C.A 1882
Thermal Camera

DiaCAm

IP 54

DiaCAm Camera:
Affordable Thermographic Diagnostics

Compact and lightweight:
ergonomics designed for effortless handling

Particularly easy to use

Excellent thermal sensitivity: 0.08 °C

Wide dynamic range for measurement (-20 °C to +250 °C)

Measure up

Thermal Camera

BUILDING DIAGNOSTICS

To improve comfort or optimize a building's energy performance, thermal cameras are **powerful tools capable of detecting faults and irregularities** related to thermal bridges, thermal insulation, airtightness or problems involving water.
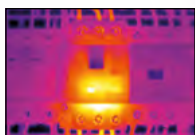
- Detection of insulation faults, air leaks, thermal bridges and excessive humidity.
- Detection of leaks, blockages and embedded ducts.
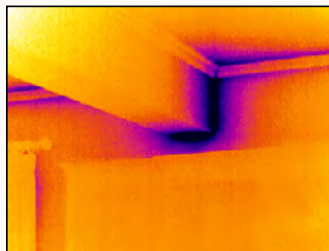
Industrial maintenance and repair

This thermal camera is ideal for electrical maintenance, highlighting any electrical equipment malfunctions and particularly abnormal overheating.

- overloads
- unbalances
- Faulty electrical contacts

Mechanical and electrical applications

To detect anomalies or malfunctions on internal components in order to prevent motor overheating, the **DiaCAm** is simple, effective tools for quick diagnostics.
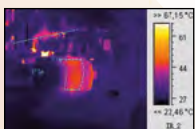
The **DiaCAm** can be used to check and test mechanical parts and assemblies: areas of wear, incorrect shaft alignment, lubrication problems, etc.

Extra advantage

With its wide-angle lens, the C.A 1882 is ideal for detecting energy losses when inspecting buildings.

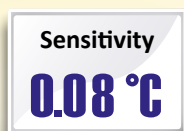It is also equipped with the MixVision function which allows you to link a thermogram to a real image.

This function enables you to define how much of the infrared image is merged with the real image, using a scale from 0 to 100 %.
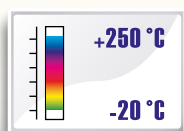
DiaCAm

Advantages

Thermal sensitivity

Sensitivity
0.08 °C

The greater the thermal sensitivity, the easier it is to view small temperature differences, providing users with more detailed images. This specification is crucial, and particularly for building thermography, where some faults cause small temperature differences (e.g. insulation faults).
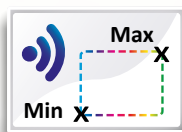
Dynamic range for measurement

+250 °C
-20 °C

The **DiaCAm** offers a wide measurement range. The dynamic ranges for the targets may vary from -20 °C to +250 °C.

Recording

1000 x **SD**
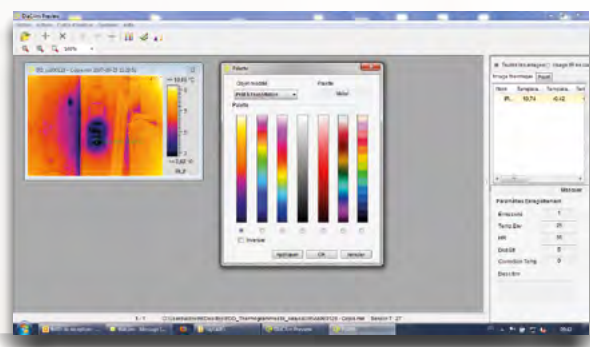
Up to 1,000 thermal images on SD cards as a standard feature.

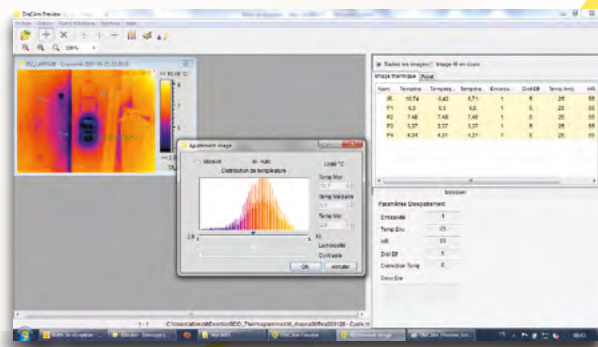### Integrated functions

Max **x**
Min **x**

A wide range of integrated tools, manual cursors, automatic detection of hot or cold points, alarms.

SOFTWARE FOR ANALYSIS AND CREATION OF CUSTOMIZED REPORTS

The **RayCAm Report** software is ideal for analysing infrared images. Its easy-to-use interface means quick access for everyone. In addition, all the analysis functions are already integrated in the toolbar.

- Cursors (automatic display of the temperature at the chosen point).

- Thermal profile (automatic display of Min/Max/Avg on the line).

- A square or circle for analysis by zone (ideal for comparing Min/Max/Avg between terminals, for example).

- Charts of results automatically and very quickly show all the information/analytical tools on the thermogram.

- "Max" function automatically indicates the hot point in the thermogram or in a predefined area for analysis.

- Polygons and polylines for more detailed analysis of certain areas in the thermogram.

C.A 1882

Detector specifications		
Detector	160 x 120	
Type	UFPA microbolometer, 8-14 μm	
Frequency	50 Hz*	
Sensitivity (N.E.T.D)	0.08 °C @ 30 °C	

Temperature measurement		
Temperature range	-20 °C to +250 °C	
Accuracy	±2 °C or ±2 % of reading	

Image performance		
Thermal image		
Field of view	10° x 8°	12° x 10°	38° x 28°
Spatial resolution	2.2 mrad		4.4 mrad
Min. focal distance	10 cm		
Focusing	Manual		
Real image	Yes		
"MixVision" mode	Merge function with adjustment from 0 to 100 % of the level of the thermal image overlay in the real image		
Image size	640 x 480 pixels		

Functions		
Emissivity correction	Yes	
Parameter settings	Emissivity, environmental temperature, distance, relative humidity	
Measurement tools	1 manual cursor + automatic Min/Max detection on adjustable area	
Laser pointer	Yes	
Memory	1,000 thermal images as standard	
Type of storage	Removable 2 GB SD card (as standard), up to 16 GB	
Screen	3 inches, multi-directional	

General specifications		
Battery	Lithium-Ion rechargeable battery / Battery life: 3 hours	
Battery recharging	Recharging via external charger	
Protection	IP54	

* 9 Hz outside the European Union

References to order

C.A 1882 IR thermal camera P01651215
C.A 1882 9 Hz IR thermal camera P01651215E

Accessories

Battery P01296045
Battery charger P01296046
Bag P01298075
Docking station...P01651528
Mains power supply P01651527
Sun-shade..P01651532
In-vehicle charger adapter HX0061
C.A 1875 training bench P01651620

Standard state at delivery:

C.A 1882: delivered in plain cardboard box with battery charger, docking station, battery, 2 GB mini-SD card, SD card reader , video cable, RayCam Report software on CD-ROM, operating manuals and measurement reports.

For assistance and ordering

FRANCE
Chauvin Arnoux
190, rue Championnet
75876 PARIS Cedex 18
Tel: +33 1 44 85 44 38
Fax: +33 1 46 27 95 59
export@chauvin-arnoux.fr
www.chauvin-arnoux.com

UNITED KINGDOM
Chauvin Arnoux Ltd
Unit 1 Nelson Ct, Flagship Sq, Shaw Cross Business Pk
Dewsbury, West Yorkshire - WF12 7TH
Tel: +44 1924 460 494
Fax: +44 1924 455 328
info@chauvin-arnoux.co.uk
www.chauvin-arnoux.com

MIDDLE EAST
Chauvin Arnoux Middle East
P.O. BOX 60-154
1241 2020 JAL EL DIB - LEBANON
Tel: +961 1 890 425
Fax: +961 1 890 424
camie@chauvin-arnoux.com
www.chauvin-arnoux.com

CHAUVIN ARNOUX
GROUP