

Advanced Test Equipment Corp. www.atecorp.com 800-404-ATEC (2832)



# Your First Step to Professional Thermography



#### **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.

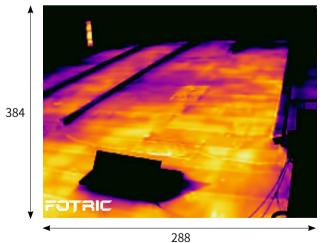


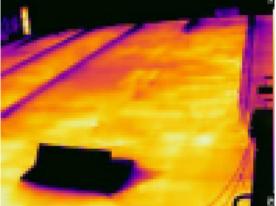
40mk thermal sensitivity reveal every anomaly

#### **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<sup>®</sup> 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.

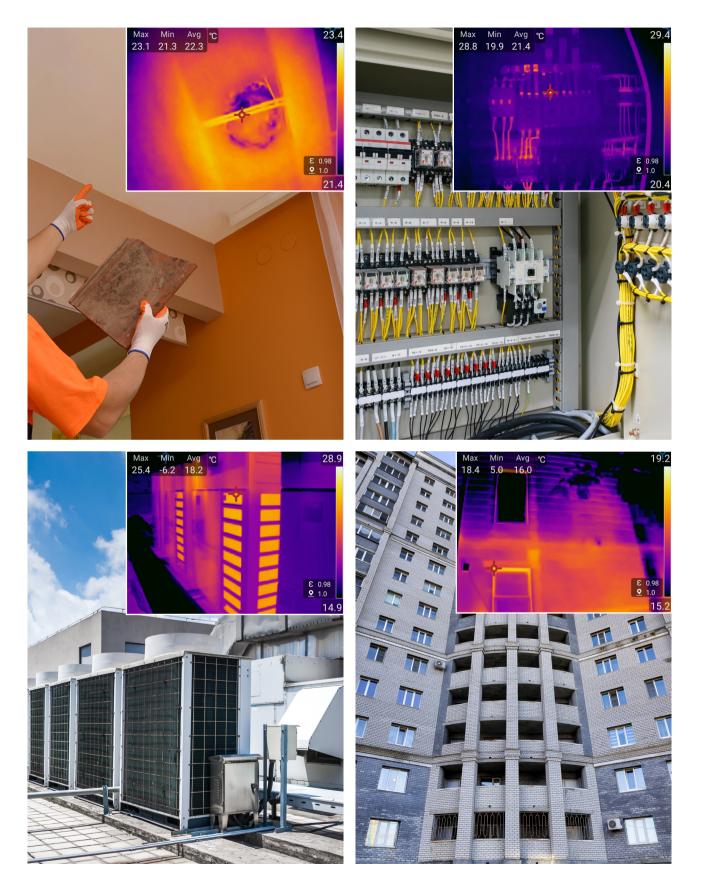
- Function shortcut button, tailor what the camera does to what you need.
- Spacious 3.5" LCD touch screen that enable both screen and button operation.
- 8MP industrial grade digital camera, enables flawless inspection result presentation.
- Dust and water resistant (IP54), made for durability and industrial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

#### **Unparallel Response Speed**

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

- 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

Core Parameters       Thermal Resolution (SR)     Support       Super Resolution (SR)     Support       IR Detector Type     Uncooled PR infrared detector       Thermal Sensitivity (NETD)     40mk(0.04° C)       Detector Pitch     17µm       Spectral Range     7.14µm       Frane Rate     30/2       Field of View (FOV)     25° * 19°     49° * 37°       IFOV     1.14 mrad     2.23 mrad       Minimum Focus Distance     0.1 m     0.5 m       Focus Mode     Manual focus     Focus Free       Digital Zoom     1-8x, continuous     Temperature Range       -20° C - 350° C     Temperature Range     -20° C - 350° C       Temperature Range     -20° C - 350° C     Temperature Range       -20° C - 350° C     Consent temperature)     Specie 6 ;       Resurement Accuracy     ±2° C or 2%, whichever is greater (at 15° C-35° C ambient temperature)       Resurement Tools     Specie 7 ;     C       Resurement Tools     Specie 7 ;     G       Roll Alarm     Support     Support       Rol Alarm     Support 0- device Radiometrici		TK8	TK7
Super Resolution(SR)Support SupportIR Detector TypeUncooled FPA infrared detectorIR Detector TypeUncooled FPA infrared detectorThermal Sensitivity (NETD)40mk(0.4° C)Detector Pitch17µmSpectral Range0.17µmFrane Rate30HzField of View (FOV)25° 1'9°IFOV0.114 mradIfOV0.114 mradIfonumber (Focal length)17.5Froutser (Focal length)17.5Froutser (Focal length)7.5Immer Range-0.5 mDigital Zoon0.5 mTemperature Range-20° C - 30° CTemperature Range-20° C - 30° CMeasurement Accuracy±2° C or 2%, whichever is greater (at 15° C-35° C ambient temperature)Special InsistivitySupport C - 35° CResurement ToolsSupport C - 35° C - 35° CResurement ParametersSupport C - 35° C - 35° CRotating INCLINGESupport C - 35° C - 35° CResurement ParametersSupport C - 35° C - 35° CRotating INCLINGESupport C - 35° CRotating INCLINGESupport C - 35° CRotating INCLINGESupport C - 35° CInterest ParametersSupport C - 35° CRotating INCLINGESupport C - 35° CRotating INCLINGESupport C - 35° CRotating INCLINGESupport C - 35° CInterest Parameters <th>Core Parameters</th> <th></th> <th></th>	Core Parameters		
IR Detector Type Unccoled FPAi intervent detector   Thermal Sensitivity (NETD) 40mk(0.04° C)   Detector Pitch 1/Jum   Spectral Range 7:4µm   Frame Rate 2.23 mrad   Field of View (FOV) 0.1 m   IFOV 0.1 m   IFOV 0.1 m   Frame Rate 0.5 m   Frame Rate 0.1 m   Focus Mode 0.5 m   Focus Mode 0.5 m   Focus Mode 0.5 m   Bigital Zoom 0.20° C > 30° C   Bigital Zoom 2.00° C > 30° C   Resurement Range -20° C > 10° C > 0° C > 30° C   Measurement Accuracy ±2° C or 2%, whichever is greater (at 15° C - 35° C ambient temperature)   Resurement Tools Speci 6 ; Line: 3 ; Rectangle/Circle: 4   Resurement Tools Emissivity, Ambient Temp, Partial Emissivity, Reflected Temp, Relative Humidity, Distance, IR   Nol Alarm Support On-device Radius   Poteix Analysis Support On-device Radius   Poteix Aritemerature Rise Support On-device Radius   <	Thermal Resolution	384	*288
Thermal Sensitivity (NETD) 40mk(0.04° C)   Detector Pitch 17µm   Spectral Range 7.14µm   Frame Rate 0   Frame Rate 0.1   Field of View (FOV) 25° 19°   IFOV 1.14 mrad   Minimum Focus Distance 0.1 m   Frame Rate 0.5 m   Focus Mode 0.1 m   Focus Mode Manual focus   Temperature Range -20° C - 350° C   Temperature Range -20° C - 120° C, 0° 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)   Spectre 6; ;   Itne: 3; Rectangle/Circle: 4   Measurement Tools Emissivity, Ambient Temp, Parital Emissivity, Reflected Femp, Relative Humidity, Distance, IR   No Lair Support   Delta 7/Temperature Range Support   Delta 7/Temperature Range Support   Partial Emissivity Support   Partial Emissivity Support   Delta 7/Temperature Range Support   Do letia 7/Temperature Rise Support   Portial Emissivity Support   Portial Emissivity Support   Do letia 7/Emperature Rise <	Super Resolution(SR)	Support	
Detector PitchInspace of the second sec	IR Detector Type	Uncooled FPA ii	nfrared detector
Spectral Range     T-14µm       Frame Rate     30Hz       Field of View (FOV)     25°*19°     49°*37°       IFOV     0.1.14 mrad     2.23 mrad       Minimum Focus Distance     0.1 m     0.5 m       F-number (Focal length)     fr.5     fr.5       Focus Mode     Manual focus     Focus free       Digital Zoom     1-8x, continuous     Focus free       Temperature Analysis     -20° C - 350° C     Free       Temperature Range     -20° C - 350° C     Free       Measurement Accuracy     ±2° C or 2%, whichever is greater (at 15° C S° C showner)     Free       Measurement Tools     Spott 6 ; Line: 3 ; Rectangle/Circle: 4     Free       Measurement Parameters     Emissivity, Ambient Temp, Partial Emissivity, Reflected Temp, Relative Humidity, Distance, IR Window Compensation.       Partial Emissivity     Support     Support       Rotangle/Circle: 4     Emissivity, Ambient Temp, Partial Emissivity, Reflected Temp, Relative Humidity, Distance, IR Window Compensation.       Partial Emissivity     Support Ton-device RadiveTre Image Analysis       Polta T/Temperature Rise     Support Support Not-device RadiveTre Image Analysis       Polsplay	Thermal Sensitivity (NETD)	40mk(0.04° C)	
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Teled 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)     f.7.5     f.7.5       Focus Mode     Manual focus     Focus free       Digital Zoom     0     Temperature Analysis       Temperature Range     -20° C ~ 350° C       Temperature Range     -20° C ~ 350° C       Measurement Accuracy     ±2° C or 2%, whichever is greater (at 15° C ~ 35° C ambient temperature)       Measurement Tools     Specirie 3; Rectangle/Circle: 4       Measurement Parameters     Emissivity, Ambient Temp, Partial Emissivity, Reflected Temp, Relative Humidity, Distance, IR Window compensation.       Partial Emissivity     Support       Rol Alarm     Support Support       On Device Analysis     Gasuremont On-device Radiometric Image Analysis       PC Software     Sinch Tourk Screen       Image Mode     Sterpy, Iron, Rainbow, GreyRed, Rain, GlowBow, Medical, Prism       Inverted Palettes     Si Grey, Iron, Rainbow, GreyRed, Rain, GlowBow, Medical, Prism       Image Mode     Sterpy, Iron, Rainbow, GreyRed, Rain, GlowBow, Medical, Prism       Image Overlay <t< th=""><th>Spectral Range</th><th colspan="2">7-14µm</th></t<>	Spectral Range	7-14µm	
IFOV1.14 mrad2.23 mradMinimum Focus Distance0.1 m0.5 mFnumber (Focal length)fr.5fr.5Focus ModeManual focusFocus freeDigital ZoomG1-8x, cours freeDigital ZoomG-20° C - 30° CTemperature Range-20° C - 120° C , ° C - 350° CMeasurement Accuracy±2° C or 2%, whichever is great rat 15° C - C35° C ambient temperature)Measurement ToolsSpot: 6 ; Lline: 3 ; Rectangle/Circle: 4Measurement ParametersEmissivity, Ambient Temp, Partial Emissivity, Reflected Temp, Relative Humidity, Distance, IR Window Compensation.Partial EmissivityGOn Device AnalysisSupport On-device Radiometric Image AnalysisPC SoftwareSupport On-device Radiometric Image AnalysisPC SoftwareS: Grey, Iron, Rainbow, Grey Ret Image AnalysisPatetteS: Grey, Iron, Rainbow, Grey Ret Image AnalysisInverde PalettesS: Grey, Iron, Rainbow, Grey Ret Image AnalysisIndeg OverlayAcutomatic rec:Inimum Temperature SpanAcutomatic rec:Image OverlayMax, min, avg temperature ameasurement parametersInde Cold Spot TracingAcutomatic rec:Hot and Cold Spot TracingAcutomatic rec:T-DEF*Acidi gatable transprese	Frame Rate	30Hz	
Minimum Focus Distance0.1 m0.5 mFnumber (Focal length)F7.5F7.5Fnocus ModeManual focusFocus freeDigital Zoom	Field of View (FOV)	25° *19°	49° *37°
fnumber (Focal length)f7.5f7.5Focus ModeManual focusFocus freeDigital ZoomGCOUSFocus freeDigital ZoomGCOUSFocus freeImage Image	IFOV	1.14 mrad	2.23 mrad
Focus ModeManual focusFocus freeDigital ZoomI-8x, continuousTemperature AnalysisTemperature Range-20° C ~ 350° CTemperature Range-20° C ~ 120° C, 0° C ~ 350° CMeasurement Accuracy±2° C or 2%, whichever is greater (at 15° C-35° C ambient temperature)Measurement Tools£2° C or 2%, whichever is greater (at 15° C-35° C ambient temperature)Measurement ParametersEmissivity, Ambient Temp, Partial Emissivity, Reflected Temp, Relative Humidity, Distance, IR Window Compensation.Partial EmissivitySupportRol AlarmSupportOn Device AnalysisSupport On-device Radiometric Image AnalysisPC SoftwareAnalyzIRImage DisplaySupport on device Radiometric Image AnalysisPC SoftwareSibinel Term, Rainage, Visible light, Picture in Picture & T-DEF*Palette8: Grey, Iron, Rainbow, GregRed, Rain, GlowBow, Medical, PrismInverted PalettesSupportMinimum Temperature SpanAuto:3° C, Manu I and Touch:2° CColor AlarmGatutomatic recognition and tracingImage OverlayAutomatic recognition and tracingHot and Cold Spot TracingAutomatic recognition and tracingT-DEF*Adjustable transparency 0% ~100%	Minimum Focus Distance	0.1 m	0.5 m
Digital Zoom     1-8x, continuous       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 Accuracy     ±2°C or 2%, whichever is greater (at 15°C - 35°C ambient temperature)       Measurement Tools     Spot: 6 ; Line: 3 ; Rectangle/Circle: 4       Measurement Parameters     Emissivity, Ambient Temp, Partial Emissivity, Reflected Temp, Relative Humidity, Distance, IR Window Compensation.       Partial Emissivity     Emissivity, Ambient Temp, Partial Emissivity, Reflected Temp, Relative Humidity, Distance, IR Window Compensation.       Partial Emissivity     Support       Rol Alarm     Support       On Device Analysis     Support On-device Radiometric Image Analysis       PC Software     AnalyziR       Image Display     Termerature Rise       Display Screen     3.5 inch Touch Screen       Image Overlay     Auto:3° C, Manual and Touch:2° C       Color Alarm     Support       Inverted Palettes     Support       Image Overlay     Max, min, ang temperature and measurement parameters       Hot and Cold Spot Tracing     Automatic recognition and tracing	f-number (Focal length)	f7.5	f7.5
Temperature AnalysisTemperature Range-20°C ~ 350°CTemperature Range-20°C ~ 120°C, 0°C ~ 350°CMeasurement Accuracy±2°C or 2%, whichever is greater (at 15°C ~ 35°C ambient temperature)Measurement ToolsSpot: 6; Line: 3; Retangle/Circle: 4Measurement ParametersEmissivity, Ambient Temp, Partial Emissivity, Reflected Temp, Relative Humidity, Distance, IR Window Compensation.Partial EmissivitySupportRol AlarmSupportOn Device AnalysisSupport On-device Radiometric Image AnalysisPC SoftwareAnalyzIRImage DisplaySupportDisplay Screen3.5 inch Touch ScreenImage ModeThermal image, Visible light, Picture in Picture & T-DEF*Patette%: Grey, Iron, Rainbow, GregRed, Rain, GlowBow, Medical, PrismInverted PalettesSupportInage OverlayMax, min, avg temperature and measurement parametersHot and Cold Spot TracingTemperature visual representation normalization option	Focus Mode	Manual focus	Focus free
Temperature Range-20°C ~ 350°CTemperature Range-20°C ~ 120°C, 0°C ~ 350°CMeasurement Accuracy±2°C or 2%, whichever is greater (at 15°C ~ 35°C ambient temperature)Measurement ToolsSpot: 6 ; Line: 3 ; Rectangle/Circle: 4Measurement ParametersEmissivity, Ambient Temp, Partial Emissivity, Reflected Temp, Relative Humidity, Distance, IR Window Compensation.Partial EmissivitySupportRol AlarmGOn Device AnalysisSupport On-device Radiometric Image AnalysisPC SoftwareAnalyzIRImage DisplaySupportPatette8: Grey, Iron, Rainbow, GreyRed, Rain, GlowBow, Medical, PrismInverted PalettesSupportMinimum Temperature SpanAuto:3°C, Manual and Touch:2°CColor AlarmSupportInverted PalettesSupportMinimum Temperature SpanAuto:3°C, Manual and Touch:2°CColor AlarmGImage OverlayMax, min, avg temperature and measurement parametersHot and Cold Spot TracingAutomatic recognition and tracingT-DEF®Adjustable transparency 0% -100%	Digital Zoom	1-8x, continuous	
Temperature Range-20°C - 120°C, 0°C - 350°CMeasurement Accuracy±2°C or 2%, whichever is greater (at 15°C - 35°C ambient temperature)Measurement ToolsSpot: 6; Line: 3; Rectangle/Circle: 4Measurement ParametersEmissivity, Ambient Temp, Partial Emissivity, Reflected Temp, Relative Humidity, Distance, IR Window Compensation.Partial EmissivityGeneration SupportPolta T/Temperature RiseSupportOn Device AnalysisSupport On-device Radiometric Image AnalysisPC SoftwareGeneration SupportDisplay Screen3.5 inch Touch ScreenImage ModeThermal image. Visible light. Picture in Picture & T-DEF®Palette8: Grey. Iron, Rainbow, GreyRed, Rain, GlowBow, Medical, PrismInverted PalettesSupportMinimum Temperature SpanAutomatic recognition and tracingInage OverlayMax, min, avg temperature and measurement parametersHot and Cold Spot TracingFee Adjustable transparency 0% ~100%T-TWB®Tempetrature visual representation normalization option	Temperature Analysis		
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T-DEF® Adjustable transparency 0% ~100%   T-TWB® Tempetrature visual representation normalization option	Image Overlay	Max, min, avg temperature and measurement parameters	
T-TWB <sup>®</sup> Tempetrature visual representation normalization option	Hot and Cold Spot Tracing	Automatic recognition and tracing	
	T-DEF <sup>®</sup>	Adjustable transparency 0% ~100%	
PIP Moveable and Resizable	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	
<b>Battery Operation Time</b>	≥ 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)	
<b>Reliability and Certificates</b>		
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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