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KINSEI TPC-K40-G13

KINSEI Thermal Imaging Monocular TPC-K40-G13 User Manual

Model: TPC-K40-G13

1. INTRODUCTION

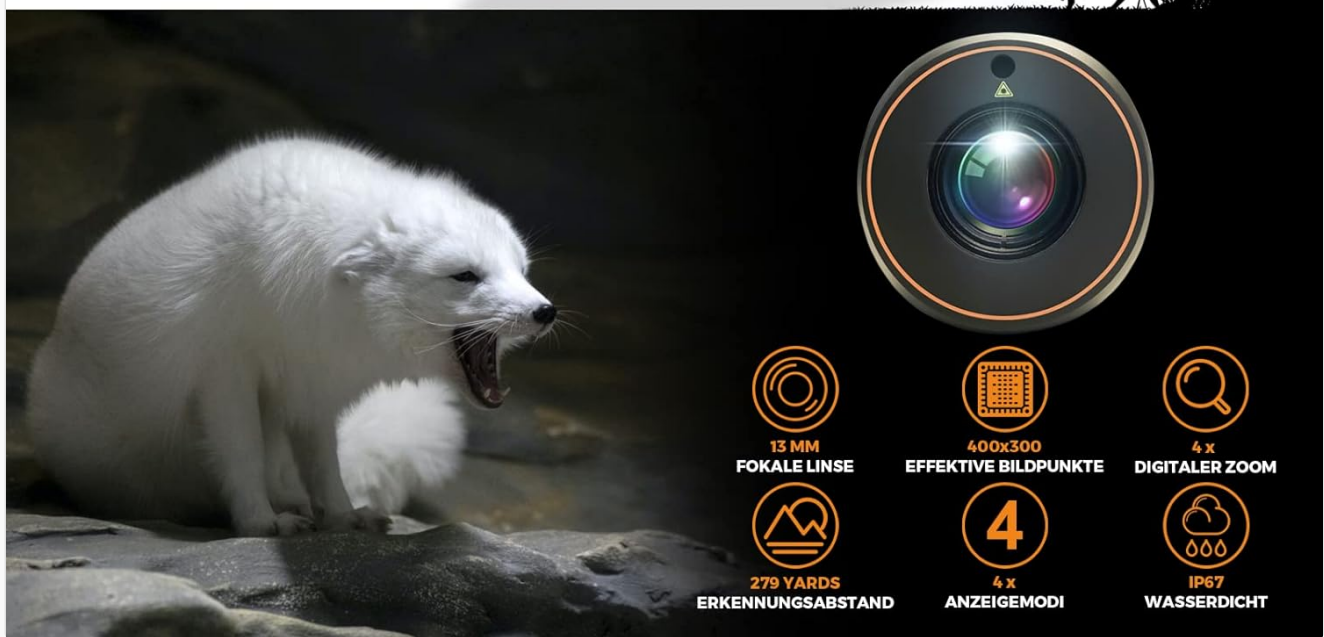
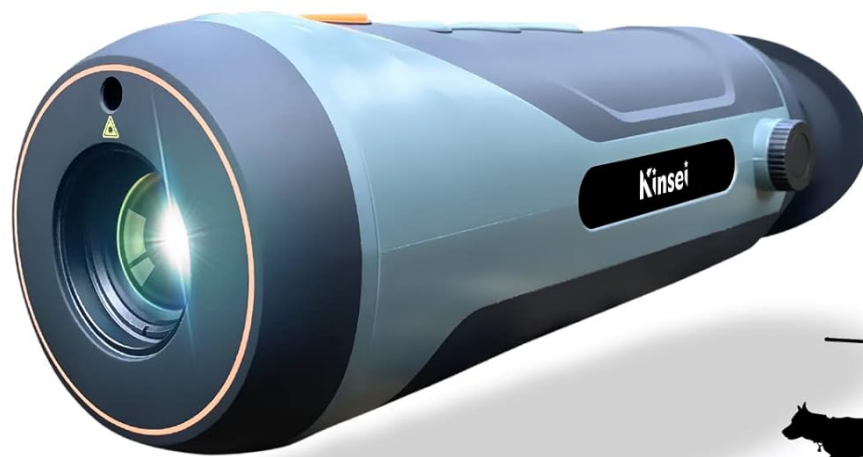
This manual provides detailed instructions for the safe and effective use of your KINSEI Thermal Imaging Monocular TPC-K40-G13. Please read this manual thoroughly before operating the device and retain it for future reference.

Safety Information

- Do not look directly at strong light sources (e.g., the sun) through the device, as this may cause permanent eye damage.
- Keep the device away from extreme temperatures, humidity, and direct sunlight.
- Do not attempt to disassemble or modify the device. Repairs should only be performed by authorized personnel.
- Ensure the device is fully charged before extended use.
- The L-pointer automatically deactivates after 10 seconds to protect eyes from potential injury.

HALTEN SIE NICHT BEI DER DUNKELHEIT

KINSEI® Thermal Imaging Monocular ist ein hervorragendes Werkzeug für die Erkundung der Natur nachts und bei schwachem Licht



A detailed view of the KINSEI Thermal Imaging Monocular, showcasing its design and lens.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- KINSEI Thermal Monocular (x1)
- Plug Converter (x1)
- Micro Charge/Data Cable (x1)
- Carrying Bag (x1)
- User Manual (x1)
- Various Connectors (x4)

MULTIFUNKTIONAL FÜR UNTERSCHIEDLICHE BEDÜRFNISSE



The KINSEI Thermal Monocular shown with water droplets, emphasizing its IP67 waterproof rating, alongside an illustration of the included accessories: thermal monocular, plug converter, micro charge/data cable, carrying bag, user manual, and various connectors.

3. PRODUCT OVERVIEW

The KINSEI Thermal Imaging Monocular is designed for enhanced observation in various conditions, including low light and complete darkness. It features a 13mm focal lens, 400x300 effective pixels, and 4x digital zoom.

Device Controls



A clear diagram labeling the controls of the KINSEI Thermal Monocular, including the Power On/Off button, Photo Capture button, Mode Switch, Digital Zoom buttons, and Diopter Adjustment knob.

- **Power On/Off Button:** Press and hold to power the device on or off.
- **Photo Capture Button:** Press to capture still images.
- **Mode Switch Button:** Cycles through display modes (Warm White, Warm Black, Warm Red, Heat Oxide).
- **Digital Zoom Buttons:** Adjusts digital magnification (1x, 2x, 3x, 4x).
- **Diopter Adjustment Knob:** Rotates to adjust the eyepiece focus for individual vision.

4. SETUP

4.1 Charging the Battery

The device includes a built-in rechargeable Lithium-ion battery. To charge:

1. Connect the micro charge/data cable to the device's charging port.
2. Connect the other end of the cable to the provided plug converter and then to a power outlet.
3. The charging indicator will show the charging status. A full charge provides approximately 5 hours of operation (with WiFi hotspot off at 25°C).

4.2 Powering On/Off

- **To Power On:** Press and hold the Power On/Off button until the display illuminates.
- **To Power Off:** Press and hold the Power On/Off button until the display shuts down.

4.3 Diopter Adjustment

Adjust the diopter to ensure a clear image for your individual eyesight:

- Look through the eyepiece.

- Rotate the Diopter Adjustment Knob until the image appears sharp and in focus.

5. OPERATING INSTRUCTIONS


5.1 Display Modes

The monocular offers four distinct display modes to optimize thermal imaging for different environments and preferences. Press the Mode Switch Button to cycle through them:

- **Warm White:** Hot objects appear white, colder objects appear black.
- **Warm Black:** Hot objects appear black, colder objects appear white.
- **Warm Red:** Highlights hotter areas in red, with varying shades for temperature differences.
- **Heat Oxide:** Provides a distinct color palette for thermal differentiation.

**Fortschrittliche Bildverarbeitung
die sich hervorragend für die Nachtjagd eignen**

4X DIGITALER ZOOM



ERFASSUNGSABSTAND



ERKENNUNGSABSTAND	98m(107yd)	
ERFASSUNGSABSTAND	382m(418yd)	
ERKENNUNGSABSTAND	255m(279yd)	
ERFASSUNGSABSTAND	1020m(1115yd)	

Illustration of the four thermal display modes: Warm White, Warm Black, Warm Red, and Heat Oxide, demonstrating how they help identify objects.

5.2 Digital Zoom

The device features a 4x digital zoom to magnify your view. Use the Digital Zoom buttons to adjust the magnification level:

- Press the '+' button to increase zoom (1x, 2x, 3x, 4x).
- Press the '-' button to decrease zoom.



A visual representation of the 4x digital zoom feature, showing how the image can be magnified from 1x to 4x.

5.3 Automatic Distance Measurement

The monocular includes a distance measurement function:

1. Highlight the top and bottom of a target on the screen.
2. The user interface will automatically display the estimated distance to the target.

5.4 Photo Capture

To capture a still image of your view, press the Photo Capture button. Images are saved to the internal memory or an inserted Micro-SD card (not included).

5.5 L-Pointer Function

The L-pointer is used to indicate a position. For eye safety, the pointer automatically deactivates after 10 seconds of use.

6. MAINTENANCE

6.1 Cleaning the Device

- **Lens:** Use a soft, lint-free cloth specifically designed for optical lenses. Gently wipe the lens surface. Avoid using abrasive materials or excessive force.
- **Body:** Wipe the device body with a soft, damp cloth. Do not use harsh chemicals or solvents.

6.2 Battery Care

- Charge the battery regularly, even if the device is not in frequent use, to maintain battery health.
- Avoid fully discharging the battery frequently.
- Store the device in a cool, dry place when not in use.

6.3 Storage

When storing the monocular for extended periods, ensure it is clean, dry, and stored in its protective carrying bag. Avoid storing it in areas with extreme temperatures or high humidity.

7. TROUBLESHOOTING

If you encounter issues with your KINSEI Thermal Imaging Monocular, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted battery.	Charge the device fully using the provided cable and adapter.
Image is blurry or out of focus.	Diopter not adjusted correctly.	Adjust the Diopter Adjustment Knob until the image is clear.
No image or distorted image.	Lens is dirty or obstructed.	Clean the objective lens with a soft, optical-grade cloth.
Buttons are unresponsive.	Temporary software glitch.	Power off the device and restart it. If the issue persists, contact customer support.

8. SPECIFICATIONS

The following table outlines the technical specifications of the KINSEI Thermal Imaging Monocular TPC-K40-G13:

Feature	Specification
Model Number	TPC-K40-G13
Objective Focal Length	13 mm
Effective Pixels	400x300 (50 Hz)
Lens Coating	Fully Multi-Coated
Pixel Pitch	17 μ m
Magnification	4x Digital Zoom
Display Modes	4 (Warm White, Warm Black, Warm Red, Heat Oxide)
Operating Temperature	-20 °C to +55 °C

Feature	Specification
Waterproof Rating	IP67
Detection Distance (Vehicles)	Up to 279 yards (255m)
Detection Distance (Animals)	Up to 107 yards (98m)
Screen Resolution	1280 x 960 (0.4 inch LCD)
Video Compression	H.265
Battery Type	1 Lithium-ion (included)
Battery Life	Approx. 5 hours (WiFi off, @25°C)
Weight	449.06 Grams
Dimensions (L x W x H)	18.75 x 6.65 x 6.85 cm

WASSERDICHT-IP67



PAKET ENTHALTEN



Thermisches Monokular x1



Steckerkonverter x1



Mikro-Lade-/
Datenkabel x1



Tragetasche x1 & Benutzerhandbuch x1



Britischer
Stecker x1



Europäischer
Stecker x1



Amerikanischer
Stecker x1



Australischer
Stecker x1

A table comparing the KINSEI Thermal Monocular's specifications with other brands.



13mm Objective Focal Length and Multi-Coated Lens.



400x300 Effective Pixels and 0.4-inch Screen.



H.265 Video Compression and 1280x960 Display.



IP67 Waterproof and Wide Operating Temperature.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The KINSEI Thermal Imaging Monocular TPC-K40-G13 comes with a **2-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product functions as intended under normal use. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact KINSEI customer support. Refer to the contact information provided on the product packaging or the official KINSEI website.

