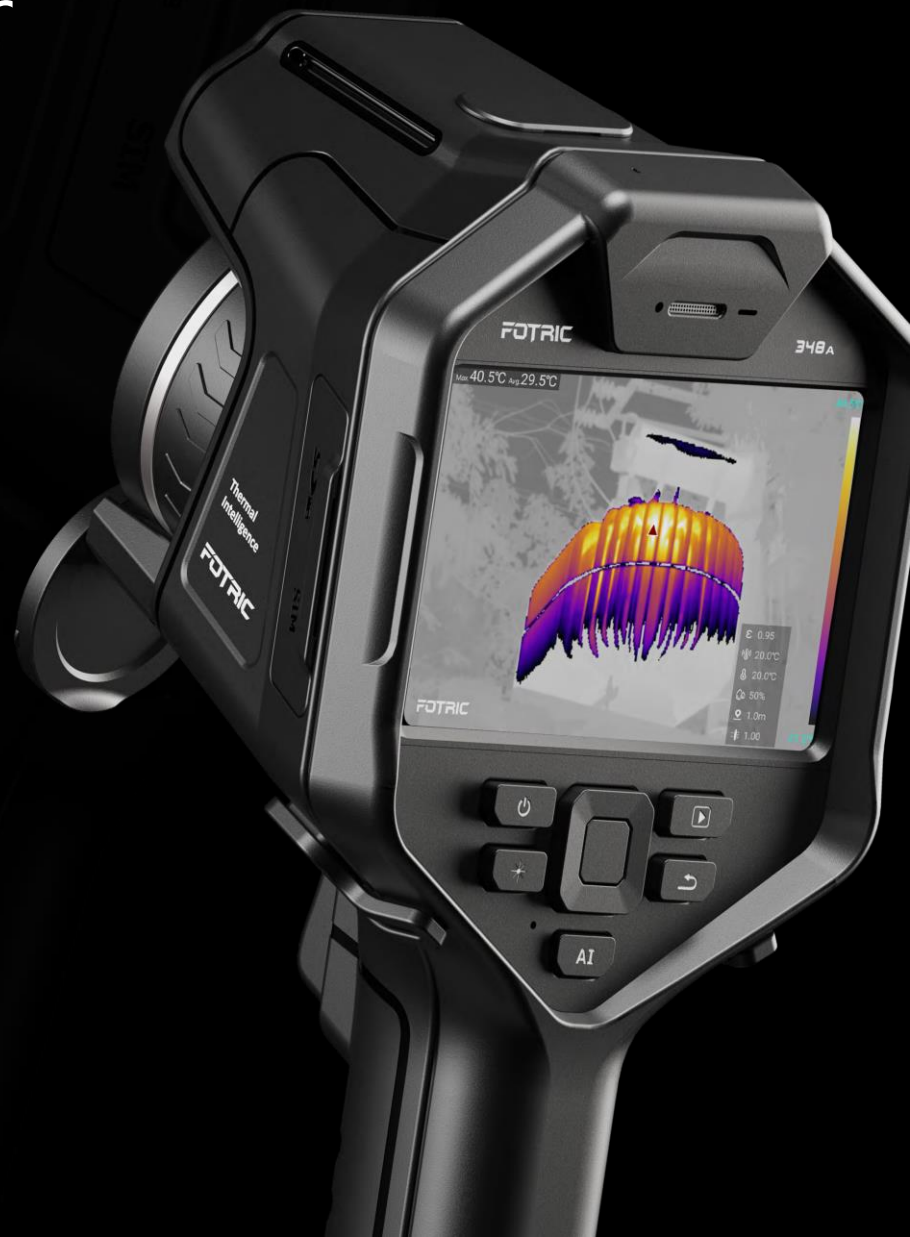
EDALTEC
EMPRESAS DE ALTA TECNOLOGIA

FOTRIC
Thermal Intelligence

FOTRIC 340 Series

Artificial Intelligence Thermal Imager



348 A
347 A
346 A
345 M

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Bright LED torch for dark areas

Laser for accurat distance and area measurement (*Only for 340A series)

Built-i 13 MP di tal camera for dynamic image quality

Multiple devices connections

Interchan eable lenses that camera auto-recognizes and auto-calibrates

Tripod for 1/4" standard mounting

Ergonomic handheld design with durable hand grip

FOTRIC 340 Series

Built-in microphone for voice annotation

Gorilla explosion-proof 5" HD IPS touch screen enlarge 44% interface

Up to 128GB micro SD memory card

AI customizable Quick-Access button

Batteries f totally up to 12 hours of continuos operation

348A 347A 346A 345M

Key Features	348A	347A	346A	345M
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°C@30°C			＜0.05°C@30°C
Temperature Measurement Range (smart switch between)	-20°C to 150°C (-4°F to 302°F); 0°C to 650°C (32°F to 1202°F); 200°C to 1200°C (392°F to 2192°F);			-20°C to 150°C (-4°F to 302°F); 0°C to 650°C (32°F to 1202°F);
IFOV with Standard Lens (spatial resolution)	0.68mrad	0.91mrad	1.14mrad	1.36mrad
Digital Zoom (Continuous adjustment of roller)	1x to 8x			1x to 4x
User-definable Spot Markers	8			4
User-defined Measurement Boxes(rectangle or circle)	8			4
User-defined Measurement Lines	8			1
Minimum Focus Distance	0.25m		0.1m	0.1m
Focus Mode	TurboFocus speedy Intelligent Auto focus system for continuous, laser distance, graphic contrast, manual			Manual
Laser Measurement	Distance, Length and Area			——

Common Features	348A	347A	346A	345M
Filed of View (FOV)	25°×19°			
MagicThermal	Enable MagicThermal multi-color dynamic imaging function, which can be used in real-time thermal image. Display the color thermal imaging of the target area by touch, while the other areas are displayed in black and white thermal imaging			
AI Programmable Key	Yes, for quick start			
Navigation Satellite System	Yes, support GPS/BeiDou			
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	128GB micro SD card			32GB micro SD card
Batteries (field-replaceable, rechargeable)	3 Lithium-ion rechargeable batteries (7.4V, 3500mAh)			2 Lithium-ion rechargeable batteries (7.4V, 3500mAh)
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), portable soft bag, hard portable case			

Temp Analysis	
Accuracy	± 2°C or ± 2 %, whichever is greater (ambient temp between15°C~35°C)
On-Screen Temperature Test	Temp Rising 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, Reflection temperature, Ambient temperature, Humidity, Distance
Sound Alarms	Area alarm;high temperature alarm and low temperature alarm
Color Alarms (temperature alarms)	High temperature, low temperature, and isotherms (within range)
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 grade digital camera
LED Light (torch and flash lamp)	Yes
Picture-in-Picture	Yes,resizable and movable
Palettes	2 MagicThermal palettes, 15 standard palettes, 15 Inverted palettes
Temp Scale	Touch-screen, auto, manual
Minimum Temp Span (Manual)	2°C(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 measurement data included
Video File Formats	Full radiation thermal image video in IRS format; standard MPEG4 non radiation video;
Gallery	Image preview and analyze, video preview and analyze
PC Software	Fotric AnalyzIR, WLIR
Voice Annotation	200 seconds built-in microphone and speaker on still image and video
Text Annotation	Yes
Remote Display View	Radiometric IR Video Streaming over type-c3.0 interface; Non-radiometric IR video streaming over HDMI HD interface
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	
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, 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 Pointer	Independent key activation; Laser level: 2; Wavelength: 635nm; Power: <1mW
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)

General Specifications	
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 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,Spanish,Korean,Traditional Chinese

Optional Lens	348A	347A	346A	345M
Wide-angle	44°×34° (＜0.1m)		44°×34° (＜0.1m)	44°×34° (＜0.1m)
Telephoto	12°×9°(＜1.0m)		15°×11° (＜0.25m)	15°×11° (＜0.25m)
Ultra Telephoto	7°×5°(＜3.0m)		7°×5° (＜1.0m)	——

Innovation
Excellence
Integrity

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