

# FOTRIC

CONNECTING THE DIGITAL FUTURE

## Your First Step to Professional Thermography



**FOTRIC TK Series**

Industrial Grade Thermal Camera

## Accurate Temperature Measurement

Precision at your fingertips – Perfect focus for flawless temperature readings.

- Manual focus, ensures concise measurement at all distances.
- 49° wide angle shot, to always see the big picture. Help you infer the root of the thermal anomaly.
- 40mk thermal sensitivity, unveil subtle flaws. No damp spot ever escapes your sight.

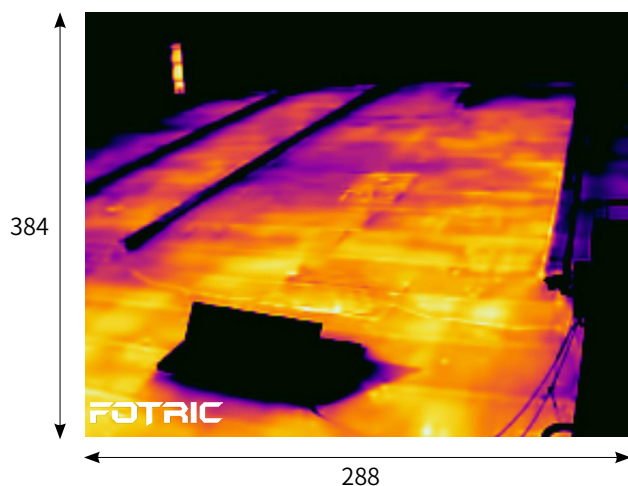


40mk thermal sensitivity reveal every anomaly

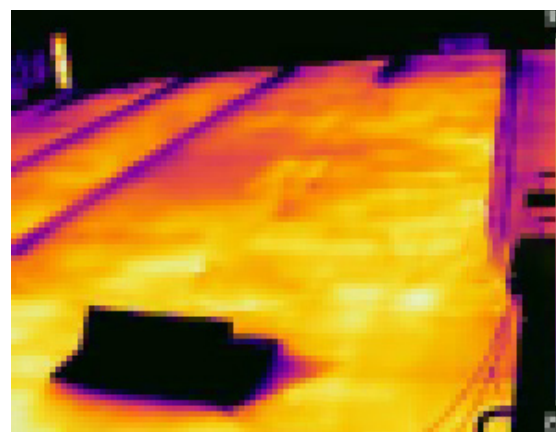
## Superior Image Quality

Image quality is more about aesthetics, but directly impacts the quality of your presentation.

- 384\*288 thermal pixels, presenting your findings with unprecedented clarity.
- Super resolution, boost the performance to expert level.
- T-DEF® Fusion 0~100% adjustable transparency. Select the best way present your finding.
- Touch span to highlight the anomaly against the environment.



Over 100000 pixels



Under 10000 pixels



## Robust and Intuitive Design

A perfect combination of ruggedness ingenuity.

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- Function shortcut button, tailor what the camera does to what you need.
- Spacious 3.5" LCD touch screen that enable both screen and button operation.
- 8MP industrial grade digital camera, enables flawless inspection result presentation.
- Dust and water resistant (IP54), made for durability and industrial adaptability.

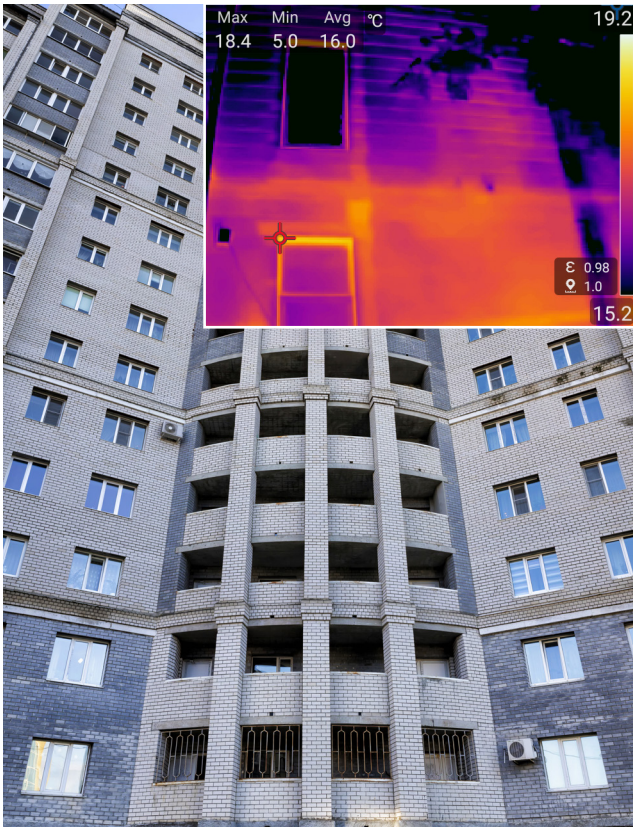
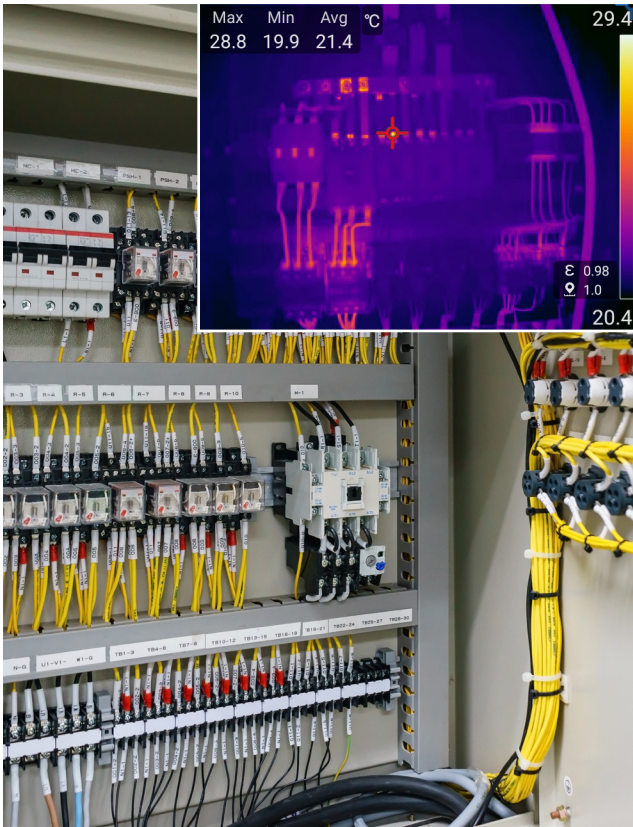
## Unparallel Response Speed

Your thermal camera should never slow you down. It's all about user experience.

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- Powered by Android, it flows as smoothly as your smartphone.
- Fluent remote control with every operation system (Windows, MacOS, Android, IOS), so you can access your work from everywhere.

# Applications



# Specifications

|                            | TK8                                                                                                                | TK7        |
|----------------------------|--------------------------------------------------------------------------------------------------------------------|------------|
| Core Parameters            |                                                                                                                    |            |
| Thermal Resolution         | 384*288                                                                                                            |            |
| Super Resolution(SR)       | Support                                                                                                            |            |
| IR Detector Type           | Uncooled FPA infrared detector                                                                                     |            |
| Thermal Sensitivity (NETD) | 40mk(0.04° C)                                                                                                      |            |
| Detector Pitch             | 17μm                                                                                                               |            |
| Spectral Range             | 7-14μm                                                                                                             |            |
| Frame Rate                 | 30Hz                                                                                                               |            |
| Field of View (FOV)        | 25° *19°                                                                                                           | 49° *37°   |
| IFOV                       | 1.14 mrad                                                                                                          | 2.23 mrad  |
| Minimum Focus Distance     | 0.1 m                                                                                                              | 0.5 m      |
| f-number (Focal length)    | f7.5                                                                                                               | f7.5       |
| Focus Mode                 | Manual focus                                                                                                       | Focus free |
| Digital Zoom               | 1-8x, continuous                                                                                                   |            |
| Temperature Analysis       |                                                                                                                    |            |
| Temperature Range          | -20 ° C ~ 350° C                                                                                                   |            |
| Temperature Range          | -20 ° C ~ 120° C, 0 ° C ~ 350° C                                                                                   |            |
| Measurement Accuracy       | ±2 ° C or 2% , whichever is greater (at 15 ° C~35° C ambient temperature)                                          |            |
| Measurement Tools          | Spot: 6 ;<br>Line: 3 ;<br>Rectangle/Circle: 4                                                                      |            |
| Measurement Parameters     | Emissivity, Ambient Temp, Partial Emissivity, Reflected Temp, Relative Humidity, Distance, IR Window Compensation. |            |
| Partial Emissivity         | Support                                                                                                            |            |
| ROI Alarm                  | Support                                                                                                            |            |
| Delta T/Temperature Rise   | Support                                                                                                            |            |
| On Device Analysis         | Support On-device Radiometric Image Analysis                                                                       |            |
| PC Software                | AnalyzeIR                                                                                                          |            |
| Image Display              |                                                                                                                    |            |
| Display Screen             | 3.5 inch Touch Screen                                                                                              |            |
| Image Mode                 | Thermal image、Visible light、Picture in Picture & T-DEF®                                                            |            |
| Palette                    | 8: Grey、Iron、Rainbow、GreyRed、Rain、GlowBow、Medical、Prism                                                            |            |
| Inverted Palettes          | Support                                                                                                            |            |
| Minimum Temperature Span   | Auto:3° C , Manual and Touch:2° C                                                                                  |            |
| Color Alarm                | Support                                                                                                            |            |
| Image Overlay              | Max, min, avg temperature and measurement parameters                                                               |            |
| Hot and Cold Spot Tracing  | Automatic recognition and tracing                                                                                  |            |
| T-DEF®                     | Adjustable transparency 0% ~100%                                                                                   |            |
| T-TWB®                     | Tempetrature visual representation normalization option                                                            |            |
| PIP                        | Moveable and Resizable                                                                                             |            |

# Specifications

| Capture Functions             |                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------|
| Digital Camera                | 8 MP industrial camera                                                                   |
| Storage Card                  | TF card, 32GB, expandable to 128GB                                                       |
| Single frame capture          | Support                                                                                  |
| Image Format                  | JPEG                                                                                     |
| Video Format                  | MP4                                                                                      |
| Freeze Image                  | Support                                                                                  |
| QR Code                       | Support                                                                                  |
| Voice Annotation              | Support (120 seconds)                                                                    |
| Text Annotation               | Support                                                                                  |
| Tags                          | Support                                                                                  |
| Favorite                      | Support (filter favorite files)                                                          |
| MP4 Recording                 | Support                                                                                  |
| Gallery                       | Support viewing, editing and deleting existing files                                     |
| Data Connection               |                                                                                          |
| WiFi                          | Support 2.4GHz&5GH channel, Support 802.11a/b/g/n/ac                                     |
| Bluetooth                     | Support                                                                                  |
| USB                           | USB Type-C type; USB 3.0 / 2.0 compliant, Support USB OTG                                |
| HDMI                          | Micro HDMI type, HDMI 1.4 compliant, Support 1080P imaging video streaming in 60Hz.      |
| Remote Access                 | Support                                                                                  |
| Remote Control                |                                                                                          |
| Mobile Access                 | Via Irexplorer                                                                           |
| Webpage Access                | Via Irexplorer                                                                           |
| Auxiliary Features            |                                                                                          |
| Software and Firmware Upgrade | TF card upgrade                                                                          |
| Laser                         | Level 2; wavelength: 635nm; Power: <1mW                                                  |
| LED Flash Lamp                | Support, serves as lamp and flash light                                                  |
| Power System                  |                                                                                          |
| Battery                       | Rechargeable Li-ion, 3.6V, 5000mAh                                                       |
| Battery Operation Time        | ≥ 4 hours                                                                                |
| Charging Methods              | Support battery dock adaptor and Type-C interface (compatible with cell phone charger).  |
| Battery Charging Time         | 3.5 hours to full-charge by battery dock. 2.5 hours to full-charge by connect to camera. |
| Energy Save                   | Auto Screen-off                                                                          |
| External Power Source         | Type-C connect to PC or Power adaptor (5V, 3A)                                           |
| Reliability and Certificates  |                                                                                          |
| Safety                        | SELV relay (GB 4943.1/IEC60950-1)                                                        |
| EMC Compatibility             | GB/T17626.2/IEC 61000-4-2                                                                |
| Enclosure Rating              | IP54                                                                                     |
| Drop                          | 2m(GB/T 2423.8/IEC 60068-2-32)                                                           |
| Shock                         | 25g(GB/T 2423.5/IEC 60068-2-27)                                                          |
| Vibration                     | 2g(GB/T 2423.10/IEC 60068-2-6)                                                           |
| RoHS Compliant                | Yes                                                                                      |

# Specifications

| Physical Parameters           |                                                                                                                                                                                                                             |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operation Temperature         | -20° C to 50° C                                                                                                                                                                                                             |
| Storage Temperature           | -40° C to 70° C, without battery                                                                                                                                                                                            |
| Relative Humidity             | <95%RH                                                                                                                                                                                                                      |
| Dimension (mm)                | 243*95*142mm                                                                                                                                                                                                                |
| Weight ( include battery)     | 0.8kg                                                                                                                                                                                                                       |
| Battery Weight                | 0.15kg                                                                                                                                                                                                                      |
| Casing Material               | Hard Plastic :PC+ABS, Soft Rubber:TPE                                                                                                                                                                                       |
| Mounting Method               | Support UNC 1/4-20 interface connecting tripod                                                                                                                                                                              |
| Warranty                      |                                                                                                                                                                                                                             |
| Warranty                      | 2 years                                                                                                                                                                                                                     |
| Recommended Calibration Cycle | 2 years                                                                                                                                                                                                                     |
| Language                      |                                                                                                                                                                                                                             |
| Supported Language            | English, Spanish, Korean, Italian, Germany, Portuguese, Traditional Chinese                                                                                                                                                 |
| Configurations                |                                                                                                                                                                                                                             |
| Standard Configuration        | FOTRIC handheld thermal camera, documentations( certificate of quality, certificate of calibration, warranty card, packing list), user manual, USB-Type C cable, TF card TF card reader, power adaptor, 2 piece of battery. |

# Innovation Excellence Integrity

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