

**Laserliner®** Innovation in Tools

# Professional thermal imaging

Make the invisible visible!



**New expanded product range:**  
**Solves problems in a wide range of situations**



# Advanced temperature measurement

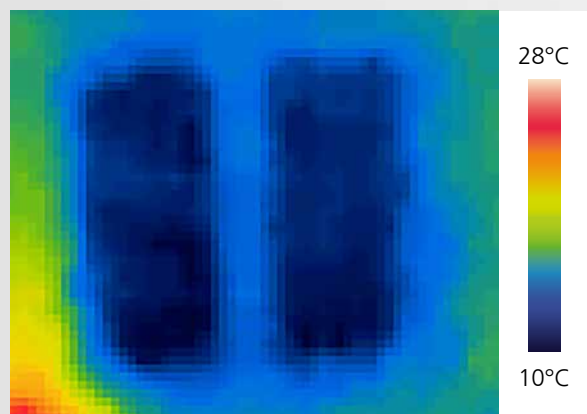
## Visual check in small areas

- Easy to use and compact design
- Optimum set-up for heating, ventilation and air conditioning systems
- Fire prevention by checking electrical connections, fuses etc.
- Fever screening or monitoring in livestock



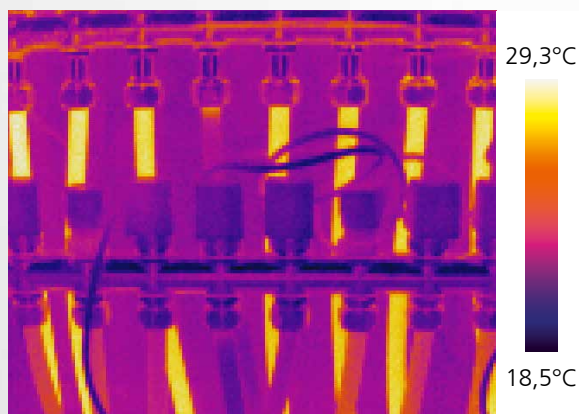
## Wider area evaluation

- Finds defects in insulation, e.g. in lofts or concealed areas
- Locate or trace defective pipes, e.g. in underfloor heating systems
- Locates faults in vehicles or other technical equipment
- Finds pests in walls, wood and timber



ThermoVisualizer Plus

Early detection of energy loss, condensation moisture and thermal bridges, e.g. windows or doors:  
Detects moisture in poorly ventilated rooms to avoid the formation of mildew/mould that could be harmful to health.



ThermoCamera Compact Pro

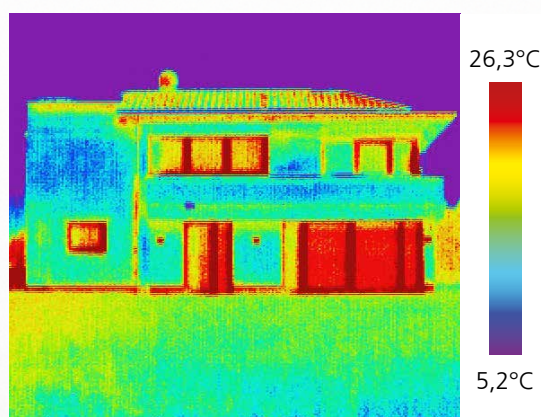
High resolution for optimum analysis: For targeted repairs and accurate checks on construction sites to facilitate professional workmanship. Leaks in the roof, faulty wiring or electrical installation no longer remain undiscovered.



## Thermal imaging analysis

### Precise analysis over great distances

- High resolution image for professional, versatile measurements
- Monitoring the drying of a building
- Identify faults in electrical or mechanical components – Increasing the safety and reliability of machinery and ovens
- Pinpoint defective solar cells



ThermoCamera-Vision XP

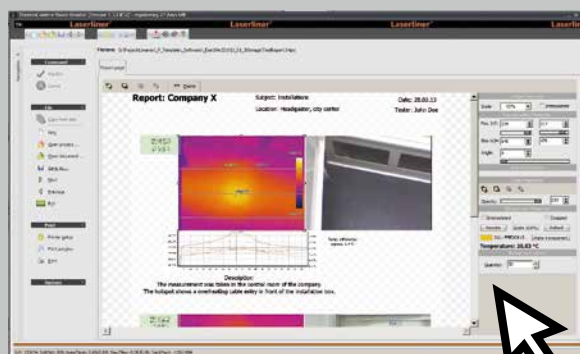
Records complete façades with minimal temperature differences: This makes it possible to locate moisture and mould problems in greater detail. Complete process lines can also be monitored during production.

## Quick\*/Reporting-Software



### Quick, simple analysis

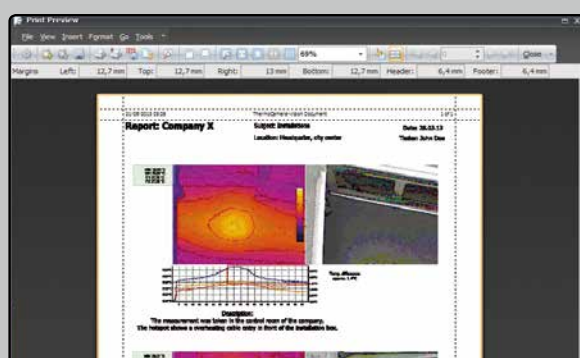
- Software for transferring the recorded data to your PC for further processing and documentation
- Create individual evaluation reports



Example showing the user interface

### Software functions

- Plotting of individual measurement points
- Analysis of horizontal and vertical temperature curves \*\*
- Use of the MIX imaging function with isothermal function \*\*\*
- Changing of the colour palette, e.g. from grayscale into colour
- Changing the temperature range, e.g. from level and span



Example of an evaluation report

### Online-update-function \*

Free updates to the QuickReporting-Software are available to registered users.

- \* Not available for ThermoXplorer Pro
- \*\* Not available for ThermoVisualizer Plus and ThermoCamera Compact Plus / Pro
- \*\*\* Not available for ThermoVisualizer Plus

ThermoVisualizer Plus



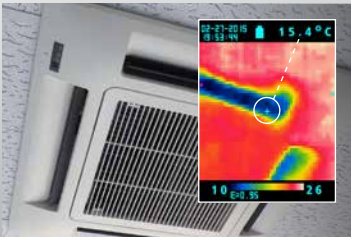
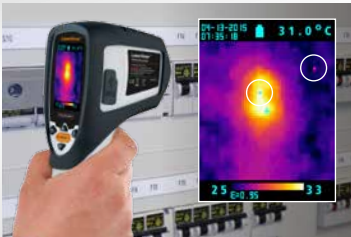
Measuring device for the visualisation of temperature curves in construction, electrical engineering, industrial applications and person diagnosis



Standard colour pallets



Easy-to-read measured data



- Central measuring point
- Hot spot marking
- Cold spot marking

DISPLAY 2,8" colour TFT

REC bmp micro USB IP 54 4 x AA

TECHNICAL DATA

IR SENSOR	Thermal array sensor, 9 Hz, 8-14 µm
IR OPTICS	High-quality infrared lens
FOV	40° x 40°
Focus	Standard 0.5 - 5 m
THERMAL SENSITIVITY	NETD 0.1°C @ +30°C
MEASURING RANGE / ACCURACY	-20°C...250°C / ± 2°C or ± 2% of measured value
IMAGE MODES	Infrared
FORMAT	BMP format, up to 60,000 images / GB
MEMORY	Micro-SD card up to 8 GB
PORTS	Mini USB, micro-SD
OTHER FEATURES	Choice of 4 languages

ThermoVisualizer Plus

incl. ThermoVisualizer with rubberised casing, QuickReporting-Software, USB cable, 4 GB micro-SD card, batteries, carrying case



ARTICLE	ORDER NO.	EAN-CODE	PU
ThermoVisualizer Plus	082.073A	4 021563 692712	1



# ThermoCamera Compact Plus

# ThermoCamera Compact Pro



Thermal imaging camera for reliable evaluation and analysis of temperature conditions in construction, electrical engineering and mechanical engineering

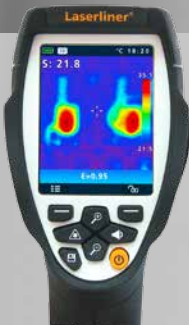


Infrared sensor with  
**focusable lens**

ThermoCamera  
Compact Plus  
**IR-SENSOR**  
80 x 80 pixel

or

ThermoCamera  
Compact Pro  
**IR-SENSOR**  
120 x 160 pixel



### Standard colour pallets



Iron



Rainbow

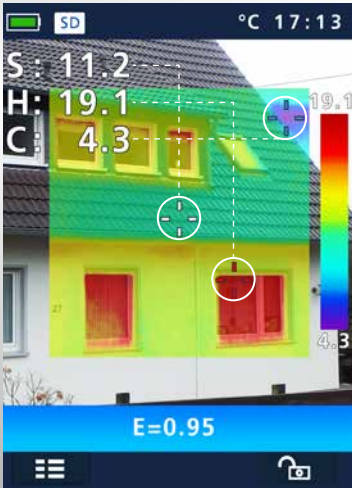


Grey



Grey Inv.

### MIX image for optimum and targeted measurement analysis



- Central measuring point
- Max temperature
- Min temperature

#### DISPLAY

2,8" colour TFT

ZOOM 32x

#### CAMERA

JPEG/MPEG 1.280 x 960 pixel



REC jpg/mp4



USB



IP 54



TECHNICAL DATA	ThermoCamera Compact Plus	ThermoCamera Compact Pro
IR SENSOR	Uncooled microbolometer, 25 Hz, 8-14 µm	
Resolution	80 x 80 pixel	120 x 160 pixel
IR OPTICS	Germanium infrared lens	
FOV	17° x 17°	19° x 25°
IFOV	3.78 mrad	2.78 mrad
Focus	Adjustable 0.5 - 10 m	Adjustable 0.5 - 30 m
THERMAL SENSITIVITY	NETD 0.1°C @ +30°C	
MEASURING RANGE / ACCURACY	-20°C...150°C, 0°C...350°C / ± 2°C or ± 2% of measured value	
IMAGE MODES	Infrared, digital, MIX image	
FORMAT	JPEG format, MPEG-4 standard (30 Hz), max. 1,280 x 960 pixels	
MEMORY	Micro-SD card up to 16 GB	
PORTS	Mini USB, micro-SD, video (HDMI), audio, microphone/headphone	
OTHER FEATURES	Choice of 7 languages	

### ThermoCamera Compact Plus

incl. ThermoCamera Compact, QuickReporting-Software, Li-Ion battery pack with power supply/ battery charger and international adapter, USB cable, video cable, headphone, 8 GB micro-SD card with adapter, 1/4" tripod connection, carrying case



ARTICLE	ORDER NO.	EAN-CODE	PU
ThermoCamera Compact Plus	082.083A	4 021563 692729	1

### ThermoCamera Compact Pro

incl. ThermoCamera Compact Pro, Accessories: same as for ThermoCamera Compact Plus

ARTICLE	ORDER NO.	EAN-CODE	PU
ThermoCamera Compact Pro	082.084A	4 021563 694396	1



ThermoXplorer Pro

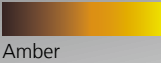
Sturdy thermal imaging camera for professional applications in construction and the electrical industry



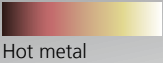
Infrared sensor with focusable lens

IR-SENSOR  
160 x 120 pixel

11 standard colour palettes with high contrast options, e.g.



Amber



Hot metal

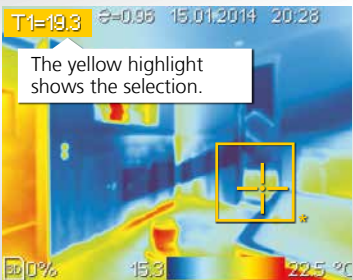


Rainbow - Grn/Red



High contrast - Vio/Wht

Numerous measurement functions



- 4 measuring points
- 2 measuring lines (horizontal/vertical with temperature curve)
- 3 measuring areas (with min/max/avg calculation)
- Max temperature
- Min temperature
- Isothermal function
- Temperature alarm

DISPLAY

3,5" colour TFT

ZOOM  
2x

CAMERA

JPEG  
640 x 480 pixel



REC  
jpg



USB

IP 54



TECHNICAL DATA

IR SENSOR Uncooled microbolometer, 50 Hz, 8-14 µm

Resolution 160 x 120 pixel

IR OPTICS Germanium infrared lens

FOV 25° x 19°

IFOV 2.73 mrad

Focus Manual 0.4 m min.

THERMAL SENSITIVITY NETD 0.1°C @ +30°C

MEASURING RANGE / ACCURACY -20°C...350°C / ± 2°C or ± 2% of measured value

IMAGE MODES Infrared, digital

FORMAT JPEG format, max. 640 x 480 pixels

MEMORY Micro-SD card up to 16 GB

PORTS Mini USB, micro-SD, video

OTHER FEATURES Choice of 8 languages, image capture with voice recording

ThermoXplorer Pro

incl. ThermoXplorer Pro, Reporting-Software, 2 Li-Ion battery packs with external charging station and international adapter, USB cable, video cable, 8 GB micro-SD card with adapter, 1/4" tripod connection, visor, complete in the Sortimo® L-BOXX® 136



ARTICLE	ORDER NO.	EAN-CODE	PU
ThermoXplorer Pro	082.081L	4 021563 688524	1



# ThermoCamera-Vision

## ThermoCamera-Vision XP



High resolution thermal camera for professional applications in construction, photovoltaics, electrical engineering and mechanical engineering



Infrared sensor with **focusable and interchangeable** lens

ThermoCamera-Vision  
IR-SENSOR  
160 x 120 pixel

OR

ThermoCamera-Vision XP  
IR-SENSOR  
384 x 288 pixel

**Touchscreen**

**Hot key**

for optimum measuring range setting



**CustomApps\***

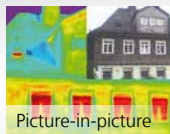
- Configuration-based templates



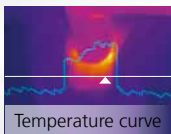
**CustomColorPalettes\***

- Create your own colour palettes

**Numerous measurement functions**



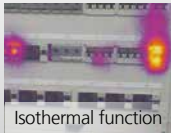
Picture-in-picture



Temperature curve



MIX image



Isothermal function

- 3 measuring points
- 2 measuring lines (horizontal/vertical with temperature curve)
- 3 measuring areas (with min/max/avg calculation)
- Max temperature
- Min temperature
- Isothermal function
- Temperature alarm

**DISPLAY**



TOUCH  
3.5" TFT

**ZOOM**

2x



**CAMERA**

JPEG / MPEG  
640 x 480 pixel



REC  
jpg/mp4



TECHNICAL DATA	Thermo Camera-Vision	Thermo Camera-Vision XP
<b>IR SENSOR</b>	Uncooled microbolometer, 50 Hz, 8-14 µm	
Resolution	<b>160 x 120 pixel</b>	<b>384 x 288 pixel</b>
<b>IR OPTICS</b>	Germanium interchangeable lens	
FOV	<b>33° x 24°</b>	<b>24.6° x 18.6°</b>
IFOV	<b>3.33 mrad</b>	<b>1.14 mrad</b>
Focus	<b>Manual 0.3 m min.</b>	
<b>THERMAL SENSITIVITY</b>	NETD 0.08°C @ +30°C	NETD 0.06°C @ +30°C
<b>MEASURING RANGE / ACCURACY</b>	-20°C...150°C, 0°C...400°C / ± 2°C or ± 2% of measured value	
<b>IMAGE MODES</b>	Infrared, digital, picture-in-picture, MIX image	
<b>FORMAT</b>	JPEG format, MPEG-4 standard (30 Hz), max. 640 x 480 pixels	
<b>MEMORY</b>	Micro-SD card up to 16 GB	
<b>PORTS</b>	Mini USB, micro-SD, video, audio, microphone/headphone	
<b>OTHER FEATURES</b>	Choice of 7 languages, image and video capture with voice recording	

### ThermoCamera-Vision

incl. ThermoCamera-Vision, QuickReporting-Software, 2 Li-Ion battery packs with external charging station, power supply/battery charger incl. international adapter, USB cable, video/audio cable, microphone/headphone, 4 GB micro-SD card with adapter, 1/4" tripod connection, protective case with visor, professional shockproof carrying case



ARTICLE	ORDER NO.	EAN-CODE	PU
ThermoCamera-Vision	082.085A	4 021563 684458	1

### ThermoCamera-Vision XP

incl. ThermoCamera-Vision XP, Accessories: same as for ThermoCamera-Vision

ARTICLE	ORDER NO.	EAN-CODE	PU
ThermoCamera-Vision XP	082.088A	4 021563 688210	1

## Learn how thermography works!

Using and practise

### Thermographics training

For achieving best analytical results with the thermographic cameras, Laserliner offers professional, individualised product training:

- A theoretical understanding of the camera's functions and possible applications
- Numerous practical exercises for your everyday work

Also recommended is a further training for using with the software:

- Software installation and measured data transfer to your PC
- Analysis of previously recorded data using the software

Of course we would be happy to accommodate your individual requirements, so that you are well equipped to use the Laserliner professionally or privately.



### Optional accessory **FixPod 155 cm**

- 3-way tripod head, crank lift 30 cm
- Telescopic tripod legs
- Rubber-steel tips for use on different surfaces

ARTICLE	ORDER NO.	EAN-CODE	PU
FixPod 155 cm	090.132A	4 021563 678990	6



Dealer

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