

**Part number:**

**44401-0102**

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**Legal disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply.

Information and equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited.



**Licensing and classification**

**License information**

Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

**Imaging and optical data**

IR resolution	320 x 240 pixels
Thermal sensitivity/NETD	<25 mK @ +30°C (+86°F)
Field of view (FOV) / Minimum focus distance	24° x 18° / 0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8x continuous, digital zoom
Digital image enhancement	Noise reduction filter, High Sensitivity Mode (HSM)

**Detector data**

Focal Plane Array (FPA) / Spectral range	Cooled InSb / 3.2–3.4 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene

**Electronics and data rate**

Full frame rate	60 Hz
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**Image presentation**

Display	Built-in widescreen, 4.3 in. LCD, 800 x 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 x 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image modes	IR-image, visual image, High Sensitivity Mode (HSM)

**Measurement**

Temperature range	–40°C to +350°C (–40°F to +662°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)

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CANADA: 1 800 613 0507

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## Measurement analysis

Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

## Set-up

Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow
Set-up commands	1 programmable button, local adaptation of units, language, date and time formats

## Storage of images

Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
GPS	Location data automatically added to every image from built-in GPS

## Video recording in camera and video streaming

Non-radiometric IR-video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR-video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Non-radiometric IR-video streaming	RTP/MPEG4

## Digital camera

Built-in digital camera	3.2 Mpixel, auto focus, and two video lamps
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## Laser pointer

Laser	Activated by dedicated button
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## Data communication interfaces

USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device (e.g. memory stick)</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 High Speed
Video out	Digital Video Output (image)

## Power system

Battery type	Rechargeable Li Ion battery
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## Power system

Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Start-up time	Typically 7 min. @ 25°C (+77°F)

## Environmental data

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)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycl)

EMC	<ul style="list-style-type: none"><li>• EN61000-6-4 (Emission)</li><li>• EN61000-6-2 (Immunity)</li><li>• FCC 47 CFR Part 15 class A (Emission)</li><li>• EN 61 000-4-8, L5</li></ul>
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Encapsulation	IP 54 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)

## Physical data

Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Cameras size, incl. lens (L x W x H)	306 x 169 x 161 mm (12.0 x 6.7 x 6.3 in.)
Tripod mounting	UNC ¼"-20

## Scope of delivery

- Hard transport case
- Infrared camera with lens
- Battery charger
- Battery, 2 ea.
- Calibration certificate
- Downloads brochure
- FLIR QuickReport™ PC software CD-ROM
- FLIR VideoReport™ PC software CD-ROM
- HDMI-DVI cable
- HDMI-HDMI cable
- Lens cap (2 ea.)
- Lens cap (mounted on lens)
- Memory card
- Memory card adapter
- Power supply, incl. multi-plugs
- Printed Getting Started Guide
- Printed Important Information Guide
- Registration card
- Service & training brochure
- Shoulder strap
- USB cable
- User documentation CD-ROM