

ThermaCAM™ P640

Press release



FLIR Systems launches the world's first handheld infrared camera with 640 x 480 pixels uncooled microbolometer detector: ThermaCAM™ P640

Building on its unmatched expertise in infrared technology, FLIR Systems has introduced a new handheld infrared camera that gives professional thermographers a state-of-the-art instrument for predictive maintenance.

The ThermaCAM P640 is the first handheld infrared camera in the world featuring an uncooled 640 x 480 pixels array microbolometer detector. The crisp 640 x 480 pixels infrared images are fully calibrated for temperature measurement. Individual temperature values can be displayed for each of the more than 300,000 pixels. The camera measures temperatures between -40°C and +500°C. Optional temperature ranges up to +2,000 °C are available.

The 640 x 480 pixels detector provides a four-times higher resolution than a 320 x 240 pixels detector. The result is unrivalled quality infrared images. This offers the thermographer the possibility to see more details, use analysis tools with greater accuracy, and to make better and faster decisions. Thanks to these crisp infrared images more hot-spots will be detected, resulting in even more time and money savings.

The ThermaCAM P640's integrated digital camera delivers high quality visual images, with a resolution of 1280 x 1024 pixels. Just as for the infrared camera, optional lenses are available to match the field of view of the infrared lens. Infrared and visual images are stored simultaneously and automatically associated with each other for easy report generation.

A built-in video light allows shooting clear visual images even in the darkest environments. A laser pointer allows to associate the hot-spot in the infrared image with the real physical target in the field.

The ThermaCAM P640 is packed into a solid magnesium metal housing, protecting its vital inner core against shocks (25G) and vibration (2G). The ThermaCAM P640 is dust- and watersplash proof (IP 54 standard). The P640's weight is only 1.7 kg, battery included, making it ideal for go-anywhere use in tough on-site and field conditions.

Big and bright LCD screen integrated in an ergonomic infrared camera

Images – both infrared and visual – are viewed either through the ThermaCAM P640's viewfinder or on the super-size, foldable 5.6" color LCD. This bright, large LCD, allows to show images to others directly in the field. The LCD position can be adjusted for optimum viewing. It can be entirely folded against the camera when the viewfinder is being used.

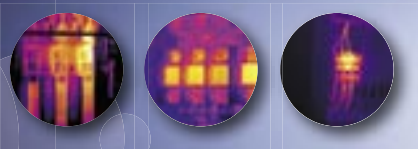
The position of the tiltable viewfinder, with OLED technology, can be adjusted to the thermographer's needs. It is ideal for outdoor use or when the LCD display is not being used.

A turnable multi-angle handle with integrated joystick and control buttons keeps all vital functions at the operator's fingertips in every situation. Combined with the tiltable viewfinder and the turnable LCD screen, it makes the ThermaCAM P640 the most ergonomic and flexible infrared camera on the market today.

Unique and time-saving features

The FLIR Systems ThermaCAM P640 camera is equipped with many smart and time-saving features. Automatic cold or hot spot detection, Picture-on-Picture (POP) technology, which allows comparing a saved image to an object scanned in real-time directly on the screen, 8x digital zooming as well as panning (select which part of image to zoom) functions. The operator can set a maximum temperature in the camera. If the P640 is pointed to an object and this temperature is exceeded, the camera will produce an audible and/or visible alarm. Movable spots, line profiling, calculating temperature differences between measurement points directly in the field, isotherms, ... It all is standard included in the ThermaCAM P640.

The operator can choose between automatic or manual focus adjustments, as demanded by FLIR System's professional customers. Manual focusing is done by turning the lens just as with a conventional camera.



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The ThermaCAM P640 runs more than 3 hours with a single Li-Ion battery. The rechargeable batteries can be charged in the camera or with the help of a 2-bay battery charging system. A 12V charging cable for vehicles, to charge the battery on the way to the next job, is optionally available.

Interfaces and storage

Extensive connectivity features include video output, USB, IrDA and FireWire outputs. This allows for powerful information exchange between the camera and a PC. Video streaming of non radiometric MPEG or radiometric RAW files is optionally available.

Infrared and corresponding visual images are stored in JPEG format on removable SD-cards. For later documentation and analysis, stored images can be accompanied by up to 30 seconds of voice-annotations per image or by freely definable text annotations.

Just as with all its infrared cameras, FLIR Systems supports the ThermaCAM P640 with a wide range of accessories and optics. Telephoto and wide-angle lenses are available.

ThermaCAM P640 and ThermaCAM Reporter™ 8 – the efficient solution

Next to its powerful on-site and field measurement capabilities the ThermaCAM P640 used together with FLIR Systems new ThermaCAM Reporter 8 software maximizes the total inspection efficiency. Collect infrared images, including temperature data, text and voice comments and digital images in the field. Transfer the whole inspection result to your PC and ThermaCAM Reporter can automatically create professionally looking comprehensive reports including all data in a minimum of time.

ThermaCAM B640 and ThermaCAM SC640: for building inspectors and R&D

Apart from the ThermaCAM P640, FLIR Systems also introduces the ThermaCAM B640. This infrared camera also features a 640 x 480 pixels detector delivering crisp infrared images on which the smallest of temperature differences can be seen. It measures temperatures in a range from -40°C up to +120°C. The B640 incorporated useful features for the building inspector such as the FLIR Systems patented Automatic Dewpoint Identification Alarm.

For the R&D user, that prefers a portable system, FLIR Systems brings the ThermaCAM SC640 to the market. Delivering the same high resolution infrared images as the ThermaCAM P640, the SC640 incorporates features such as real-time radiometric image storage. The ThermaCAM SC640 can be completed with ThermaCAM Researcher™ software for detailed static or real-time infrared image analysis.

Setting a new standard

“The new ThermaCAM P640 is an entirely new camera, with a groundbreaking resolution, with great features and with an innovative product concept.” says Arne Almerfors, FLIR Systems’ President Thermography Division. “FLIR Systems is proud to present the ThermaCAM P640. Again FLIR Systems is the first to present an infrared camera with revolutionary new features. With its extremely high image quality, ergonomic design and extremely high flexibility, the ThermaCAM P640 will become the infrared camera for professional users against which all other will be compared. After breaking open the market for infrared thermography with the InfraCAM, introduced earlier this year, FLIR Systems is today setting new standards for high-end infrared cameras.”

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