



FOTRIC 320

Handheld Thermal Imager



FOTRIC 320 Series Handheld Thermal Imager

The FOTRIC 320 series of thermal imaging cameras are rugged, durable, accurate and portable, and are capable of current equipment diagnostic tasks. They also pioneered the integration of thermal imaging cameras and mobile phones into thermal imaging data terminals that meet the needs of more application scenarios.

Rugged | Durable | Accurate | Portable

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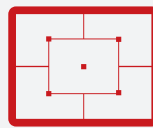
The main use of the thermal imager is to diagnose the potential defect when the device is running online. FOTRIC 320 series professional thermal imaging cameras are suitable for equipment inspection under severe conditions.



**-20~650°C Wide
Temperature Range**



**Auto High/Low
Temperature Spots**



**5 spots 5 boxes
Temperature Measurement**



**On-site Emissivity Set
on Smartphone**



**Record Radiometric Video
on Smartphone**



**User-Defined
Temperature Alert**

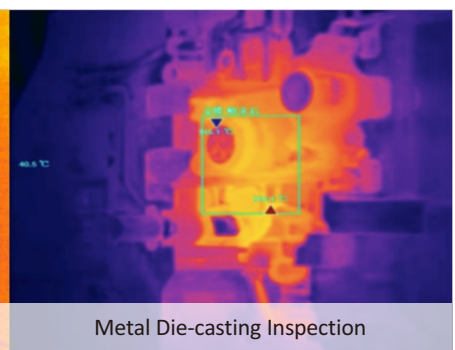
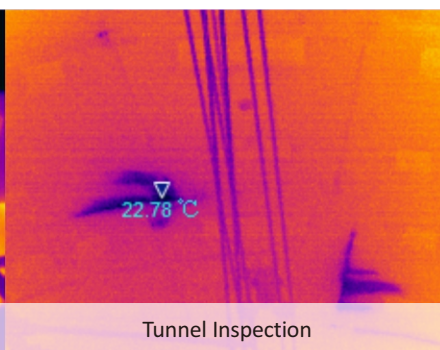
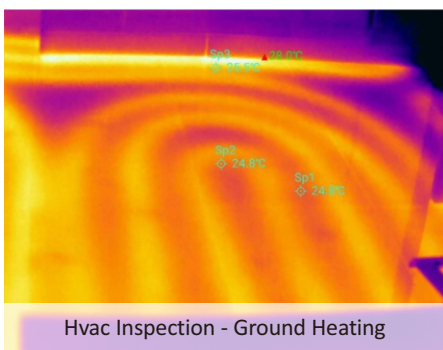
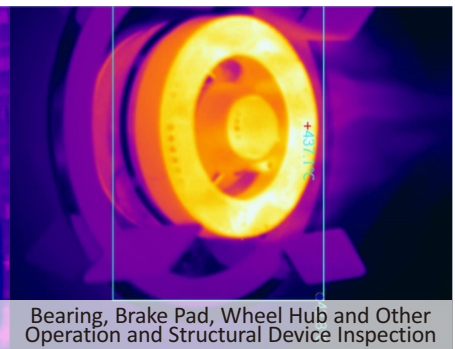
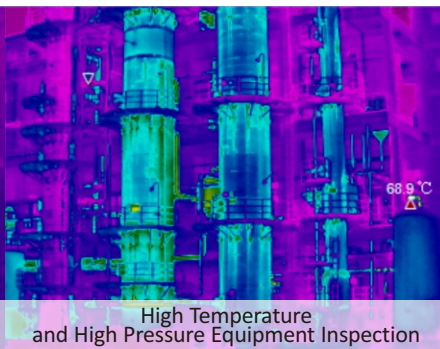
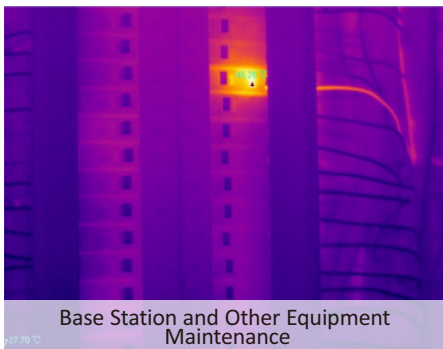
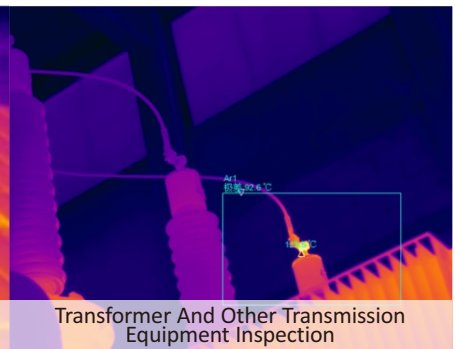
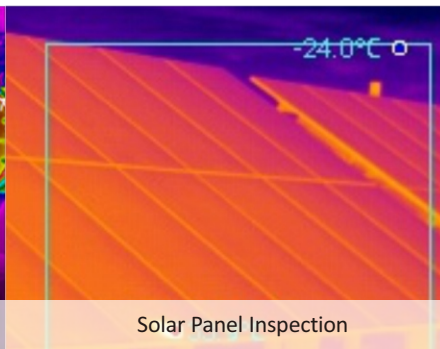
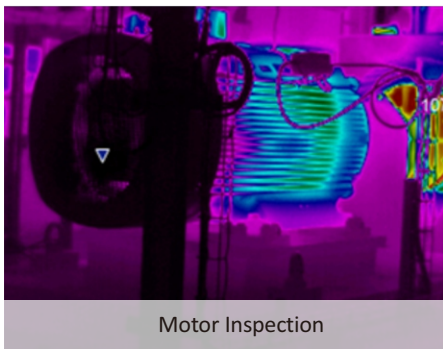
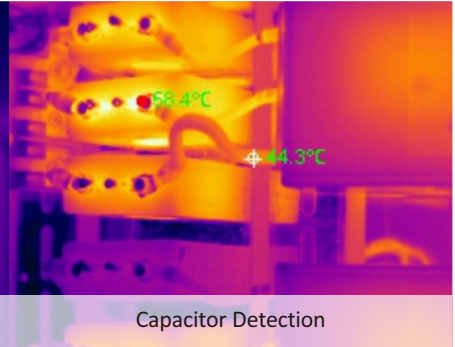
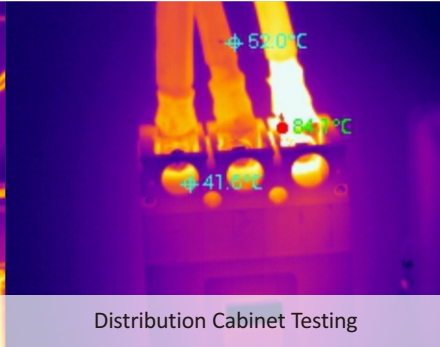


Text and Voice Annotation



**Cost-Effective
Optional Lenses**

Typical Applications



Specifications

	Fotric 326	Fotric 325	Fotric 324
Thermal Imaging			
IR Resolution	384×288	320×240	288×216
Field of View (FOV)	28°×21°	25°×19°	21°×16°
Thermal Sensitivity (NETD)	<0.06°C@30°C		
Spatial Resolution (IFOV)	1.27mrad		
Digital Zoom	1~8x		
Detector Type	Focal Plane Array (FPA) uncooled microbolometer		
Spectral Range	8~14μm		
Minimum Focus Distance	0.15m		
Focus	Manual		
Measurement and Analysis			
Temperature Range	-20°C~650°C (-4°F~1,202°F)		
Measurement Accuracy	±2°C or ±2% whichever is greater @ Environment Temperature 10°C ~35°C		
Automatic Capture of High and Low Temperature	Support		
ROI Measurement Modes	5 moveable area boxes (min/max) 8 moveable spots 1 moveable line (min/max)		
Correction Settings	Emissivity, reflected background temperature, relative humidity, ambient temperature, measuring distance, transmission		
Emissivity Adjustment	0.01~1.0, or pick up from the built-in material list		
Image Display			
Built-in Display Screen	3.5 inch		
Display Mode	Thermal image, visible light image, picture-in-picture fusion		
Color palette	5 color palette options		
Image Consistency Optimization	Automatic noise calibration FFC / Manual noise calibration FFC		
Professional Features			
Color Alarm (Isotherm)	Above / Below threshold		
Temperature Measurement Alarm	User-defined temperature threshold, audible and visual alarm of above/below temperature threshold		
Voice Annotation	60s voice annotation. Save with image.		
Text Annotation	Support text annotation. Save with image.		
Handheld Thermal Camera with Smartphone			
Take radiometric image on Smartphone	Support		
Take fully radiometric Video on Smartphone	Support		

	Fotric 326	Fotric 325	Fotric 324
Battery			
Battery Type	Rechargeable Lithium-ion		
Single Battery Use Time	2.5 hours		
Auto Shut-off	Support		
Storage and Transfer			
Image Save Mode	Single thermal image, Mixed image of thermal and visible light		
SD Card	Standard 16G		
Data Output	Micro-USB		
Video Output	Support, PAL/NTSC composite video		
Audio	Support, 3.5mm audio interface		
Power Supply and Environment			
Power Interface	DC 12V		
Operation Temperature	-20°C~50°C (-4°F~122°F)		
Storage Temperature	-40°C~70°C (-40°F~158°F)		
Relative Humidity	<90% RH		
Physical Parameters			
Enclosure Rating	IP54		
Weight	1,006g		
Size	310mm×130mm×110mm		
Warranty	2 Years		
Standard Configuration	Thermal imaging camera with standard lens, lens cover, power adapter, battery (2x), SD card, Micro-USB OTG cable (left/right), Micro-USB to USB cable, wrist band, getting started manual (with warranty card and certificate), calibration certificate, rigid portable case		

*Up to 3 lenses per camera (including standard lens)

Optional Lenses for Fotric 326

Fotric 326	L07-326 Super Telephoto Lens L15-326 Telephoto Lens L47-326 Wide-angle Lens
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Optional Accessories for FOTRIC 320 Series

Fotric S63 Portable Soft Case
Fotric B320 smartphone holder
Fotric S85 rechargeable lithium battery
Fotric S86 battery charger

About **FOTRIC**

Infrared Thermal Imaging Technology is the conversion of invisible infrared energy emitted from objects to visible thermal images through infrared detectors and optical imaging lenses. The different colors on the thermograph represent the different temperatures of the measured objects, so that the high/low temperature points and the temperature distribution can be judged intuitively and quickly. And FOTRIC, as a brand that focuses on Infrared Thermal Imaging Technology, comes from the following: FO is the abbreviation of the English word PHOTON that represents light, and TRIC is the abbreviation of the English word ELECTRIC.

FOTRIC is dedicated to the research and innovation of Infrared Thermal Imaging Technology. It integrates Internet-based thermal big data platform to optimize the user experience and improve the work efficiency. FOTRIC owns the ZXF laboratory in Dallas, Texas, USA, and established the "Infrared Photoelectric Technology Application Laboratory" in cooperation with the Wuxi Research Center of Shanghai Technical Physics Institute of the Chinese Academy of Sciences, as well as launched the "Academician's Expert Workstation" by the academician of the Chinese Academy of Science and Technology in the field of infrared and remote sensing. It has dozens of core invention patents and software copyrights in the mobile Internet and intellectualization of infrared thermal imaging system, along with the ISO:9001 quality system certification, it is a High-Tech Enterprise.

- In 2012, FOTRIC launched a large-scale network monitoring thermal imaging system, and developed its first thermal image monitoring APP, which leads to the integration of thermal imaging technology and the internet;
- In 2013, FOTRIC developed its advanced professional thermal imager based on Android smartphone;
- In 2014, FOTRIC launched an intelligent fire-detect thermal camera, which can independently complete the analysis of fire alarm and link them to the fire system. It won the innovation fund of the State Ministry of Science and Technology;
- In 2016, the 2nd generation smartphone based thermal imager FOTRIC 220 series was greatly praised by users, winning the first of the thermography image competition in the electric category of the American IR/INFO 2018.
- In 2017, based on internet cloud thermal camera, the Fotric 123 was released at CES in the USA. This innovated device provided the simplest user operations as the Internet cloud-based thermal camera.
- In 2018, FOTRIC launched the new Cloud-Based Thermal Imager, named "FOTRIC X Series." This series is based on the PdmiR thermal image data management system, with built-in industry standard and expert expertise, not only can it displays the temperature rising trend in real time, but also can generate the report by one-click. This strategic series will greatly reduce the user's data processing timing cost and studying cost; it has created a very innovative portable intelligent thermal imager category.

FOTRIC has its headquarters in Shanghai, China and Dallas, US, along with Beijing, Wuxi, Ji'nan and Xi'an for branches. FOTRIC have developed distributors in more than 10 countries and regions, such as Britain, Germany, Canada, South Korea, Singapore, and Australia, for a sound sales channel and technical support network to serve global customers. In January 2015, the company was officially listed on the new third board (stock code: 831598) and became a public company with a standardized operation.

The Mission: Improve efficiency and ensure safety

The Vision: Open up the thermal world for 123,456,789 people

The Values: Innovation, extraordinary, and integrity

On the 2018 New Year's Concert, FOTRIC conducted in-depth strategic cooperation with the Hunan satellite TV by applying the thermal imaging technology in a live show watched by more than 100 million people, continuously promoting the Infrared Thermal Imaging Technology to the public.



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