

[Manuals.plus](#) /

› [Guide Sensmart](#) /

› Guide Sensmart TD210 Thermal Imaging Monocular User Manual

## Guide Sensmart Guide Sensmart-TD210

# Guide Sensmart TD210 Thermal Imaging Monocular User Manual

Model: TD210 (256x192, 50Hz) | Brand: Guide Sensmart

## 1. PRODUCT OVERVIEW

The Guide Sensmart TD210 is a lightweight, handheld thermal imaging monocular designed for enhanced night vision and detection in various outdoor conditions. It features a high-resolution thermal sensor, multiple display modes, and robust construction for reliable performance.



Figure 1.1: The Guide Sensmart TD210 Thermal Imaging Monocular.

### Key Features:

- **High-Resolution Thermal Camera:** Equipped with a 256x192 thermal imaging camera sensor and a 12 $\mu$ m infrared detector. Offers a recognition distance of up to 400 yards and a detection range of up to 1000 yards.
- **Compact and Portable:** Lightweight body designed for comfortable one-hand control and easy portability. Boots up in approximately 1 second.
- **Versatile Display Modes:** Features 5 color palettes (White Hot, Black Hot, Red Hot, Iron Red, Blue Heat) and a Picture-in-Picture (PIP) mode for enhanced target identification and detail highlighting.
- **Durable and Long-Lasting:** Built with IP66 waterproof rating for protection against heavy rainfall, dust, and impact. Operates in temperatures from -86°F to 140°F. Features a 0.4-inch 1280x960 FLCOS display and a replaceable battery providing over 8 hours of continuous operation.
- **Smart Connectivity:** Connects to a mobile application via Wi-Fi for real-time thermal image viewing and sharing.

# 256x192 THERMAL MONOCULAR



**10 MM**  
Focal Lens



**WIFI**  
Share Anytime



**1280 × 960**  
LCOS Viewfinder



**2 x**  
Digital Zoom



**IP66**  
Rugged  
and Durable



**8 Hours**  
Super Long  
Operation Time



**200m**  
Laser Indication  
Range



**Boot Up in 1**  
Seconds and  
Ready to use



Figure 1.2: Overview of the TD210's core features including 10mm Focal Lens, WiFi, 1280x960 LCOS Viewfinder, 2x Digital Zoom, IP66 rating, 8 hours operation, and 200m Laser Indication.

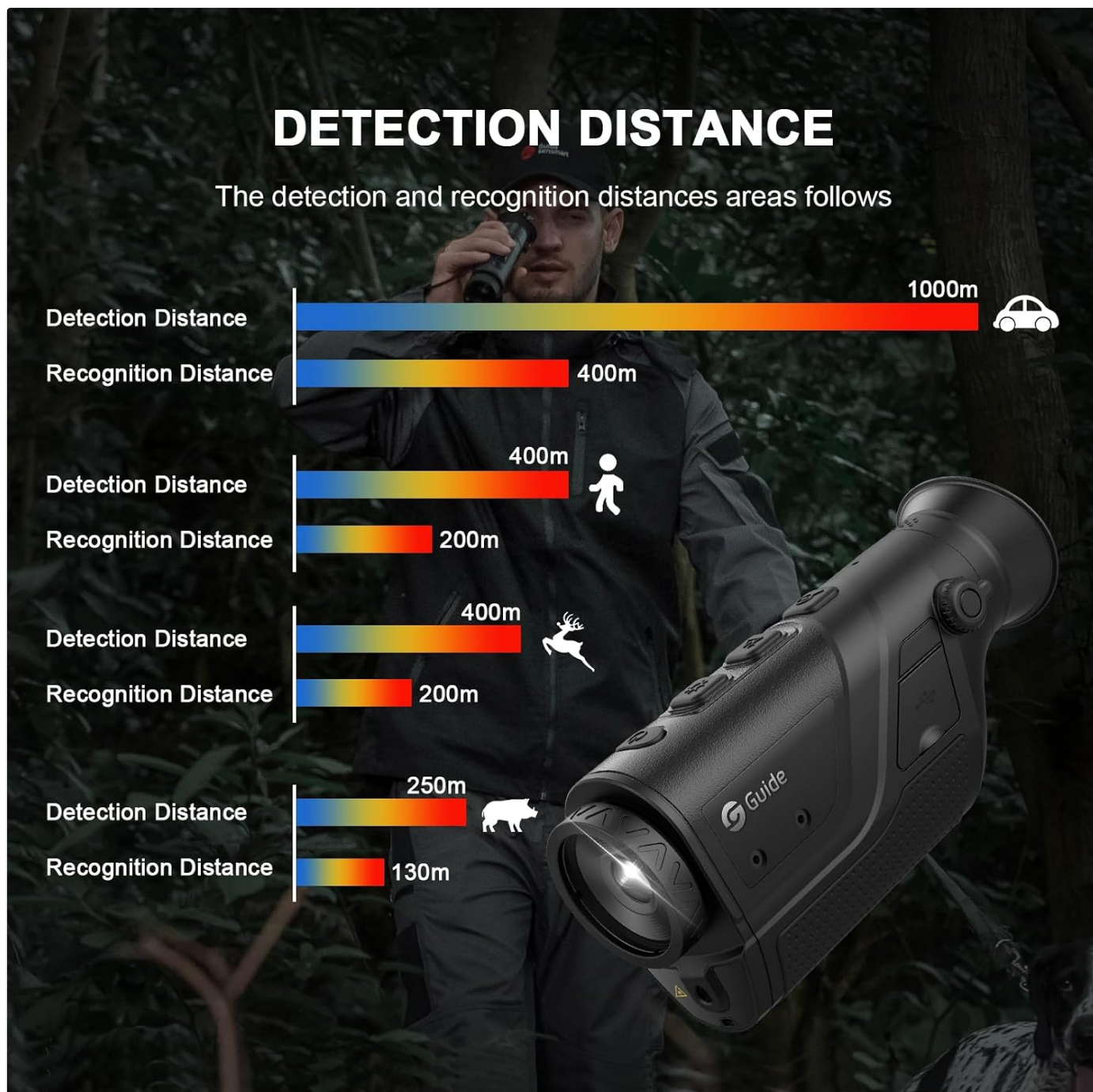


Figure 1.3: Detection and recognition distances for different targets, including vehicles, humans, deer, and boar.

## 2. GETTING STARTED: SETUP AND COMPONENTS

Before using your Guide Sensmart TD210, ensure all components are present and the device is properly set up.

### 2.1 Package Contents:

Your TD210 package should include the following items:

- Thermal Monocular (TD210)
- Battery Charger
- Single Rechargeable Lithium-Ion Battery
- Micro USB Cable
- Video Cable
- Lens Cap
- Wrist Strap

- Carry Bag
- Quick Start Guide



Figure 2.1: All included accessories and the TD210 monocular.

## 2.2 Initial Setup:

1. **Charge Battery:** Fully charge the provided rechargeable Lithium-Ion battery using the battery charger and Micro USB cable.
2. **Insert Battery:** Locate the battery compartment on the monocular (typically at the front or bottom). Insert the charged battery, ensuring correct polarity.
3. **Attach Eyecup:** Securely attach the desired eyecup to the eyepiece. Ensure it is firmly in place to prevent accidental detachment during use.
4. **Attach Wrist Strap:** For added security and to prevent drops, attach the wrist strap to the designated loop on the monocular.
5. **Power On:** Press and hold the Power Button (refer to Figure 3.1 for button layout) for approximately 1 second to turn on the device. The device is designed for quick boot-up.

Video 2.1: Official Guide Sensmart TD210 Unboxing video. This video demonstrates the contents of the package and initial setup steps, including battery insertion.

### 3. OPERATING INSTRUCTIONS

The TD210 is designed for intuitive operation with easily accessible controls.

#### 3.1 Control Buttons:

The main control buttons are located on the top of the device:

- **Power Button:** Turns the device on/off.
- **Brightness Button:** Adjusts display brightness (5 levels available).
- **Color Palettes Button:** Cycles through the 5 available color modes.
- **Zoom-IN Button:** Adjusts digital zoom (1.5x, 3x, and 1.5x with 3x PIP).

A Diopter Regulation knob is located near the eyepiece for adjusting focus to your vision.



Figure 3.1: Illustration of the monocular's control buttons and diopter regulation.

### 3.2 Display Modes and Palettes:

The TD210 offers various display options to optimize viewing for different environments:

- **Color Palettes:** White Hot, Black Hot, Red Hot, Iron Red, Blue Heat. Use the Color Palettes Button to cycle through these.
- **Scene Modes:** Natural Mode, Enhance Mode, Highlight Mode. These modes help in quickly identifying targets in complex outdoor scenes.
- **PIP Mode:** Picture-in-Picture mode allows you to zoom in on a specific target while maintaining a wider field of view, highlighting details.



Figure 3.2: Visual representation of the five color palettes and three scene modes available on the TD210.

### 3.3 Wi-Fi Connectivity and App:

The TD210 can connect to a dedicated mobile application via Wi-Fi, allowing for real-time viewing, recording, and sharing of thermal images and videos.

1. **Download App:** Download the official Guide Sensmart app (e.g., TargetIR) from your device's app store (Android and iOS compatible).
2. **Enable Wi-Fi:** On the TD210, activate the Wi-Fi function (refer to the Quick Start Guide for specific steps if not immediately apparent).
3. **Connect Device:** On your smartphone, connect to the TD210's Wi-Fi network.
4. **Launch App:** Open the app to view the live thermal feed, adjust settings, and capture media.



Figure 3.3: The TD210 connected to a smartphone app for real-time image sharing.

Video 3.1: Official Guide Sensmart TD210 Thermal Imaging Monocular promotional video. This video showcases the monocular's features, including its use in various scenarios, display modes, and app connectivity.

## 4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your TD210 monocular.

- **Cleaning:** Use a soft, lint-free cloth to clean the lens and body of the monocular. For stubborn smudges on the lens, use a specialized lens cleaning solution. Avoid abrasive materials or harsh chemicals.
- **Battery Care:** Always use the provided charger for the rechargeable battery. Store the battery in a cool, dry place when not in use. If storing the device for an extended period, remove the battery.
- **Waterproof Protection:** While the device is IP66 waterproof, ensure all port covers (e.g., USB-C port) are securely closed before exposure to water or dust.
- **Eyecup Security:** The rubber eyecup can sometimes detach easily. Periodically check its security and consider a small amount of adhesive if it frequently comes loose, ensuring it does not interfere with battery access or diopter adjustment.
- **Storage:** Store the monocular in its provided carry bag in a dry, temperate environment, away from direct sunlight and extreme temperatures.

## 5. TROUBLESHOOTING

This section addresses common issues you might encounter with your TD210 monocular.

| Problem                                               | Possible Cause                                                         | Solution                                                                                                                                                                                    |
|-------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image is blurry or out of focus.                      | Diopter not adjusted; lens smudged; focus ring not adjusted.           | Adjust the Diopter Regulation knob near the eyepiece. For optimal focus, long-press the Zoom or Brightness buttons to activate auto-focus or fine-tune manually. Clean the lens if smudged. |
| Device does not power on.                             | Battery is dead or incorrectly inserted.                               | Ensure the battery is fully charged and correctly inserted into the compartment with proper polarity.                                                                                       |
| Image appears "stuttering" or "freezing" momentarily. | Normal calibration process; environmental factors.                     | This can be a normal occurrence as the device performs internal calibration. If persistent or severe, ensure the device is operating within its specified temperature range.                |
| Cannot connect to Wi-Fi app.                          | Wi-Fi not enabled on device; incorrect app settings; distance too far. | Ensure Wi-Fi is enabled on the TD210. Verify app permissions and settings on your smartphone. Move closer to the device for a stronger signal.                                              |

*Note: The provided Quick Start Guide may offer additional specific troubleshooting steps.*

## 6. SPECIFICATIONS

Detailed technical specifications for the Guide Sensmart TD210 Thermal Imaging Monocular:

| Feature                   | Specification        |
|---------------------------|----------------------|
| Model Name                | Guide Sensmart-TD210 |
| Thermal Sensor Resolution | 256x192 (50Hz)       |
| Pixel Pitch               | 12µm                 |
| Display Type              | FLCOS                |

| Feature                   | Specification                          |
|---------------------------|----------------------------------------|
| Display Resolution        | 1280x960                               |
| Digital Zoom              | 1.5x, 3x (with PIP mode)               |
| Detection Range (Human)   | Up to 400 yards (approx. 365 meters)   |
| Detection Range (Vehicle) | Up to 1000 yards (approx. 914 meters)  |
| Battery Type              | Rechargeable Lithium-Ion (replaceable) |
| Operating Time            | More than 8 hours                      |
| Water Resistance          | IP66 Rated                             |
| Operating Temperature     | -86°F to 140°F (-65.5°C to 60°C)       |
| Item Weight               | 0.62 Pounds (approx. 281 grams)        |
| Material                  | Plastic, Metal                         |

## 7. WARRANTY AND SUPPORT

Guide Sensmart is committed to providing high-quality products and customer support.

### 7.1 Product Warranty:

The Guide Sensmart TD210 comes with a**3-year warranty** for the entire device from the date of purchase.

### 7.2 Technical Support:

Lifetime firmware updates and technical support are included with your purchase. For assistance, please refer to the official Guide Sensmart website or contact their customer service.

### 7.3 Additional Resources:

A detailed User Manual in PDF format is available for download:

[Download User Manual \(PDF\)](#)

© 2024 Guide Sensmart. All rights reserved.

### ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

### 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.

**Submit question**