



Thermal Imager with 25° Lens, 640 x 480

Brand: FOTRIC

Code: 348A-L25



The FOTRIC 348A is an advanced handheld thermal camera, designed for professionals to improve maintenance efficiency in Electric industry, Oil and gas, and Manufacturing industries. Its 640 x 480 thermal resolution and 30mk NETD enable superior imaging display on 5" LCD touch screen. Other advanced features like laser-assisted autofocus, inter-changeable Lens options, and powerful AnalyzIR report software, all boost the operational performance, making it an ideal tool for site inspections. Equipment that detects and measures the infrared energy of objects. The camera converts the infrared data into an electronic image that shows the apparent surface temperature of the measured object.

Features:

Large 5 in. LCD vibrant screen of 1280 x 720 pixels

Extra sharp digital camera of 13-megapixels

MagicThermal's first class algorithm simplifies visual identification of equipment failures

One tap on its quick-response screen to highlight specific areas, leaving unwanted areas on shades of gray

Enhanced navigation of Picture-in-Picture for more flexible editing

Programmable AI Quick-Access button

EIN 37-1939950

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Complimentary access to AI Face Detection feature

Built-in temperature difference calculator for smart analysis

Full-range radiometric video for comprehensive post-analysis

Favorite images/videos quick selection in gallery

Image Annotation through voice, on-screen text tags, GPS for tailor-made visual report

Oustanding battery life performance for concern-free survey sessions

Modern Cobra-design and ergonomic grip for comfortable long shifts

In-Depth analyses and reports through AnalyzIR pro software included

Fotric AnalyzIR pro system support read-out of thermal measurements by temperature plot

Histogram and 3D graph

Fast and simplified reporting function with varies of templates

Long-distance small objects can be accurately measured with easy-switching focus modes: Auto, Laser-aided, Continuous and Manual focus

FOTRIC TurboFocus is fast, precise and noiseless

Quick auto-recognition and calibration when interchangeable lenses are replaced ensures accuracy and quality of measures and pictures

Infrared Resolution: 640 x 480

Included Lenses: 25° Lens

Super Resolution (SR): 1280 x 960

Infrared Resolution: <math><0.04^{\circ}\text{C}@30^{\circ}\text{C}</math>

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)

IFOV with Standard Lens (spatial resolution): 0.68mrad

Digital Zoom (Continuous adjustment of roller): 1x to 8x

User-definable Spot Markers: 8

User-defined Measurement Boxes (rectangle or circle): 8

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User-defined Measurement Lines: 8

Minimum Focus Distance: 0.25m

Focus Mode: TurboFocus speedy Intelligent Auto focus system for continuous, laser distance, graphic contrast, manual

Laser Measurement: Distance, Length and Area

Field of View (FOV): 25° x 19°

MagicThermal: Enable MagicThermal multi-color dynamic imaging function, which can be used in real-time thermal image; display color thermal imaging of target area by touch, while 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: 7 μ m~14 μ m

Detector Type: Uncooled infrared focal plane detector

Detector Pitch: 17 μ m

Frame Rate: 30Hz

Lens Recognition: Yes

Storage Memory: 128GB micro SD card

Batteries (field-replaceable, rechargeable): 3 Lithium-ion rechargeable batteries (7.4V, 3500mAh)

Ergonomic Design: Yes

Includes:

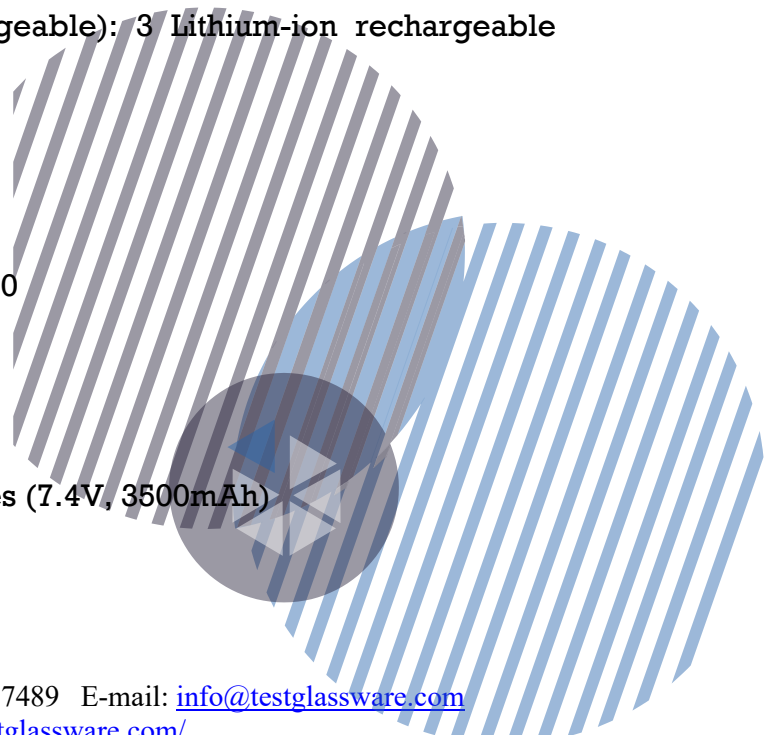
- 1 - Infrared Thermal Imager, 640 x 480
- 1 - 25° Lens
- 1 - Lens Cover
- 3 - Lithium-ion Rechargeable Batteries (7.4V, 3500mAh)
- 1 - Battery Charger

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- 1 - Power Adapter
- 1 - USB Type-C to USB Interface Cable
- 1 - Micro HDMI to HDMI Interface Cable
- 1 - SD Card
- 1 - SD Card Reader
- 1 - Accessory Bag (Wrist Strap, 2 Wrist Strap Holders, 2 M4 - 8mm
- 1 - Lanyard
- 1 - Allen Wrench)
- 1 - Information Bag (Packing List, User Manual, Calibration Certificate, Certificate of QC, Certificate of Inspection, Warranty Card, USB)
- 1 - Portable Soft Bag
- 1 - Hard Portable Case

Full Specifications

Infrared Resolution 640*480

Super Resolution (SR) 1280*960

Thermal Sensitivity (NETD) $< 0.03^{\circ} \text{C} @ 30^{\circ} \text{C}$

Temperature Measurement Range -20°C to 1550°C (-4°F to 2822°F)

IFOV with Standard Lens 0.68mrad

Digital Zoom: 1-10x, Continuous adjustment of roller 1-8x

User-definable Spot Markers 16 spot markers 1

User-defined Measurement Boxes 12 (rectangle or circle) 12 (rectangle or circle) 12 (rectangle or circle)

User-defined Measurement Lines 8

Minimum Focus Distance 0.25m

Focus Mode TurboFocus™ Speedy Intelligent Autofocus system for continuous, laser distance, graphic contrast, manual

Laser Measurement Distance, Length, and Area

Field of View (FOV) $25^{\circ} \times 19^{\circ}$

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AI Programmable Key Yes, for quick start

Navigation Satellite System Yes, support GPS

Image Annotation Favorites and AutoNaming

Infrared Spectral Band $7\mu\text{m}\sim 14\mu\text{m}$

Detector Type Uncooled infrared focal plane detector

Detector Pitch $17\mu\text{m}$

Frame Rate 30Hz

Lens Options Optional wide-angle lens, telephoto lens

Lens Recognition Yes

Storage Memory Standard issue 128GB SD memory card, expandable upto 2TB

Batteries 3 Lithium-ion rechargeable batteries (7.4V, 3500aH)

Accuracy $\pm 2^{\circ}\text{C}$ or $\pm 2\%$, whichever is greater (ambient temp between $15^{\circ}\text{C}\sim 35^{\circ}\text{C}$)

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

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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 °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

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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 60 khz 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: $d*0.01\% \pm 2$

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 ¼ "-20 interface

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