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› **ZEISS DTI 4/50 Thermal Imaging Camera High-Resolution Monocular for Night Hunting and Wildlife Observation User Manual**

ZEISS 527018-ZEISS

ZEISS DTI 4/50 Thermal Imaging Camera User Manual

Model: DTI 4/50 | Brand: ZEISS

1. INTRODUCTION

The ZEISS DTI 4/50 Thermal Imaging Camera is a high-resolution monocular designed for night hunting and wildlife observation. It provides superior image quality and detection capabilities in various environmental conditions. This manual provides essential information for the proper setup, operation, and maintenance of your device.

Key Features:

- **High-Resolution Sensor:** Features a 640x512 sensor with 12µm pixel pitch and an AMOLED display with 1024x768 resolution, driven by ZSIP Image Technology.

- **Optical Magnification:** 50mm lens diameter provides 2.9x optical magnification with a maximum digital zoom of 4x in 0.5x steps.

- **Versatile Scene Modes:** Includes 8 color modes for high contrast and temperature differentiation, a detection mode to highlight heat sources, and a fog mode for humid conditions.

- **Extended Battery Life:** Offers up to 7 hours of continuous operation.

- **Ergonomic Design:** Slim and light body, designed for comfortable use by both left and right-handed users, allowing natural access to controls even with gloves.

- **Connectivity:** 32GB internal storage and live streaming capability via the ZEISS Hunting App using USB or WLAN.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- ZEISS DTI 4/50 Thermal Imaging Camera

- Carrying Strap

- Carrying Case

- USB Cable

- Rechargeable Battery

3. PRODUCT OVERVIEW

Familiarize yourself with the components and design of your ZEISS DTI 4/50.

Figure 3.1: Angled view of the ZEISS DTI 4/50 Thermal Imaging Camera, showcasing its compact and ergonomic design with control buttons visible on top.

Figure 3.2: Front view of the thermal imaging camera with the protective lens cap attached, highlighting the objective lens.

Figure 3.3: Side profile of the ZEISS DTI 4/50, illustrating its streamlined shape and the ZEISS logo.

Figure 3.4: Top view of the device, clearly showing the arrangement of the control buttons for easy access and operation.

Figure 3.5: Angled view from the eyepiece side, showing the ocular and the focus adjustment wheel.

Figure 3.6: Close-up detail of the eyepiece and the knurled focus adjustment wheel, designed for precise control.

Figure 3.7: Close-up of the eyepiece area, showing a green indicator light, likely indicating power or operational status.

4. SETUP

Follow these steps to prepare your ZEISS DTI 4/50 for first use:

1. **Unpacking:** Carefully remove all components from the packaging. Retain the packaging for future storage or transport.

2. **Battery Installation and Charging:** Insert the provided rechargeable battery into the designated compartment. Connect the camera to a power source using the supplied USB cable to fully charge the battery before initial use. The charging indicator will provide status.

3. **Strap Attachment:** Attach the carrying strap to the camera's strap loops for secure handling during use.

4. **Initial Power On:** Press and hold the power button (usually marked with a power symbol) until the display illuminates.

5. **Diopter Adjustment:** Adjust the diopter on the eyepiece to achieve a sharp image for your individual vision.

5. OPERATING

This section outlines the basic operation and key functions of your thermal imaging camera.

Power On/Off:

- To power on, press and hold the power button.
- To power off, press and hold the power button until the device shuts down.
- The device features an auto-off function and smart standby mode to conserve battery life.

Zoom and Magnification:

- Use the designated zoom buttons (often marked with '+' and '-') to adjust the digital magnification in 0.5x steps, up to 4x.

Scene Modes and Color Palettes:

The DTI 4/50 offers 8 different color modes and specialized scene modes to optimize viewing for various conditions:

- **Color Modes:** Cycle through the available color palettes to find the one that provides the best contrast and reduces eye fatigue in dark environments.
- **Detection Mode:** This mode enhances heat sources while minimizing the cold background, making it easier to spot animals even when partially obscured by foliage.
- **Fog Mode:** Specifically designed to improve visibility in humid or foggy conditions.

Advanced Features:

- **Compass Overlay:** Provides directional information directly on the display.
- **Movement Alerts:** Notifies the user of detected movement within the field of view.
- **Live Streaming via App:** Connect your DTI 4/50 to a smartphone via USB or WLAN using the ZEISS Hunting App to transfer data or live stream your observations.

6. MAINTENANCE

Proper care and maintenance will ensure the longevity and optimal performance of your ZEISS DTI 4/50.

- **Cleaning the Lenses:** Use a soft, lint-free cloth specifically designed for optics to gently wipe the objective and eyepiece lenses. For stubborn smudges, use a specialized optical cleaning solution. Avoid abrasive materials.
- **Cleaning the Body:** Wipe the camera body with a damp, soft cloth. Do not use harsh chemicals or solvents.
- **Battery Care:** Store the device with a partially charged battery if not in use for extended periods. Avoid fully discharging the battery frequently.
- **Storage:** Store the camera in its protective carrying case in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Water Resistance:** While designed for outdoor use, avoid submerging the device in water. Refer to the specifications for its water resistance rating.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your ZEISS DTI 4/50. If the problem persists, please contact customer support.

Problem	Possible Cause	Solution
Device does not power on.	Battery is discharged or not properly inserted.	Ensure battery is fully charged and correctly inserted.
Image is blurry or out of focus.	Diopter or objective lens focus not adjusted.	Adjust the diopter for your vision and rotate the objective lens focus ring until the image is sharp.

Problem	Possible Cause	Solution
Poor thermal image quality.	Environmental conditions (e.g., heavy fog, rain) or incorrect scene mode.	Try different scene modes (e.g., Fog Mode) or color palettes. Ensure lenses are clean.
Cannot connect to ZEISS Hunting App.	WLAN/USB connection issue or app not updated.	Ensure WLAN is enabled on the device and smartphone. Check USB cable connection. Update the app to the latest version.

8. SPECIFICATIONS

Detailed technical specifications for the ZEISS DTI 4/50 Thermal Imaging Camera:

Feature	Detail
Brand	ZEISS
Model Name	DTI 4/50
Color	Black
Style	Compact
Sport	Hunting
Material	Nylon
Magnification Maximum	4 x
Objective Lens Diameter	50 Millimeters
Magnification Minimum	4 x
Mounting Type	Integral Mount
Night vision	Yes
UPC	740035017023
Item Package Dimensions L x W x H	10.75 x 10 x 4.75 inches
Package Weight	1.66 Kilograms
Item Dimensions L x W x H	9.1 x 9.1 x 9.1 inches
Included Components	Camera, strap, carrying case, USB cable, battery
Date First Available	May 26, 2023

9. WARRANTY AND SUPPORT

Your ZEISS DTI 4/50 Thermal Imaging Camera comes with a comprehensive warranty to ensure your peace of
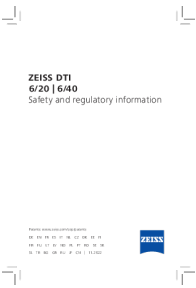
mind.

Warranty Information:

The product is covered by a 2 + 1 Year(s) warranty. Please retain your proof of purchase for warranty claims.

Customer Support:

For further assistance, technical support, or warranty inquiries, please visit the official ZEISS Store on Amazon. Visit the ZEISS Store

Related Documents - 527018-ZEISS

	ZEISS DTI 6/20 & 6/40 Safety and Regulatory Information Comprehensive safety, handling, battery, power supply, intended use, and regulatory information for the ZEISS DTI 6/20 and DTI 6/40 thermal imaging devices. Includes disposal guidelines and FCC/IC compliance.
	ZEISS Thermal Imaging Devices: DTC 3 & DTI 6 Series - Brochure Discover the advanced features, technical specifications, and benefits of ZEISS DTC 3 thermal imaging clip-ons and DTI 3/6 series cameras, designed for superior night hunting performance and detailed observation in all light conditions.
	ZEISS DTI Thermal Imaging Devices: Safety & Regulatory Information Essential safety and regulatory guide for ZEISS DTI thermal imaging devices (DTI 3/25 GEN 2, 3/35 GEN 2, 4/35, 4/50). Covers handling, battery, power, disposal, and compliance.
	ZEISS Quality Assurance Solutions for eMobility: Enhancing Safety and Performance Discover ZEISS's comprehensive quality assurance solutions for the eMobility sector, covering batteries, electric motors, fuel cells, automotive electronics, and transmissions. Enhance safety, performance, and reliability with advanced metrology and inspection technologies from ZEISS.

ZEISS DTC **3/38 | 3/25** Gebrauchsanleitung	[ZEISS DTC 3/38 | 3/25 Gebrauchsanleitung](#) Anleitung zur Verwendung des ZEISS DTC 3/38 und 3/25 Wärmebildvorsatzgeräts. Enthält Informationen zu Installation, Bedienung, technischen Daten, Fehlerbehebung und Wartung.
ZEISS DTC **4/50** Gebrauchsanleitung	[ZEISS DTC 4/50 Gebrauchsanleitung](#) Bedienungsanleitung für das ZEISS DTC 4/50 Wärmebildvorsatzgerät. Enthält Informationen zu Installation, Bedienung, technischen Daten und Fehlerbehebung.