

# 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

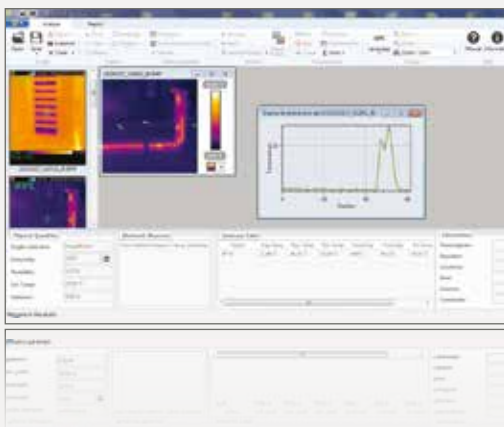
**20°x20° field of view** with focus-free imaging. The image is automatically in focus whatever the distance to the object targeted



**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

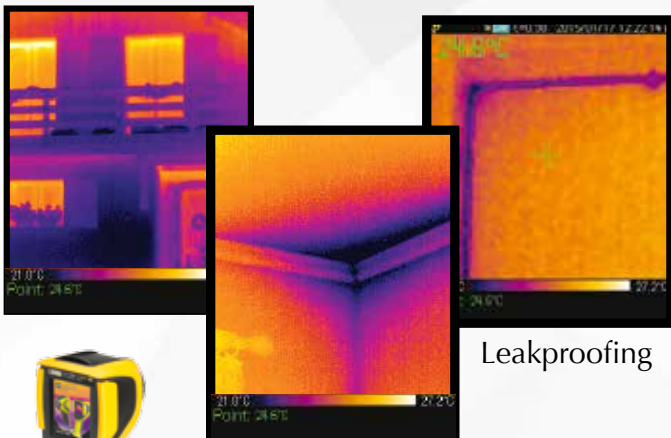
For electrical maintenance, the C.A 1950 can detect electrical equipment malfunctions, particularly abnormal heating, before a fault occurs, thus avoiding the considerable cost of halting production or carrying out repairs:

- 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



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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