surveillance. It features advanced imaging technology for clear video in various lighting conditions, efficient video compression, and intelligent event detection capabilities. Its durable, weather-resistant design ensures reliable operation in challenging environments.



Figure 1.1: Front view of the Hikvision DS-2CD2386G2-IU Turret IP Camera, showcasing its compact and durable design.

Key features include 8MP resolution for high-quality imaging, DarkFighter technology for excellent low-light performance, and H.265+ compression for efficient storage. The camera also boasts 120 dB true WDR technology for clear imaging against strong backlight, 3D DNR for digital noise reduction, and IP67 water and dust resistance for outdoor durability.

2. Specifications

Category	Specification
Image Sensor	1/2" Progressive Scan CMOS
Lens	2.8 mm, horizontal: 110.7°, vertical: 59.1°, diagonal: 131°
Lens Mount	M16

Category	Specification
Day & Night	IR cut filter
Video Compression	Main stream: H.265/H.264; Sub stream: H.265/H.264/MJPEG; Third stream: H.265/H.264
Max. Resolution	3840 × 2160 (4K)
Main Stream Frame Rate	20 fps (3840 × 2160), 25/30 fps (3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)
Image Enhancement	BLC/3D DNR/HLC, 120 dB true WDR
Network Storage	micro SD/SDHC/SDXC card (128GB), NAS (NFS, SMB/CIFS), ANR
Protocols	TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour, SSL/TLS
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Smart Event Detection	Line crossing, intrusion, unattended baggage, object removal, face detection, scene change
Operating Conditions	-30 °C to +60 °C (-22 °F to 140 °F)
Power Supply	12 VDC, PoE (802.3af, class 3)
IR Range	Up to 30 m (100 ft)
Protection Level	IP67 Water and Dust Resistant
Material	Metal
Item Weight	2.09 pounds



Figure 2.1: The camera's IP67 rating ensures protection against water and dust, making it suitable for outdoor use.

3. Setup Guide

3.1 Physical Installation

Before installation, ensure you have all necessary components: the camera, mounting screws, and a network cable (PoE recommended). Choose a suitable mounting location that provides the desired field of view and is within range of your network infrastructure.

1. **Prepare the Mounting Surface:** Drill pilot holes according to the mounting template (if provided) or the camera's base.
2. **Secure the Camera:** Attach the camera base firmly to the mounting surface using the provided screws. Ensure it is stable and securely fastened.
3. **Adjust Camera Angle:** Loosen the adjustment screws to pan, tilt, and rotate the camera lens to achieve the desired viewing angle. Tighten the screws once adjusted.

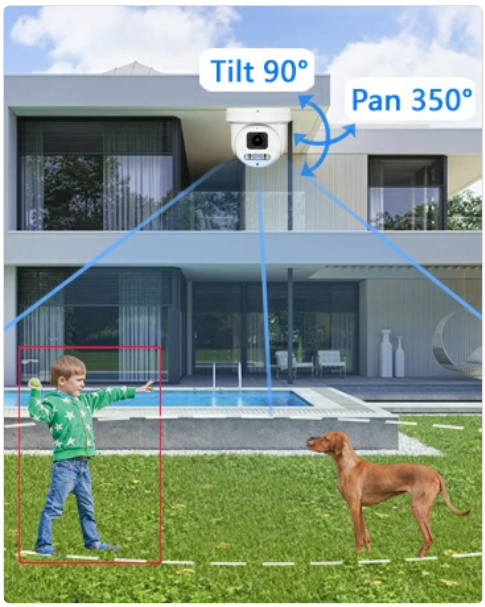


Figure 3.1: A technician performing physical installation of a security camera, demonstrating proper mounting procedures.

3.2 Network Connection

The camera supports Power over Ethernet (PoE) for simplified installation, allowing both power and data transmission over a single Ethernet cable. Alternatively, a 12V DC power adapter can be used with a separate network connection.

1. **Connect Ethernet Cable:** Plug one end of an Ethernet cable into the camera's RJ45 port and the other end into a PoE-enabled switch or NVR. If not using PoE, connect to a standard network switch and provide 12V DC power separately.
2. **Power On:** Once connected, the camera will power on automatically if using PoE. If using a separate power adapter, plug it into a power outlet.
3. **Initial Configuration:** Use the Hik-Connect app, iVMS-4200 client software, or a web browser to discover and activate the camera. Follow the on-screen prompts to set a strong password and configure network settings (DHCP is usually default).

4. Operation

4.1 Accessing the Camera

You can access and manage your camera through various platforms:

- **Web Browser:** Enter the camera's IP address into a web browser (Chrome is recommended for full compatibility). Log in with your credentials.
- **Client Software:** Use iVMS-4200 (for PC) or Hik-Connect (for mobile devices) to add and manage the camera.
- **NVR:** Connect the camera to a compatible Hikvision NVR for centralized recording and management.

4.2 Image Settings

Optimize your video feed by adjusting image parameters via the camera's web interface or client software:

- **Brightness, Contrast, Saturation, Sharpness:** Fine-tune these settings for optimal visual clarity.
- **WDR (Wide Dynamic Range):** Enable 120 dB true WDR for clear images in scenes with strong backlight or high contrast.
- **3D DNR (Digital Noise Reduction):** Reduce image noise, especially in low-light conditions, for a cleaner picture.
- **BLC (Backlight Compensation) / HLC (Highlight Compensation):** Adjust for areas that are too dark or too bright due to strong light sources.

- **Day/Night Switch:** Configure the camera to automatically switch between day (color) and night (black and white with IR) modes, or set a schedule.



Figure 4.1: Comparison demonstrating the superior low-light imaging capabilities of 4K DarkFighter Technology compared to standard cameras.

4.3 Smart Features (Acusense)

The Acusense technology allows for intelligent detection and filtering of false alarms, focusing on human and vehicle events.

- **Line Crossing Detection:** Triggers an alarm when an object crosses a pre-defined virtual line.
- **Intrusion Detection:** Alerts when an object enters or exits a pre-defined virtual region.
- **Unattended Baggage Detection:** Detects objects left in a specified area for a certain duration.
- **Object Removal Detection:** Triggers an alarm if an object is removed from a specified area.
- **Face Detection:** Identifies human faces within the camera's field of view.
- **Scene Change Detection:** Alerts if the camera's view is obstructed or tampered with.



Figure 4.2: Illustration of the Acusense feature, highlighting its ability to distinguish between human/vehicle events and other movements like pets, reducing false alarms.

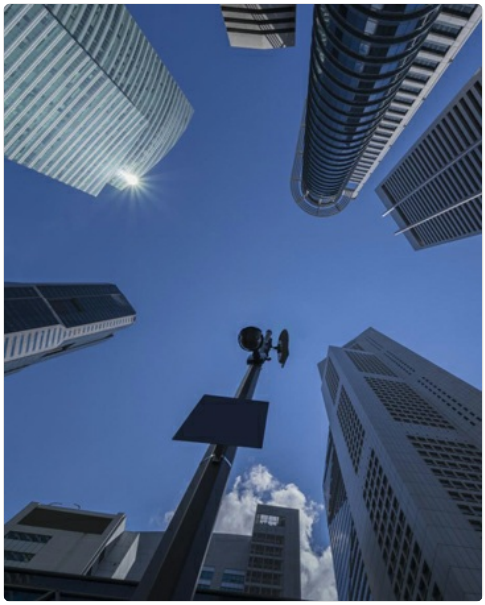


Figure 4.3: Example of accurate alarm notifications for human and vehicle entry, avoiding triggers from irrelevant objects.

5. Maintenance

Regular maintenance ensures optimal performance and longevity of your camera.

- **Lens Cleaning:** Gently wipe the camera lens with a soft, clean cloth. For stubborn dirt, use a mild lens cleaning solution. Avoid abrasive materials that could scratch the lens.
- **Housing Inspection:** Periodically check the camera housing for any signs of damage, loose screws, or corrosion, especially in outdoor installations.
- **Firmware Updates:** Check the manufacturer's website for the latest firmware updates. Updating firmware can improve performance, add new features, and fix bugs. Follow the update instructions carefully.
- **Storage Management:** If using a local SD card, periodically review and manage recorded footage to ensure sufficient storage space.
- **Network Connectivity:** Ensure stable network connection. Check cable integrity and network device status.

6. Troubleshooting

This section addresses common issues you might encounter with your camera.

Problem	Possible Cause	Solution
No video feed	No power, network issue, incorrect IP address.	Check power supply (PoE or 12V DC). Verify network cable connection. Ensure camera is on the same network subnet as your viewing device. Use SADPTool to find camera IP.
Poor image quality (blurry, dark)	Dirty lens, improper focus, low-light settings, WDR/DNR not optimized.	Clean the lens. Adjust focus if applicable. Check Day/Night mode. Enable/optimize WDR and 3D DNR settings in the camera interface.
Frequent false alarms	Motion detection sensitivity too high, non-human/vehicle objects triggering.	Adjust motion detection sensitivity. Utilize Acusense features (human/vehicle filtering) to reduce triggers from pets, leaves, etc. Refine detection zones.
Cannot access camera via web browser	Browser incompatibility, plugin issues, incorrect credentials.	Use Google Chrome for best compatibility. Ensure no browser extensions are interfering. Clear browser cache. Double-check username and password.
Firmware update issues	Incorrect firmware version, interrupted update.	Ensure you download the correct firmware for your specific model from the official source. Do not interrupt the update process. If issues persist, contact support.

7. Warranty and Support

This camera comes with a **One Year Warranty** covered by the seller. For technical support, troubleshooting assistance, or warranty claims, please contact the seller or refer to the official Real HD support channels.
For additional resources and product information, visit the Real HD Store on Amazon.

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