

Specifications

Key Features	Fotric 348A	Fotric 347A	Fotric 346A	Fotric 345A	Fotric 345M
Infrared Resolution	640*480	480*360	384*288	320*240	320*240
Super Resolution (SR)	1280*960	960*720	768*576	640*480	640*480
Thermal Sensitivity (NETD)	< 0.03°C @30°C	< 0.03°C @30°C	< 0.03°C @30°C	< 0.03°C @30°C	< 0.04°C @30°C
Temperature Measurement Range	-20°C to 1550°C (-4 °F to 2822 °F)			-20°C to 650°C (-4 °F to 1203 °F)	
High temperature expansion	/	/	/	Support	No support
IFOV with Standard Lens	0.68mrad	0.91mrad	1.14mrad	1.36mrad	1.36mrad
Digital Zoom	1-10x,Continuous adjustment of roller				1-8x
User-definable Spot Markers	16 spot markers	16 spot markers	16 spot markers	12 spot markers	12 spot markers
User-defined Measurement Boxes	12 (rectangle or circle)	12 (rectangle or circle)	12 (rectangle or circle)	8 (rectangle or circle)	8 (rectangle or circle)
User-defined Measurement Lines	8 measurement lines	8 measurement lines	8 measurement lines	4 measurement lines	4 measurement lines
Minimum Focus Distance	0.25m	0.25m	0.1m	0.1m	0.1m
Focus Mode	TurboFocus™ Speedy Intelligent Autofocus system for continuous, laser distance, graphic contrast,manual				Manual
Laser Measurement	Distance, Length, and Area				—
Common Features					
Field of View (FOV)	25° × 19°				
AI Programmable Key	Yes, for quick start				
Navigation Satellite System	Yes, support GPS				
Image Annotation	Favorites and AutoNaming				
Infrared Spectral Band	7μm~14μm				
Detector Type	Uncooled infrared focal plane detector				
Detector Pitch	17μm				
Frame Rate	30Hz				
Lens Options	Optional wide-angle lens,telephoto lens and ultra telephoto lens			Optional wide-angle lens and telephoto lens	
Lens Recognition	Yes				
Storage Memory	Standard issue 128GB micro SD memory card, expandable up to 2TB				

Batteries	3 Lithium-ion rechargeable batteries (7.4V, 3500mAh)	2 Lithium-ion
Ergonomic Design	Yes	
Standard Configuration	Infrared thermal imager, lens, lens cover, batteries, battery charger, power adapter, USB type-C to USB interface cable, micro HDMI to HDMI interface cable, SD card, SD card reader, accessory bag (wrist strap, 2 wrist strap holders, 2 M4 * 8 screws, lanyard, Allen wrench), information bag (packing list, user manual, calibration certificate, certificate of QC, certificate of inspection, warranty card, USB disk), portable soft bag, portable hard case	
Temp Analysis		
Accuracy	$\pm 2^{\circ}\text{C}$ or $\pm 2\%$, whichever is greater (ambient temp between 15°C ~ 35°C)	
On-Screen Temperature Test	Temp Rise Test, Temp Differentiation Test	
Temperature Measurement	Center-point and center-box	
Highest/Lowest Temp Spot Mark	Yes, full-screen and measurement boxes both with highest/lowest temp spot marker	
On-screen Analysis	Emissivity, Partially emissivity, Reflected temperature, Ambient temperature, Humidity, Distance and IR window compensation.	
Sound Alarms	Area alarm; High temperature alarm and low temperature alarm	
Color Alarms (temperature alarms)	High temperature, low temperature, and interval isotherms	
Image Display		
Display	Gorilla Glass Explosion-proof IPS LCD; Display pixels: 1280*720; Display size: 5inch (landscape)	
Build-in Digital Camera (visible light)	13-megapixel, industrial digital camera	
LED Light (torch and flash lamp)	Yes	
Picture-in-Picture	Yes, resizable and movable	
Palettes	16 standard palettes; 16 inverted palettes	
Temp Scale	Touch-screen, auto, manual	
Minimum Temp Span (Manual)	2°C (3.6 $^{\circ}\text{F}$)	
Data Storage		
Analyze Radiometric Image Data	Yes	
Analyze Radiometric Video Data	Yes	
Image File Formats	Standard JPEG with measurement data included	
Video File Formats	Full radiometric video in IRS format; standard MPEG4 non-radiometric video;	
Gallery	Image preview and analyze, video preview and analyze	
Software	Fotric AnalyzIR, EasyIR	
Voice Annotation	200 seconds built-in microphone and speaker on still image and video	
Text Annotation	Yes	

Remote Control Operations	Remote display and control operation through Fotric AnalyzIR software	
Auto Capture	Yes, 1Hz to 12Hz frame rate adjustable; 2s to 60m59s interval adjustable	
Battery		
Battery Life	Over 4 hours per battery	
Battery Charging Time	2.5 hours to 90% full charge	
Battery Charging System	Two-bay battery charger with LED display (12V, 3A)	
AC Operation	AC operation with included power supply (100V ac -240V ac, 50/60Hz)	
Power Saving	User-selectable screen-off modes	
General Specifications		
WiFi Connection	Support 2.4GHz and 5 GHz frequency, support 902.11a/b/g/n/ac	
Bluetooth Connection	BT4.2 LE, connectable to bluetooth headphone	
FTP Data Transfer	Accessible through WiFi or Hotspot, rapid data transfer	
Device Interface	Support USB Type-C 3.0, Micro HDMI and SD card	
USB Interface	USB type-C type; conforms to USB 3.0 / 2.0 specification	
HDMI Interface	Micro HDMI type, Comply with HDMI 1.4 specification, support 1080p image video transmission at 60Hz frame rate	
SD Card Interface	Support SD 3.0	
Laser Ranger/Pointer	Independent key activation; Laser level: 2; Wavelength: 635nm; Power: <1mW; Laser distance: 0.1~50m, Accuracy: $d \cdot 0.01\% \pm 2\text{mm}$	Independent key activation; Not support distance measurement
Operating Temperature	-20°C to +50°C (-4 °F to 122 °F)	
Storage Temperature	-40°C to +70°C (-40 °F ~158 °F)	
Relative Humidity	< 95%RH	
Safety	EN 62368-1:2014+A11:2017 (Power Supply)	
Vibration	2g (GB/T 2423.10-2008/IEC 60068-2-6:1995)	
Shock	25g(GB/T 2423.5-2019/IEC60068-2-27:2008)	
Electromagnetic Compatibility	EN 61326-1:2013 (immunity); EN 61326-1:2013 Class A (emission) FCC 47 CFR Part15 Class A (emission)	
Drop	Engineered to withstand 2 meters (6.5 feet) drop with standard lens	
Enclosure Rating	IP54, GB/T 4208-2017/IEC60529:2013	
Size (H x W x L)	312.8mm × 123.3mm × 139.2mm	
Tripod	UNC 1/4"-20 interface	

Weight (battery included)	< 1.0kg (lens not included)				
Hard Case	Hard rubber: PC + ABS, Soft rubber: TPE, Magnesium alloy, Flame retardant grade: UL94 HB				
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, Korea, Spanish				
Optional Lens	Fotric 348A	Fotric 347A	Fotric 346A	Fotric 345M	Fotric 345M
Wide-angle	44° × 34° (< 0.1m), IFOV: 1.20 mrad	44° × 34° (< 0.1m), IFOV: 1.6 mrad	44° × 34° (< 0.1m), IFOV: 2.0 mrad	44° × 34° (< 0.1m), IFOV: 2.40 mrad	44° × 34° (< 0.1m), IFOV: 2.40 mrad
Telephoto	12° × 9° (< 1.0m), IFOV: 0.33 mrad	12° × 9° (< 1.0m), IFOV: 0.44 mrad	12° × 9° (< 1.0m), IFOV: 0.55 mrad	12° × 9° (< 1.0m), IFOV: 0.65 mrad	12° × 9° (< 1.0m), IFOV: 0.65 mrad
Ultra Telephoto	7° × 5° (< 3.0m), IFOV: 0.19 mrad	7° × 5° (< 3.0m), IFOV: 0.25 mrad	7° × 5° (< 1.0m), IFOV: 0.32 mrad	-	-