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FLIR P Series

# FLIR P640

The High Performance infrared inspection system

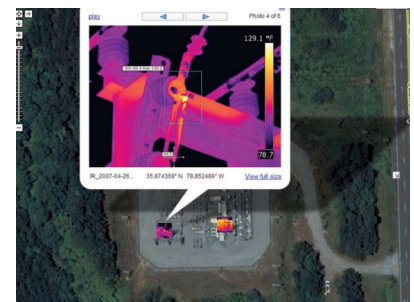
FLIR P640 is the highest performing infrared inspection system available. With its state of the art technology, including 640x480 detector resolution and unique ergonomic design it is the natural choice for professional thermographers that want the most efficient instrument producing professional results.



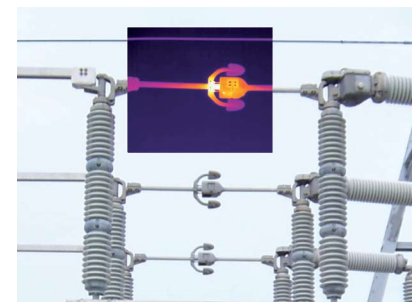
- Image resolution 640x480
- Sensitivity 30 mK
- Large high resolution 5.6" flip-out LCD
- Tilttable high resolution viewfinder
- High performance lenses with USM technology
- 1-8 times continuous zoom with pan
- Picture in Picture
- Thermal fusion: above, below interval
- Rotatable handle for convenient operation
- Built-in 3.2 Mpixel digital camera with target illuminator
- Standard temperature range -40 °C to 500 °C
- Real time radiometric storage to built-in RAM
- Periodic storage
- Panorama
- Voice and text annotation
- MPEG-4 streaming to PC using USB or FireWire
- Programmable buttons

FLIR Systems FLIR P640 is an affordable easy-to-operate high-performance infrared camera that delivers accurate temperature measurements at productive and safe distances. This makes the P640 camera an ideal solution for cost-effective and efficient predictive maintenance programs.

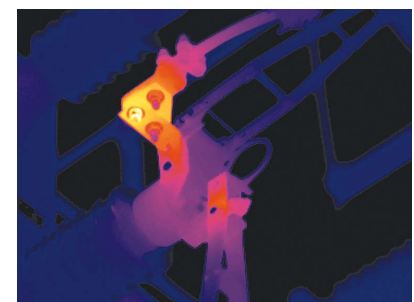
The P640 includes an integrated 3.2 megapixel camera to aid in reporting. Infrared and visual images taken with the P640 can be stored in standard JPEG formats. The P640 visual camera includes matching Field Of View lenses, so IR and visual images are shown at similar long distances using the same Field Of View.



GPS technology helps to record location information



Fusion, a function that lets you display a part of digital photo as an infrared image.



Infrared inspection helps to detect overheating parts, can avoid costly downtime and maintain plant efficiencies.

# FLIR P640 Technical Specifications

<b>Imaging and optical data</b>	
Field of view (FOV) / Minimum focus distance	24° × 18° / 0.3 m
Spatial resolution (IFOV)	0.65 mrad
Thermal sensitivity / NETD	30 mK @ +30°C
Image frequency	30 Hz
Focus	Automatic or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom, including panning
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 7.5–13 μm
IR resolution	640 × 480 pixels
<b>Image presentation</b>	
Display	Built-in widescreen, 5.6 in. LCD, 1024 × 600 pixels
Viewfinder	Built-in, tiltable LCD, 800 × 600 pixels
Automatic image adjustment	Continuous / manual; linear or histogram based
Manual image adjustment	Level / span / max / min
Image modes	IR-image, visual image, thermal fusion, picture in picture, thumbnail gallery
Thermal fusion	IR image shown above, below or within temp interval on visual image
Picture in Picture	Resizable and movable IR area on visual image
Reference image	Shown together with live IR image
<b>Measurement</b>	
Temperature range	–40°C to +500°C
Accuracy	±2°C or ±2% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	5 boxes or circles with max. / min. / average
Automatic hot / cold detection	Max / Min temp. value and position shown within box, circle or on a line
Isotherm	2 with above / below / interval
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, optics transmission, atmospheric transmission and external optics
Measurement function alarm	Audible/visual alarms (above / below) on any selected measurement function
<b>Set-up</b>	
Set-up commands	Configurable measurement tools menu; configure information to be shown in image; 2 Programmable buttons; user profiles; local adaptation of units, language, date and time formats
<b>Storage of images</b>	
Image storage	Standard JPEG, including measurement data, on memory card Built-in RAM for burst recording
Image storage mode	IR / visual images; simultaneous storage of IR and visual images Visual image is automatically associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
Panorama	For creating panorama images in FLIR Reporter Building software
<b>Image annotations</b>	
Voice	60 seconds stored with the image
Text	Predefined text or free text from PDA (via IrDA) stored with the image
Image marker	4 on IR or visual image
<b>Video recording and streaming</b>	
Radiometric IR-video recording	Real-time to built-in RAM, transferable to memory card.
Non-radiometric IR-video recording	MPEG-4 to memory card
Non-radiometric IR-video streaming	MPEG-4 to PC using USB or WLAN (optional)
<b>Digital camera</b>	
Built-in digital camera	3.2 Mpixel, auto focus, and video lamp
<b>Laser pointer</b>	
Laser	Activated by dedicated button
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, IrDA, composite video, headset connection
<b>Power system</b>	
Battery	Li Ion, 3 hours operating time
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Power management	Automatic shutdown and sleep mode (user selectable)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C
Storage temperature range	–40°C to +70°C
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C
Encapsulation	IP 54 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
<b>Physical data</b>	
Camera weight, incl. lens and battery	1.8 kg
Cameras size, incl. lens (L × W × H)	324 × 144 × 147 mm
Tripod mounting	UNC ¼"-20

<b>Camera includes:</b>
Hard transport case
Infrared camera with lens
Battery (2 ea., one inserted in camera, one outside camera)
Battery charger
Calibration certificate
FLIR QuickReport™ PC software CD-ROM
FireWire cable, 4/6
FireWire cable, 6/6
Headset
Lens cap (mounted on lens)
Lens cap (2 ea.)
Mains cable
Memory card-to-USB adapter
Memory card with adapter
Power supply
Printed Getting Started Guide
Shoulder strap
USB cable
User documentation CD-ROM
Video cable
Warranty extension card or Registration card
<b>Supplies &amp; Accessories</b>
Close-up IR lens 0.5X, f = 75 mm (fits 24° IR lens) for ThermoCAM and FLIR 600 series
IR lens f = 76 mm, 12°, incl. case for FLIR 600 series
IR lens, f = 131 mm, 7°, incl. case for FLIR 600 series
IR lens f = 19 mm, 45°, incl. case for FLIR 600 series
IR lens f = 38 mm, 24°, incl. case for FLIR 600 series
Macro lens 1x (25 mm) with case
Protective window (fits 24°) with case
High temperature option +2000°C
High temperature option +1500°C
Battery
Battery charger, incl. power supply and cable
Battery charger, incl. power supply and cable
Battery charger, incl. power supply and cable
Battery charger, incl. power supply with multi plugs
Power supply, incl. multi plugs
SD memory card, 1 GB
Adapter, SD memory card to USB
Memory card micro-SD with adapters
USB cable Std A <-> Mini-B, 2 m
FireWire cable 6/6, 2.0 m
FireWire cable 4/6, 2.0 m
Video cable, RCA <-> RCA, 2.0 m
Cigarette lighter adapter kit, 12 VDC, 1.2 m
Hard transport case for FLIR B/P/SC640
Headset, 3.5 mm plug
Remote Control Unit
FLIR Reporter Ver. 8.3 Professional (Sec. device)
FLIR Reporter Ver. 8.3 Professional
FLIR Reporter Ver. 8.3 Standard (Sec. device)
FLIR Reporter Ver. 8.3 Standard
FLIR BuildIR
FLIR Reporter Ver. 8.5 Standard
FLIR Reporter Ver. 8.5 Professional
Cover Visual Camera mkl1



FLIR Reporter

FLIR Reporter software - powerful yet easy-to-use tool to generate comprehensive and professional infrared inspection reports.



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