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Hikvision DS-2CD2385G1-I

Hikvision DS-2CD2385G1-I 8MP 4K Network Camera User Manual

Model: DS-2CD2385G1-I
Brand: Hikvision

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Hikvision DS-2CD2385G1-I 8MP 4K Powered-by-DarkFighter IR Fixed Turret Network Camera. Please read this manual thoroughly before using the product to ensure proper setup and optimal performance. Retain this manual for future reference.

2. Product Overview

The Hikvision DS-2CD2385G1-I is an advanced 8MP 4K network camera designed for robust surveillance applications. It features Hikvision's Powered-by-DarkFighter technology for excellent low-light performance and H.265+ compression for efficient video storage.

Key Features:

- High quality imaging with 8 MP resolution.
- Excellent low-light performance via Powered-by-DarkFighter technology.
- Efficient H.265+ compression technology, supporting H.265, H.264+, H.264.
- Clear imaging against strong backlight due to 120 dB true WDR technology.
- 3D DNR (Digital Noise Reduction) for cleaner images.
- Water and dust resistant (IP67) with a robust full metal structure.
- Built-in microSD/SDHC/SDXC card slot, supporting up to 128 GB.
- Supports Power over Ethernet (PoE) for simplified installation.
- Advanced smart features including line crossing detection, intrusion detection, and face detection.

Product Components:



Figure 2.1: Front view of the Hikvision DS-2CD2385G1-I 8MP 4K Turret Network Camera, showcasing its compact design and lens.



Figure 2.2: Contents of the Hikvision DS-2CD2385G1-I camera package, including the camera unit, quick start guide, drill template, and mounting accessories.

3. Setup and Installation

Proper installation is crucial for the optimal performance and longevity of your camera. This section guides you through the physical and initial network setup.

3.1 Physical Installation

1. **Choose a Mounting Location:** The camera is designed for ceiling mount installation and is IP67 rated for outdoor use. Select a location that provides the desired field of view (110.7° horizontal FOV, 360° viewing angle) and is within reach of your network cable.
2. **Prepare the Mounting Surface:** Use the provided drill template to mark the drilling points for the mounting screws and cable routing hole.



Figure 3.1: Example of a drill template for marking mounting holes and cable routing. (Refer to the physical template included in your package for exact details).

3. **Route Cables:** Route the Ethernet cable through the ceiling or wall as per your installation plan. The camera supports Power over Ethernet (PoE), simplifying power and data transmission with a single cable.
4. **Secure the Camera:** Attach the camera base to the prepared surface using the appropriate screws. Ensure the camera is securely fastened to prevent movement.
5. **Adjust Camera Angle:** Once mounted, adjust the camera's turret to achieve the desired monitoring angle.

3.2 Initial Network Setup

Before adding the camera to your recording software or NVR, it must be activated and configured on your network.

1. **Connect to Network:** Connect the camera to your network via the RJ45 10M/100M self-adaptive Ethernet port.
2. **Activate the Camera:** For first-time setup, use Hikvision's SADP (Search Active Devices Protocol) tools to activate the camera. This tool helps discover Hikvision devices on your network and allows you to set a strong password for the camera.
3. **Configure IP Address:** Assign a static IP address or ensure the camera obtains an IP address via DHCP.
4. **Access via Web Browser:** Once activated and configured, you can access the camera's web interface by entering its IP address into a web browser for further settings adjustments.

4. Operation

This section covers the primary operational aspects of your Hikvision network camera.

4.1 Video Monitoring and Recording

- **High Resolution:** The camera supports a maximum resolution of 3840 × 2160 (4K) at 20 fps, providing highly detailed video.



Figure 4.1: Visual comparison demonstrating the superior detail of 8MP HD resolution compared to 4MP.

- **Night Vision:** Equipped with IR illumination, the camera provides clear night vision up to 100 feet (30 meters). Powered-by-DarkFighter technology enhances low-light performance, capturing color images in extremely dim conditions.
- **Image Enhancement:** Features like BLC (Backlight Compensation), 3D DNR (Digital Noise Reduction), HLC (Highlight Compensation), and WDR (Wide Dynamic Range) ensure optimal image quality in various lighting conditions.
- **Local Storage:** Utilize the built-in microSD/SDHC/SDXC slot for local video storage, supporting cards up to 128 GB.
- **Network Storage:** The camera supports network-attached storage (NAS) via NFS, SMB/CIFS protocols, and ANR (Automatic Network Replenishment) for reliable recording.

4.2 Smart Features

The camera includes advanced smart features for enhanced security and monitoring:

- **Line Crossing Detection:** Triggers an alarm when objects cross a pre-defined virtual line.
- **Intrusion Detection:** Detects when objects enter or exit a pre-defined virtual region.
- **Unattended Baggage Detection:** Alerts when objects are left in a specified area.
- **Object Removal Detection:** Alerts when objects are removed from a specified area.
- **Face Detection:** Identifies human faces within the scene.

- **Scene Change Detection:** Detects significant changes in the camera's field of view, such as tampering or obstruction.
- **Basic Events:** Motion detection, video tampering alarm, and exception alerts (network disconnected, IP address conflict, illegal login, HDD full/error).

4.3 Audio Capabilities

The camera supports one-way audio, allowing for audio input to be captured and transmitted with the video stream. This feature is useful for monitoring audio in the surveillance area.



Figure 4.2: Illustration of one-way audio support, showing how audio can be captured and monitored remotely via a smartphone application.

5. Maintenance

Regular maintenance ensures the longevity and consistent performance of your camera.

- **Cleaning:** Periodically clean the camera lens and housing with a soft, damp cloth. Avoid abrasive cleaners that could

scratch the lens or damage the finish.

- **Weather Resistance:** The camera is IP67 rated, providing protection against dust and water immersion. However, ensure all connections are properly sealed during installation to maintain this rating.



Figure 5.1: The camera's IP67 rating ensures continued operation in various weather conditions, including rain and snow.

- **Firmware Updates:** Regularly check for and apply firmware updates provided by Hikvision. Firmware updates often include performance improvements, bug fixes, and security enhancements.
- **SD Card Longevity:** If using a microSD card for local storage, be aware that continuous recording can lead to wear and tear. Consider using a high-endurance SD card designed for surveillance applications to maximize its lifespan.

6. Troubleshooting

This section addresses common issues you might encounter and provides solutions.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No video feed / Camera offline	Network cable disconnected, incorrect IP address, power issue, camera not activated.	Check Ethernet cable connection. Verify camera's IP address and network settings. Ensure PoE or 12V power supply is active. Use SADP tools to activate if new or reset.
Poor image quality (blurry, grainy)	Dirty lens, improper focus, insufficient lighting, high noise.	Clean the lens. Adjust image settings (brightness, contrast, sharpness, WDR, 3D DNR) via web interface. Ensure adequate lighting or verify IR functionality at night.
Camera reboots frequently	Unstable power supply, firmware issue, overheating.	Ensure stable power supply (PoE switch or adapter). Check for and apply the latest firmware updates. Ensure camera is in a well-ventilated area.
SD card recording issues	SD card full, corrupted, or not high-endurance.	Format the SD card. Replace with a high-endurance SD card if frequent issues persist. Check recording schedule settings.
Smart features not working	Incorrect configuration, environmental factors.	Review the configuration settings for the specific smart feature in the web interface. Ensure the environment meets the detection criteria (e.g., sufficient light, clear view).

7. Specifications

Detailed technical specifications for the Hikvision DS-2CD2385G1-I camera.

Feature	Detail
Image Sensor	1/2" Progressive Scan CMOS
Min. Illumination	Color: 0.008 Lux @ (F1.2, AGC ON), 0.014 Lux @ (F1.6, AGC ON)
Lens	2.8 mm, horizontal FOV: 110.7°, vertical FOV: 59.1°, diagonal FOV: 131°
Aperture	F1.6
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 (8 MP)
Frame Rate (Main Stream)	50Hz: 20 fps (3840 × 2160), 25 fps (3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720) 60Hz: 20 fps (3840 × 2160), 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 (128G), NAS (NFS, SMB/CIFS), ANR

Feature	Detail
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
API	ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, Ehome
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
On-board Storage	Built-in micro SD/SDHC/SDXC slot, up to 128 GB
Smart Event	Line crossing detection, intrusion detection, unattended baggage detection, object removal detection, face detection, scene change detection
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
Ingress Protection	IP67
Material	Full metal materials
Power Supply	PoE (802.3af) or 12 VDC
Power Consumption	Max. 9 W
Dimensions (L x W x H)	Approx. 4.9 x 4.9 x 5.4 inches (12.4 x 12.4 x 13.7 cm)
Weight	Approx. 1.5 pounds (0.68 kg)
Operating Temperature	-22°F to 140°F (-30°C to 60°C)

8. Warranty and Support

For warranty information, please refer to the warranty card included with your product or contact your authorized Hikvision dealer. For technical support, firmware upgrades, or any operational questions not covered in this manual, please contact the seller or Hikvision customer support directly.
It is recommended to keep your purchase receipt as proof of purchase for warranty claims.

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