

### **Product Datasheet - Technical Specifications**



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

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# Scaling Excellence

# Top-Tier Thermal Imaging Ground-Level Price

**FOTRIC Ti series** 

## **Robust and Versatile**

#### TurboFocus<sup>®</sup> Intelligent Focus System

Combines thermal contrast AF, laser-assisted AF, continuous AF, touch AF, and manual focus to deliver fast, accurate, and quiet focusing. Seamlessly aligns thermal and digital images for precise analysis.



Visible light fusion thermal image (50% transparency)



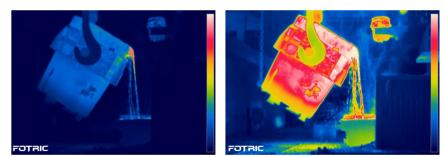
2-meter drop test

# **Meticulous Measurement**



#### T-TWB®

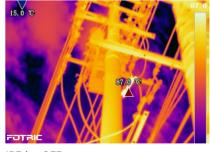
Automatically adjusts the palette ribbon based on the pixel distribution across temperature ranges, offering a clearer view of temperature distribution for more efficient inspections.



TWB OFF

#### IREdge®

Enhances object contours and edges to improve visibility and differentiation from the background.

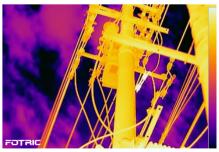


IREdge OFF

#### **Robust Design**

- 2-meter drop impact resistance makes a truly enduring equipment;
- With an IP54 protection rating, this device is built for demanding industrial environments.

TWB ON



IREdge ON

# Powerful Analysis, Swift Decision-making

#### Laser-assisted Area/Length Measurement

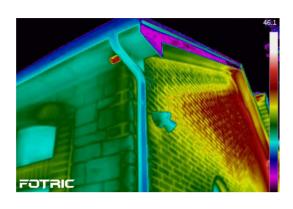
Equipped with a high-precision laser rangefinder, this system measures distances up to 50 meters with an accuracy of d\*0.01%  $\pm$  2mm. It automatically calculates areas and lengths within the thermal image, ideal for building inspections and thermal loss assessments of large equipment.

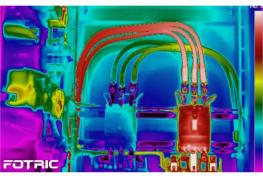
#### **On-device Analysis**

Easily annotate images during inspections with the bookmark feature. Bookmarked images can be retrieved anytime for onboard analysis and streamlining your workflow.

#### **Professional Analysis Software**

AnalyzIR Venus software enables detailed data analysis, batch processing of inspection results, and instant report generation, enhancing the efficiency and professionalism of inspection workflows.







## Specifications

Model	Ti7	Ti5
Thermal Imaging Parameters		
Infrared Resolution	640*480	384*288
Super Resolution	1280*960	768*576
IR Detector Type	Uncooled infrared focal plane detector	Uncooled infrared focal plane detector
Thermal Sensitivity (NETD)	<30mK@30°C	<40mK@30°C
Detector Pitch	17µm	17µm
Spectral Range	8~14µm	8~14μm
Image Frame Rate	30Hz	30Hz
Field of View (FOV)	44° *33°	
Spatial Resolution (IFOV)	1.2mrad	2mrad
Minimum Imaging Distance	0.1m	0.1m
Focal Length (mm)	14mm	8mm
Focus Mode	TurboFocus <sup>®</sup> system for continuous, laser-assisted, thermal contrast AF, touch AF; Manual focus	
Lens Identification	Automatic Identification	
Unique Features		
TurboFocus®	TurboFocus® Speedy Intelligent Autofocus system for continuous, laser distance, thermal contrast, and touch focus; Manual focus.	
T-DEF <sup>®</sup>	Thermal and visible light image blend, transparency 0% ${\sim}100\%$	
IREdge	Contour detail enhancement	
T-TWB <sup>®</sup>	Tempetrature visual representation normalization option	
Temperature Analysis		
Temperature Range	-20~120°C (-4~248 °F ),0~550°C (32~1022 °F ),Intelligent range	
Measurement Accuracy	$\pm$ 2°C (3.6 °F ) or $\pm$ 2 %, whichever is greater (ambient temperature at 15~35° C(59~95 °F ) , target object temperature >0° C, calibration at 1 meters	
ROI Spot	12	6
ROI Line	3	3
ROI Area	12	6
Measurement Parameters	Emissivity, Partial emissivity, Reflected temperaure, Ambient temperature Humidity, Distance and IR window compensation.	
On-device Analysis	Support	
PC Software	AnalyzIR®	
Image Display		
Display Screen	5 inch touch screen (1280 x 720)	
Image Mode	Thermal image, Digital Camera, Picture in Picture, and T-DEF®, High sensitivity mode (only active when the lens is identified as a gas detection lens)	
Palettes	10	
	Auto (Minimum Temp Span 3°C (5.4	

## Specifications

Color Alarms (temperature alarms)	High temperature, low temperature, and interval isotherms	
Image Overlay	Display global max, min, avg measurement parameters	
High/Low Temperature Tracking	Yes, for both global and ROI	
Digital Zoom	1-10x, continuous	1-8x, continuous
Capture Feature		
Digital Camera	8MP industrial grade camera	
Storage Card	Micro SD card, 64G, expandable up to 1TB	
Time-lapse Capture	Set the time interval from 2 seconds to 1 hour to save the images of corresponding modes in thermal image mode (IR image, T-DEF <sup>®</sup> , Picture-in-Picture)	
Image Format	Radiometric thermal photo (JPEG.), non-radiometric digital camera photo	
Gallery	Support viewing images and videos in the gallery as icons. Support previewing images and videos in the gallery. Support thermal image analysis in the gallery. Support filtering and deleting images and videos in the gallery	
Data Connection		
WiFi	Support 2.4GHz&5GH channel,Support 802.11a/b/g/n/ac	
Bluetooth	BT4.2 LE, Support	
USB	USB Type-C type; USB 3.0 / 2.0 compliant	
HDMI	Micro HDMI type,HDMI 1.4 compliant,Support 1080P imaging video streaming in 60Hz.	
Auxiliary Features		
Software and Firmware Upgrade	Support OTA remote upgrade and SD card local upgrade	
Laser	Independent key activation; Laser level: 2; Wavelength: 635nm; Power: <1mW; Laser distance: 0.1~50m, Accuracy: d*0.01%±2mm.	
Laser-assisted Area Measurement	Support	
LED Flash Lamp	Support torch illuminat	ion and flash light mode
Power System		
Battery	Rechargeable Li-i	on, 7.4V, 3500mAh
Battery Operating Time	≥ 4 hours per battery(depends o	n the environment and workload)
Battery Charging System	Two-bay battery charger	with LED display (12V, 3A)
Battery Charging Time	2.5 hours to 90% full charge	
Energy Management	User-selectable screen-off modes	
External Power Source	Support using DC 12	/ to power the device
Reliability and Certificates		
Safety	EN 61010-1	
Electromagnetic	EN IEC 61326-1	
Compatibility		
Enclosure Rating	IP54(IEC 60529)	

## Specifications

Engineered to withs
-40~7
Hard plastic: PC+ABS, S
Support UN
English, Spanish,
Infrared thermal imager adapter, USB type-C to cable, SD card, SD car holders, 2 M4 * 8 screws list,user manual, calibr

istand 2 meters (6.5 feet) drop with standard lens 25g(IEC 60068-2-27) 2g(IEC 60068-2-6) Compliant

-20~50°C (-4~122 °F ) 70°C (-40~158 °F ) without battery

<95%RH

313mm\*123mm\*139mm

1.0kg (lens not included)

150g

, Soft plastic: TPE, Magnesium alloy, Aluminum alloy NC 1/4-20 interface for tripod connection

2 years

2 years

, German, Traditional Chinese, Korean, Italian, Portuguese,Thai, French

er, lens, lens cover, 2 batteries, battery charger, power to USB interface cable,micro HDMI to HDMI interface ard reader, accessory bag (wrist strap, 2 wrist strap ws, lanyard, Allen wrench), information bag (packing portation certificate, warranty card), portable soft bag, portable hard case

