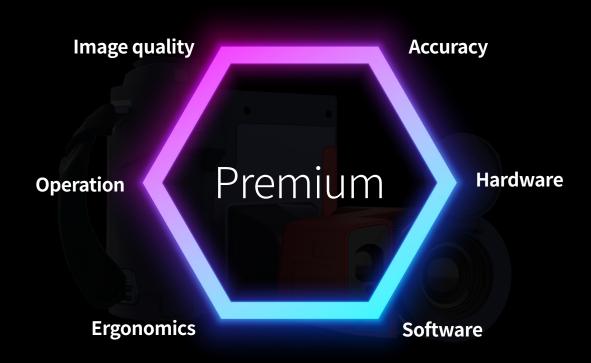


Cornerstones of a Premium Thermal Camera

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)

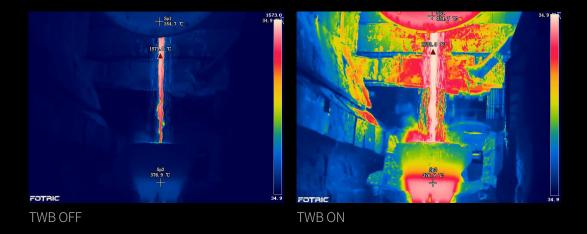


640*480 IR resolution (25° lens at 30m distance)

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 ON

Impeccable Accuracy

Reach

±1%

accuracy

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

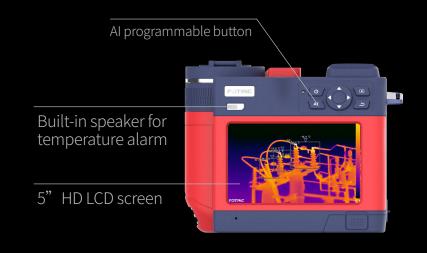
Reveal the most subtle details

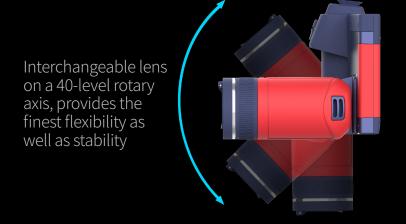


Meticulously Designed Hardware

Ergonomic Construct







Meticulously Designed Hardware

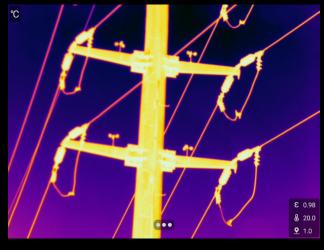
One Lens to See them All

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





46°Wide-angle Lens



25° Standard Lens



12°
Telephoto Lens



Ultra Telephoto Lens



12° & 25° Dual Field of View Lens



7° & 25°Dual Field of View Lens

Extraordinary Operation Experience



Laser assisted area measurement

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



Android platform

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



HawkAl

OCR instantly extract essential information during inspection.



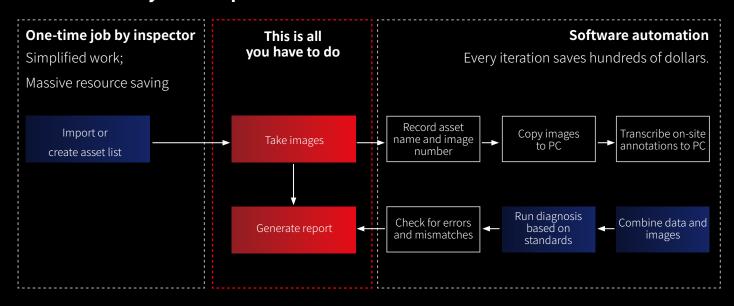
One click favorite

Filtering key information from vast sea of thermal images.



Powerful software-NaviPdM®

Boost Efficiency with AI-powered Automation







Powerful software-NaviPdM®

Al assistant at your hand

Object identification & Automatic diagnosis.



Ordinary thermal camera



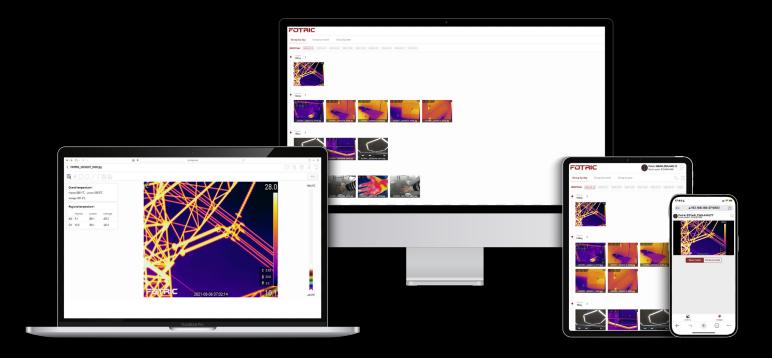
NaviPdM



Powerful software-IRexplorer ™

Brings untrammeled communication

- Remote control via WiFi 🗢 or Self-equipped Hotspot 🖗
- 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		
Thermal Imaging Parameters								
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)							
Spectral Range	7 ~ 14μm							
Image Frame Rate	30Hz							
Field of View (FOV)	25° x 20°	25° x 19°						
Spatial Resolution (IFOV)	0.34 mrad	0.43 mrad	0.68 mrad	0.91 mrad	1.14 mrad	1.36 mrad		
Minimum Imaging 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 ™ system for continuous, laser-assisted, thermal contrast AF; Manual focus							
Lens Recognition	Auto							
Optional Lens	Refer to "Lens" Sheet							
Digital Zoom	1-32x	1-32x	1-16x	1-16x	1-12x	1-12x		
Unique Features	Unique Features							
NaviPdM [®]	Optional							
T-DEF®	Support							
IREdge	Support							
T-TWB®	Support							

Temp Analysis							
Complete Temperature Range		-20 ° C ~ 2000 ° C		-20 ° C ~ 1550 ° C			
Temperature Range		-20 ° C ~ 120° C, < ~ 700° C, 300 ° C ~ 200 able to dual-view or ma		-20 ° C ~ 120° C, 0 ° C ~ 700° C, 300 ° C ~ 1550° C (Not applicable to dual-view or macro lenses)			
Temperature Range Extension		lowest to		extension: e to dual-view or macro	lenses)		
Intelligent Range			Sup	port			
Accuracy		whichever is greater (an 00° C), \pm 2°C or \pm 2 %				hichever is greater, mp at 25°C)	
Uniformity			±2°C	or 2%			
ROI Spot	30 spot markers 30 spot markers 25 spot markers 2			20 spot markers	20 spot markers	20 spot markers	
ROI Area	30 (rectangle or circle)	30 (rectangle or circle)	25 (rectangle or circle)	20 (rectangle or circle)	20 (rectangle or circle)	20 (rectangle or circle)	
ROI Line	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						
Measurement Parameters	Emissivity, Partially emissivity, Reflected temperaure, Ambient temperature, Humidity, Distance and IR window compensation.						
Temperature Rise Feature	Support						
Area Alarms	Area alarm; High temperature alarm and low temperature alarm						
Color Alarm	High temperature, low temperature, and interval isotherms						
PC Software	AnalyzIR®,NaviPdM®						
Image Display							
Display	5inch (landscape) 1280*720						
View-Finder (Optional)	0.5 inch OLED,800*600						
Image Mode	Thermal\Digital\Picture-in-Picture\T-DEF® Blend						

Palettes	16 standard palettes: Grey,Iron10,Iron,Rainbow,Grey10,GreyRed,MidGrey,Yellow,Rain,Rain10,Blue,GlowBow,Medical,Medical10,MidGreen,Prism. 16 inverted palettes				
Temp Span Mode	Auto (Minimum Temp Span 3°C),	Manual (Minimum Temp Span 2°C), Touch-sc	reen(Minimum Temp Span 2°C)		
High/Low Temperature Tracking	Yes, full-screen and r	measurement boxes both with highest/lowest	temp spot marker		
Capture Features					
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				
Capture Mode	Suppo	rt on single frame, video and Time-lapse Cap	ture		
Image/video File Formats	Standard JPEG full radiometric thermal image	ages, digital images, .IRS full radiometric ther	mal videos, .MP4 non-radiometric videos		
Freeze Interface	Support sin	gle frame thermal image and radiometric vide	eo edition		
QR Code Functionality	Support QR code and Barcode scanning				
Annotation	Supprt Voice\Text\Bookmark\Favorate				
Voice Annotation Length	200 s				
Thermal Image On-device Analysis	Support				
Radiometric Video On-device Analysis	Support				
MP4 Video Recording	Support				
Gallery	Image preview and analysis, video preview and analysis				
Data Connection					
WiFi Connection	Support 2.	4GHz and 5 GHz frequency, support 802.11a/b	p/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 from PC Software, IRExplorer				
IRExplorer ™	Support				
Auxiliary Features					
Software Upgrade	Supp	ort on OTA upgrade and local upgrade through USB			
Laser	Laser level: 2; Wavelength: 6	Independent key activation; 335nm; Power: <1mW; Laser distance: 0.1~50m, Accuracy: d*0.01%±2mm			
Laser Measurement		Distance, Length, and Area			
GPS		Yes			
Compass		Yes			
LED		Support			
Battery					
Battery Type		3.6V,10000mAh lithium			
Battery Life	Over 2.5 hours per battery	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				
Energy Managment	User-selectable screen-off modes				
AC Operation, adaptor	AC operation with included power supply (adaptor, input: 100V ac -240V ac, 50/60Hz, output 12v, 3A, 24w)				
Reliability and Certification					
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 \sim 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)				
Languages	English, Spanish, German, Italian, Korean, Portuguese, Chinese Traditional				
Packaging	Thermal imaging camera, lens, lens cap, 3 rechargeable lithium batteries, battery charger, power adapter, USB Type-C to USB interface cable, Micro HDMI interface to HDMI, SD card, SD card reader, accessory bag (wrist strap), information bag (packing list, calibration certificate, user manual), portable soft bag, hard case	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, 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-Vi	ew Lens	Macro Lens
P9 :		FOV	25° x 20°	46° x 37°	12° x 10°	7° x 6°			
	1280*1024	IFOV	0.34 mrad	0.63 mrad	0.16 mrad	0.1 mrad			
P9	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			
		FOV	25° x 19°	46° x 35°	12° x 9°	7° x 5°			
P8	1024*768	IFOV	0.43 mrad	0.78 mrad	0.2 mrad	0.12 mrad			
Po		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° x 9°	7° x 5°	25° x 19° \12° x 9°	25° x 19° \7° x 5°	50μm
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	N/A
PI	040 460	Minimum Distance	0.25 m	0.1 m	1 m	3 m	0.25 m\1 m	0.25 m\3 m	98mm
		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	28mm
		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°	50μm
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	N/A
FU	460 300	Minimum Distance	0.25 m	0.1 m	1 m	3 m	0.25 m\1 m	0.25 m\3 m	98mm
		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	28mm
		FOV	25° x 19°	46° x 35°	15° x 11°	7° x 5°			50μm
P5	384*288	IFOV	1.14 mrad	2.09 mrad	0.68 mrd	0.32 mrad			N/A
P5		Minimum Distance	0.1 m	0.1 m	0.25 m	1 m			98mm
		Focal Length	15 mm	8 mm	24.8 mm	51.2 mm			28mm
	320*240	FOV	25° x 19°	46° x 35°	15° x 11°	7° x 5°			50μm
P4		IFOV	1.36 mrad	2.51 mrad	0.82 mrd	0.38 mrad			N/A
P4		Minimum Distance	0.1 m	0.1 m	0.25 m	1 m			98mm
		Focal Length	15 mm	8 mm	24.8 mm	51.2 mm			28mm

Innovation Excellence Integrity

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