Hikvision KIPDS2CD2683G1IZS

Hikvision 8 Megapixel (4K) IP Bullet Camera User Manual

Model: KIPDS2CD2683G1IZS

1. Product Overview

The Hikvision DS-2CD2683G1-IZS is an advanced 8 Megapixel (4K) IP bullet camera designed for robust outdoor surveillance. It features a motorized vari-focal lens, extended infrared night vision, and comprehensive image enhancement technologies to deliver high-quality video in various lighting conditions.

This camera supports Power over Ethernet Plus (PoE+) for simplified installation and includes integrated video analytics for intelligent monitoring. Its durable metal construction and IP67 rating ensure reliable performance in challenging environments.



Figure 1: Front view of the Hikvision 8 Megapixel IP Bullet Camera, showing the lens, IR illuminators, and the Hikvision logo on the side. The mounting bracket is visible at the rear.

2. Setup and Installation

2.1 Package Contents

- Hikvision DS-2CD2683G1-IZS IP Bullet Camera
- Installation accessories (screws, wall plugs)
- Quick Start Guide (not included in this manual)

2.2 Physical Installation

The camera is designed for outdoor use with an IP67 protection rating and is suitable for ceiling mounting. Ensure the mounting surface is strong enough to support the camera's weight (approximately 1.33 kg).

1. **Mounting Location:** Select a location that provides the desired field of view and is within reach of network cabling.
2. **Drilling:** Use the provided mounting template (if applicable) to mark and drill holes for the mounting screws.
3. **Secure the Camera:** Attach the camera's base securely to the mounting surface using appropriate screws and anchors.
4. **Adjust Angle:** Loosen the adjustment screws on the camera body to set the desired viewing angle, then tighten them to secure the position.

2.3 Power and Network Connection

The camera supports PoE+ (802.3at) for power and data transmission over a single Ethernet cable. Alternatively, it can be powered by a 12 VDC power supply (not included).

- **PoE+ Connection:** Connect an Ethernet cable from a PoE+ enabled switch or NVR to the camera's Ethernet port.
- **12 VDC Connection:** If not using PoE+, connect a 12 VDC power adapter to the camera's power input.
- **Network Connectivity:** The camera connects via wired Ethernet. Wireless (Wifi) communication technology is listed in specifications, but primary connectivity is wired. Ensure your network provides a stable connection.

2.4 Initial Configuration

After physical installation and power-up, the camera requires network configuration. This typically involves using Hikvision's SADP (Search Active Devices Protocol) tool or accessing the camera's web interface via its IP address.

- **IP Address Assignment:** The camera will obtain an IP address via DHCP by default, or you can assign a static IP.
- **Web Interface Access:** Open a web browser and enter the camera's IP address to access its configuration interface.
- **Account Setup:** Create a strong password for the administrator account upon first access.
- **Hik-Connect Platform:** The camera is compatible with the Hik-Connect P2P platform for remote access and management. Refer to the Hik-Connect application guide for setup details.

3. Operating the Camera

3.1 Video Monitoring

Access live video streams through the camera's web interface, Hik-Connect app, or a compatible NVR/VMS (Video Management System).

- **Resolution:** The camera provides a maximum resolution of 8 Megapixel (3840 x 2160) at 30 frames per second.
- **Image Enhancement:** Features like WDR (120 dB), BLC, 3D DNR, and HLC optimize image quality in challenging lighting conditions.
- **Night Vision:** The 50 meters IR EXIR technology ensures clear black-and-white video in complete darkness.

3.2 Lens Control

The camera features a motorized vari-focal lens (2.8 mm - 12 mm) allowing for remote adjustment of the field of view and focus.

- **Zoom:** Adjust the focal length to zoom in or out, changing the angle of view from 105° (wide) to 34.5° (telephoto).
- **Focus:** The camera supports auto-focus after zoom adjustment, ensuring a clear image.

3.3 Recording and Storage

The camera supports local storage via a microSD card (up to 128 GB, not included) and network recording to an NVR or NAS.

- **Compression:** Utilizes H.265+, H.265, and H.264 video compression formats to optimize storage space while maintaining video quality.
- **Recording Modes:** Configure continuous recording, motion-triggered recording, or scheduled recording via the web interface or NVR.

3.4 Audio and Alarm Functions

The camera is equipped with one audio input and one audio output, as well as one alarm input and one alarm output.

- **Audio:** Connect an external microphone to the audio input for sound monitoring and a speaker to the audio output for two-way audio (if supported by connected devices).
- **Alarms:** Connect external sensors (e.g., door contacts) to the alarm input to trigger events. The alarm output can be used to activate external devices (e.g., siren, light) upon detection.

3.5 Video Analytics

The camera includes integrated video analytics for enhanced security and monitoring capabilities. These features can be configured via the camera's web interface.

- **Tampering Detection:** Alerts if the camera is obstructed or moved.
- Other analytics may include line crossing detection, intrusion detection, etc., depending on firmware version.

4. Maintenance

4.1 Cleaning

Regular cleaning helps maintain optimal image quality.

- **Lens:** Gently wipe the lens with a soft, clean cloth. For stubborn dirt, use a lens cleaning solution.
- **Camera Body:** Wipe the camera body with a damp cloth. Avoid harsh chemicals or abrasive cleaners.

4.2 Firmware Updates

Periodically check the Hikvision official website for firmware updates. Firmware updates can provide new features, performance improvements, and security enhancements.

- **Backup Configuration:** Before updating, back up the camera's configuration settings.
- **Follow Instructions:** Always follow the specific firmware update instructions provided by Hikvision to avoid damaging the device.

4.3 Storage Management

If using a microSD card for local storage, monitor its capacity and health.

- **Format SD Card:** Format the microSD card periodically through the camera's web interface to maintain performance.
- **Data Retention:** Configure recording settings to manage how long footage is retained on the SD card before being overwritten.

5. Troubleshooting

5.1 No Power

- **Check Power Source:** Ensure the 12 VDC power adapter is correctly connected and functioning, or that the PoE+ switch/NVR port is active and providing power.
- **Cable Integrity:** Inspect the power or Ethernet cable for any damage.

5.2 No Video/Offline

- **Network Connection:** Verify the Ethernet cable is securely connected to both the camera and the network device. Check network indicator lights.
- **IP Address:** Confirm the camera's IP address is correct and not conflicting with other devices on the network. Use SADP tool to find the camera.
- **Firewall Settings:** Ensure no firewall rules are blocking communication with the camera.
- **NVR/VMS Configuration:** Verify the camera is correctly added and configured in your NVR or VMS.

5.3 Poor Image Quality

- **Lens Cleanliness:** Clean the camera lens as described in the Maintenance section.
- **Focus Adjustment:** Re-adjust the motorized lens focus via the web interface.
- **Lighting Conditions:** Ensure adequate lighting. If in low light, verify IR illuminators are active.
- **Image Settings:** Adjust WDR, BLC, 3D DNR, and other image settings in the camera's web interface.

5.4 Password Reset

If you forget the camera's password, refer to Hikvision's official password reset procedures, which often involve using the SADP tool or contacting technical support with the camera's serial number.

6. Specifications

Feature	Description
Model Name	DS-2CD2683G1-IZS
Product Model Number	KIPDS2CD2683G1IZS
Max. Resolution	8 Megapixel (3840 x 2160)
Lens	Motorized Vari-focal 2.8 mm - 12 mm
Angle of View	105° - 34.5°
IR Range	50 meters EXIR
Video Compression	H.265+ / H.265 / H.264

Feature	Description
WDR	120 dB True WDR
Power Supply	12 VDC / PoE+ (802.3at)
Power Consumption	Max. 18 Watts (14.5 Watts listed in specs)
Protection Rating	IP67 (Dust and Water Resistant)
Material	Metal
Dimensions (L x W x H)	15 x 15 x 8 cm (approx.)
Weight	1.33 kg (approx.)
Audio Interface	1 Input / 1 Output
Alarm Interface	1 Input / 1 Output
Local Storage	MicroSD/SDHC/SDXC card slot (128 GB max)
Special Features	Tampering Detection, Video Analytics

7. Warranty and Support

7.1 Product Warranty

This Hikvision camera comes with a**2-year warranty** from the date of purchase. The warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

For detailed warranty terms and conditions, please refer to the official Hikvision warranty policy or contact your point of purchase.

7.2 Technical Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Hikvision customer support or your authorized Hikvision dealer.

When contacting support, please have your camera's model number (DS-2CD2683G1-IZS or KIPDS2CD2683G1IZS) and serial number readily available.

© 2025 Hikvision. All rights reserved. Information in this manual is subject to change without notice.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question