

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

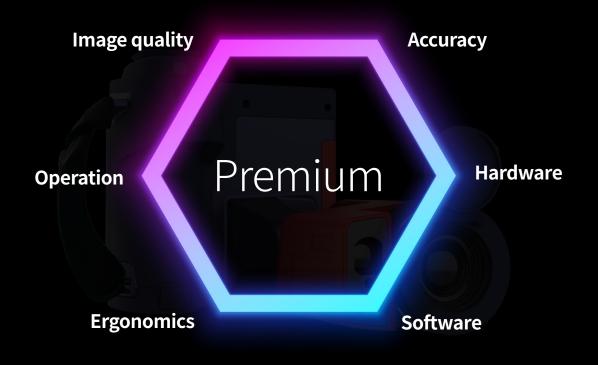
FOTRIC P Series | Premium Thermal Camera

Premium Thermal Camera

FOTRIC P Series

Cornerstones of a Premium Thermal Camera

Here in FOTRIC, We believe that achieving an exceptional level of performance in the following six aspects is essential for a premium camera.



Up to **1280*1024**

IR resolution

Renders pristine image clarity and unlocks unparallel precision for your inspection work

Covers **100% SRGB** Color gamut

LCD display accurately reproduces the entire sRGB color gamut, ensuring that it showcases the full extent of the camera's capabilities.



1280*1024 IR resolution (25° lens at 30m distance)

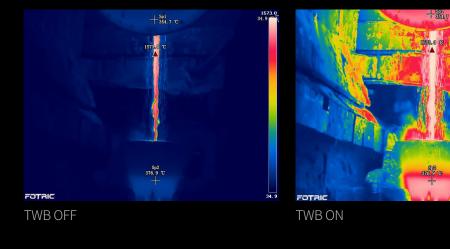


640*480 IR resolution (25° lens at 30m distance)

Compelling Image Quality -Firmware

TWB (thermal white balance) Feature

Magnifies subtle differences even at broad temperature range.



IREdge Imaging Algorithm

Optimize color pixel distribution to enhance image line prominence.





IREdge OFF

IREdge ON

Reach



Stay accurate at any ambient temperature

Up to **2000°C** temperature range

-20°C ~ 120°C , 0°C ~ 700°C Extendable to -40°C and 2000°C

Up to

1°C
image uniformity

Precise measurement throughout

Achieves **30mk** thermal sensitivity

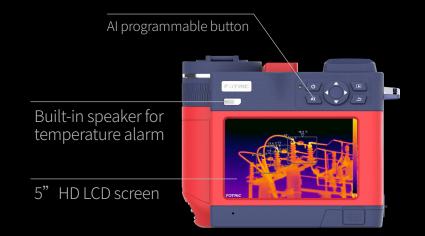
Reveal the most subtle details



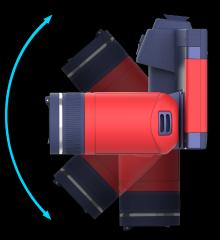
Meticulously Designed Hardware

Ergonomic Construct





Interchangeable lens on a 40-level rotary axis, provides the finest flexibility as well as stability

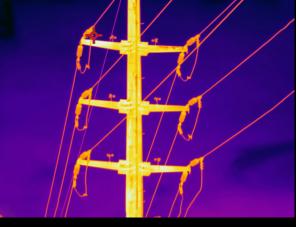


One Lens to See them All

Eliminate the need to carry and change an extra lens, saving both your time and space









25° Lens

12° Lens

7° Lens

Meticulously Designed Hardware

A Wealth of Alternatives





46°

Wide-angle Lens







12°

Telephoto Lens



7° Ultra Telephoto Lens



12° & 25° Dual Field of View Lens



7° & 25° Dual Field of View Lens

자 Laser assisted area measurement

Laser-assisted measurement of area, height, and distance data.

•

Android platform

Interface movement stay fluid even with **1TB** max storage.

A HawkAl

OCR instantly extract essential information during inspection.



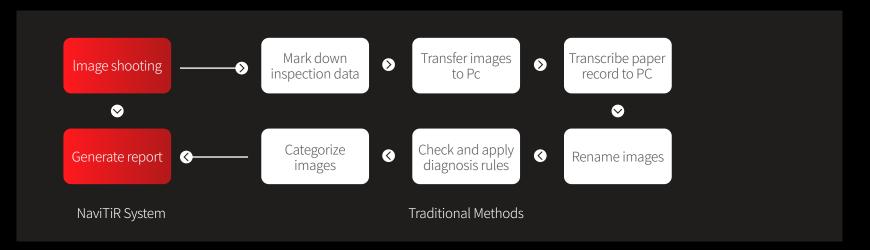
One click favorite

Filtering key information from vast sea of thermal images.



Powerful software-NaviTiR

Revolutionizing routine inspection









Al assistant at your hand

Object identification & Automatic diagnosis.





Traditional

NaviTiR - Object recognition



Powerful software-IRexplorer

Brings untrammeled communication

- Remote control via WiFi \diamondsuit or Self-equipped Hotspot \P
- No need for installation
- Across any platform 📲 Windows 🔬 Linux 🗯 MacOS/IOS 👘 Android
- Access and edit thermal files



Model	FOTRIC P9	FOTRIC P8	FOTRIC P7	FOTRIC P6	FOTRIC P5	FOTRIC P4			
Common Features	mmon Features								
Infrared Resolution	1280*1024 1024*768		640*480 480*360		384*288	320*240			
Super Resolution (SR)	2560*2048	2048*1536	1280*960	960*720	768*576	640*480			
Detector Type	Uncooled infrared focal plane detector								
Detector Pitch	12µm	12µm	17µm	17µm 17µm		17µm			
Thermal Sensitivity (NETD)	30mk(0.03° C)								
Infrared Spectral Band	7~14µm								
Frame Rate	30Hz								
Field of View(FOV)	25° x 19°								
IFOV with Standard Lens (spatial resolution)	0.34 mrad	0.43 mrad	0.68 mrad	0.91 mrad	1.14 mrad	1.36 mrad			
Minimum Focus Distance	0.4m	0.4m	0.25 m	0.25 m	0.1 m	0.1m			
Focal Lengths	f35	f35	f24.8	f24.8	f15	f15			
Focus Mode	TurboFocus ™ Speedy Intelligent Autofocus system for continuous, laser distance, graphic contrast,manual								
Lens Recognition			Au	uto					
Optional Lens	Refer to "Lens" Sheet Below								
Digital Zoom	1-32x	1-32x	1-16x	1-16x	1-12x	1-12x			
Key Features									
NaviTiR	Optional								
T-DEF [°]	Support								
IREdge	Support								
T-TWB [°]	Support								

Temp Analysis									
Temperature Range		20°C ~ 2000°C (-4° F to 3632° F		-20°C ~ 1550°C (-4° F to 2822° F)					
Measurement Range		° F to 248° F),0°C ~ 700°C (32 0°C ~2000°C (572° F to 3632°			°F to 248°F),0°C ~ 700°C (32 0°C ~1550°C (572°F to 2822°				
Low Expansion (Optional)		Support extension: lowest to -40°C			Support extension: lowest to -40°C				
Intelligent in Temperature Range Adjustment			Supp	port					
Accuracy	\pm 1°C or \pm 1 %, whichever	is greater (ambient temp at 2 other tempe	25°C , temperature range 0° C-: erature range	100° C), \pm 2°C or \pm 2 % for	\pm 2°C or \pm 2 %, w (ambient te				
User-definable Spot Markers (on device)	30 spot markers	30 spot markers	25 spot markers	20 spot markers	20 spot markers	20 spot markers			
User-defined Measurement Boxes (on device)	30 (rectangle or circle)	30 (rectangle or circle)	25 (rectangle or circle)	20 (rectangle or circle)	20 (rectangle or circle)	20 (rectangle or circle)			
User-defined Measurement Lines (on device)	30 measurement lines	30 measurement lines	25 measurement lines	20 measurement lines	20 measurement lines	20 measurement lines			
User-definable ROI on PC software	Unlimited								
On-screen Analysis	Emissivity, Partially emissivity, Reflected temperature, Ambient temperature, Humidity, Distance and IR window compensation.								
On-Screen Temperature Test	Temp Rise Test, Temp Differentiation Test								
Sound Alarms	Area alarm; High temperature alarm and low temperature alarm								
Color Alarms (temperature alarms)	High temperature, low temperature, and interval isotherms								
PC Software	AnalyzIR,NaviTiR								
Image Display									
Display	5inch (landscape)1280*720								
View-Finder (Optional)	0.5inch OLED, 800*600								
Image Mode	Thermal\Digital\Picture-in-Picture\T-DEF®								
Palettes	16 standard palettes: Grey、Iron10、Iron、Rainbow、Grey10、GreyRed、MidGrey、Yellow、Rain、Rain10、Blue、GlowBow、Medical、Medical10、MidGreen、Prism. 16 inverted palettes								
Temp Scale	Auto (Minimum Temp Span 3°C), Manual (Minimum Temp Span 2°C), Touch-screen(Minimum Temp Span 2°C)								
Highest/Lowest Temp Spot Mark		Yes,full-scree	n and measurement boxes bo	oth with highest/lowest temp	spot marker				

Imaging Mode										
Digital Camera	5-mega pixel and 13-mega pixel									
Storage	SD card of 256GB memory, support expansion to 2TB	SD card of 256GB memory, support expansion to 2TB	SD card of 128GB memory, support expansion to 2TB	SD card of 128GB memory, support expansion to 2TB	SD card of 64GB memory, support expansion to 2TB	SD card of 64GB memory, support expansion to 2TB				
Shooting Mode	Support on Single Frame Rate Capture and Timing Capture									
Image/video File Formats	Standard JPEG full radiometric thermal images, digital images, .IRS full radiometric thermal videos, .MP4 non-radiometric videos									
Image Freezing	Support on Single Frame Rate thermal imager and full-radiometric video									
Scan Function	Support for QR code and Barcode									
Annotation			Support Voice\Text\	Bookmark\Favorate						
Analyze Radiometric Image Data (On-screen)		Support								
Analyze Radiometric Video Data (On-screen)	Support									
Non-Radiometric Video	Support									
Gallery	Image preview and analyze, video preview and analyze									
Data Connectivity										
WiFi Connection		Su	ipport 2.4GHz and 5 GHz frequ	iency, support 802.11a/b/g/n/	/ac					
Bluetooth Connection		BT4.2 LE, connectable to bluetooth headphone								
USB Interface	USB type-C type; conforms to USB 3.0 / 2.0 specification, supports USB OTG; USB 3.0 has a maximum speed of 5Gbps; USB 2.0 supports a maximum speed of 480Mbps, and is downward compatible with full speed (12Mbps) mode									
HDMI Interface		Micro HDMI type,Comply with HDMI 1.4 specification, support 1080p image video transmission at 60Hz frame rate								
FTP Data Transfer	Accessible through WiFi or Hotspot, rapid data transfer									
Remote Control	Support									
EasyIR APP	Support									
IRExplorer	Support									
General Specifications										
Software Upgrade	Support on OTA upgrade and local upgrade through USB									
Laser Ranger/Pointer	Independent key activation; Laser level: 2; Wavelength: 635nm; Power: <1mW; Laser distance: 0.1~50m, Accuracy: d*0.01%±2mm									
Laser Measurement	Distance, Length, and Area									

LED Light (torch and flash lamp)	Support
GPS	Yes
Compass	Yes
Battery	
Battery Type	3.6V,10000mAh lithium
Battery Life	Over 4 hours per battery
Battery Charging System	Battery charger, DC 13V charging, USB charging
Battery Charging Time	2.5 hours to 90% full charge
Power Saving	User-selectable screen-off modes
AC Operation	AC operation with included power supply (100V ac -240V ac, 50/60Hz)
Reliability Test	
Safety	EN 62368-1:2014+A11:2017 (Power Supply)
Electromagnetic Compatibility	EN 61326-1:2013 (immunity) EN 61326-1:2013 Class A (emission) FCC 47 CFR Part15 Class A (emission)
Shock	25g(GB/T 2423.5-2019/IEC60068-2-27:2008)
Vibration	2g (GB/T 2423.10-2008/IEC 60068-2-6:1995)
Enclosure Rating	IP54
RoHS	Yes
Operating Temperature	-20°C to +50°C (-4 °F to 122 °F)
Storage Temperature	-40°C to +70°C (-40 °F ~158 °F) without battery
Relative Humidity	< 95%RH
Size (H x W x L)	175*151*95mm
Weight (withouth lens)	1.3kg
Hard Case	Hard rubber: PC + ABS, Soft rubber: TPE,Magnesium alloy, Flame retardant grade: UL94 HB
Tripod	UNC 1/4"-20 interface
Warranty	2 years (standard), extended warranties are available,10 years for core detector
Recommended Calibration Cycle	2 years (assumes normal operation and normal aging)
Supported Languages	Chinese Traditional, English, Spanish, French, German, Italian, Korean, Portuguese
Standard configuration	Thermal imaging camera, lens, lens cap, 2 rechargeable lithium batteries, battery charger, power adapter, USB Type-C to USB interface cable, Micro HDMI interface to HDMI interface cable, SD card, SD card reader, accessory bag (wrist strap), information bag (packing list, calibration certificate, user manual), portable soft bag, hard case

Model	IR Resolution	Lens	Standard Lens	Wide-angle Lens	Telephoto Lens	Ultra Telephoto Lens	Dual-View Lens		Macro lens
Р9		FOV	25° x 20°	46° x 37°	12° × 10°	7° x 6°			
	1280*1024	IFOV	0.34 mrad	0.63 mrad	0.16 mrad	0.1 mrad			
	1280 1024	Minimum Distance	0.4 m	0.2 m	1.3 m	3 m			
		Focal Length	35.1 mm	17.3 mm	73.2 mm	-102.6 mm			
	1024*768	FOV	25° x 19°	46° x 35°	12° × 9°	7° x 5°			
00		IFOV	0.43 mrad	0.78 mrad	0.2 mrad	0.12 mrad			
P8		Minimum Distance	0.4 m	0.2 m	1.3 m	3 m			
		Focal Length	35.1 mm	17.3 mm	73.2 mm	-102.6 mm			
		FOV	25° x 19°	46° x 35°	12° × 9°	7° x 5°	25° x 19° \12° x 9°	25° x 19° \7° x 5°	20 µm
P7	640*480	IFOV	0.68 mrad	1.25 mrad	0.33 mrad	0.19 mrad	0.68 mrad\0.33 mrad	0.68 mrad\0.19 mrad	-
		Minimum Distance	0.25 m	0.1 m	1 m	3 m	0.25 m\1 m	0.25 m\3 m	29 mm
		Focal Length	24.8 mm	13.7 mm	51.2 mm	82.5 mm	25.1 mm\50.7 mm	25.4 mm\76.8 mm	48.9 mm
		FOV	25° x 19°	46° x 35°	12° × 9°	7° x 5°	25° x 19° \12° x 9°	25° x 19° \7° x 5°	27 µm
P6	480*360	IFOV	0.91 mrad	1.67 mrad	0.44 mrad	0.25 mrad	0.85 mrad\0.44 mrad	0.85 mrad\0.25 mrad	-
FU	480 300	Minimum Distance	0.25 m	0.1 m	1 m	3 m	0.25 m\1 m	0.25 m\3 m	29 mm
		Focal Length	24.8 mm	13.7 mm	51.2 mm	82.5 mm	25.1 mm\50.7 mm	25.4 mm\76.8 mm	48.9 mm
	384*288	FOV	25° x 19°	46° x 35°	15° x 11°	7° x 5°			
DE		IFOV	1.14 mrad	2.09 mrad	0.68 mrd	0.32 mrad			
P5		Minimum Distance	0.1 m	0.1 m	0.25 m	1 m			
		Focal Length	15 mm	8 mm	24.8 mm	51.2 mm			
	320*240	FOV	25° x 19°	46° x 35°	15° x 11°	7° x 5°			
P4		IFOV	1.36 mrad	2.51 mrad	0.82 mrd	0.38 mrad			
P4		Minimum Distance	0.1 m	0.1 m	0.25 m	1 m			
		Focal Length	15 mm	8 mm	24.8 mm	51.2 mm			

Innovation Excellence Integrity

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