

Product Datasheet - Technical Specifications



More information in our Web-Shop at ▶ www.meilhaus.com

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FOTRIC 320 F Series

Compact handheld thermal imaging cameras



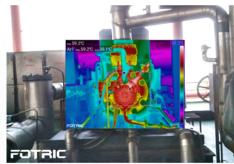
Ready-to-Go All-Purpose Inspection Tool

All-Purpose | Price-wise | Reliable

Ready-To-Go All-purpose, All-budgets

- Detect Mechanical, Electrical and Building hidden thermal abnormalities with enhanced images.
- Measure temperatures from -20 to 550°C with automatic range adjustment.
- Reveal low visibility details with LED flash lamp and Laser pointer.
- Aim and shoot large scenes with wide-angle lens.







Easy Inspections

Always in Focus

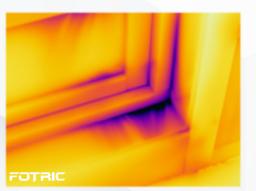
Focus-free thermal and digital camera, suitable working distance as close as 0.5m.

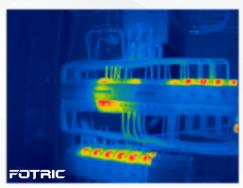
Easy Operation

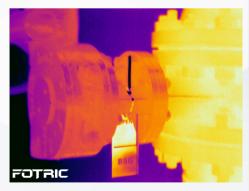
Highly-responsive 3.5" touch-screen and fast user interface for a smoother experience.

Compact and light

Its weight and size fit as one more tool in the box or overall pocket.







Convenient and Compatible

- Hands-free annotations
 - Record voice-notes and listen to alarms via a Bluetooth headset.
 - Tag images with equipment name using QR-Code scanner.





- Easy Sharing
 - Transfer images in seconds via Wi-Fi or Memory Card (64GB).
 - View thermal photos and videos in almost any device (JPEG & MPEG4 formats).
 - One-click automatic reports via FOTRIC AnalyzIR software.

Reliable from The Inside-out

- Dust and water resistant (IP54), 2 meters drop designed. Highly durable against common field environments.
- Lifetime Free camera software upgrades to meet global users' s needs.





■ FOTRIC is committed to deliver state-of-art products with world-class components and unique software.









Specifications

Core parameters	FOTRIC 326F	FOTRIC 325F	FOTRIC 323F	FOTRIC 322F	FOTRIC 321F			
Thermal Resolution	384*288	320*240	264*198	160*120	128*96			
Super Resolution(SR)	768*576	640*480	528*396	320*240	256*192			
Thermal Sensitivity (NETD)	40mk(0.04°C)	40mk(0.04°C)	40mk(0.04°C)	60mk(0.06°C)	60mk(0.06°C)			
ens Options(Not interchangeable)	49°x 36.8°	49°x 36.8°	49°x 36.8°	46.5°x 35°	46.5°x 35°			
FOV (spatial resolution)	2.78 mrad	2.78 mrad	3.40 mrad	5.15 mrad	6.44 mrad			
Focal length	f 7.5	f 7.5	f7.5	f 3.3	f3.3			
Minimum Focus Distance	0.5m	0.5m	0.5m	0.5m	0.5m			
Focus Mode	0.5 meters focus free							
Frame Rate	30Hz							
AI programmable key	Support							
Ni-Fi & Bluetooth			Support					
Ni-Fi FTP Transfer	Transfer imaging data to computer, by Wi-Fi FTP protocol							
Geographic Location			Support, GPS					
Γhermal and visible light Image fusion		Supp	ort, transparency 0%	~100%				
Picture in Picture			ort, resizable and adj					
FWB Non-linear thermal color display			Support					
Build-in digital camera			8 MP industrial came	ra				
ED flash lamp			Support					
Temperature Analysis								
Temperature Range	-20 °C ~ 120°C, 0 °C ~ 550°C							
	Support							
ntelligent Range Auto-fit			Support					
ntelligent Range Auto-fit Measurement Tools	Spot:6	5; Line:1; Rectangle/		Spot:4; Line:1;	Rectangle/Circle:			
Measurement Tools			Circle:4					
Measurement Tools Measurement Accuracy								
Measurement Tools Measurement Accuracy Emissivity			Circle:4 er is greater (at 25°C Support					
Measurement Tools Measurement Accuracy Emissivity Ambient Temp			Circle:4 er is greater (at 25°C					
Measurement Tools Measurement Accuracy Emissivity Ambient Temp Reflected Temp			Circle:4 er is greater (at 25°C Support Support N/A					
Measurement Tools Measurement Accuracy Emissivity Ambient Temp			Circle:4 er is greater (at 25 °C Support Support N/A Support					
Measurement Tools Measurement Accuracy Emissivity Ambient Temp Reflected Temp Relative Humidity Measurement Distance			Circle:4 er is greater (at 25 °C Support Support N/A Support Support					
Measurement Tools Measurement Accuracy Emissivity Ambient Temp Reflected Temp Relative Humidity Measurement Distance R Window Compensation			Circle:4 er is greater (at 25 °C Support Support N/A Support					
Measurement Tools Measurement Accuracy Emissivity Ambient Temp Reflected Temp Relative Humidity Measurement Distance R Window Compensation Temperature Rise & Difference		2°C or 2% , whichev	er is greater (at 25 °C Support Support N/A Support Support Support N/A N/A	ambient temperatu	Rectangle/Circle:			
Measurement Tools Measurement Accuracy Emissivity Ambient Temp Reflected Temp Relative Humidity Measurement Distance R Window Compensation Temperature Rise & Difference ROI Sound Alarm		2°C or 2% , whichev	er is greater (at 25 °C Support Support N/A Support Support N/A N/A N/A ia Speaker or Blueton	ambient temperatu				
Measurement Tools Measurement Accuracy Emissivity Ambient Temp Reflected Temp Relative Humidity Measurement Distance R Window Compensation Temperature Rise & Difference ROI Sound Alarm ROI Partial Emissivity		2°C or 2% , whichev	er is greater (at 25 °C Support Support N/A Support Support Support N/A N/A	ambient temperatu				
Measurement Tools Measurement Accuracy Emissivity Ambient Temp Reflected Temp Relative Humidity Measurement Distance R Window Compensation Temperature Rise & Difference ROI Sound Alarm ROI Partial Emissivity mage Display		2°C or 2% , whichev	er is greater (at 25 °C Support Support N/A Support Support Support N/A N/A N/A ia Speaker or Bluetoo	ambient temperatu				
Measurement Tools Measurement Accuracy Emissivity Ambient Temp Reflected Temp Relative Humidity Measurement Distance R Window Compensation Temperature Rise & Difference ROI Sound Alarm ROI Partial Emissivity mage Display Display Screen		2°C or 2% , whichev	er is greater (at 25 °C Support Support N/A Support Support N/A N/A N/A ia Speaker or Bluetor N/A N/A	ambient temperatur				
Measurement Tools Measurement Accuracy Emissivity Ambient Temp Reflected Temp Relative Humidity Measurement Distance R Window Compensation Temperature Rise & Difference ROI Sound Alarm ROI Partial Emissivity mage Display Display Screen mage Mode	±	2°C or 2%, whichev Support, v	er is greater (at 25 °C Support Support N/A Support Support N/A N/A N/A ia Speaker or Bluetor N/A 3.5 inch Touch Scree	ambient temperatur oth headset n re & Image Fusion	re)			
Measurement Tools Measurement Accuracy Emissivity Ambient Temp Reflected Temp Relative Humidity Measurement Distance R Window Compensation Temperature Rise & Difference ROI Sound Alarm ROI Partial Emissivity mage Display Display Screen mage Mode Palettes	±	2°C or 2%, whichev Support, v	er is greater (at 25 °C Support Support N/A Support Support N/A N/A ia Speaker or Blueton N/A 3.5 inch Touch Scree light, Picture in Pictu	ambient temperatur oth headset n re & Image Fusion	re)			
Measurement Tools Measurement Accuracy Emissivity Ambient Temp Reflected Temp Relative Humidity Measurement Distance R Window Compensation Temperature Rise & Difference ROI Sound Alarm ROI Partial Emissivity mage Display Display Screen mage Mode Palettes nverted Palettes	±	Support, v Thermal, Visible B, Grey, Iron, Rainbov	er is greater (at 25 °C Support Support N/A Support Support N/A N/A ia Speaker or Blueton N/A 3.5 inch Touch Scree light, Picture in Pictu v, Grey-red, Rain, Glo	ambient temperatur oth headset n re & Image Fusion wBow, Medical, Prisi	re)			
Measurement Tools Measurement Accuracy Emissivity Ambient Temp Reflected Temp Relative Humidity Measurement Distance R Window Compensation Temperature Rise & Difference ROI Sound Alarm ROI Partial Emissivity mage Display Display Screen mage Mode Palettes nverted Palettes sotherm/Color Alarms	±	Support, v Thermal, Visible B, Grey, Iron, Rainbov	er is greater (at 25 °C Support Support N/A Support Support N/A N/A ia Speaker or Bluetor N/A 3.5 inch Touch Scree light, Picture in Pictu v, Grey-red, Rain, Glo N/A Above, Below, and in	ambient temperatur oth headset n re & Image Fusion wBow, Medical, Prisi	re)			
Measurement Tools Measurement Accuracy Emissivity Ambient Temp Reflected Temp Relative Humidity Measurement Distance R Window Compensation Temperature Rise & Difference ROI Sound Alarm ROI Partial Emissivity mage Display Display Screen mage Mode Palettes nverted Palettes sotherm/Color Alarms Auto Scale	±	Support, v Thermal, Visible B, Grey, Iron, Rainbov	er is greater (at 25 °C Support Support N/A Support Support N/A N/A ia Speaker or Bluetor N/A 3.5 inch Touch Scree light, Picture in Pictu v, Grey-red, Rain, Glo N/A Above, Below, and ir Support	ambient temperatur oth headset n re & Image Fusion wBow, Medical, Prisi	re)			
Measurement Tools Measurement Accuracy Emissivity Ambient Temp Reflected Temp Relative Humidity Measurement Distance R Window Compensation Temperature Rise & Difference ROI Sound Alarm ROI Partial Emissivity mage Display Display Screen mage Mode Palettes nverted Palettes sotherm/Color Alarms	±	Support, v Thermal, Visible B, Grey, Iron, Rainbov	er is greater (at 25 °C Support Support N/A Support Support N/A N/A ia Speaker or Bluetor N/A 3.5 inch Touch Scree light, Picture in Pictu v, Grey-red, Rain, Glo N/A Above, Below, and in	ambient temperatur oth headset n re & Image Fusion wBow, Medical, Prisi	re)			

Storage & Analysis	FOTRIC 326F	FOTRIC 325F	FOTRIC 323F	FOTRIC 322F	FOTRIC 321F			
Storage Card			TF card, 64GB					
Capture Mode		Single frame capture and Time-lapse						
Video Recording	Radiometric thermal video(IRS.) and MP4 video recording							
File Format	Radiometric thermal photo(JPEG.), visible light photo, Radiometric video(IRS.) and MP4 video							
On screen Analysis	Support							
Voice Annotation	Support, record up to 120 seconds; via Mic or Bluetooth headset							
Text Annotation	Support							
Tags	Support, Manual input and QR-code scan							
Favorite	Support							
PC analysis and Report Software	Fotric AnalyzIR software, FREE							
Remote Display&Analysis	Support							
Power System								
Battery		3.6	V, 5000mAh Li-batte	rv				
Battery operation time		≥4 hours	, I I I I I I I I I I I I I I I I I I I	·y ≥5 h	ours			
Battery charging time	3.5 hours to full		dock 3 hours to full					
Charging methods	3.5 hours to full-charge by battery dock. 3 hours to full-charge by connectting to camera. Support battery dock adaptor or Type-C interface on camera.							
Power supply								
Auto screen-off	Support Type-C interface charging method, from power adaptor or computer.							
General Specifications			Support					
•			7 14					
Spectral range	7-14μm							
IR Detector type	uncooled FPA infrared detector							
Detector Pitch	17μm							
Digital Zoom	1-8 times, continuous							
Wi-Fi Connection	Support 2.4GHz&5GH channel, Support 802.11a/b/g/n/ac							
Bluetooth Connection	BT4.2 LE, Support connect to Bluetooth headset							
USB Interface	USB Type-C type; USB 3.0 / 2.0 compliant, Support USB OTG							
HDMI Interface	Micro HDMI type, HDMI 1.4 compliant, Support 1080P imaging video streaming in 60Hz.							
Storage Card Interface	TF Card, Support Hot-plug.							
Laser pointer	Level2;wavelength:635nm;Power:<1mW							
Operation temperature	-20°C to 50°C							
Storage temperature	-40°C to 70°C, without battery							
Humidity	<95%RH							
Safety Floatramagnetic Compatibility	SELV relay (GB 4943.1/IEC60950-1)							
Electromagnetic Compatibility	GB/T17626.2/IEC 61000-4-2							
Vibration	2g(GB/T 2423.10/IEC 60068-2-6)							
Shock	25g(GB/T 2423.5/IEC 60068-2-27)							
Collision	10g(GB/T 2423.6/IEC 60068-2-29) with packing Designed for 2 meters drop test. (GB/T 2423.8/IEC 60068-2-32)							
Drop	Designed for 2 meters drop test. (GB/T 2423.8/IEC 60068-2-32)							
Dimension Weight (include bettern)	243mm*95mm*142mm							
Weight (include battery)	730g							
Enclosure rating	IP54							
Tripod interface	UNC 1/4 -20 threaded hole for tripod							
Warranty	2 years warranty on camera, 10 years for IR detector.							
Recommended calibration cycle	2 years							
Supported languages	English, Spanish, Korean, Traditional Chinese							
RoHS compliant			Yes					
Box Contents	calibration, warrant	cy card, packing list	t), Quick-start user m	certificate of inspecti nanual, USB-Type C c ger dock, 2 pieces of	able, Micro-HDMI			