

# DiaCAM<sup>2</sup>

A foolproof design



**3** seconds  
only to start up

**13** hours of continuous operation!

- Focus-free with 20°x20° field of view
- Vocal annotations to record your comments directly on the image
- Connection to current clamps and multimeters: all the necessary measurements simultaneously

Bluetooth

IP  
54

USB



Measure up



# Exceptional ergonomics for simplified use

**Wide 2.8-inch screen**  
More comfortable viewing thanks to automatic (or manual) adaptation of display brightness to suit your environment



**Contextual help** for simple, error-free use

**Direct access** to the functions with just one hand

**Specially designed** for excellent handling and simplified use



**Balance guaranteed:** thanks to the tripod insert located under the camera or positioned on a table, the camera does not move.



**Protective flap :** comfortable to use, no losses, no scratches

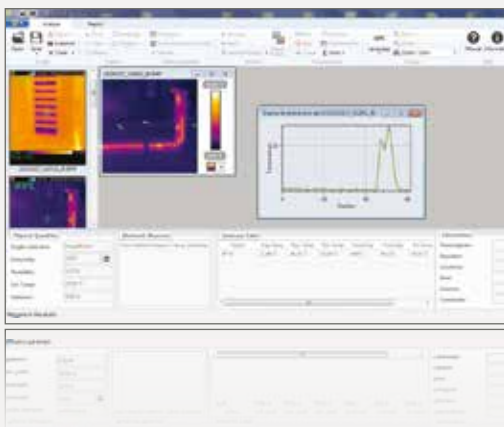
**20°x20° field of view** with focus-free imaging. The image is automatically in focus whatever the distance to the object targeted



**Recovery** of the necessary measurements (current, etc.) via **Bluetooth** simultaneously

**Even more user-friendly and simple to use thanks to:**

- the exceptional 13-hour battery life
- an emissivity table which can be added to as required
- the possibility of renaming images and thermograms by site
- recording and storage of the configurations according to the application (building, electrical cabinet, etc.)



## CamReport, the software for analysing

**This comprehensive software offers all the necessary functions for reliable analysis of the measurement results:**

- Cursors (automatic display of the temperature at the point selected)
- Thermal profile (automatic display of the Min/Max/Avg temperatures on the line)
- A square or circle for area analysis

## Applications

The C.A 1950 makes it very simple to perform your thermal inspections for your energy audit and ensures trouble-free industrial, electrical or mechanical maintenance.

### For buildings

The Diacam2 C.A 1950 is a powerful tool for analysing new or old buildings. This thermal camera enables you to detect faults and anomalies such as:

- thermal bridges
- insulation faults on the exterior of a building
- draught-proofing
- presence of excessive humidity

The C.A 1950 can also be used to search for water leaks and detect embedded or blocked pipes.



### For industrial maintenance

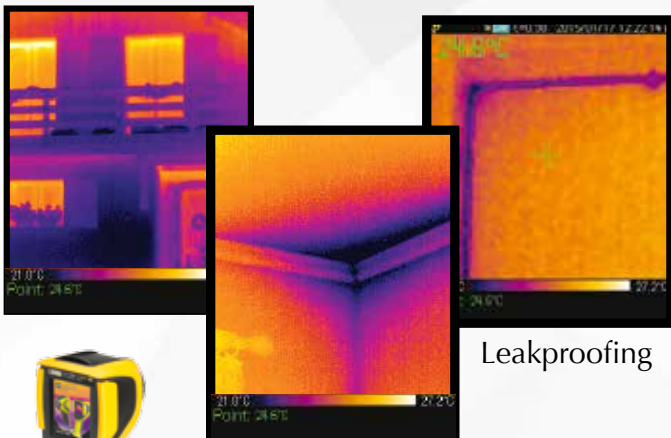
For electrical maintenance, the C.A 1950 can detect electrical equipment malfunctions, particularly abnormal heating, before a fault occurs, thus avoiding the considerable cost of halting production or carrying out repairs:

- Faulty electrical contacts
- Unbalance
- Incorrect sizing

For mechanical maintenance, the C.A 1950 is ideal, offering quick diagnostics thanks to:

- detection of anomalies or malfunctions on internal components to prevent motor overheating
- verification and inspections on the parts and mechanical assemblies such as: wear points, poor shaft alignment, lubrication problems, adjustment errors.

Insulation



Thermal bridge

Leakproofing

## thermograms

- ➔ Results tables quickly and automatically display all the information/analysis tools for the thermogram
- ➔ Polygons and polylines to analyse certain areas in the thermogram more closely
- ➔ Standard emissivity table which can be added to by users



**Report creation is automatic**, using the various templates available. Reports can be exported in Word or pdf format. This makes it simpler to print them out and/or archive them.



## DETECTOR SPECIFICATIONS

|                       |                               |
|-----------------------|-------------------------------|
| Detector              | 80 x 80                       |
| Type                  | UFPA microbolometer, 8 ~14 µm |
| Frequency             | 9 Hz                          |
| Sensitivity (N.E.T.D) | 100 mK@30°C (0.1°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             | 20° x 20°  |
| IFOV (spatial resolution) | 4.4 mrad   |
| Focus                     | Fixed  |
| Minimum focal distance    | 40 cm  |
| Real image                | Yes (320 x 240 pixels)   |
| Display mode              | Thermal image, real image with automatic parallax compensation. Merging of both images possible with PC software |

## FUNCTIONS FOR ANALYSIS

|                        |   |
|------------------------|---|
| Measurement tools      | 1 manual cursor + 1 automatic detection + Min-Max on adjustable area + temperature profile + Isotherm |
| Parameter settings     | Emissivity, environmental temperature, distance, relative humidity                                    |
| Vocal comments         | Yes via Bluetooth (earphones provided)  |
| Connectivity           | F407 and F607 clamps, MTX 3292 and MTX 3293 multimeters   |
| Data storage           | On 2 GB micro SD card (approx. 4,000 images)  |
| Removable, up to 32 GB | .bmp (thermal and real images recorded simultaneously)  |

## PRESENTATION OF IMAGE

|                   |   |
|-------------------|---|
| Adjustment        | Automatic or manual adjustment of palette min-max |
| Freezing of image | Animated or fixed image                           |
| Image display     | Multi-palette                                     |
| Screen            | 2.8 inches  |

## POWER SUPPLY

|            |   |
|------------|---|
| Type       | NiMH rechargeable batteries with low self-discharge |
| Recharging | External (charger provided)                         |

## ENVIRONMENTAL SPECIFICATIONS

|                       |                                    |
|-----------------------|------------------------------------|
| Operating temperature | -15°C to 50°C (-4°F to 122°F)      |
| Storage temperature   | -40°C to 70°C (-40°F to 158°F)     |
| Humidity              | 10% to 95 %                        |
| Standards             | EN 61326-1: 2006 / EN 61010-1 Ed.2 |
| Fall resistance       | 2 metres on all surfaces           |
| Shock resistance      | 25 G                               |
| Vibration resistance  | 2 G                                |

## PHYSICAL SPECIFICATIONS

|                     |  |
|---------------------|--|
| Weight / Dimensions | 700 g with rechargeable batteries / 225x125x83   |
| Ingress protection  | IP 54  |
| Interfaces          | - USB link and Mass Storage function: the product is then recognized as a USB drive for easy transfer of the images<br>- Bluetooth for connectivity with earphones (vocal comments) and Chauvin Arnoux Metrix measuring instruments (F407, F607, MTX 3292, MTX 3293) |
| Tripod mounting     | Yes with ¼" insert on the camera   |

## GENERAL SPECIFICATIONS

|                          |  |
|--------------------------|--|
| Report creation software | Supplied as standard with automatic report generation in .pdf or .docx (Word) format / Compatible with W7 and W8, 32 and 64 Bits |
| Warranty                 | 2 years  |

### Standard state at delivery:

C.A 1950: delivered in hard case with 4 NiMH batteries and battery charger, 1 micro SD HD card, 1 USB cable, 1 set of Bluetooth earphones, CAMReport software on CD ROM, operating manuals.

### To order:

C.A 1950 DiaCam 2 thermal camera ..... P01651901  
Thermography training ..... Please contact us

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