

**TOPDON<sup>®</sup>**

**Thermal Imager**



**TS004**

**Be Bold, Go Wild**

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## Brief

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Embark on wild adventures with the TS004, a thermal imaging monocular engineered to reveal the unseen, even in total darkness. Boasting a 13mm lens, it spots targets up to 450 yards (410 meters) away. With a recognition range of up to 100 yards (91 meters), it sees through fog and dense vegetation, revealing wildlife, people, and objects with ease.

Tailored for outdoor enthusiasts, farmers, and zoologists alike, the TS004 empowers you to observe wildlife, navigate trails, camp under the stars, or conduct search and rescue missions with confidence.

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# Thermal Module

**Resolution:**  
256\*192

**Focal Length:**  
13mm

**Pixel Interval:**  
12µm

**NETD:**  
< 40mK

**Detection Range:**  
450yd

**Field of View:**  
13.5° \* 10.1°

**Magnification:**  
1x, 2x, 4x, 8x

**Frame Rate:**  
50Hz

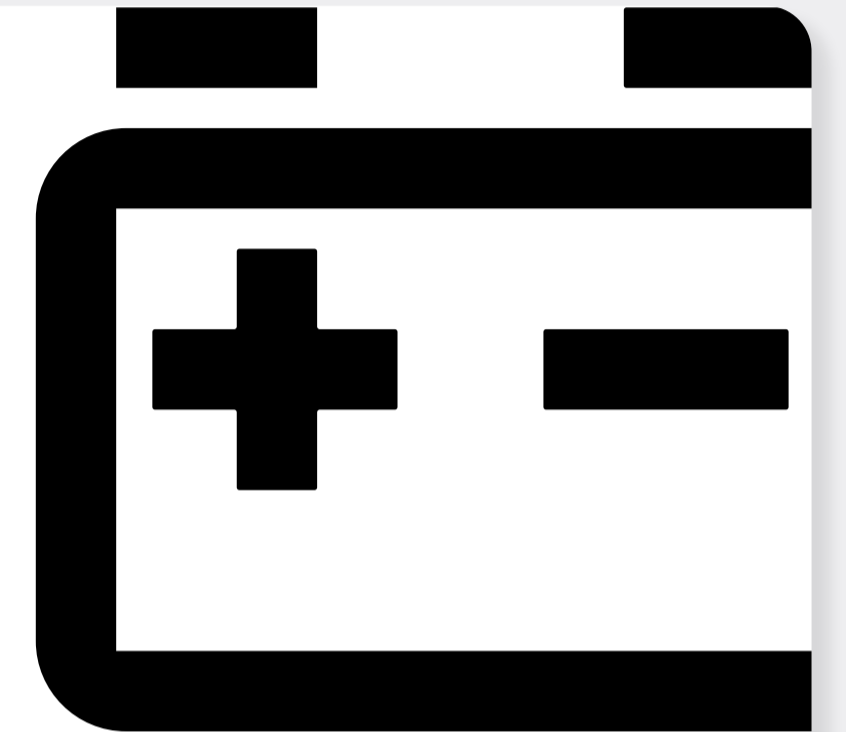
**Built-in Display:**  
640 × 480 LCOS Display



## Battery

**Battery Capacity:**  
5000mAh

**Battery Life (Operating):**  
11 Hours



## General

**Storage:**  
Built-in 32GB

**Protection Level:**  
IP67

**Weight:**  
310g

**Dimension:**  
180\*64\*54mm

**Operating Temperature:**  
-4°F to 113°F (-20°C to 45°C)



Brief

# Reveal the Unseen

The thermal monocular goes beyond visible light to deliver clear visuals even in complete darkness or low-light conditions. It features a **13mm lens** to deliver **up to 450yd detection range**, allowing you to spot wildlife from a distance or conduct search and rescue operations in challenging conditions.

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**Visible Light**



**Thermal Imaging**

Brief

# Unveil Outdoor Secrets with Clarity

Enter a realm where darkness holds no mysteries. With its 256\*192 high resolution and a rapid 50Hz refresh rate, this monocular penetrates darkness, fog, or dense vegetation, presenting vivid thermal images of observed wildlife.

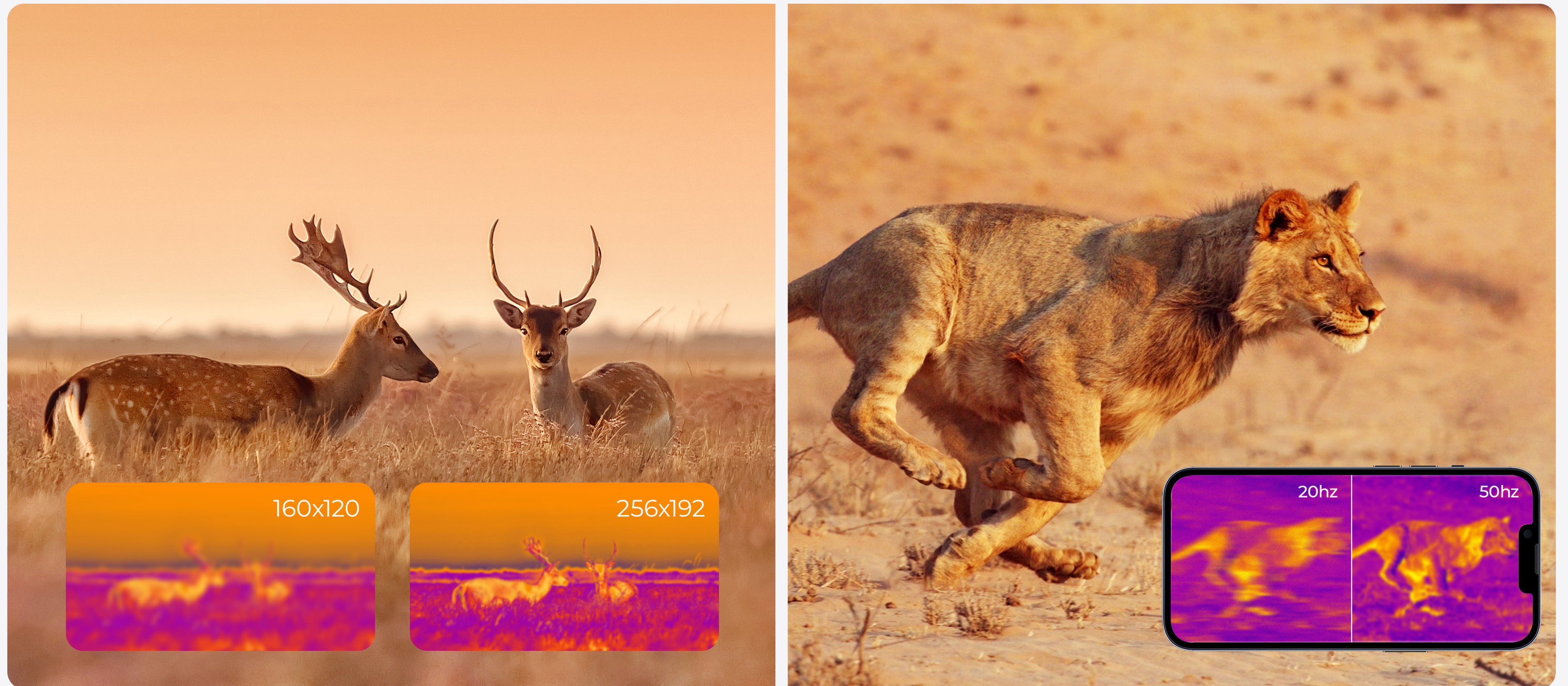
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Brief

# Diverse Color Palettes for Precision

Enhanced by five color palettes - Bird, White Hot, Black Hot, Red Hot, Fusion - it aids in swift and accurate object identification.

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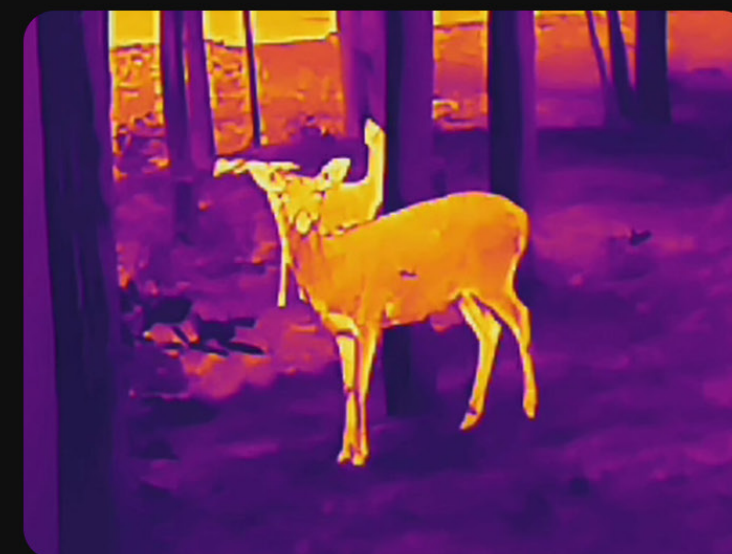
FAQs



Black Hot



White Hot



Fusion



Red Hot



Bird

Brief

# Stand Up to Any Environment

TS004 is engineered to endure whatever Mother Nature throws your way, boasting an IP67 waterproof rating that ensures resilience against heavy rainfall, snow, mud, and other forms of precipitation. With its robust construction, it's your reliable companion for all your outdoor explorations, ready to go anywhere you venture.

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# Longer Battery Life, Larger Storage Space

Powered by a high efficiency 5000mAh battery, the monocular remains operational for over 11 hours, providing ample time for outdoor activities without interruption. With built-in 32GB storage, effortlessly save and share your outdoor adventures. Never worry about running out of juice or space while out in the wild.

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11 Hours  
Battery Runtime

  
32GB Built-in  
Storage

Brief

# Real-Time Monitoring

Wirelessly connect to your phone via the TopInfrared app for hassle-free live monitoring. Seamlessly capture images and record videos with audio directly through the app, even when offline, ensuring you never miss a moment no matter where your adventures take you.

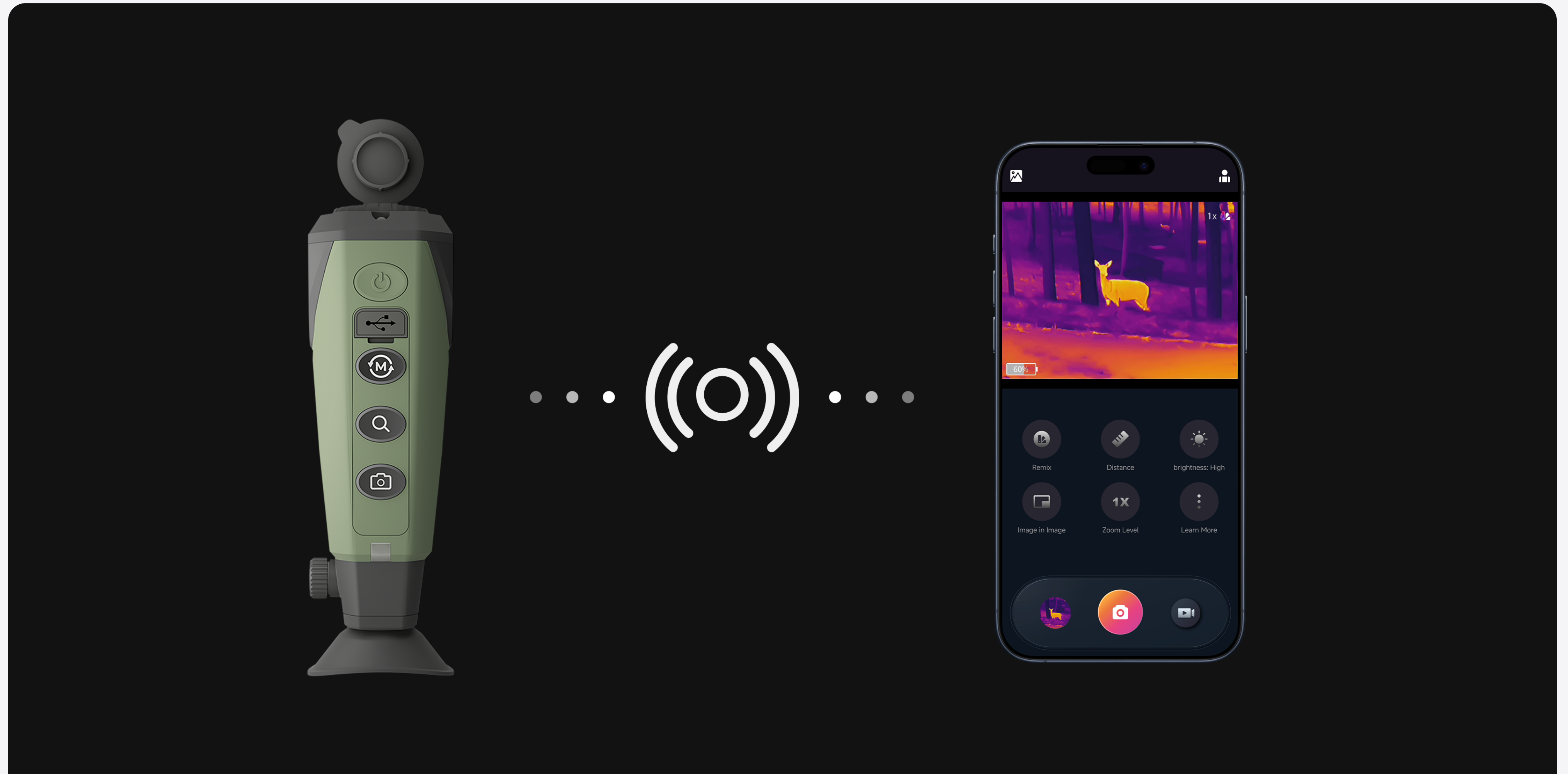
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# Explore the Wild with Ease

Crafted with your convenience in mind, this pocket-sized thermal monocular boasts a straightforward four-button interface and a waterproof hanging strap, making it an ideal tool for wilderness exploration.

Whether observing wildlife single-handedly or connecting to tripods for steady viewing, it offers versatility and ease of use in any outdoor setting.

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# Unlock More Outdoor Explorations

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**Wildlife Observation & Protection**



**Search & Rescue Operations**



**Farming**



**Camping**



**Hiking**

Brief



Specs

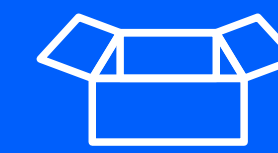
Features

**Comparison Chart**

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Specs		
Model	<b>TS004</b>	<b>TS005</b>
Ideal For	Beginners	Professionals
IR Resolution	256 * 192	384 * 288
Refresh Rate	50Hz	50Hz
Objective Lens	13mm	35mm (Adjustable)
Field of View (FOV)	13.5° * 10.1°	10.4° * 7.9°
Display	640 × 480 LCOS	1024 * 768 OLED
Detection Distance	450yd (410m)	1400yd (1280m)
Laser Rangefinder	×	650yd (594m)
Video Recording	✓	✓
Battery Capacity	5000mAh	Replaceable Battery, 3300mAh
Battery Life	11h	6h (2 batteries, 3h for each)
App	✓	×
Protection Level	IP67	IP65



# What's in the Box

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TS004 Thermal Monocular



USB-A to USB-C Cable



Hanging Strap



Carrying Bag



Quick User Guide

Brief

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**Question:** Can TS004 detect objects underwater, through glass or through a wall?

**Answer:** No. Infrared detectors mainly detect 8 to 14 $\mu$ m long-wave infrared areas, and can only be used to measure surface temperature.

Features

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**Question:** Can any phone be connected to TS004?

**Answer:** Currently, TS004 supports phones with Android 7 or later OS and phones with iOS 12 or later OS.

Comparison  
Chart

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**Question:** Is the focus of the camera fixed or adjustable?

**Answer:** The infrared camera comes with a fixed focus. The user can turn the diopter adjustment knob to optimize the sharpness of the image displayed in the viewfinder.

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**Question:** How long can I use TS004 to record videos?

**Answer:** You can keep recording videos before the battery of TS004 runs out. However, TS004 will automatically save the video every 20 minutes.

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Comparison  
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**Question:** How do I view the captured thermal images on a PC?

**Answer:** Connect TS004 to a PC via the USB cable, and then you can view the thermal images stored on TS004.

What's In  
The Box?





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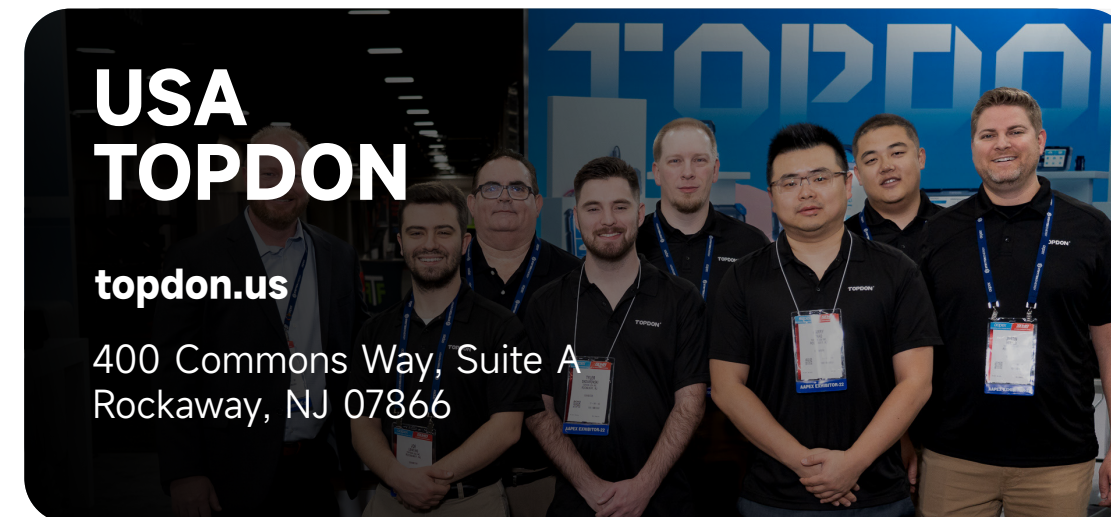
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