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Speco Technologies HT5941T Intense IR HD TVI Dome Camera User Manual

Model: HT5941T

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Speco Technologies HT5941T Intense IR HD TVI Dome Camera. This camera is designed to deliver high-definition surveillance with advanced features such as True WDR, Intense IR, and day/night operation. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.

2. SAFETY INFORMATION

- **Power Supply:** Use only the specified 12VDC or 24VAC power supply. Incorrect voltage may damage the camera.
- **Installation:** Ensure the camera is securely mounted to prevent accidental falls. Professional installation is recommended.
- **Environment:** Do not expose the camera to extreme temperatures, humidity, or corrosive environments beyond its specified operating conditions.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Avoid harsh chemicals.
- **Servicing:** Do not attempt to disassemble or service the camera yourself. Refer all servicing to qualified personnel.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- HT5941T Dome Camera
- Chameleon Cover
- Mounting Hardware (screws, anchors)
- Quick Start Guide (if applicable)

4. SETUP AND INSTALLATION

4.1 Mounting the Camera

The HT5941T camera supports 3-axis adjustment for both wall and ceiling mounting. Ensure the mounting surface is strong enough to support the camera's weight.

1. Select a suitable mounting location.
2. Use the provided mounting template (if included) or the camera base to mark drilling points.
3. Drill pilot holes and insert wall anchors if necessary.
4. Secure the camera base to the mounting surface using the provided screws.
5. Adjust the camera's angle for optimal viewing.

4.2 Wiring and Power Connection

The HT5941T is an HD-TVI output only camera, providing full HD resolution over coaxial cable.

- Connect a coaxial cable (RG59 or similar) from the camera's BNC output to your HD-TVI DVR or monitor.
- Connect the power cable to the camera's power input. The camera supports dual voltage operation (12VDC or 24VAC). Ensure the power supply matches the camera's requirements.
- Verify all connections are secure before applying power.

4.3 Chameleon Cover Installation

The included Chameleon Cover can be painted to match your décor.

1. If desired, paint the Chameleon Cover before installation. Allow it to dry completely.
2. Align the cover with the camera body and snap it into place.

Figure 1: Speco Technologies HT5941T Dome Camera with its dark gray housing and dome design.

5. OPERATING INSTRUCTIONS

5.1 Powering On and Initial View

Once the camera is properly wired and powered, it will automatically begin transmitting video. Connect your HD-TVI DVR or monitor to view the live feed.

5.2 On-Screen Display (OSD) Menu

The camera features a full OSD menu for configuration, accessible via on-board controls or UTC (Up The Coax) control from a compatible DVR.

- **Accessing OSD:** Use the joystick or buttons on the camera (if present) or the UTC control function on your DVR to bring up the OSD menu.

- **Navigation:** Use the directional controls to navigate through menu options. Select options to adjust settings such as exposure, white balance, and image enhancements.

- **Key Features:**

- **True WDR:** Wide Dynamic Range for clear images in high-contrast lighting.
- **Intense IR:** Adapts IR intensity to the subject, preventing saturation and providing vivid night vision.
- **Day/Night Operation:** Mechanical IR cut filter automatically switches between color (day) and monochrome (night) modes for optimal image quality.

6. MAINTENANCE

6.1 Cleaning

Regular cleaning helps maintain optimal image quality.

- Gently wipe the camera lens and housing with a soft, lint-free cloth.

- For stubborn dirt, slightly dampen the cloth with water or a mild lens cleaning solution. Avoid abrasive cleaners.

- Ensure the camera is powered off before cleaning.

6.2 Environmental Considerations

The HT5941T features heater circuitry and anti-moisture glass to reduce fog or condensation in various weather conditions. No specific user maintenance is required for these features, but ensure the camera's power supply is stable to allow these functions to operate effectively.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No video output	No power; Loose cable connection; Incorrect video format (not HD-TVI compatible DVR)	Check power supply and connections; Ensure DVR supports HD-TVI input.
Poor image quality (blurry, distorted)	Dirty lens; Improper focus; Cable interference; Insufficient lighting	Clean the lens; Adjust focus via OSD; Use shielded coaxial cable; Verify adequate lighting or IR function.
IR not working at night	Insufficient power; Day/Night setting incorrect; IR sensor blocked	Check power supply; Verify Day/Night mode in OSD; Ensure nothing obstructs the IR LEDs or sensor.
OSD menu not appearing	Incorrect control method; DVR not compatible with UTC	Try on-board controls if available; Consult DVR manual for UTC compatibility and operation.

8. SPECIFICATIONS

Feature	Specification
Model Number	HT5941T
Brand	Speco Technologies
Video Capture Resolution	1080p (Full HD)
Frame Rate	30 fps
Connectivity Technology	HD-TVI (Coaxial)

Feature	Specification
Power Source	12VDC & 24VAC Dual Voltage
Mounting Type	Wall Mount (3-axis adjustment)
Form Factor	Dome
Low Light Technology	Day/Night, Intense IR
Special Features	True WDR, Heater circuitry, Anti-moisture glass, Chameleon Cover
International Protection Rating	IP67
Dimensions (L x W x H)	5.12 x 4.84 x 3.66 inches
Item Weight	1.5 Pounds
Material	Glass (lens)

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Speco Technologies website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty claims.
Speco Technologies Official Website: www.specotech.com