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› SPECO VL-62 Color Waterproof Camera User Manual

Speco Technologies VL-62

SPECO VL-62 Color Waterproof Camera User Manual

Model: VL-62

INTRODUCTION

The SPECO VL-62 is a robust color waterproof camera designed for outdoor surveillance applications, particularly in low-light conditions. It features built-in infrared (IR) LEDs for night vision and automatically switches between color and black-and-white modes. This manual provides essential information for the proper installation, operation, and maintenance of your VL-62 camera.



Image: The SPECO VL-62 camera, a black bullet-style camera with a sunshield, mounted on an adjustable stand. The front lens is visible, surrounded by multiple IR LEDs.

Key Features

- 0.25-inch color CCD image sensor for high-quality imaging.
- Durable plastic housing designed to be waterproof for outdoor use.
- High light sensitivity: 1 Lux in color to infinity; 0 Lux in B/W via IR LEDs up to 30 feet.
- Integrated CDS sensor for automatic activation of IR LEDs in low light.

- Provides a high-resolution picture of 420 TV lines.
- Equipped with automatic gain control and backlight compensation for optimal image clarity.

SETUP

Package Contents

- SPECO VL-62 Camera
- Sunshield
- Mounting Bracket
- 12VDC Power Supply

Mounting Instructions

The VL-62 camera can be mounted on ceilings, surfaces, or walls. The included mounting bracket allows for flexible positioning. Ensure the mounting surface is stable and can support the camera's weight. Cable routing through the mount is available for added protection against vandalism.

1. Select a suitable mounting location that provides the desired field of view and is protected from direct sunlight or other intense light sources.
2. Securely attach the mounting bracket to the chosen surface using appropriate screws (not included).
3. Attach the camera to the mounting bracket.
4. Adjust the camera's angle to achieve the optimal viewing area. Tighten all adjustment screws to secure the camera's position.

Power Connection

Connect the provided 12VDC power supply to the camera's power input. Ensure the connection is secure and protected from moisture if installed outdoors. The camera consumes approximately 90mA with LEDs off and 160mA with LEDs on.

OPERATING THE CAMERA

The SPECO VL-62 camera operates automatically once powered on. It is designed for continuous operation in various lighting conditions.

Automatic Day/Night Switching

The camera features a built-in CDS sensor that detects ambient light levels. During daylight hours, the camera operates in color mode. As light levels decrease, the CDS sensor automatically activates the 10 IR LEDs, and the camera switches to black-and-white mode for enhanced night vision up to 30 feet.

Image Optimization

The VL-62 includes automatic gain control (AGC) and backlight compensation (BLC) to ensure clear images in varying light conditions. The automatic electronic shutter adjusts speeds from 1/60 to 1/100,000 of a second to prevent overexposure.

MAINTENANCE

The SPECO VL-62 is designed for low maintenance. Regular checks can help ensure optimal performance.

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

- **Cable Inspection:** Routinely inspect power and video cables for any signs of wear, damage, or loose connections, especially in outdoor installations.
- **Environmental Protection:** While waterproof, ensure the camera's connections are properly sealed and protected from direct water spray or prolonged submersion.

TROUBLESHOOTING

Common Issues and Solutions

- **No Image/Power:**
 - Verify the 12VDC power supply is correctly connected and functioning.
 - Check all cable connections to the camera and recording device.
- **Poor Image Quality (Daytime):**
 - Ensure the lens is clean and free from dust or smudges.
 - Avoid pointing the camera directly at strong light sources (e.g., sun, halogen lights) as this can cause permanent damage to the CCD sensor and result in washed-out images.
 - Check for obstructions in the camera's field of view.
- **Poor Image Quality (Nighttime/IR):**
 - Ensure the IR LEDs are activating in low light. If not, check the CDS sensor for obstructions.
 - Verify the distance to the subject is within the 30-foot IR range.
 - Reflections from nearby surfaces (walls, windows) can cause IR glare; adjust camera position if necessary.
- **Flickering or Rolling Image:**
 - This can be caused by electrical interference. Ensure power cables are not running parallel to video cables.
 - Check power supply stability.

SPECIFICATIONS

Feature	Specification
Model Number	VL-62
Image Sensor	0.25-inch Color CCD
Lens	4mm Board Lens
Horizontal Resolution	420 TV Lines
Effective Pixels	510 (H) x 492 (V)
Minimum Illumination	1 Lux (Color); 0 Lux (B/W with IR LEDs)
IR LEDs	10 IR LEDs (850 NM wavelength)
IR Range	Up to 30 feet (in B/W mode)
Shutter Speed	1/60 to 1/100,000 second (Automatic Electronic Shutter)

Feature	Specification
Power Supply	12VDC (Included)
Power Consumption	90mA (LEDs Off), 160mA (LEDs On)
Material	Plastic
Water Resistance Level	Waterproof (IP54)
Mounting Type	Ceiling Mount, Surface Mount, Wall Mount
Dimensions (L x W x H)	8.9 x 8.3 x 3.6 inches
Item Weight	1.35 pounds

WARRANTY AND SUPPORT

Specific warranty details for the SPECO VL-62 camera are typically provided at the point of purchase or within the product packaging. For technical support, service, or warranty claims, please refer to the contact information provided by your retailer or the official Speco Technologies website.

ASK A QUESTION ABOUT THIS MANUAL

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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.

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