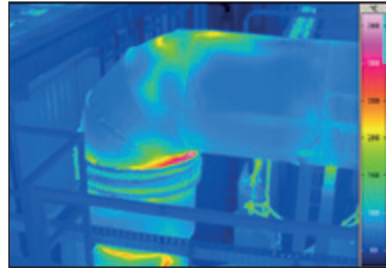


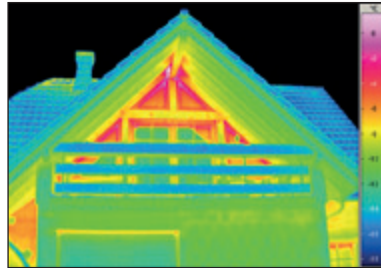
## InfraTec mobileIR E9

Mobile Thermographic Camera for Professional Inspections

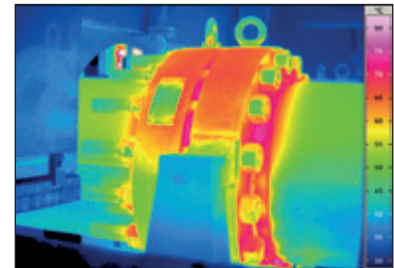
Inspection of facilities



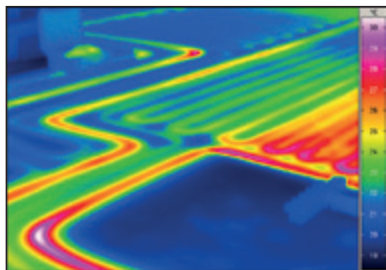
Building inspection



Predictive maintenance

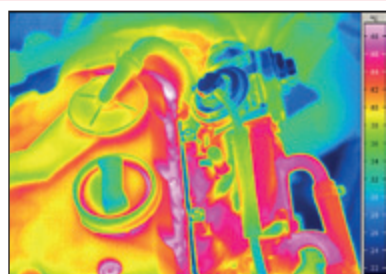


Detection of wirings and pipes

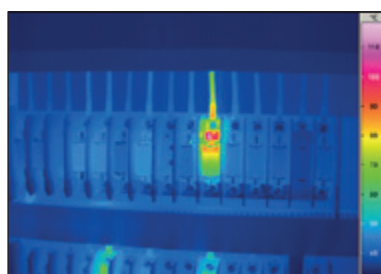


**384 x 288**  
**Infrared pixels**

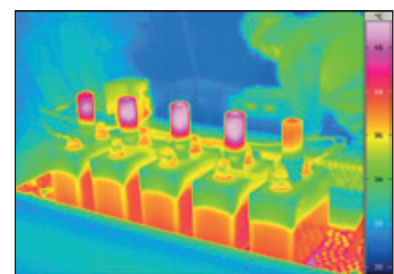
Exercise test



Inspection of electrical systems



Quality assurance



### Features

- Uncooled detector with (384 x 288) IR-pixels
- Light intensive digital colour TFT display
- Robust housing (IP 54) for heavy-duty use
- Wide standard temperature measurement range
- Period of application up to 3 h
- Image storage onto SD card
- Built-in digital colour video camera with LED video light
- Voice and text annotation
- Comfortable operating software with multiple measurement functions
- Intuitive operation, various automatic functions
- Image merging, direct overlay of infrared and real image
- Internal storage of infrared image sequences

# InfraTec mobileIR E9

## Mobile Thermographic Camera for Professional Inspections

### Technical specifications

Spectral range	(8 ... 14) $\mu\text{m}$
Detector, image format (IR pixel)	uncooled FPA microbolometer, (384 x 288)
Built-in video camera	digital CMOS, (1,600 x 1,200) pixels, colour depth 24 Bit
Temperature measurement range	(-20 ... 250) $^{\circ}\text{C}$ , optionally up to 1,500 $^{\circ}\text{C}$
Measurement accuracy	$\pm 2\text{ K}$ (0 ... 100) $^{\circ}\text{C}$ ; $\pm 2\%$ (< 0 resp. > 100) $^{\circ}\text{C}$
Temperature resolution at 30 $^{\circ}\text{C}$	better than 0.06 K
IR image frequency	50/60 Hz
Focus	manual
Image merging	thermogram and real image
Voice annotation	storage of voice annotations (60 s per image)
Image storage	integrated flash memory, 4 GB SD card
Built-in laser pointer	Laser class 2, < 1 mW / 635 nm (red)
Interfaces	USB 2.0, PAL/NTSC
LCD display	Light intensive high resolution 3.6" TFT colour display
Power supply	AA batteries (rechargeable on-board), power supply 110/220 VAC
Operating temperature range, encapsulation	(-10 ... 50) $^{\circ}\text{C}$ , IP54
Dimensions	(112 x 182 x 252) mm
Weight (incl. rechargeable battery)	980 g

Design and specifications will constantly be improved and thus be subject to technical progress.

InfraTec mobileIR E9 is an efficient and budget-friendly thermographic camera for mobile use. This very robust and handy camera system convinces with its intuitively learnable single hand operation. A light intensive digital TFT colour display provides thermal images in high quality and gives an excellent overview on the current measurement situation as well as the device's operating condition. Exchangeable and quickly rechargeable batteries ensure a long period of application. With a resolution of (384 x 288) IR pixels, detailed measurements can be carried out in a fast and efficient way. The optional merging of thermal and real image as well as the application of a laser pointer facilitates accurate capturing of objects. After data has been transferred automatically via USB interface onto the computer, evaluation software IRBIS® 3 ensures a comfortable analysis of measurement data and the complete generation of test reports through an internal report generator. The wide temperature range of (-20 ... 250)  $^{\circ}\text{C}$ , the extensive equipment and the user-friendly operation make the InfraTec mobileIR E9 a trustful companion for multiple thermographic measurements in various fields of applications – starting from preventive maintenance via process optimisation and quality assurance through to building thermography and detection of leakages.

### Lenses

Lens	Focal distance	FOV( $^{\circ}$ )	FOV @ d = 1 m	IFOV (mrad)	Min. focus (m)
Wide angle lens	13 mm	(41 x 31) $^{\circ}$	(74 x 55) cm	1.9 mrad	ca. (0.2 ... ~) m
Standard lens	25 mm	(22 x 16) $^{\circ}$	(38 x 29) cm	1.0 mrad	ca. (0.3 ... ~) m
Telephoto lens	42 mm	(13 x 10) $^{\circ}$	(23 x 17) cm	0.6 mrad	ca. (1 ... ~) m
Telephoto lens	70 mm	(8 x 6) $^{\circ}$	(14 x 10) cm	0.4 mrad	ca. (1.5 ... ~) m