FOTRIC TP320A

Thermal Camera for Smartphones



Outdoor Exploration

Equipment Inspection

Home Inspection

Plug and Play, Ready to Go

Connect to your smartphone and launch the app to begin inspection immediately.

- No charging required
- No complex configuration
- No boot-up waiting time





Compact and Portable

Easily fits into your pocket, backpack, or toolbox, bringing thermal imaging beyond traditional professional applications.

40g

Weight

Brand New Outlook

Featuring a new-generation streamlined industrial design that combines advanced aesthetics, ergonomic handling, and portability make professional tools look good.



Multi-Scenario Applications

Explore the Unknown, Discover the Unseen

- Observe animal activity traces at night
- Detect residual heat from campfire sources
- Monitor environmental temperature differences



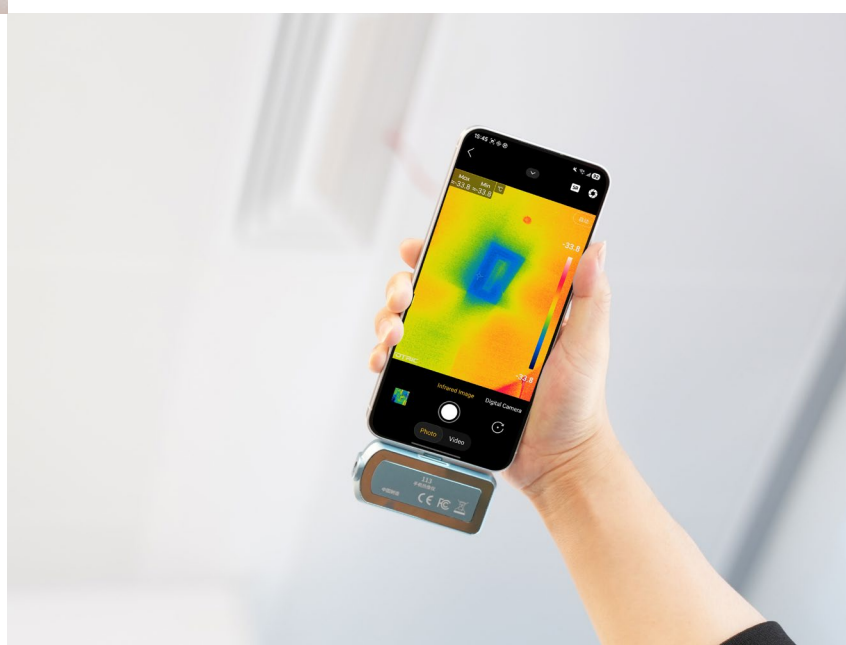


Quick Inspection Anytime, Fast Anomaly Detection

- Identify hot spots in electrical cabinets
- Inspect temperature rise in power distribution lines
- Monitor motor equipment temperatures
- Check HVAC air outlet performance

See the Temperature, Bring Peace of Mind

- Check baby drink temperatures
- Inspect floor heating performance
- Detect air leakage around doors and windows
- Verify home air conditioner cooling and heating performance



Specification

Basic Parameters

Infrared Resolution	320*240
Super Resolution	640*480
IR Detector Type	Uncooled infrared focal plane detector with ceramic packaging
Thermal Sensitivity (NETD)	<35mK@30°C
Spectral Range	8~14μm
Image Frame Rate	25Hz
Field of View (FOV)	60° *45°
Minimum Imaging Distance	0.2m
Focus Mode	Focus free

Temperature Analysis

Temperature Range	-20~550°C
Measurement Accuracy	±2°C (3.6 °F) or ±2%, whichever is greater.
Temperature Alarm	Support high or low temperature alarm for the global max or min temperature.

Image Display

Image Mode	Thermal image, Thermal image+ visible light image
Palettes	10

Data Connection

USB Port	USB Type-C, 2.0

Reliability and Certificates

Protection Level	IP40(GB/T 4208/IEC 60529)
Drop Resistance	Designed to resist 1m drop

Physical Parameters

Size	71mm*33mm*15.5mm
Weight	40g
Warranty	1 year

Compatible System

Compatible System	Android 12+
APP	FOTRIC Genie, download and update from Google Play Store
Analysis Software	AnalyzIR Professional Thermal Imaging Analysis Software

Product Configuration



1. Main Unit
2. USB Type-C Male-to-Female Cable
3. USB Type-C Male-to-Female Extension Cable
4. USB Type-C Female-to-Female Straight Coupler
5. Quick Start Guide
6. Handle Tripod
7. Extension Rod
8. Ball Head Mount ×2
9. Phone Holder Magnetic Base
10. Double-Ended 1/4” Screw Adapter ×2
11. Gear box

FOTRIC
Sense the Digital Future

Company Introduction

FOTRIC Inc. is specializing in innovative thermal and acoustic sensing solutions for a wide range of industrial safety applications. Serving over 50 countries, our expertise extends to defect detection, condition monitoring, and safety assurance in sectors like manufacturing, chemical processing, metallurgy, electric utilities, oil & gas, and building infrastructure.

From our inception, precision in measurement and superior imaging technology have been our hallmarks. As a certified high-tech enterprise, FOTRIC adheres to stringent quality standards, evidenced by our ISO: 9001, FCC, CE, and KC certifications. Our leadership in the industrial safety equipment sector is marked by a commitment to continuous innovation, integrating advanced technologies for comprehensive safety solutions.

Underpinning our global presence is a robust distributor network across North America, Europe, Latin America, Southeast Asia, and other regions. This network ensures not only reliable sales channels but also sound technical support for our worldwide customers.

Embracing the motto 'Sense the Digital Future', FOTRIC envisions a world where industrial safety is enhanced by smart, interconnected technologies. Our goal is to evolve continually, offering precise, data-driven tools that empower professionals to make informed decisions for safeguarding lives and livelihoods in the digital era.

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