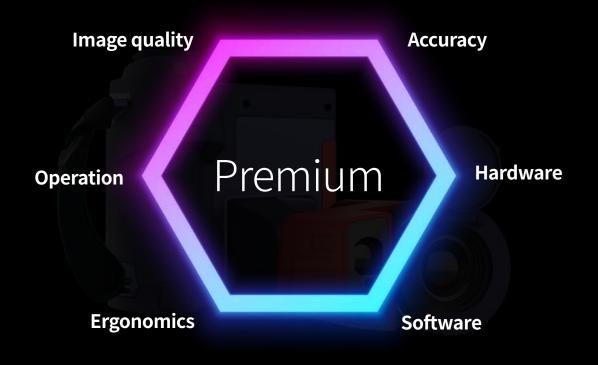


Premium Thermal Camera

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 clarityand 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)

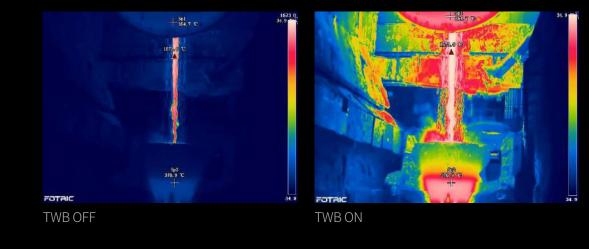


640*480 IR resolution (25° lens at 30m distance)

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

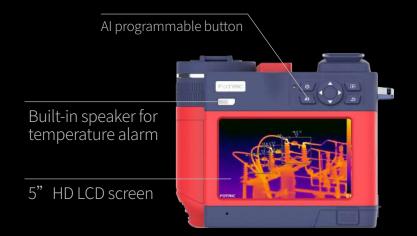
Reveal the most subtle details



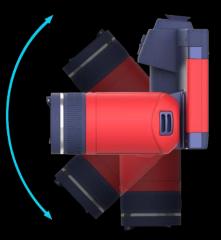
Meticulously Designed Hardware

Ergonomic Construct





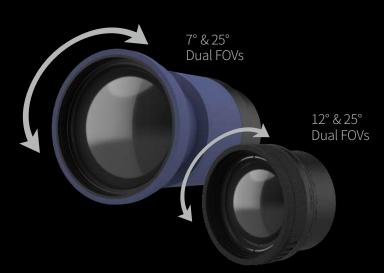
Interchangeable lens on a 40-level rotary axis, provides the finest flexibility as well as stability



Meticulously Designed Hardware

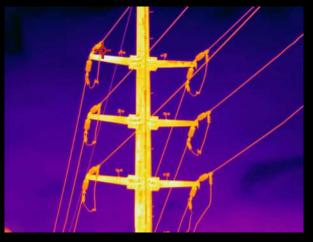
One Lens to See them All

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











12° Lens

7° Lens

Meticulously Designed Hardware

A Wealth of Alternatives









25° Standard Lens



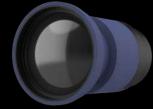




7° Ultra Telephoto Lens



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.



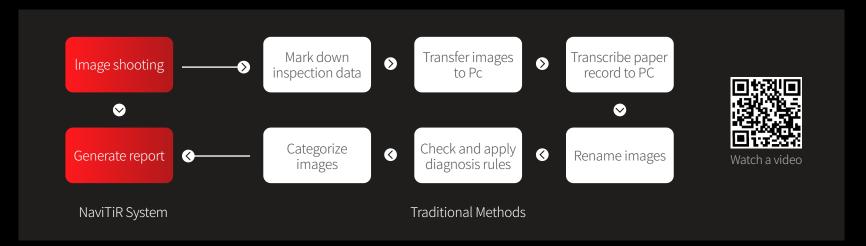
One click favorite

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

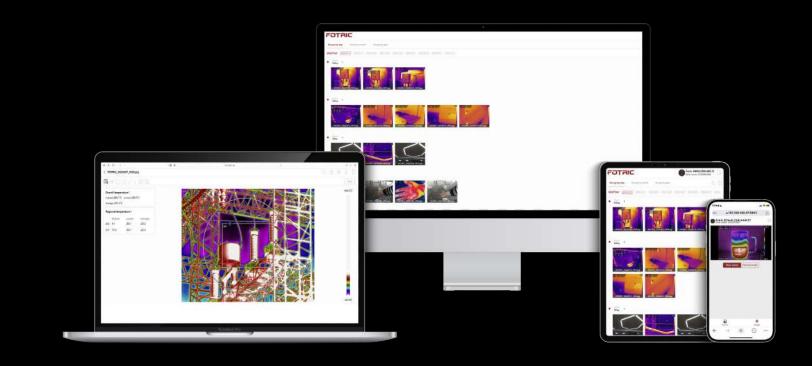
NaviTiR - Object recognition



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	1280*1024	1024*768	640*480	480*360	384*288	320*240			
Super Resolution (SR)	n (SR) 2560*2048 2048*1536		1280*960	1280*960 960*720		640*480			
Detector Type	Uncooled infrared focal plane detector								
Detector Pitch	12µm	12µm	17µm	17µm 17µm		17µm			
Thermal Sensitivity (NETD)	20mk @ 30° 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								
NaviPdM	Optional								
T-DEF [°]	Support								
IREdge	Support								
т-тwв [°]	Support								

Temp Analysis								
Temperature Range	-20°C ~ 700°C							
Measurement Range			-20°C ~ 120°C	,0°C~700°C				
Low/High Temperature Expansion (Optional)		Support extension: lowest to -40°C , highest to 2000°C		Support extension: lowest to -40°C , highest to 1550°C				
Intelligent in Temperature Range Adjustment			Supj	port				
Accuracy	\pm 1°C or \pm 1 %, whichever i	s greater (ambient temp at 2 reach to	5°C , temperature range 0° C-1 2000°C	.0° C), \pm 2°C or \pm 2 % when	\pm 2°C or \pm 2 %, whichever is greater, (ambient temp at 25°C)			
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 Spa	n 3°C), Manual (Minimum Ten	mp Span 2°C), Touch-screen(M	/inimum Temp Span 2°C)			

Highest/Lowest Temp Spot Mark	Yes, full-screen and measurement boxes both 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			
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		Suppo	rt on Single Frame Rate therm	al imager and full-radiometri	c video				
Scan Function			Support for QR co	ode 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	Support 2.4GHz and 5 GHz frequency, support 802.11a/b/g/n/ac								
Bluetooth Connection			BT4.2 LE, connectable to						
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			
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	English, Spanish, France, Germany, Italian, Korea			

Lens

Model	IR Resolution	Lens	Standard Lens	Wide-angle Lens	Telephoto Lens	Ultra Telephoto Lens	Dual-View Lens	
Р9		FOV	25° x 20°					
	1280*1024	IFOV	0.34 mrad					
	1200 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					
		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°
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
PI		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
		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	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
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
Ρ5	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

FOTRIC INC. All Rights reserved

April 2023

www.fotric.com

