

DiaCAM²

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

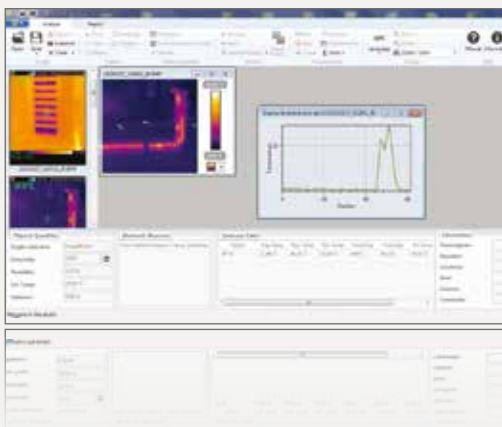
20°x20° field of view with focus-free imaging. The image is automatically in focus whatever the distance to the object targeted



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

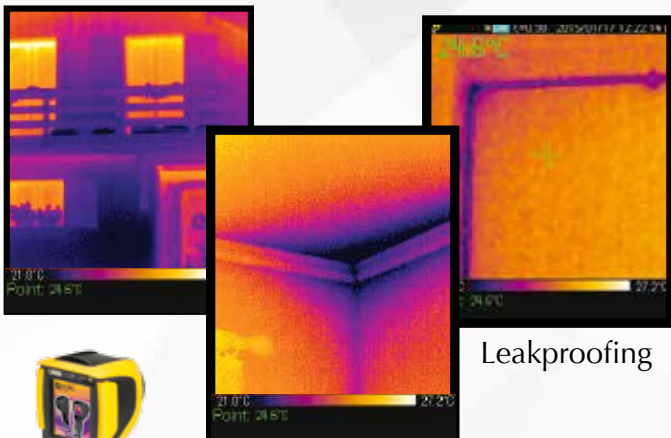
For electrical maintenance, the C.A 1950 can detect electrical equipment malfunctions, particularly abnormal heating, before a fault occurs, thus avoiding the considerable cost of halting production or carrying out repairs:

- 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



Leakproofing



Thermal bridge

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 - 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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