

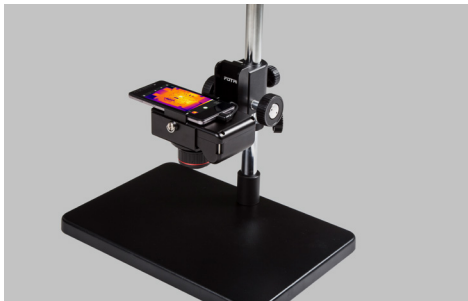


FOTRIC 220_{GRD}

Thermal Imaging Solution for R&D

Fotric 220GRD is a perfect thermal imaging solution for R&D use, including not only single images detection, but also continuous video streams recording and analyze, which reveals more valuable data.

Fotric 220GRD has been widely used in R&D Institutes & Universities to publish papers in world's most authoritative magazines.



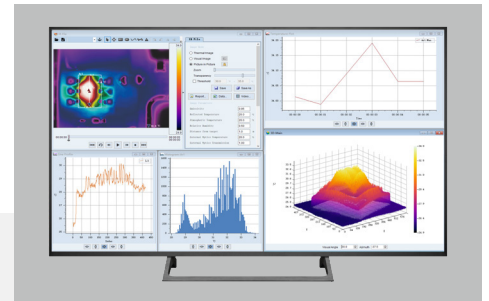
Designed for R&D use:

- Up to 640x480 IR resolution, smaller than 50mk IR sensitivity, and up to 20μm true Micro Lens for High-precision measurement.
- 1TB oversize single file for continuous video streaming
- 10 hours battery life for long-time remote use
- Optional test bench with 360 degrees orientation



Enhance Work Efficiency:

- Handheld ergonomics & robust design
- Touch-screen record and analyze operations on Android APP LinkIR
- Data management & cloud share by Android phone



Professional Thermal Analyze software:

- Flexible record full-radiation thermal video, by automatic time/temp/IO signal trigger to start and stop
- Powerful analyze Thermal photos and videos, features include PIP fusion, temp difference mode, ROI settings, parameter settings, Histogram, 3D graph, Temp vs. Time curve and plot line analysis
- Highly-efficient generate customized Report, and export Raw thermal data matrix for further simulation research

Specification

System Overview	228GRD	226GRD
Infrared Resolution	640*480	384*288
Super Resolution	1280*960	—
Field of View(FOV)	28.7°H*21.6°V	28°H*21°V
Temperature Range	-20°C~+650°C (-4°F~+1202°F)	
Minimum Focus Length	0.1m (Standard Lens)	0.15m (Standard Lens)
Spatial Resolution (IFOV)	0.78mrad (Std.Lens)	1.27mrad (Std.Lens)
Thermal Sensitivity(NETD)	<0.05°C@30°C	<0.06°C@30°C
Measurement Accuracy	±2°C or ±2% @10°C~35°C	
Focus Mode	Manual	
Spectral Range	8~14μm	
Detector Type	Focal Plane Array (FPA) uncooled microbolometer	
Zoom	10X	8X
Frame Rate	30Hz	

Measurement and Analysis

Display Mode	Thermal, Visible Light, PIP Fusion	
Palettes	15 palettes and 2 isotherms	
ROI Measurement Modes	12 moveable spots 12 moveable area boxes 3 lines Emissivity set for each ROI	8 moveable spots 8 moveable area boxes 1 lines Emissivity set for each ROI
Temperature Alarm	Sound and visual alarm of above/below temperature threshold	
Image File Format	Standard JPGE, including raw temperature data, radiometric	
Fully-radiometric Thermal Video Stream	Support up to 1,000 frames per video stream in smartphone App and 1TB in PC software	
Analysis on Smartphone	Support thermal image and video analysis	
Software and App	AnalyzeIR(PC), LinkIR(Android)	

General Specifications

Battery Type	Rechargeable Lithium-ion, 10+hours	
Operating/Storage Temperature	-20°C~+50°C (-4°F~+122°F)	
Humidity	<90%RH	
Enclosure Rating	IP40	
Tripod Mounting	UNC1/4"-20	
Weight	615g	
Dimensions	118*145*93.5mm	
Warranty	2 years	



Lens

FOTRIC 228GRD (Standard Lens 28°)

- M20-228 macro lens, resolution 20μm
- L45-228 wide-angle lens, FOV 45°*33.8°

FOTRIC 226GRD (Standard Lens 28°)

- M50-226 macro lens, resolution 50μm
- L47-226 wide-angle lens, FOV 47°*35°



Optional Test Platform

- FOTRIC B3s Universal test bench
- FOTRIC Bg1 Pouch shoulder bag

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Visit FOTRIC Website