



# C.A 1954 Thermal Camera DiaCAM<sup>2</sup>



## Concentrated advantages!

*Flexible use thanks to its focus-free capability with 38° x 28° field of view*

*Unprecedented! 9 hours' continuous use!*

*Recovery of data from other measuring instruments (current, humidity, dew point, etc.)*

*Practical: voice recordings, enhanceable integrated emissivity table, organization of folders by site*



Bluetooth



*Measure up*



# HIGH-PERFORMANCE & USER-FRIENDLY

# THE DiaCAM<sup>2</sup> C.A FAST & EFFECTIVE

Slide-down  
protective cover:  
comfortable to use,  
no losses, no scratches.

Laser pointer & focus-  
free with 28° x 38°  
field of view

The image is automatically  
clear whatever the distance  
to the target.

Voice recording  
with the Bluetooth  
earpiece delivered  
as standard

Integration of your voice comments  
(details, measuring conditions, etc.)  
directly on the image.



## Perfect balance

With the tripod insert under  
the camera or simply placed  
on a table, the camera does  
not move.



## Even simpler and more user-friendly thanks to:

- its exceptional 9-hour battery life
- an emissivity table which can be enhanced as required
- the possibility of renaming the images and thermograms by site
- recording and storage in memory of the configurations for each application (building, electrical cabinet, etc.)

## CAM Report<sup>®</sup>, the software for analysing the thermograms



**This comprehensive software offers all the functions you need for reliable analysis of your measurement results**

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

- Result tables quickly and automatically display all the information/tools for analysing the thermogram
- Polygons and polylines to analyse certain areas of the thermogram in greater detail
- Standard emissivity table which can be enhanced by the user

# 1954 CAMERA:

## Wide 2.8-inch screen with automatic or manual brightness control

For greater comfort and a longer battery life, the brightness of the display adapts to the ambient lighting conditions.

## Contextual help

For simple, error-free use.

## Quick start-up

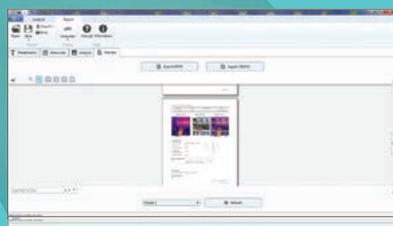
The camera is operational after just a few seconds.

## Excellent grip & handling

## Simultaneous recovery via Bluetooth

of measurements performed using:

- multimeters or clamp meters (current, etc.)
- thermometers, thermo-hygrometers (ambient temperature, humidity, dew point, etc.)



Reports are generated automatically on the basis of several available templates.

They can be exported in Word or PDF format. This makes them simpler to print and archive.

# APPLICATIONS

## Industrial maintenance

For electrical maintenance, before a fault occurs, thus avoiding the substantial cost of halting production or carrying out extra repairs, the C.A 1954 detects electrical equipment malfunctions, and particularly abnormal overheating:

- faulty electrical contacts
- unbalances
- undersized components

For mechanical maintenance, the C.A 1954 is ideal, offering quick diagnostics through:

- detection of anomalies or malfunctions on internal components to prevent engine overheating
- verification and inspection of mechanical parts and assemblies to check for wear points, incorrect shaft alignment, lubrication problems, adjustment errors, etc.

The **PLUS**: by linking the thermograms and currents, you can find out the load level at the time of measurement, thus **making it easier to identify the fault and assess how critical it is.**



## Buildings & thermal inspections

The Diacam2 C.A 1954 is a powerful tool for analysing buildings, whether new or old. This thermal camera can be used to detect faults and irregularities such as:

- thermal bridges
- insulation faults on the building envelope
- draught-proofing (seepage)
- presence of excessive humidity

The C.A 1954 can also be used to search for water leaks and locate embedded or blocked pipes.

The **PLUS**: when the isotherm is coupled with the dew-point value, you can detect areas at risk from mould.



## Energy efficiency

Infrared thermography can be used to detect thermal losses and thus deduce any pointlessly high energy consumption. These losses represent potential savings.

The **PLUS**: recording of the ambient indoor or outdoor temperature **via Bluetooth**

# TECHNICAL SPECIFICATIONS

## DETECTOR

<b>Dimensions</b>	160 x 120
<b>Type</b>	UFPA microbolometer, 8-14 µm
<b>Frequency</b>	9 Hz
<b>Sensitivity (N.E.T.D)</b>	80 mK @ 30 °C (0.08 °C @ 30 °C)

## TEMPERATURE MEASUREMENT

<b>Temperature range</b>	-20 °C to +250 °C
<b>Accuracy</b>	±2 °C or ±2 % of reading

## IMAGING PERFORMANCE

<b>Thermal image</b>	-20 °C to +250 °C
<b>Field of view</b>	38° x 28°
<b>IFOV (spatial resolution)</b>	4.1 mrad
<b>Focus</b>	Fixed
<b>Minimum focal distance</b>	30 cm
<b>Real image</b>	Yes (320 x 240 pixels)
<b>Display mode</b>	Thermal image, real image with automatic parallax compensation. Image merging available with PC software.

## ANALYTICAL FUNCTIONS

<b>Measuring tools</b>	1 manual cursor + 1 automatic detection + Min Max Avg on adjustable area + temperature profile + isotherm
<b>Parameter settings</b>	Emissivity, environmental temperature, distance, relative humidity
<b>Voice comments</b>	Yes, by Bluetooth (earpiece supplied)
<b>Connectivity</b>	Environmental measurements: C.A 1821, C.A 1822, C.A 1823, C.A 1246, C.A 1227 Clamp meters: F407, F607 Multimeters: MTX 3292, MTX 3293
<b>Storage</b>	On 2 GB micro SD card (approx. 4,000 images) Exchangeable up to 32 GB
<b>Image format</b>	.png (thermal and real images saved simultaneously)
<b>Laser pointer</b>	yes

## IMAGE DISPLAY

<b>Settings</b>	Automatic or manual adjustment of the min max for the palette
<b>Freezing of image</b>	Animated or fixed image
<b>Display of the images</b>	Multi-palette
<b>Screen</b>	2.8 inches

## POWER SUPPLY

<b>Type</b>	NiMH rechargeable batteries with low self-discharge
<b>Recharging method</b>	External (charger supplied)
<b>Battery life</b>	9 hrs (typical) / 50 % brightness and Bluetooth deactivated

## ENVIRONMENTAL SPECIFICATIONS

<b>Operating temperature</b>	-15 °C to +50 °C (-4 °F to +122 °F)
<b>Storage temperature range</b>	-40 °C to +70 °C (-40 °F to +158 °F)
<b>Humidity</b>	10 % to 95 %
<b>Compliance</b>	EN 61326-1:2006 / EN 61010-1 Ed. 2
<b>Resistance to falls</b>	2 metres on all surfaces
<b>Shock resistance</b>	25 G
<b>Vibration resistance</b>	2 G

## PHYSICAL SPECIFICATIONS

<b>Weight / Dimensions</b>	700 g with rechargeable batteries / 225 x 125 x 83 mm
<b>Ingress protection</b>	IP 54
<b>Interfaces</b>	- USB link and Mass Storage function. The product is then recognized as a USB key to simplify image transfers - Bluetooth for connectivity with earpiece (voice comments) and Chauvin Arnoux® measuring instruments (C.A 1821, C.A 1822, C.A 1823, C.A 1246, C.A 1227, F407, F607) and Metrix® products (MTX 3292, MTX 3293)
<b>Mounting on tripod</b>	Yes, ¼" insert on the camera

## GENERAL INFORMATION

<b>Report generation software</b>	Supplied as standard with automatic report generation in .pdf or .docx (Word) format / Compatible with W7, W8, W10, 32 & 64 Bits
<b>Warranty</b>	2 years



### Standard state at delivery

C.A 1954 thermal camera delivered in a site-proof case with 4 NiMH batteries and battery charger, 1 micro SD HC card, 1 USB cable, 1 Bluetooth earpiece, 1 specimen measurement report, CAm Report® software on CD-Rom and user's manual

### To order

C.A 1954 DiaCam2 thermal camera..... P01651904  
Battery charger..... HX0053  
Introduction to thermography ..... please contact us

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