

TOPDON®

CATALOG THERMAL IMAGING



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THERMAL IMAGING

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DIAGNOSTIC TOOLS & KEY PROGRAMMER



SCAN FOR MORE TOPDON
SOLUTIONS

BATTERY SERVICE



SCAN FOR MORE TOPDON
SOLUTIONS

TOPDON makes automotive repair jobs an easier task. Whether you are professional, DIY enthusiast or beginner, you can experience the expertise with TOPDON. What TOPDON cares the most is to support customers from the very beginning of finding problems to solving the problems, and support them get what they need.

TOPDON was founded in 2017 and quickly gathered a group of automotive industry experts, DIY gearhead, and professional technicians to provide premium services for users. Used to be a pioneer of automotive aftermarket distribution channel for over 20 years, the founder knows what the clients want and he is trained to have keen eyes toward the industry, product, and clients. We focus on the current needs and prepare for future trends to always offer the best solutions for customers.

Whether it's one more solution or one more innovation, the smiles from our customers are the reason we keep going. Today, TOPDON has over 250 industry-leading engineers and owns over 500 patents and software Copyrights. We focus on making more accurate and efficient products and incorporating the newest technology into our products for our customers.

ABOUT TOPDON

BRAND MISSION

OUR MISSION:

WHAT DO WE DO?

TOPDON
Makes Automotive Repairs Easier

We are committed to evolving into a comprehensive automobile diagnosis solution provider, offering more than just tools. Our foremost priority is to assist clients throughout the entire process, from identifying issues to resolving them, with top-notch products and extensive customer support.

OUR VISION:

WHERE ARE WE GOING?

A One-stop Solution
Leading Provider For
Automotive Diagnosis



BRAND VISION

OUR VALUES:

WHO ARE WE?

PERSISTENCE

TOPDON has been dedicated to the automotive diagnostics industry for over two decades. We prioritize technology innovation and constantly enhance our user experience, striving each day to surpass our own previous achievements.

PASSION

Passion fuels our innovation. With unwavering dedication, TOPDON has experienced rapid growth, accumulating over 500 intellectual patents in technology and product development since its inception. We have invested tens of millions in research and development to continually enhance our products. Driven by passion, TOPDON is committed to achieving 100% satisfaction from both clients and partners.

PROFESSIONAL

TOPDON takes pride in its professionalism within the automotive aftermarket. Our core team boasts decades of collective experience in the industry. From R&D to production, marketing, and technical support, every department at TOPDON is committed to delivering professional-grade products and services.



2017

Established Shenzhen TOPDON Technology Co.

2018

Established TOPDON product brand center, assembled a professional branding team, and constructed a visual content film studio.

2019

Established a product development center and introduced trademark product categories, including "Automotive Diagnostic Tools", "Battery Service", and "Key Programmers".

2020

Released more than 20 new products.

2021

Established our US office and warehouse and released more than 20 new products to the global market.

2022

Established TOPDON EUROPE and expanded our market presence to over 60 countries. Established the TOPDON E-Mobility Center and successfully launched our inaugural EV charger.

2023

Expanding our market presence to 110+ countries, introducing 20+ new products to the market. We've also obtained ISO9001 certification.

BRAND HISTORY

THERMAL IMAGER

Thermal Imager



TC005

The TC005 is a handheld thermal camera that measures an expansive temperature range of -20°C to $+550^{\circ}\text{C}$ (-4°F to $+1022^{\circ}\text{F}$) and offers a 12-hour runtime. The high-resolution 256×192 pixel infrared camera lets you say goodbye to blurry images. The tool is ready for analysis with the standalone and the PC modes, enabling users to project and upload images from the TC to their PC. Added benefits of the TC005 include seven options for Pseudo-Color Display, a 2 MP visible light camera for overlapping images, and a picture-in-picture mode. With IP54 water protection and a 2 meter (6.6 ft.) drop-proof design, the TC005 provides a simple, professional, and efficient solution for electrical diagnosis, home maintenance, mechanical equipment maintenance, construction inspection, agriculture, forestry, and care of livestock.



Thermal Imager

TC005

■ Features

■ Packing List



**High-Resolution
Camera: 256*192 Pixels**



**Wide Temperature
Range: -20°C to 550°C
(-4°F to +1022°F)**



**4 Imaging Modes & 7
Pseudo-Color Options**



**IP54 Rating to Protect
Against Water and Dust**

Wide Field of View: 52.5°x 39.5°

PC Compatible

2 Megapixel Visible Light & Built-In LED light

Supports The Camera Timer Function

12-Hour Battery Life



Thermal Imager

TC005

■ Features

■ Packing List



TC005



Package Box



Storage Bag



Power Adapter



USB Data Cable



16G
Memory Card



User Manual



Product
Certificate



Calibration
Certificate



TC004

Introducing the TC004, a handheld thermal camera engineered to measure a wide temperature range, from -20°C to 350°C (-4°F to $+662^{\circ}\text{F}$), offering an impressive 12-hour runtime. With its high-resolution 256×192 pixel infrared camera, bid farewell to blurry images and experience enhanced clarity in your thermal imaging.

The TC004 is equipped with standalone and PC modes, enabling seamless analysis and allowing users to project and upload images from the camera to their PC for further evaluation. Featuring IP54 water protection and a robust 2-meter (6.6 ft.) drop-proof design, this thermal camera offers durability and reliability in various environments.

From electrical diagnosis to home maintenance, mechanical equipment maintenance, construction inspection, agriculture, forestry, and care of livestock, the TC004 provides a simple, professional, and efficient solution for a wide range of applications.



Thermal Imager

TC004

■ Features

■ Packing List



High-Resolution
Camera: 256*192 Pixels



Wide Temperature
Range: -20°C to 550°C
(-4°F to +1022°F)



IP54 Rating & 12-Hour
Battery Life



PC Compatible

Wide Field of View: 52.5°x 39.5°

Drop Proof Up To 2 Meters

Supports The Camera Timer Function

Built-In LED light



Thermal Imager

TC004

■ Features

■ Packing List



TC004



Package Box



Storage Bag



Power Adapter



USB Data Cable



16G
Memory Card



User Manual



Product
Certificate



Calibration
Certificate

Thermal Imager



TC003

The TC003 is a compact thermal camera, similar in size to a smartphone, that brings high-resolution thermal imaging within reach for a wide range of users. With its exceptional features, the TC003 delivers high-quality imaging at 256x192 resolution, boasts high-temperature sensitivity down to 40mk, and ensures precise thermal reading accuracy to within 0.1°C.

Additional advantages of the TC003 include a 5" touch screen for intuitive operation, a 2-megapixel visible light camera for complementary images, and temperature waveform graphing capabilities. This multifunctional thermal imager is specifically designed for equipment maintenance and inspection tasks, offering accurate thermal imaging services to support various maintenance activities such as professional automotive repair, HVAC systems maintenance, and crop protection efforts.



Thermal Imager

TC003

■ Features

■ Packing List



Expansive Testing
Range Of -20°C To
550°C (-4°F To +1022°F)



5" Large Touch Screen
With 800 X 480
Camera Resolution



4 Temperature
Reading Modes



4 Imaging Modes &
11 Color Palettes

Superior Image Quality with an IR Resolution of 256x192 Pixels

Accurate Temperature Readings Within $\pm 2^{\circ}\text{C}$ Or 2% Of Max Temperature for Error and Measure
Temperatures Down To 0.1°C Accuracy

Expanded Capabilities with OTG Function and Can Pair with Endoscopes, Oscilloscopes, And USB Drives

5" Large Touch Screen With 800 X 480 Camera Resolution

Compatible with Windows Laptops



Thermal Imager

TC003

■ Features

■ Packing List



TC003



Package Box



Carrying Case



USB Cable
(Type-A to Type-C)



Power Adapter



User Manual



Cleaning Cloth

Thermal Imager



TS001

Experience unparalleled clarity from near to far with the TS001, a long-focus Android thermal imager designed to capture sharp images, even for objects as close as PCB boards.

With a high-resolution 256x192 pixels infrared sensor and a smooth 25Hz frame rate, every detail is captured with precision. The TS001's adjustable 9mm lens covers distances from 0.1 to 500 meters, catering to various applications including building inspections, animal observation, auto repair, and PCB inspection. Equipped with measurement and observation modes, it provides accurate temperature readings and intuitive insights into heat distribution. Perfect for professionals such as home inspectors, automotive technicians, and electricians, the TS001 empowers you to detect, diagnose, and resolve issues with unparalleled clarity and efficiency.



■ Features

■ Packing List



The adjustable 9mm lens ensures clarity for objects both near and far.



Superior image quality with an IR resolution of 256x192



Observation mode swiftly captures targets with finesse



Picture-in-Picture Mode

The color bar highlights the desired temperature range easily

Monitor temperature change by waveform graph

Image secondary analysis

Customized infrared reports



Thermal Imager

TS001

■ Features

■ Packing List



TS001



Package Box



Carrying Case



USB Data Cable



Cleaning Cloth



Lens Cap



Thermal Camera
Holder



Quick User Guide

Thermal Imager



TC001 Plus

The TC001 Plus quickly turns your smartphone or computer into a powerful infrared thermal camera. Experience ultraclear images with impressive 256 x 192 resolution and an additional 100W pixel lens. Uncover hidden issues and explore beyond the visible. An extended temperature range from -4°F to 1022°F (-20°C to 550°C) enables accurate measurements for a wide variety of applications. Convenient pocket size provides portability without compromising on performance, ideal for home inspectors, HVAC technicians, electricians, automotive technicians, and even farmers looking to protect crops and livestock.



Thermal Imager

TC001 Plus

■ Features

■ Packing List



Clear and Detailed
Infrared Images with
100W Visible Light Lens



Superior Image
Quality with High IR
Resolution of 256 x 192



Wide Temperature
Range from -4°F to
1022°F (-20°C to 550°C)



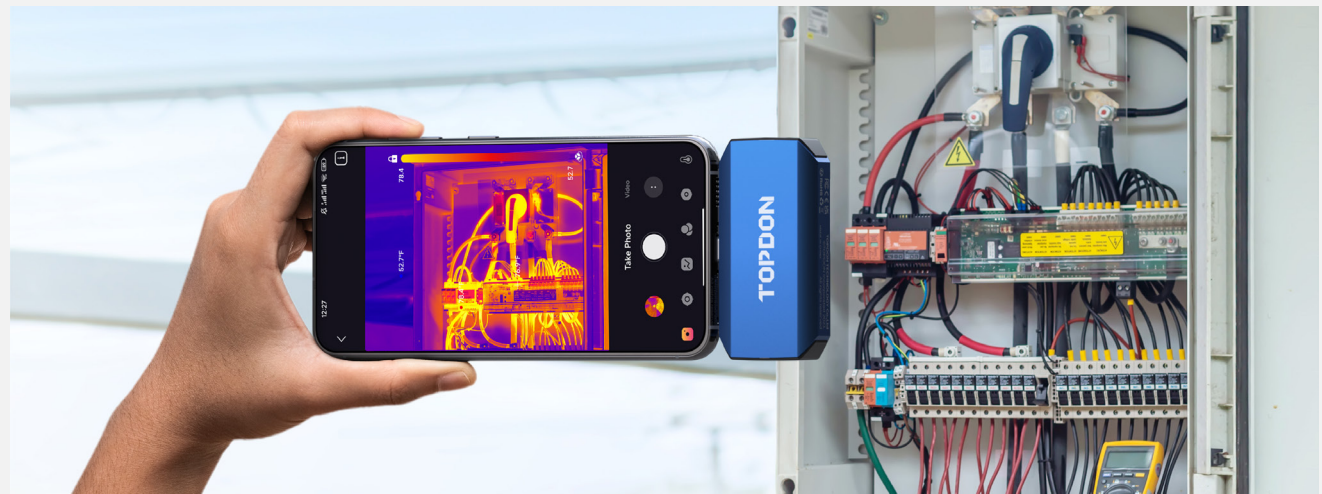
Accurate Measurement
with High Sensitivity
<40mK

Smooth Image with 25Hz High Frame Frequency

Monitor Temperature Change with Waveform Graph

Advanced Technology with Dual-lens Fusion for Troubleshooting

TCView Software for Reporting and Analyzing



Thermal Imager

TC001 Plus

■ Features

■ Packing List



TC001 Plus



Package Box



Carrying Case



USB Data Cable



Quick User Guide



Cleaning Cloth



TC002 & TC002C & TC001

TC002 & TC002C & TC001

The TC001, TC002, and TC002C transform your smartphone into a powerful thermal imager, bringing a technology previously exclusive to special forces directly to your fingertips. With numerous practical applications, these devices facilitate cylinder, insulation, or water leak inspections, and assist farmers in spotting animals at night.

Designed to deliver precise thermal imaging for a wide range of users, whether for home repair tasks, professional automotive services, or safeguarding crops and livestock, they are versatile tools suitable for various needs. Utilize the TC001 with Android devices, the TC002 with iOS lightning devices, and the TC002C with iOS Type-C devices to unleash the full potential of thermal imaging on your smartphone.



Thermal Imager

**TC002 & TC002C
& TC001**

■ Features

■ Packing List



Accurate temperature measurement detects Temperatures Ranging From -20°C to + 550°C (-4°F to + 1022°F)



Three models are available to support iOS (TC002 & TC002C) and Android (TC001) devices



Highly portable, weighing only 30g

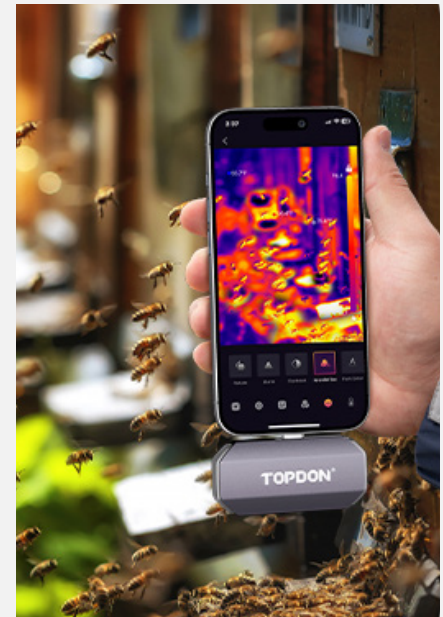


High-Quality Image Display with a High-Resolution Camera (256 X 192)

Record Temperature Data Through the App

Heavy-Duty Aluminum Enclosure, with a 2m (6.6 ft.) drop test rating

Use the app to view the real-time temperature graph



Thermal Imager

TC002 & TC002C & TC001

■ Features

■ Packing List



TC002



Package Box



Carrying Bag



Multifunctional
Adapter Cable



Type C Cable



Quick User Guide



Cleaning Cloth



TC001



Package Box



Carrying Bag



Multifunctional
Adapter Cable



Quick User Guide



Cleaning Cloth



TC002C



Package Box



Carrying Bag



Type-C to Lightning
Cable



50cm Type-C
Extension Cable



Quick User Guide



Cleaning Cloth

TOPDON
THERMAL IMAGER
COMPARISON
CHART

TC001

TC001 Plus

TC002

TC002C

TC005

ITEMS	TC001	TC001 Plus	TC002	TC002C	TS001
Compatible Systems	Android/Windows devices	Android/Windows devices	iOS devices (Lightning port)	iOS devices (Type-C port)	Android/Windows devices
Operating Temperature	-10°C~+50°C	-10°C~+50°C	-10°C~+50°C	-10°C~+50°C	-10°C~+50°C
Operating Voltage	5V	5V	5V	5V	5V
Measuring Range	-20°C ~ +550 °C (-4°F ~ +1022°F)	-20°C~ +550°C (-4°F~ +1022°F)	-20°C~ +550°C (-4°F~ +1022°F)	-20°C~ +550°C (-4°F~ +1022°F)	-20°C~ +550°C (-4°F~ +1022°F)
Temperature Resolution	0.1°C	0.1°C	0.1°C	0.1°C	0.1°C
Measuring Accuracy	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%	±3°C or ±3%
Device Weight (G)	30	30	30	30	45
Dimensions (mm)	71 x 42 x 14	71 x 42 x 14	71 x 42 x 14	71 x 42 x 14	70 x 28 x 44
Visible Light Camera	NA	1 megapixel	NA	NA	NA
Infrared Light Resolution	256*192	256*192	256*192	256*192	256*192
Image Modes	Thermal Imaging, Dual Fusion	Thermal, Visual, Fusion	Thermal Imaging, Dual Fusion	Thermal Imaging, Dual Fusion	Thermal Imaging, Dual Fusion
Pseudo Color Bar	10 colors	10 colors	10 colors	10 colors	10 colors
Frame Rate	25Hz	25Hz	25Hz	25Hz	25Hz
NETD	<40mK	<40mK	<40mK	<40mK	<40mK
Focal Range	3.2 mm	3.2 mm	3.2 mm	3.2 mm	9 mm
High/Low Temperature Alarms	Yes	Yes	Yes	Yes	Yes

TOPDON
THERMAL IMAGER
COMPARISON
CHART

TC003

TC004

TC005

ITEMS	TC003	TC004	TC005
Display Screen	5-inch, 854*480touchscreen	2.8 inch, 320*240screen	2.8 inch, 320*240screen
Operating System	Android	Linux	Linux
Compatible Systems	Android/Windows devices	Standalone use/Windows devices	Standalone use/Windows devices
Storage	2GB RAM+32GB storage	2GB RAM+16GB TF card	2GB RAM+16GB TF card
Battery Type	Built-in 5000 mAh battery	Built-in 5000 mAh battery	Built-in 5000 mAh battery
Operating Temperature	-10°C~+50°C	-10°C~+50°C	-10°C~+50°C
Measuring Range	-20°C ~ +550°C (-4°F ~ +1022°F)	-20°C ~ +350°C (-4°F ~ +662°F)	-20°C ~ +550°C (-4°F ~ +1022°F)
Temperature Resolution	0.1°C	0.1°C	0.1°C
Measuring Modes	Point, Line, Surface	Center spot, Hot spot, Cold spot	Center spot, Hot spot, Cold spot
Measuring Accuracy	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%
Device Weight (G)	367	520	520
Dimensions (mm)	221*140*186	280*165*120	280*165*120
Visible Light Camera	2-megapixel low-light night vision camera	NA	2 megapixels
Infrared Light Resolution	256*192	256*192	256*192
Image Modes	Thermal Imaging, Dual Light, Visible Light, Image in Image	Thermal Imaging	Thermal Imaging, Dual Light, Visible Light, Image in Image
Pseudo Color Bar	11 colors	4 colors	7 colors
Frame Rate	25Hz	25Hz	25Hz
NETD	<40mK	<40mK	<40mK
FOV	56° x 42°	52.5°x 39.5°	52.5°x 39.5°

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