



Flir iXX-Series

App-Enabled Thermal Camera with LTE



Key Features

- App-based functionality that enables efficient and secure inspections to maintenance workers at any skill level.
- Direct cloud integration with Flir Ignite™ or Assetlink via Wi-Fi or LTE (i35 & i65 only) for immediate uploading, organization, and sharing of data as well as seamless reporting and analysis.
- Crystal-clear thermal images with up to 480 × 640 resolution and Flir-patented MSX® enhancement, which embosses visible details onto thermal images for faster problem identification.

Main Applications

- Electrical and mechanical inspections across industrial and utility environments, enabling early fault detection and reduced downtime.
- Enterprise-level condition monitoring programs with asset hierarchy, cloud-based data management, and team-wide collaboration.
- Building diagnostics and facility maintenance, including moisture detection, HVAC performance checks, and energy loss assessments.

Specifications

Model	Flir i34	Flir i35	Flir i64	Flir i65
Imaging and optical data				
IR resolution	240 × 320 pixels		480 × 640 pixels	
Thermal sensitivity/ NETD	<40 mK at 30°C (86°F)			
Field of view (FOV)	38° × 49°			
Minimum focus distance	0.5 m			
Spatial resolution (IFOV)	2.9 mrad		1.5 mrad	
F-number	1.4			
Image frequency	30 Hz			
Focus	Fixed focus			
Spectral range	7.5–13 μm			
Color palettes	Iron, White hot, Black hot, Rainbow, Arctic, Lava, Rainbow HC			
User interface				
Display	5 in. 720 × 1280 color LCD			
Touch screen	Capacitive touch			
Text	Text annotation on image using onscreen keyboard			
Flashlight	Manually activated bright LED			
Image adjustment	Automatic/Manual			

Model	Flir i34	Flir i35	Flir i64	Flir i65
Laser pointer				
Laser	Class 2			
Laser alignment	Position of laser pointer automatically displayed on the infrared image			
Image presentation modes				
Image modes	MSX, Thermal, Picture-in-Picture, Digital camera			
Measurement				
Camera temperature range	-20°C to 200°C (-4 to 392°F) 10°F to 450°C (50°F to 842°F)		-20°C to 200°C (-4°F to 392°F) 10°C to 550°C (50°F to 1022°F)	
Accuracy	±2°C (±3.6°F) or ±2%			
Measurement analysis				
Spotmeter	Center spot, box with min./max.			
Isotherm	Above, Below			
Delta T	Yes, NFPA 70B compliant			
Emissivity correction	Variable from 0.1 to 1.0			
Emissivity table	Emissivity table of predefined materials			
Measurements correction	Emissivity, matt/semi-matt/semi-gloss + custom value, reflected apparent temperature, atmospheric compensation			
1-touch level/span	Yes; automatic contrast			



Flir iXX-Series

App-Enabled Thermal Camera with LTE

Specifications, cont.

Model	Flir i34	Flir i35	Flir i64	Flir i65
Storage of images				
File formats	Standard JPEG, 14-bit measurement data included			
Storage media	Internal memory, onboard Flir Ignite cloud and Assetlink connectivity			
Digital camera				
Digital camera, resolution	8 MP, Autofocus			
Digital camera, FOV	50.5° × 64.5°			
Data communication interfaces				
Interfaces	USB-C: Data transfer to and from PC and Mac device Display port over USB-C			
Wi-Fi	IEEE 802.11 a/ac/b/g/n (2.4 and 5 GHz)			
Cellular	No	Yes	No	Yes
Radio				
Operating frequency	WLAN 2.4 GHz: 2412 to 2462 MHz WLAN 5 GHz: 5150 to 5250 MHz			
Power system				
Battery type	Rechargeable Lithium-ion battery			
Battery operating time	4 hours at 25°C (77°F) ambient temperature and typical use			
Charging system	Battery is charged inside the camera or in specific charger (included)			
Charging time	2 hours in charger / 4 hours to 90% capacity in-camera			
Power management	Automatic shut-down			
AC operation	Optional accessory: 45 W AC adapter, 100 V to 240 V AC input, 15 V DC, 3 A output to camera			
Environmental and certifications				
Drop test	2 m (6ft 7 in)			
Encapsulation	IP54 IP54(IEC 60529)			
Operating temperature range	-15°C to 50°C (5°F to 122°F)			
Storage temperature range	-40°C to 70°C (-40°F to 158°F)			
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity			
EMC	EN 301 489-1, EN 301 489-17, EN 61000-6-3, EN 61000-6-2, FCC 47 CFR Part 15 Class B			
Radio spectrum	ETSI EN 300 328 ETSI EN 301 893 FCC 47 CFR part 15 RSS-247			
Shock	25 g (IEC 60068-2-27)			
Vibration	2 g (IEC 60068-2-6)			

Model	Flir i34	Flir i35	Flir i64	Flir i65
Physical data				
Camera weight, incl. battery	0.8 kg (1.76 lb)			
Camera size (L × W × H)	225 × 136 × 73 mm (8.9 × 5.4 × 2.9 in)			
Color	Black			
Shipping information				
Packaging type	Cardboard box			
Package includes	Infrared camera with battery Extra battery Battery charger USB-C cable Printed documentation Hard transport case Wrist strap			
Packaging, weight	3.1 kg (6.83 lbs)			
Packaging, size	385 × 165 × 315 mm (15.2 × 6.5 × 12.4 in)			
P/N	18455-1101	18455-0101	18455-1201	18455-0201

This product is subject to United States export regulations and may require US authorization prior to export, reexport, or transfer to non-US persons or parties. Diversion contrary to US law is prohibited. For assistance with confirming the Jurisdiction & Classification of Teledyne Flir, LLC products, please contact exportquestions@flir.com. ©2025 Teledyne FLIR, LLC. All rights reserved.

Revised 07/31/25
iXX_FLIR_Datasheet_en-US_v2 25-0311-INS