

[Manuals.plus](#) /

› [FLIR](#) /

› FLIR C133ED 2.1MP HD Fixed Dome MPX Camera Instruction Manual

## FLIR C133ED

# FLIR C133ED 2.1MP HD Fixed Dome MPX Camera Instruction Manual

Model: C133ED

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your FLIR C133ED 2.1MP HD Fixed Dome MPX Camera. Please read this manual thoroughly before using the product to ensure proper setup and functionality. Keep this manual for future reference.



Image 1.1: The FLIR C133ED 2.1MP HD Fixed Dome MPX Camera. This image displays the compact dome design of the camera, suitable for both indoor and outdoor surveillance applications.

## 2. SAFETY INFORMATION

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Observe the following safety precautions to prevent damage to the camera and to ensure user safety:

- **Power Supply:** Use only the specified power adapter (12V DC) for this camera. Incorrect voltage may cause damage or fire.
- **Installation:** Ensure the camera is securely mounted to prevent it from falling. Installation should be performed by qualified personnel if necessary.
- **Environment:** Do not expose the camera to extreme temperatures, humidity, or corrosive environments. While rated IP54 for indoor/outdoor use, avoid direct water submersion.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Servicing:** Do not attempt to disassemble or service the camera yourself. Refer all servicing to qualified service personnel.

### 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- FLIR C133ED 2.1MP HD Fixed Dome MPX Camera
- Mounting Screws and Wall Plugs
- Mounting Template
- Quick Start Guide (this manual provides comprehensive details)
- Power Adapter (12V DC)

### 4. SETUP

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#### 4.1 Physical Installation

1. **Choose a Location:** Select a suitable indoor or outdoor location that provides the desired field of view and is within reach of power and video cabling. Ensure the surface is strong enough to support the camera.
2. **Mounting:**
  - Use the provided mounting template to mark the drill holes on the wall or ceiling.
  - Drill pilot holes and insert wall plugs if mounting into drywall or masonry.
  - Secure the camera base to the mounting surface using the provided screws.
3. **Adjust Camera Angle:** Loosen the adjustment screws on the dome to position the camera lens for the desired viewing angle. Tighten the screws once adjusted.

#### 4.2 Wiring Connections

The FLIR C133ED is an MPX camera, requiring a coaxial cable for video transmission and a separate power connection.

1. **Video Connection:** Connect one end of a coaxial cable (e.g., RG59) to the BNC connector on the camera. Connect the other end of the coaxial cable to a compatible FLIR MPX Digital Video Recorder (DVR) or monitor.
2. **Power Connection:** Connect the 12V DC power adapter to the camera's power input jack. Plug the power adapter into a standard electrical outlet.

*Note: Ensure all connections are secure before powering on the camera and DVR.*

## 5. OPERATING

### 5.1 Initial Power-On and Viewing

1. After completing all physical and wiring connections, power on your FLIR MPX DVR.
2. The camera's video feed should automatically appear on the connected monitor or DVR interface.
3. If the image is not clear, fine-tune the camera's physical angle as described in Section 4.1.

### 5.2 Camera Features

- **HD Resolution:** The camera provides 2.1 Megapixel (1080p) high-definition video for clear and detailed surveillance.
- **Night Vision:** Equipped with 'Night Color' technology, the camera can provide enhanced color images in low-light conditions, depending on ambient light availability. In complete darkness, it will switch to infrared (IR) black and white mode.
- **Wide Field of View:** The 3.6mm fixed lens offers a 90-degree field of view, suitable for covering broad areas.
- **Motion Detection:** When connected to a compatible FLIR DVR, the camera supports motion detection features, allowing the DVR to record only when movement is detected in the camera's view. Refer to your DVR's manual for motion detection setup.

## 6. MAINTENANCE

### 6.1 Cleaning the Camera

Regular cleaning helps maintain optimal image quality.

- Ensure the camera is powered off before cleaning.
- Gently wipe the camera lens and dome cover with a soft, lint-free cloth.
- For stubborn dirt, slightly dampen the cloth with water. Avoid harsh chemicals or abrasive materials.

### 6.2 Firmware Updates

Periodically check the FLIR support website for any available firmware updates for your C133ED camera. Firmware updates can improve performance, add features, or fix bugs. Follow the instructions provided with the firmware update package carefully.

## 7. TROUBLESHOOTING

If you encounter issues with your camera, refer to the following common problems and solutions:

| Problem                                | Possible Cause                                                            | Solution                                                                                                                                                   |
|----------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No video signal                        | No power to camera;<br>Loose video cable;<br>Incompatible DVR.            | Check power connection; Ensure video cable is securely connected; Verify DVR compatibility with FLIR MPX cameras.                                          |
| Poor image quality (blurry, distorted) | Dirty lens; Loose cable connection; Excessive cable length; Interference. | Clean the lens; Check all cable connections; Use appropriate cable length and quality; Ensure cables are away from strong electrical interference sources. |

| Problem                          | Possible Cause                                                                 | Solution                                                                                                                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Night vision not working or poor | Insufficient ambient light for 'Night Color'; IR LEDs obstructed; Power issue. | Ensure there is some ambient light for 'Night Color' mode; Check for obstructions in front of the camera; Verify stable power supply.                                                         |
| Camera is hot to the touch       | Normal operation; Overheating due to poor ventilation or direct sunlight.      | Some warmth is normal. If excessively hot, ensure adequate ventilation and avoid direct sunlight exposure in extreme temperatures. If problem persists, disconnect power and contact support. |

If the problem persists after trying these solutions, please contact FLIR technical support.

## 8. SPECIFICATIONS

The following are the technical specifications for the FLIR C133ED 2.1MP HD Fixed Dome MPX Camera:

- **Model:** C133ED
- **Brand:** FLIR
- **Photo Sensor Resolution:** 2.1 Megapixels (1920x1080p)
- **Photo Sensor Technology:** CMOS
- **Lens:** 3.6mm Fixed Lens
- **Field of View:** 90 Degrees
- **Video Frame Rate:** 30 fps
- **Connectivity Technology:** Wired (MPX HD-over-Coax)
- **Indoor/Outdoor Usage:** Indoor, Outdoor
- **Waterproof Rating:** IP54
- **Power Source:** AC/DC Adapter
- **Voltage:** 12 Volts DC
- **Wattage:** 5 Watts
- **Night Vision:** Night Color (with IR for complete darkness)
- **Form Factor:** Dome
- **Mount Type:** Wall Mount
- **UPC:** 841430012450

## 9. WARRANTY AND SUPPORT

FLIR products are designed for reliability and performance. For specific warranty information, please refer to the warranty card included with your product or visit the official FLIR website. Technical support is available to assist with any questions or issues you may encounter during the installation or operation of your FLIR C133ED camera.

**FLIR Support:** For the most up-to-date support information, contact details, and online resources, please visit the official FLIR support website.

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