

## ZEISS DTI 6/20

# ZEISS DTI 6/20 Thermal Imaging Camera User Manual

Model: DTI 6/20

## 1. INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your ZEISS DTI 6/20 Thermal Imaging Camera. Please read these instructions carefully before using the device to ensure optimal performance and longevity.

## 2. WHAT'S IN THE BOX

Verify that all the following components are included in your package:

- Thermal imaging camera
- Lens (20 mm)
- Neoprene strap
- Carrying case including shoulder strap
- USB cable
- Optics cleaning cloth
- Lithium-ion battery
- Quick Guide
- Safety notes
- Warranty card
- EULA document

## 3. PRODUCT OVERVIEW

The ZEISS DTI 6/20 is a high-resolution thermal imaging monocular designed for detailed observation in low-light conditions. It features advanced image processing and ergonomic design for ease of use.



**Figure 1:** Angled view of the ZEISS DTI 6/20 Thermal Imaging Camera. This image displays the overall design, including the objective lens, eyepiece, and the ZEISS branding on the side.



**Figure 2:** Top view of the ZEISS DTI 6/20, highlighting the power button, scroll wheel for magnification control, and other operational buttons. The ergonomic placement of controls is visible.

## Key Features:

- **ZSIP Pro Image Technology:** Delivers sharp, high-contrast thermal images.
- **High-Resolution Display:** AMOLED display with 1024x768 resolution, paired with a 640x480 sensor and 12µm pixel pitch.
- **Magnification:** 1.5x optical magnification with up to 10x digital zoom, controlled by a scroll wheel.
- **Customization:** 4 preset scene modes and up to 5 user-created layouts. Adjustable zoom settings, display brightness, and color palettes.

- **Internal Storage:** 16GB for capturing images and videos.
- **Battery Life:** Up to 6.5 hours of continuous operation with a removable lithium-ion battery.
- **Ergonomic Design:** Suitable for both left and right-handed users, with controls positioned for natural access even with gloves.
- **App Connectivity:** Seamless data transfer and live streaming to smartphones via the ZEISS Hunting App using Bluetooth, USB, or WLAN.

## 4. SETUP

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### 4.1 Battery Installation

1. Locate the battery compartment on the device.
2. Open the compartment cover.
3. Insert the provided lithium-ion battery, ensuring correct polarity.
4. Close the battery compartment cover securely.

### 4.2 Initial Power On

1. Press and hold the power button (refer to Figure 2) until the ZEISS logo appears on the display.
2. Allow the device to initialize. This may take a few seconds.
3. Adjust the diopter on the eyepiece for clear focus according to your vision.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Power On/Off

- **To Power On:** Press and hold the power button.
- **To Power Off:** Press and hold the power button until the shutdown sequence initiates.

### 5.2 Magnification Control

Use the scroll wheel located on the top of the device (refer to Figure 2) to adjust the digital zoom level. Rotate the wheel forward to increase magnification and backward to decrease it.

### 5.3 Scene Modes

The DTI 6/20 offers 4 preset scene modes optimized for different observation conditions. Access these modes through the device's menu to enhance image clarity based on your environment.

### 5.4 Customization

The device allows for extensive personalization:

- **User Layouts:** Create and save up to 5 custom display layouts.
- **Display Settings:** Adjust display brightness to suit ambient light conditions.
- **Color Palettes:** Select from various color palettes to optimize thermal contrast and target identification.

### 5.5 App Connectivity (ZEISS Hunting App)

Enhance your experience by connecting the DTI 6/20 to the ZEISS Hunting App on your smartphone.



**Figure 3:** A user operating the ZEISS DTI 6/20 thermal imaging camera in an outdoor environment, demonstrating its ergonomic handling and practical application.

- **Data Transfer:** Transfer images and videos from the device's 16GB internal storage to your smartphone via Bluetooth, USB, or WLAN.
- **Live Streaming:** Stream live thermal footage directly to your smartphone for shared viewing or recording.
- **Further Customization:** The app provides additional options for device settings and management.

## 6. MAINTENANCE

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### 6.1 Cleaning

- Use the provided optics cleaning cloth to gently wipe the lenses. Avoid abrasive materials.
- For the device body, use a soft, damp cloth. Do not use harsh chemicals or solvents.
- Ensure the device is powered off before cleaning.

### 6.2 Battery Care

- Charge the battery fully before first use.
- Store the device and battery in a cool, dry place when not in use for extended periods.
- Avoid exposing the battery to extreme temperatures.

## 7. TROUBLESHOOTING

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### 7.1 Device Not Powering On

- Ensure the battery is correctly installed and fully charged.

- Try charging the battery for at least 30 minutes before attempting to power on again.

## 7.2 Image Appears Blurry

- Adjust the diopter on the eyepiece for your vision.
- Ensure the objective lens is clean and free from smudges or debris.
- Check the focus of the thermal image using the manual focus ring if available.

## 7.3 Connectivity Issues with ZEISS Hunting App

- Ensure Bluetooth or WLAN is enabled on both the device and your smartphone.
- Verify that the ZEISS Hunting App is updated to the latest version.
- Restart both the thermal camera and your smartphone.

# 8. SPECIFICATIONS

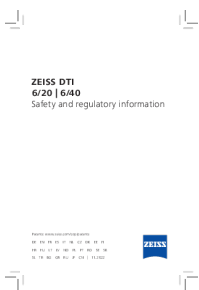


Feature	Specification
Product Dimensions	9.06 x 2.44 x 2.68 inches
Item Weight	1.52 pounds (24.33 Ounces)
Item Model Number	527020-9911-000
Brand	ZEISS
Model Name	DTI 6/20
Eye Piece Lens Description	Plössl
Focus Type	Manual Focus
Power Source	Battery Powered (Lithium-ion)
Compatible Devices	Smartphone
Focal Length Description	300mm
Field Of View	10 Degrees
Zoom Ratio	3x Optical, up to 10x Digital
Sensor Resolution	640 x 480 with 12 micron pixel pitch
Display Resolution	1024 x 768 HD AMOLED
Internal Storage	16GB
Battery Run Time	6.5 hours (continuous)







# 9. WARRANTY AND SUPPORT

The ZEISS DTI 6/20 Thermal Imaging Camera is manufactured by ZEISS. For detailed warranty information, please refer to the included warranty card or visit the official ZEISS website. For technical support, service, or inquiries, please contact ZEISS customer service through their official channels.

**Manufacturer:** ZEISS

Related Documents - DTI 6/20

	<p><a href="#">ZEISS DTI 6/20 &amp; 6/40 Safety and Regulatory Information</a></p> <p>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.</p>
	<p><a href="#">ZEISS Thermal Imaging Devices: DTC 3 &amp; DTI 6 Series - Brochure</a></p> <p>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.</p>
	<p><a href="#">ZEISS DTI Thermal Imaging Devices: Safety &amp; Regulatory Information</a></p> <p>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.</p>

 <p>ZEISS DTC 3/38   3/25 Gebrauchsanleitung</p> 	<p><a href="#">ZEISS DTC 3/38   3/25 Gebrauchsanleitung</a></p> <p>Anleitung zur Verwendung des ZEISS DTC 3/38 und 3/25 Wärmebildvorsatzgeräts. Enthält Informationen zu Installation, Bedienung, technischen Daten, Fehlerbehebung und Wartung.</p>
 <p>Installation Requirements ZEISS RISE Microscopy (Raman Imaging and Scanning Electron microscopy)</p> 	<p><a href="#">ZEISS RISE Microscopy Installation Requirements Guide</a></p> <p>Comprehensive installation requirements for the ZEISS RISE Microscopy system, detailing environmental, location, electrical, safety, transport, and storage specifications. Includes a responsibility checklist for proper setup and operation of Raman Imaging and Scanning Electron Microscopy systems.</p>
 <p>Quality Assurance for eMobility</p> 	<p><a href="#">ZEISS Quality Assurance Solutions for eMobility: Enhancing Safety and Performance</a></p> <p>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.</p>