DIAS Infrared Systems

ThermoPro™ TP8

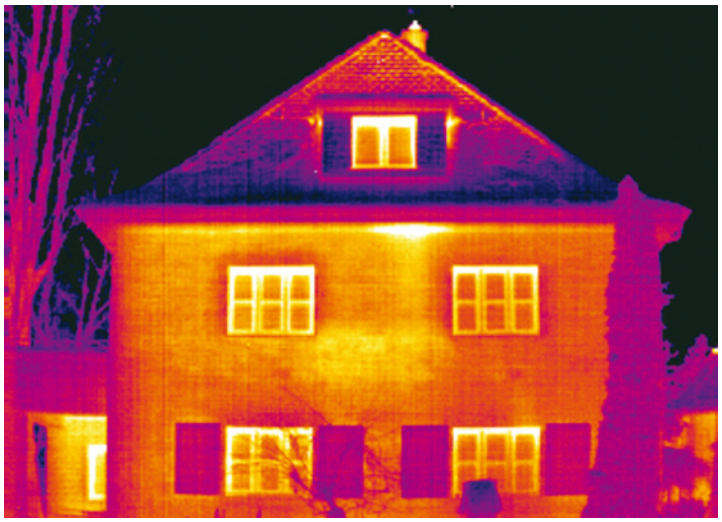
Professional High-End Infrared Camera

- **Microbolometer array with 384 × 288 pixels**
- **Measuring range from –20 °C to 800 °C, optionally up to 2000 °C**
- **3.5" touch-screen display and 0.6" OLED viewfinder**
- **Spot temperature analysis, isotherm, histogram and line analysis**
- **Auto-hot-spot and auto-alarm function**
- **Internal flash memory and 2 GB SD-Card**
- **Visual camera and laser pointer**
- **Internal microphone and bluetooth headset**
- **Rechargeable Li-ion batteries for mobile use**
- **USB 2.0 interface and video output**
- **A lot of accessories included in delivery**
- **Windows® software PYROSOFT included**
- **No U.S. export license required**

Applications

The portable ThermoPro™ TP8 is suitable for all thermographic applications requiring a high level of mobility and flexibility and also a high thermal resolution. Typical applications are:

- Preventative maintenance
- Electrical inspections and attendance
- Technical diagnostics
- Building thermography
- Research and development
- Process enhancement and control
- Human and veterinary medicine



Software

Live images of the thermal imaging camera as well as on SD card stored thermal images, visual images of the thermographic camera and video content can be transferred via the USB interface to PC. The included PC software PYROSOFT compact allows the inclusion of the live image and the analysis of transferred infrared images:

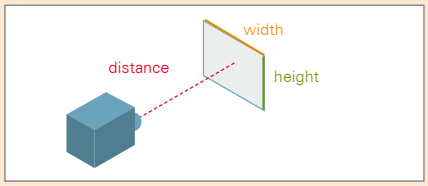
- Display with different color schemes and scales
- Definition of „regions of interest“ (points and line)
- Integrated reporting function for reporting in Microsoft® Word format

Enhanced functionality offers the optional software PYROSOFT Professional.

ThermoPro™ TP8

Technical data and further information

Spectral range	8 µm to 14 µm
Sensor (IR)	Uncooled microbolometer array, 384 × 288 pixels
Temperature measurement range	–20 °C to 800 °C, optional to 2000 °C
Accuracy[1]	2 K (object temperature < 100 °C) or 2 % of reading
Noise equivalent temperature difference[1]	< 0.08 K (30 °C)
Focusing	Auto focus, manual focus
Opening angle and measuring field optics	Information: measurement field width in m × height in m



Measurement field distance in m	Standard 22° × 16°	Option 44° × 34°	Option 7.8° × 5.9°
0.2	0.078 × 0.056	0.162 × 0.122	-
2	0.78 × 0.56	1.62 × 1.22	0.273 × 0.206
20	7.8 × 5.6	16.2 × 12.2	2.73 × 2.06

Visual camera	Yes
Measurement frequency	50 Hz PAL, 60 Hz NTSC
Display, view-finder	3.5" VGA LCD, 0.6" OLED view-finder
Menu languages	German, English
Display mode	Thermal image, visual image, visual image fusioned with thermal image
Color scale	False colors or grey scale
Image analysis	Auto hot spot, auto alarm function, spot temperature (10 selectable points), 10 areas with min/max/average, isotherm, histogram, line profile
Measured value adjustment	Distance, ambient temperature, relative humidity
Emissivity	Adjustable from 0.01 to 1.0
Pilot light	Laser pointer, class 2
Interfaces	USB 2.0, video output (PAL, NTSC, VGA)
Image memory	Replaceable 2 GB SD card, internal flash memory
Voice recording	Internal microphone or bluetooth headset, recording time 60 s per file maximum
Camera operation	Touch screen, joystick and buttons, voice recognition, optional remote control
Software	PYROSOFT Compact for Windows®, optional PYROSOFT Professional
Operating temperature, storage temperature	–10 °C to 60 °C
Power supply	AC Adapter 110/220 V AC, 50/60 Hz
Battery	Replaceable Li-ion camcorder battery, over 2.5 h continuous operation
Housing	Degree of protection IP 54
Dimensions	186 mm (L) × 106 mm (W) × 83 mm (H) with standard optics
Weight	1.1 kg
Scope of delivery	Infrared camera, pencil, standard optics, 3.5" VGA LCD, 2 GB SD card and card reader, bluetooth headset, 2 Li-ion batteries, recharger, AC adapter, VGA cable, USB cable, RS232 cable, TV video cable, USB driver, PYROSOFT compact, user manual, carrying case and strap
Options	Remote control, tele lens, wide angle lens, extended temperature measurement range

[1] Specification for black body and ambient temperature 25 °C. Technical changes reserved. August 2010.

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