



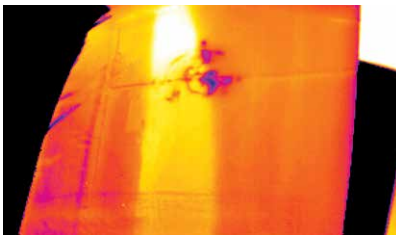
FLIR GF335

Cooled MWIR High-Sensitivity Camera

If your application requires a mobile camera able to detect very subtle temperature differences, the GF335 is the camera for you. The GF335 is a high sensitivity, low noise, hand-held thermal camera that excels at detecting faint heat signatures. It is well suited to a wide range of applications, including use on test ranges, non-destructive testing, research, and science.



Thermal image of B-52 in flight



Subtle heat variations in an airplane propeller



Uses include health screenings and biomedical research

Sharp Thermal Images

The GF335 features a cooled 3–5 μm InSb detector that produces razor-sharp thermal images. Its high sensitivity of $< 15 \text{ mK}$ and high accuracy of $\pm 1^\circ\text{C}$ ($\pm 1.8^\circ\text{F}$) or 1% allow the user to detect very subtle temperature differences with astounding clarity. This allows you to thermally characterize your target with greater accuracy and to detect the faintest of heat signatures.

On-Camera Video Recording, Playback, and Analysis

Record temperature calibrated snapshots or movies to the removable SD card for image playback, analysis, and data-sharing directly on the camera, or access on a computer using the included FLIR ResearchIR software. For longer recordings, store non-radiometric thermal MPEG-4 or visual videos on the SD card. For remote camera control and real-time image viewing, mount the camera on a tripod and stream directly to a computer running ResearchIR.

Versatile Focus Options

Whether you prefer one-touch automatic focusing or manual focusing, the GF335 delivers the perfect picture. A powerful 8 to 1 digital zoom also lets you zero-in on distant targets.

User-Friendly Ergonomics

Designed for exceptional performance, with a 4.3" flip-out LCD that swivels for comfortable viewing, tiltable viewfinder for bright environments, and advanced rotating handle with quick-access buttons.

ResearchIR Compatible

Stream data over USB to a computer for real-time camera control, viewing, acquisition, analysis, and data sharing through FLIR ResearchIR Max software for research and science professionals.

Specifications

Detector	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	320 x 240
Detector Pitch	30 μm
NETD	<15 mK
Sensor Cooling	Stirling Microcooler
Electronics / Imaging	
Read Out	Snapshot (FLIR 4 Channel)
Frame Rate (Full Window)	60 Hz
Dynamic Range	14-bit
Digital Data Streaming	Real-time Radiometric = USB to PC (30 Hz) Real-time Radiometric = Memory Card on Camera (15 Hz) Real-time Non-radiometric = USB to PC Real-time Non-radiometric = Memory Card on Camera
Video	HDMI Digital Video
Visible Image	3.2 Megapixel from Integrated Visible Camera
GPS	Location Data Stored with Every Image
Command and Control	USB
Measurement	
Standard Temperature Range	-20°C to +120°C (-4°F to +248°F)
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of Reading from 0°C to 120°C
Optics	
Camera f/#	f/1.5
Available Lenses	14.5° (38 mm), 24° (23 mm)
Focus	Automatic or Manual (Motorized & Tactile)
Image Presentation	
On-Camera Display	Adjustable 4.3 in LCD Display (800 x 480) & LCD Viewfinder (800 x 480)
Automatic Gain Control	Manual, Linear, Histogram
Image Analysis	10 Spot Meters, 5 Area Boxes, Profile, Delta Temperatures, Emissivity & Measurement Corrections
Image Annotations	GPS
Zoom	1-8x Digital Continuous
General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Storage Temperature Range	-30°C to 60°C (-22°F to 140°F)
Encapsulation	IP 54 (IEC 60529)
Bump / Vibration	25 g (IEC 60068-2-29) / 2 g (IEC 60068-2-6)
Power	AC adapter 90-26- VAC, 50/60 Hz or 12 V from Vehicle
Battery System	Rechargeable Li ion, 7.2 V, 4.4 Ah (> 3 hours run time at 25°C/68°F)
Weight w/ Battery w/ Lens	2.48 kg (5.47 lb)
Size (L x W x H) w/ Lens	306 x 169 x 161 mm (12.0 x 6.7 x 6.3 in)
Mounting	1/4"-20

NASHUA
FLIR Systems, Inc.
9 Townsend West
Nashua, NH 03063
USA
PH: +1 866.477.3687

SWEDEN
FLIR Systems AB
Antennvägen 6,
PO Box 7376
SE-187 66 Täby
Sweden
PH: +46 (0)8 753 25 00

PORTLAND
Corporate Headquarters
FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
USA
PH: +1 866.477.3687

HONG KONG
FLIR Systems Co., Ltd
Rm 1613-16, Tower II
Grand Central Plaza
138 Shatin Rural
Committee Road Shatin,
New Territories
Hong Kong
TEL: +852 2792 8955

EUROPE
FLIR Systems
Luxemburgstraat 2
2321 Meer
Belgium
PH: +32 (0) 3665 5100

UK
FLIR Systems UK
2 Kings Hill Avenue
Kings Hill
West Malling - Kent
ME19 4AQ
United Kingdom
PH: +44 (0)1732 220 011

CANADA
FLIR Systems, Ltd.
920 Sheldon Court
Burlington, ON L7L 5L6
Canada
PH: +1 800.613.0507

LATIN AMERICA
FLIR Systems Brasil
Av. Antonio Bardella, 320
Sorocaba, SP 18052-852
Brasil
TEL: +55 15 3238 7080

www.flir.com/research
NASDAQ: FLIR

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited. Imagery for illustration purposes only. Specifications are subject to change without notice. ©2015 FLIR Systems, Inc. All rights reserved. (Rev. 1, 12/02/15)