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Milesight MS-C2972-FIPB

Milesight MS-C2972-FIPB 2MP Pro Dome IP Network Camera User Manual

Model: MS-C2972-FIPB

PRODUCT OVERVIEW

The Milesight MS-C2972-FIPB is a 2MP Pro Dome IP Day/Night Network Camera designed for robust surveillance applications. It features remote focus and zoom capabilities, an IK10 vandal-proof and IP66 weather-resistant casing, and advanced imaging technologies like 140 dB WDR (Wide Dynamic Range) and Smart IR II for superior image quality in varying light conditions.

This camera supports H.265 video compression for efficient storage and bandwidth usage, and includes a 256GB MicroSD card slot for on-board storage. It is fully ONVIF compliant, ensuring broad compatibility with various network video recorders (NVRs) and video management systems (VMS).



Figure 1: Front view of the Milesight MS-C2972-FIPB Pro Dome IP Network Camera, showcasing its white dome design and dark lens housing.



Figure 2: Side view of the Milesight MS-C2972-FIPB Pro Dome IP Network Camera, highlighting its compact dome form factor suitable for ceiling mounting.

KEY FEATURES

- **Motorized Zoom and Focus:** Allows for remote adjustment of the camera's field of view and sharpness.
- **IK10 Vandal-proof & IP66 Weather-resistant:** Ensures durability and protection against impact and harsh environmental conditions, suitable for outdoor use.
- **140 dB WDR:** Provides clear images in scenes with strong contrast, such as bright backlighting.
- **Smart IR II:** Advanced infrared technology for uniform illumination in low-light conditions, preventing overexposure of close objects.
- **H.265+ Compression:** Reduces bandwidth and storage requirements significantly compared to older compression standards.
- **256GB MicroSD Support:** Enables on-board storage for local recording and redundancy.
- **Full ONVIF Compliance:** Ensures interoperability with a wide range of surveillance equipment.
- **SIP/VoIP Support:** Integrates voice and video over IP for enhanced communication capabilities.



Figure 3: Illustration demonstrating the superior compression efficiency of H.265+ compared to

H.264, resulting in reduced storage and bitrate requirements.



Figure 4: Smart IR II technology showing how the camera adjusts its infrared illumination (low beam and high beam) to provide optimal night vision without overexposure.

SETUP AND INSTALLATION

Package Contents

Before beginning installation, ensure all components are present:

- Milesight MS-C2972-FIPB IP Camera
- Mounting Template
- Mounting Screws and Wall Plugs
- Waterproof Connector for Ethernet Cable
- Quick Start Guide

Mounting the Camera

The MS-C2972-FIPB is designed for ceiling mount installation. Follow these steps:

1. **Prepare the Mounting Surface:** Choose a suitable location on a ceiling or wall that can support the camera's weight and provides the desired field of view.
2. **Detach the Mounting Plate:** Rotate the camera body counter-clockwise to detach it from the mounting plate. This plate will be secured to the surface first.



Figure 5: Detaching the camera body from the mounting plate by rotating it counter-clockwise, indicated by blue arrows.

3. **Mark Drill Holes:** Use the provided mounting template to mark the positions for drilling holes on the mounting surface.
4. **Drill Holes:** Drill holes according to the marked positions. Insert wall plugs if mounting on a masonry surface.
5. **Secure Mounting Plate:** Attach the mounting plate to the surface using the provided screws.
6. **Connect Cables:** Route the Ethernet cable through the mounting plate and connect it to the camera's RJ45 port. Ensure a waterproof connection using the supplied connector for outdoor installations. If not using PoE, connect the DC12V power supply.
7. **Attach Camera Body:** Align the camera body with the mounting plate and rotate clockwise until it locks securely into place.

Network Connection and Initial Setup

The camera supports Power over Ethernet (PoE) for simplified installation, requiring only one Ethernet cable for both power and data. Alternatively, it can be powered by a 12V DC adapter.

1. **Connect to Network:** Connect the camera to your network switch or router using an Ethernet cable. If using PoE, ensure your switch supports PoE (802.3af).
2. **Discover Camera:** Use the Milesight Smart Tools software (available on the Milesight website) to discover the camera on your network.
3. **Assign IP Address:** Assign a static IP address or configure DHCP for the camera.
4. **Access Web Interface:** Open a web browser and enter the camera's IP address to access its web interface.
5. **Initial Login:** Log in using the default username and password (refer to the Quick Start Guide for default credentials). It is highly recommended to change the default password immediately for security.
6. **Firmware Update:** Check for and install any available firmware updates to ensure optimal performance and security.

OPERATING THE CAMERA

Remote Focus and Zoom

The MS-C2972-FIPB features a motorized varifocal lens, allowing you to adjust the zoom and focus remotely from the camera's web interface or compatible NVR/VMS software. This eliminates the need for manual adjustment at the camera's physical location.



Figure 6: Detailed view of the P-IRIS varifocal lens components, which enable remote focus and zoom capabilities.

Video Configuration

Access the "Video" settings in the web interface to configure:

- **Resolution:** Up to 1920x1080 (2MP).

- **Frame Rate:** Adjust for desired smoothness of video.
- **Compression:** Select H.265+, H.265, H.264+, H.264, or MJPEG. H.265+ is recommended for efficiency.
- **Bit Rate:** Configure constant (CBR) or variable (VBR) bit rates.
- **Image Settings:** Adjust brightness, contrast, saturation, sharpness, WDR, and noise reduction.
- **Privacy Masking:** Define up to 8 areas to be masked for privacy concerns.

Audio Configuration

The camera includes a built-in microphone and supports two-way audio via an audio output interface. Configure audio settings under the "Audio" section:

- **Audio Compression:** G.711, AAC, G.722, G.726.
- **Microphone Gain:** Adjust sensitivity of the built-in microphone.
- **Two-way Audio:** Enable and configure for interactive communication.

Storage and Recording

The camera supports local storage on a MicroSD card up to 256GB. Configure recording schedules, motion detection recording, and continuous recording options in the "Storage" settings.

SIP/VoIP Integration

The MS-C2972-FIPB supports SIP/VoIP for voice and video-over-IP functionality. This allows for integration with VoIP systems for advanced communication and monitoring. Refer to the "System" or "Network" settings for SIP/VoIP configuration.

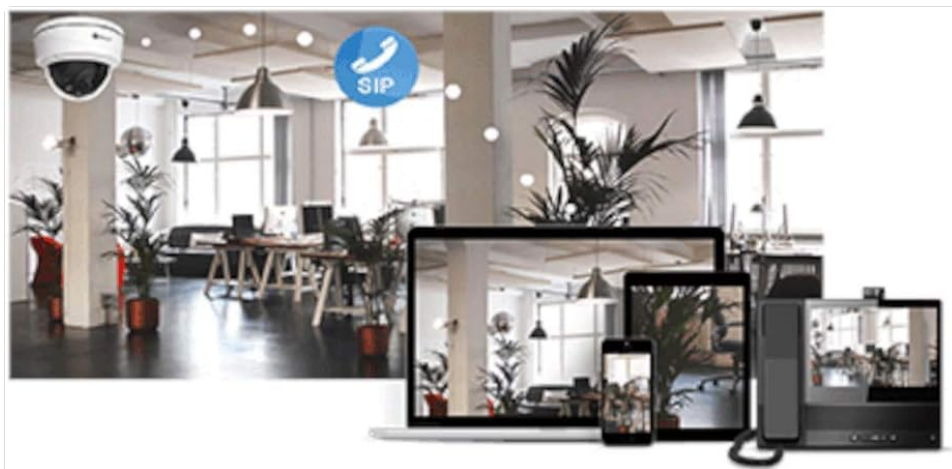


Figure 7: The camera's SIP/VoIP capability allows it to integrate with various communication devices, enabling voice and video over IP.

MAINTENANCE

Cleaning

- **Lens and Dome Cover:** Regularly clean the camera lens and the transparent dome cover with a soft, clean cloth. For stubborn dirt, use a mild, non-abrasive cleaning solution specifically designed for optical surfaces. Avoid harsh chemicals that could damage the coating.
- **Camera Body:** Wipe the camera body with a damp cloth to remove dust and grime.

Firmware Updates

Periodically check the Milesight official website for new firmware versions. Keeping the firmware updated ensures optimal

performance, introduces new features, and addresses potential security vulnerabilities.

- Download the latest firmware file from the Milesight support page.
- Access the camera's web interface and navigate to the "System" or "Maintenance" section.
- Follow the on-screen instructions to upload and install the firmware. Do not power off the camera during the update process.

Environmental Considerations

Although the camera is IP66 rated for weather resistance, extreme conditions can still affect performance. Ensure proper drainage around the camera if installed in areas prone to heavy rain or snow accumulation. Avoid direct exposure to prolonged strong sunlight if possible, as this can affect image quality and component lifespan.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Camera not powering on.	No power supply; PoE not active; faulty cable.	Check power adapter/PoE switch. Ensure Ethernet cable is properly connected and functional.
Cannot access camera via web browser.	Incorrect IP address; network connectivity issue; firewall blocking.	Verify IP address. Check network cable. Temporarily disable firewall on PC. Use Milesight Smart Tools to discover camera.
Poor image quality (blurry, dark, overexposed).	Lens out of focus; incorrect image settings; dirty lens/dome; insufficient IR illumination.	Adjust focus remotely. Configure brightness, contrast, WDR, and IR settings. Clean lens and dome cover.
No video recording to MicroSD card.	MicroSD card full/faulty; recording schedule not configured; motion detection not triggered.	Check MicroSD card status and format if necessary. Verify recording schedule and motion detection settings.
Vandalism or physical damage.	External impact.	The camera is IK10 vandal-proof, but extreme force can still cause damage. Contact support for repair options.

SPECIFICATIONS

Feature	Detail
Model Number	MS-C2972-FIPB
Image Sensor	1/2.8" Progressive Scan CMOS
Max. Image Resolution	1920x1080 (2MP)
Min. Illumination	Color: 0.002Lux@F1.2; B/W: 0Lux with IR on
Lens Type	Motorized P-IRIS varifocal 3.0~10.5mm (Optional: 2.7~13.5mm/ 7~22mm)
IR Distance	Up to 50m (3.0~10.5mm lens); Up to 90m (7~22mm lens)
Video Compression	H.265+/ H.265(HEVC)/ H.264+/ H.264/MJPEG
WDR	140 dB Super WDR

Feature	Detail
Audio I/O	Built-in Microphone and 1 Audio Output interface
Storage	Support micro SD/SDHC/SDXC Card, up to 256GB
Network Interface	1*RJ45 10M/100M Ethernet Port
System Compatibility	ONVIF Profile G&Q&S&T, API
Power Supply	PoE (802.3af) / DC12V±10%
Power Consumption	8W Max; 12W Max (With IR on)
Dimensions	Φ143mm x 108.4mm (5.63 x 4.27 x 4.27 inches)
Weight	Approx. 3.28 pounds
Ingress Protection	IP66
Vandal Resistance	IK10

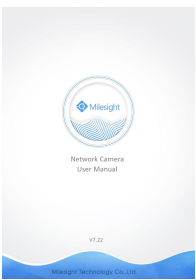

WARRANTY AND SUPPORT

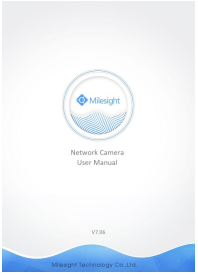
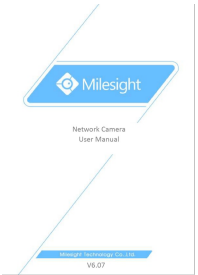
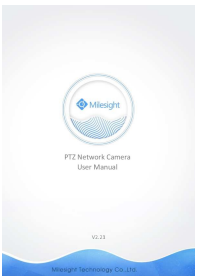
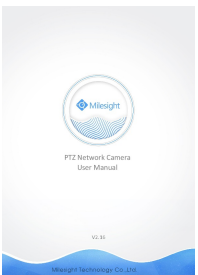
Specific warranty details for the Milesight MS-C2972-FIPB camera are typically provided at the point of purchase or can be found on the official Milesight website. Please retain your proof of purchase for warranty claims.

For technical support, product inquiries, or service requests, please visit the official Milesight support portal or contact their customer service. Contact information is usually available on the manufacturer's website.

Note: This manual provides general guidance. For detailed technical specifications and advanced configurations, please refer to the complete product documentation available on the Milesight official website.

Related Documents - MS-C2972-FIPB

	<p>Milesight Network Camera User Manual - Comprehensive Guide</p> <p>This user manual provides detailed instructions and specifications for Milesight Network Cameras, covering installation, configuration, operation, and maintenance for various models.</p>
	<p>Milesight AI Product Comparison Guide</p> <p>Comprehensive guide to Milesight's AI-powered video surveillance products, including network cameras, NVRs, and PoE switches, detailing features, specifications, and model comparisons.</p>

	<p>Milesight Network Camera User Manual - Installation and Operation Guide</p> <p>Comprehensive user manual for Milesight H.264 and H.265 network cameras, covering product overview, features, hardware, network connection, system operation, and maintenance. Includes model details and technical specifications.</p>
	<p>Milesight Network Camera User Manual - Comprehensive Guide</p> <p>This user manual provides detailed instructions for using and managing Milesight network cameras. It covers product overview, key features, hardware installation, network connection, system operation, and advanced settings for various Milesight camera models.</p>
	<p>Milesight PTZ Network Camera User Manual: Installation & Operation Guide</p> <p>Comprehensive user manual for Milesight PTZ Network Cameras, covering installation, configuration, live view, playback, advanced settings, and event management. Learn to optimize your surveillance system with detailed instructions and features.</p>
	<p>Milesight PTZ Network Camera User Manual</p> <p>This comprehensive user manual provides detailed instructions for setting up, configuring, and operating Milesight H.265 PTZ Network Cameras, including Speed Dome, Mini PTZ Bullet, and Mini PTZ Dome models. Learn about product features, hardware overview, network connection, web browser access, and advanced system operations for optimal surveillance.</p>