



# 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			

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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)	-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		



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### 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)			

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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

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