Model	Fotric 348A	Fotric 347A	Fotric 346A	Fotric 345M
Key Features				
Infrared Resolution	640*480	480*360	384*288	320*240
Super Resolution (SR)	1280*960	960*720	768*576	640*480
Thermal Sensitivity （NETD）	＜0.04℃@30℃	＜0.04℃@30℃	＜0.04℃@30℃	＜0.05℃@30℃
Temperature Measurement Range	-20℃ to 150℃ (-4°F to 302°F); 0℃ to 650℃(32°F to 1202°F); 200℃ to 1200℃(392°F to 2192°F); smart switch between	-20℃ to 150℃ (-4°F to 302°F); 0℃ to 650℃(32°F to 1202°F); 200℃ to 1200℃(392°F to 2192°F); smart switch between	-20℃ to 150℃ (-4°F to 302°F); 0℃ to 650℃(32°F to 1202°F); 200℃ to 1200℃(392°F to 2192°F); smart switch between	-20℃ to 150℃ (-4°F to 302°F); 0℃ to 650℃(32°F to 1203°F); smart switch between
IFOV with Standard Lens (spatial resolution)	0.68mrad	0.91mrad	1.14mrad	1.36mrad
Digital Zoom	1x to 8x,Continuous adjustment of roller	1x to 8x,Continuous adjustment of roller	1x to 8x,Continuous adjustment of roller	1x to 4x,Continuous adjustment of roller
User-definable Spot Markers	8	8	8	4
User-defined Measurement Boxes	8 (rectangle or circle)	8 (rectangle or circle)	8 (rectangle or circle)	4 (rectangle or circle)
User-defined Measurement Lines	8	8	8	1
Minimum Focus Distance	0.25m	0.25m	0.1m	0.1m
Focus Mode	TurboFocus™ Speedy Intelligent Autofocus system for continuous, laser distance, thermal contrast,manual	TurboFocus™ Speedy Intelligent Autofocus system for continuous, laser distance, thermal contrast,manual	TurboFocus™ Speedy Intelligent Autofocus system for continuous, laser distance, thermal contrast,manual	Manual
Laser Measurement	Distance, Length, and Area	Distance, Length, and Area	Distance, Length, and Area	—
Communication Interfaces	Wi-Fi**, Bluetooth**, USB 3.0, HDMI	Wi-Fi**, Bluetooth**, USB 3.0, HDMI	Wi-Fi**, Bluetooth**, USB 3.0, HDMI	Wi-Fi**, Bluetooth**, USB 3.0, HDMI
Common Features				
Field of View （FOV） @standard lens	25°×19°			
AI Programmable Key	Yes, for quick access			
Infrared Spectral Band	7μm~14μm			
Detector Type	Uncooled infrared focal plane detector			
Detector Pitch	17μm			
Frame Rate	30Hz			
Interchangable Lens Options	Optional wide-angle lens,telephoto lens and ultra telephoto lens	Optional wide-angle lens,telephoto lens and ultra telephoto lens	Optional wide-angle lens,telephoto lens and ultra telephoto lens	Optional wide-angle lens and telephoto lens
Storage Memory	128GB micro SD memory card	128GB micro SD memory card	128GB micro SD memory card	32GB micro SD memory card
Batteries (field-replaceable, rechargeable)	3 Lithium-ion rechargeable batteries (7.4V, 3500mAh)	3 Lithium-ion rechargeable batteries (7.4V, 3500mAh)	3 Lithium-ion rechargeable batteries (7.4V, 3500mAh)	2 Lithium-ion rechargeable batteries (7.4V, 3500mAh)
Ergonomic Design	Yes			
Geographic Location	Yes, support GPS			
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), Documentations (Packing list, quick-start manual, certificate of calibration, certificate of QC, warranty card, USB disk), portable soft bag, Transportation hard case.			
Temp Analysis				
Accuracy	± 2℃ or ± 2 %, whichever is greater （ambient temp between15℃~35℃)			
On-Screen Elevated Temperature	Temp Rise Test, Temp Difference Test			
Temperature Measurement	Center-point and center-box			
Highest/Lowest Temp Spot Marker	Yes,full-screen and measurement boxes both with highest/lowest temp spot marker			
On-screen Analysis	Emissivity, Partially emissivity, Reflected temperaure, Ambient temperature, Humidity, Distance, IR window compensation			
ROI Sound Alarm	Area alarm; High temperature alarm and low temperature alarm			
Image Display				
Display	Gorilla Glass, IPS LCD Display pixels: 1280*720，Display size: 5 inch (landscape)			
Build-in Digital Camera (visible light)	13-mega pixel, industrial digital camera			
LED lamp	Yes			
Image Modes	Thermal, Digital camera , Picture in picture, Image fusion.			
Picture in Picture	Resizable and Adjustable			
Palettes	16 standard palettes, 16 inverted palettes. 3 color isotherms.			
Color Isotherms	High temperature, low temperature, and interval temperature			
Temp Scale	Touch-screen, auto, manual			
Minimum Temp Span (Manual)	2℃(3.6°F)			
Data Storage				
Analyze Radiometric Image Data (On-screen)	Yes			
Analyze Radiometric Video Data (On-screen)	Yes			
Image File Formats	Standard JPEG with radiometric data included			
Video File Formats	Full Radiometric thermal image video in IRS format; standard MPEG4 Non Radiometric video;			
Gallery	Image&Videos preview and analyze			
Data Transfer	Gallery data transfer via USB Type-C interface, SD card reader, and Wi-Fi FTP**			
PC Software	Fotric AnalyzIR, WLIR			
Voice Annotation	200 seconds on built-in microphone and speaker. Support Buletooth headset**			
Text Annotation	Yes			
Tags	Favorites, and QR-code scan Tags for auto naming			
Remote Display and analysis	Radiometric IR Video Streaming over USB type-C 3.0 interface; Non-radiometric video over HDMI interface			
Auto Capture	Yes, Video recording on screen with 1Hz to 16Hz frame rate adjustable ；Time-Lapse 2s to 60m59s interval adjustable			

Battery			
Battery Life	≥ 4 hours per battery		
Battery Charging Time	2.5 hours to 90% full charge		
Battery Charging System	Two-bay battery charger with LED indicator (12V, 3A)		
AC Operation	Power supply (100V ac -240V ac, 50/60Hz)		
Power Saving	User-selectable screen-off modes		
General Specifications			
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		
SD Card Interface	Support SD 3.0, the highest speed is 104MB/s, hot plug is supported; support SD, SDHC, SDXC card,the maximum expansion is 2TB; with read-write indicator;		
Laser Ranger/Pointer	Independent key activation; Laser level: 2; Wavelength: 635nm; Power: <1mW		
Operation Temperature	-20℃ to +50℃(-4°F to 122°F)		
Storage Temperature	-40℃ to +70℃(-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 (protected against dust, limited ingress; protection against water spray from all directions), GB/T 4208-2017/IEC60529:2013		
Size (H x W x L)	312.8mm×123.3mm×139.2mm		
Tripod	UNC ¼"-20 thread 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) for thermal camera,10 years for IR detector		
Recommended Calibration Cycle	2 years (assumes normal operation and normal aging)		
Supported Languages	English,Traditional Chinese,Korea,Spanish,German		
Interchangable Lens Options			
	Fotric 348A	Fotric 347A	Fotric 346A	Fotric 345M
Wide-angle	44°×34° (＜0.1m), IFOV: 1.2 mrad	44°×34° (＜0.1m), IFOV: 1.6 mrad	44°×34° (＜0.1m), IFOV: 2.0 mrad	44°×34° (＜0.1m), IFOV: 2.4 mrad
Telephoto	12°×9°(＜1.0m), IFOV: 0.33 mrad	12°×9°(＜1.0m), IFOV: 0.44 mrad	15°×11° (＜0.25m), IFOV: 0.68 mrad	15°×11° (＜0.25m), IFOV: 0.82 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	-
Optional Accessories			
Rechargeable lithium batteries			
Dual dock battery charger			
Power Adapter			
USB to USB type-C interface cable			
Micro HDMI to HDMI interface cable			
Accessory bag (wrist strap, 2 wrist strap holders, 2 M4 * 8 screws, lanyard, Allen wrench)			
Portable soft bag			
Transportation hard case			
32GB SD card			
64GB SD card			
128GB SD card			
512GB SD card			

** Indicates that this features is only available in certified regions.