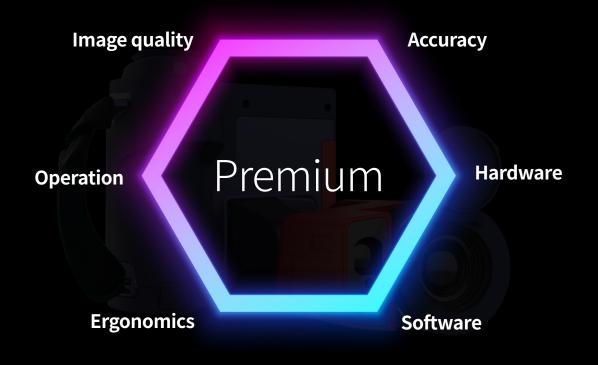


Premium Thermal Camera

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.



Compelling Image Quality -Hardware

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)

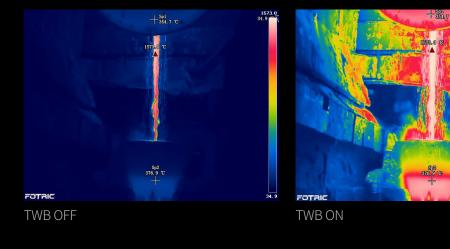


640*480 IR resolution (25° lens at 30m distance)

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

Impeccable Accuracy

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

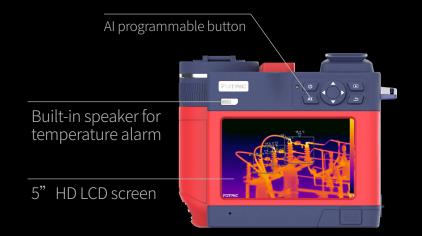
Reveal the most subtle details



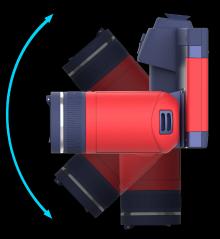
Meticulously Designed Hardware

Ergonomic Construct





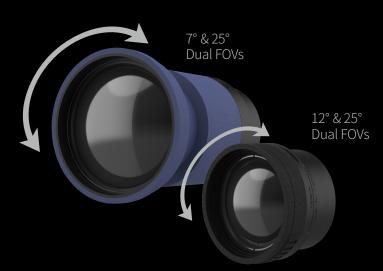
Interchangeable lens on a 40-level rotary axis, provides the finest flexibility as well as stability



Meticulously Designed Hardware

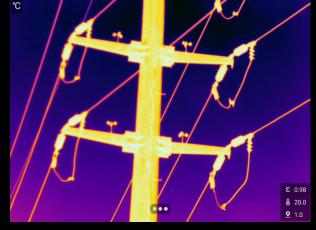
One Lens to See them All

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

Extraordinary Operation Experience

Series assisted area measurement

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

Ì

Android platform

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

A HawkAI

OCR instantly extract essential information during inspection.



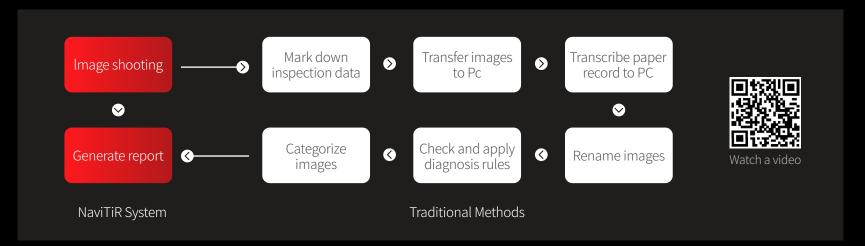
One click favorite

Filtering key information from vast sea of thermal images.



Powerful software-NaviTiR

Revolutionizing routine inspection









Powerful software-NaviTiR

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



Specification

Model	FOTRIC P9	FOTRIC P8	FOTRIC P7	FOTRIC P6	FOTRIC P5	FOTRIC P4		
Common Features								
Infrared Resolution	solution 1280*1024 1024*768 6		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	ector 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	Auto							
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 i		5°C , temperature range 0° C-1 g 1500°C	0° C), \pm 2°C or \pm 2 % when	when \pm 2°C or \pm 2%, whichever is greater, (ambient temp at 25°C)			
User-definable Spot Markers (on device)	30 spot markers30 spot markers25 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 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 Ra	te Capture and Timing Capture	2					
Image/video File Formats	Standa	rd JPEG full radiometric the	rmal images, digital images,	.IRS full radiometric thermal v	ideos, .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	t\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		Suj	pport 2.4GHz and 5 GHz frec	uency, support 802.11a/b/g/n	/ac					
Bluetooth Connection				to bluetooth headphone						
USB Interface	JSB 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					
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 ¼"-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					

Lens

Model	IR Resolution	Lens	Standard Lens	Wide-angle Lens	Telephoto Lens	Ultra Telephoto Lens	Dual-View Lens	
P9	120041024	FOV	25° x 20°					
		IFOV	0.34 mrad					
	1280*1024	Minimum Distance	0.4 m					
		Focal Length	35 mm					
P8	1024*768	FOV	25° x 19°					
		IFOV	0.43 mrad					
		Minimum Distance	0.4 m					
		Focal Length	35 mm					
P7	640*480	FOV	25° x 19°	46° x 35°	12° x 9°	7° x 5°	25° x 19° \12° x 9°	25° x 19° \7° x 5°
		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
		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
	480*360	FOV	25° x 19°	46° x 35°	12° x 9°	7° x 5°	25° x 19° \12° x 9°	25° x 19° \7° x 5°
DC		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
P6		Minimum Distance	0.25 m	0.1 m	1 m	3 m	0.25 m\1 m	0.25 m\3 m
		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
P5	384*288	FOV	25° x 19°	46° x 35°	15° x 11°	7° x 5°		
		IFOV	1.14 mrad	2.09 mrad	0.68 mrd	0.32 mrad		
		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		
P4	320*240	FOV	25° x 19°	46° x 35°	15° × 11°	7° x 5°		
		IFOV	1.36 mrad	2.51 mrad	0.82 mrd	0.38 mrad		
		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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May 2023

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