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InfiRay T2 Pro

InfiRay T2 Pro Thermal Monocular for iPhone User Manual

Brand: InfiRay | **Model:** T2 Pro

1. INTRODUCTION

The InfiRay T2 Pro Thermal Monocular is a compact, high-performance thermal imaging device designed for use with iOS smartphones. It provides advanced night vision capabilities for a variety of outdoor activities, including hunting, wildlife observation, patrolling, and general security monitoring. With its high resolution, adjustable zoom, and intelligent features like hot spot tracking, the T2 Pro offers clear and detailed thermal images even in complete darkness.



Figure 1.1: InfiRay T2 Pro Thermal Monocular connected to an iPhone with an ergonomic handle.

2. WHAT'S IN THE BOX

Upon unboxing your InfiRay T2 Pro, please verify that all the following components are included:

- 1x InfiRay T2 Pro Thermal Monocular
- 1x Lens Cap
- 1x USB-C to Lightning Adapter Cable (for iOS connection)
- 1x T2 Pro Handle/Phone Mount
- 1x Protective Case
- User Manual (this document)



1X T2 Pro &
1X Lens Cap



1X T2 Pro Manual



1X T2 Pro Handle



1X Protective Case

Figure 2.1: All components included in the InfiRay T2 Pro package.

3. SETUP

Follow these steps to set up your InfiRay T2 Pro Thermal Monocular with your iPhone:

1. **Install the App:** Download and install the official InfiRay app from the Apple App Store. Ensure your iPhone's operating system is iOS 11 or above for compatibility.
2. **Assemble the Handle (Optional):** If using the included handle, attach your iPhone securely to the phone mount.
3. **Connect the Monocular:** Connect the InfiRay T2 Pro monocular to your iPhone's Lightning port using the provided adapter cable. For iPhone 15/15 Pro models with USB-C, an additional USB-C to Lightning adapter cable (ASIN: B0DLW8B2YY) may be required.

4. **Launch the App:** Open the InfiRay app on your iPhone. The app should automatically detect the connected monocular and display the thermal image.
5. **Initial Calibration:** The device may perform a brief calibration upon first connection or when ambient temperature changes significantly. This is normal.

For a visual guide on mounting and connecting the monocular, please refer to the video below:

Video 3.1: Demonstrates how to mount the T2 Pro infrared monocular and connect it to a smartphone.

4. OPERATING INSTRUCTIONS

The InfiRay T2 Pro offers various features to enhance your thermal imaging experience:

4.1 Zoom Functionality

The T2 Pro features a 13mm focal length lens with 2X to 15X zoom capability. To adjust the zoom, use a two-finger swipe gesture on your iPhone screen within the InfiRay app. This allows for clear viewing of objects at ultra-long distances, such as hogs up to 660 yards away.

Anti-Exposure-Exclusive Image Algorithm

Even in high-contrast environments, your images will be clear and detailed.



Figure 4.1: Adjusting zoom using a two-finger swipe on the app interface.

4.2 Dual-Mode Operation

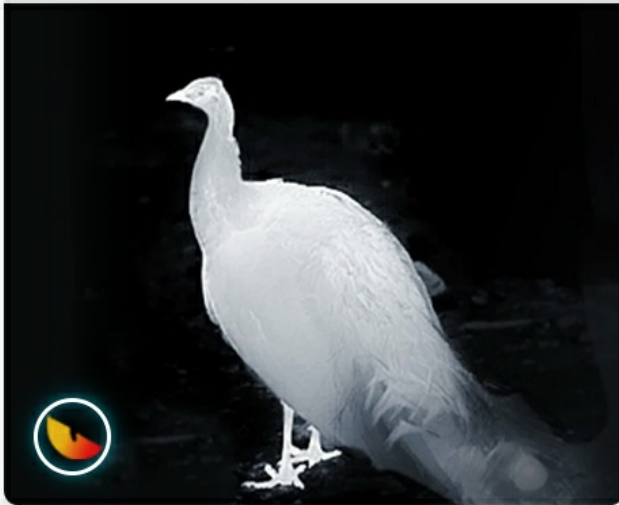
Easily switch between two primary viewing modes within the app:

- **Full HD Mode (Green Eye):** Utilizes High Definition (HD) technology and InfiRay's outdoor core to provide ultra-clear and sharp thermal images.
- **Highlight Mode (Red Eye):** This mode highlights targets, which is particularly useful when subjects are partially obscured by dense foliage or bushes.

Dual-Mode Tap to Switch

Full HD mode(green eye)

High Definition (HD) technology and InfiRay outdoor core provides ultra-clear and sharp thermal images.



Highlight mode(red eye)

Highlights the targets, especially when the prey is covered by dense forests and bushes.



Figure 4.2: Visual representation of Full HD and Highlight modes.

4.3 Hot Spot Tracking

The hot spot tracking feature allows the T2 Pro to quickly locate and track heat signatures, making it easier to identify and engage targets even in challenging environments. This built-in tool highlights areas of interest in your thermal image.

Dynamic Hot Spot Tracking



Figure 4.3: Dynamic Hot Spot Tracking in action.

4.4 Ninja Mode

This exclusive non-exposure technology ensures complete stealth during outdoor use, preventing disturbance to wildlife or targets. It is suitable for various applications including enforcement, patrolling, rescue, security monitoring, and property protection.

Hot Spot Tracking, Locking the Target

Built-in hot spot tracking feature, this tool highlights areas of interest in your image, making it easy to track and identify potential targets.



Figure 4.4: Anti-Exposure-Exclusive Image Algorithm for clear and detailed images.

4.5 Field of View (FOV)

The T2 Pro features a 13.6° x 10.2° field of view, providing a wider perspective compared to many other night vision scopes. This increased FOV improves efficiency when searching for targets while on the move.



Figure 4.5: Wide Field of View for enhanced situational awareness.

4.6 Applications

The InfiRay T2 Pro is versatile and can be utilized in numerous scenarios:

- Hunting
- Wildlife Exploration
- Patrolling
- DIY Home Inspections
- Car Repair Diagnostics
- Mountaineering
- Animal Observation
- Camping

InfiRay T2 Pro can be used in multiple scenarios such as hunting



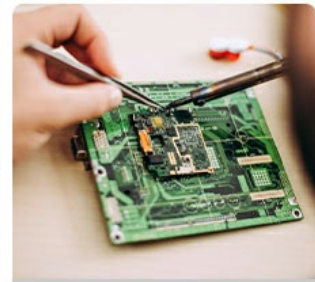
Hunting



Wildlife exploration



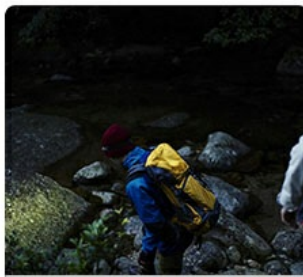
Patrolling



DIY home



Car repair



Mountaineering



Animal observation



Camping

Figure 4.6: Diverse applications of the InfiRay T2 Pro.

5. MAINTENANCE

To ensure the longevity and optimal performance of your InfiRay T2 Pro Thermal Monocular, follow these maintenance guidelines:

- **Lens Cleaning:** Gently clean the lens with a soft, lint-free cloth specifically designed for optics. Avoid using abrasive materials or harsh chemicals that could scratch or damage the lens coating.
- **Body Cleaning:** Wipe the monocular's body with a clean, damp cloth. Do not submerge the device in water.
- **Storage:** When not in use, store the monocular in its protective case in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cable Care:** Handle the adapter cable with care. Avoid sharp bends or excessive pulling that could damage the connectors or wiring.

6. TROUBLESHOOTING

If you encounter issues with your InfiRay T2 Pro, try the following troubleshooting steps:

- **Device Not Recognized:**
 - Ensure the InfiRay app is updated to the latest version.
 - Verify that the adapter cable is securely connected to both the monocular and your iPhone. A loose connection can prevent detection.
 - Restart the InfiRay app and/or your iPhone.
 - If using an iPhone 15/15 Pro, confirm you are using the correct USB-C to Lightning adapter cable (ASIN: B0DLW8B2YY).
- **Poor Image Quality:**

- Check the monocular's lens for dirt, dust, or smudges and clean it gently if necessary.
- Ensure the focus adjustment on the monocular is correctly set for your viewing distance.
- Try switching between Full HD and Highlight modes to see if image clarity improves.

- **App Crashing/Freezing:**

- Close and reopen the InfiRay app.
- Ensure your iPhone has sufficient available storage and memory.
- Check for any pending iOS updates that might improve app stability.

If these steps do not resolve the issue, please contact InfiRay customer support for further assistance.

7. SPECIFICATIONS

Feature	Specification
Product Dimensions	1.02 x 1.02 x 1.02 inches
Item Weight	2.31 pounds
Item Model Number	T2 Pro
Brand	InfiRay
Model Name	T2 Pro
Eye Piece Lens Description	Standard Eyepiece Lens with HD Coating
Focus Type	Manual Focus
Power Source	Corded Electric
Compatible Devices	Smartphone (iOS)
Lens Coating Description	HD Coating
Focal Length Description	13.0mm
Zoom Ratio	7.5 (2X-15X digital zoom)
Resolution	256x192
Frame Rate	25Hz
Field of View (FOV)	13.6° x 10.2°

8. WARRANTY & SUPPORT

InfiRay stands behind the quality of its products. For specific warranty details, please refer to the warranty card included with your product or visit the official InfiRay website.

Optional protection plans are available for extended coverage:







- 2-Year Protection Plan
- 3-Year Protection Plan

- Complete Protect (monthly subscription)

For technical support, troubleshooting assistance, or warranty claims, please contact InfiRay customer service through their official channels. Contact information can typically be found on the product packaging or the InfiRay website.

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Related Documents - T2 Pro

	<p>InfiRay AFFO Series Thermal Imaging Monocular User Manual</p> <p>This user manual provides comprehensive guidance for the InfiRay AFFO series thermal imaging monocular, detailing safety precautions, specifications, operational procedures, features, and troubleshooting for models AP09, AP13, AL19, and AL25.</p>
	<p>iRay Eye Series E3w C2w Thermal Monocular Quick Start Guide</p> <p>A quick start guide for the iRay Eye Series E3w and C2w thermal monocular devices, detailing operation, features, technical specifications, and important usage instructions.</p>
	<p>InfiRay FINDER Thermal Imaging Monocular Operating Manual</p> <p>This operating manual provides comprehensive instructions for the InfiRay FINDER series thermal imaging monoculars, including models FL25, FL25R, FH25, and FH25R. It covers product specifications, package contents, features, detailed operation, button functions, menu navigation, calibration procedures, photography and video recording, connectivity, maintenance, and troubleshooting.</p>
	<p>InfiRay Zoom Series Thermal Imaging Monocular Operating Manual (ZL38/ZH38/ZH50)</p> <p>Comprehensive operating manual for the InfiRay Zoom Series Thermal Imaging Monocular (models ZL38, ZH38, ZH50), covering safety information, specifications, package contents, description, features, components, button operations, battery management, external power, power on/settings, calibration, digital zoom, photographing/video recording, memory access, state bar, shortcut menu, main menu, PIP function, stadiametric rangefinder, hotspot tracking, Wi-Fi function, software updates, technical inspection, maintenance, troubleshooting, and legal information.</p>
	<p>InfiRay FINDER II Thermal Imaging Monocular Operating Manual</p> <p>Discover the InfiRay FINDER II Thermal Imaging Monocular (FL35R/FH35R) with this comprehensive operating manual. Learn about its advanced features, specifications, and how to use it for outdoor exploration, nature observation, and hunting.</p>
	<p>InfiRay EYE III Series Thermal Imaging Monocular User Manual</p> <p>Comprehensive user manual for the InfiRay EYE III series thermal imaging monocular, covering specifications, operation, features, safety, and maintenance for models EL25, EL35, and EH35.</p>