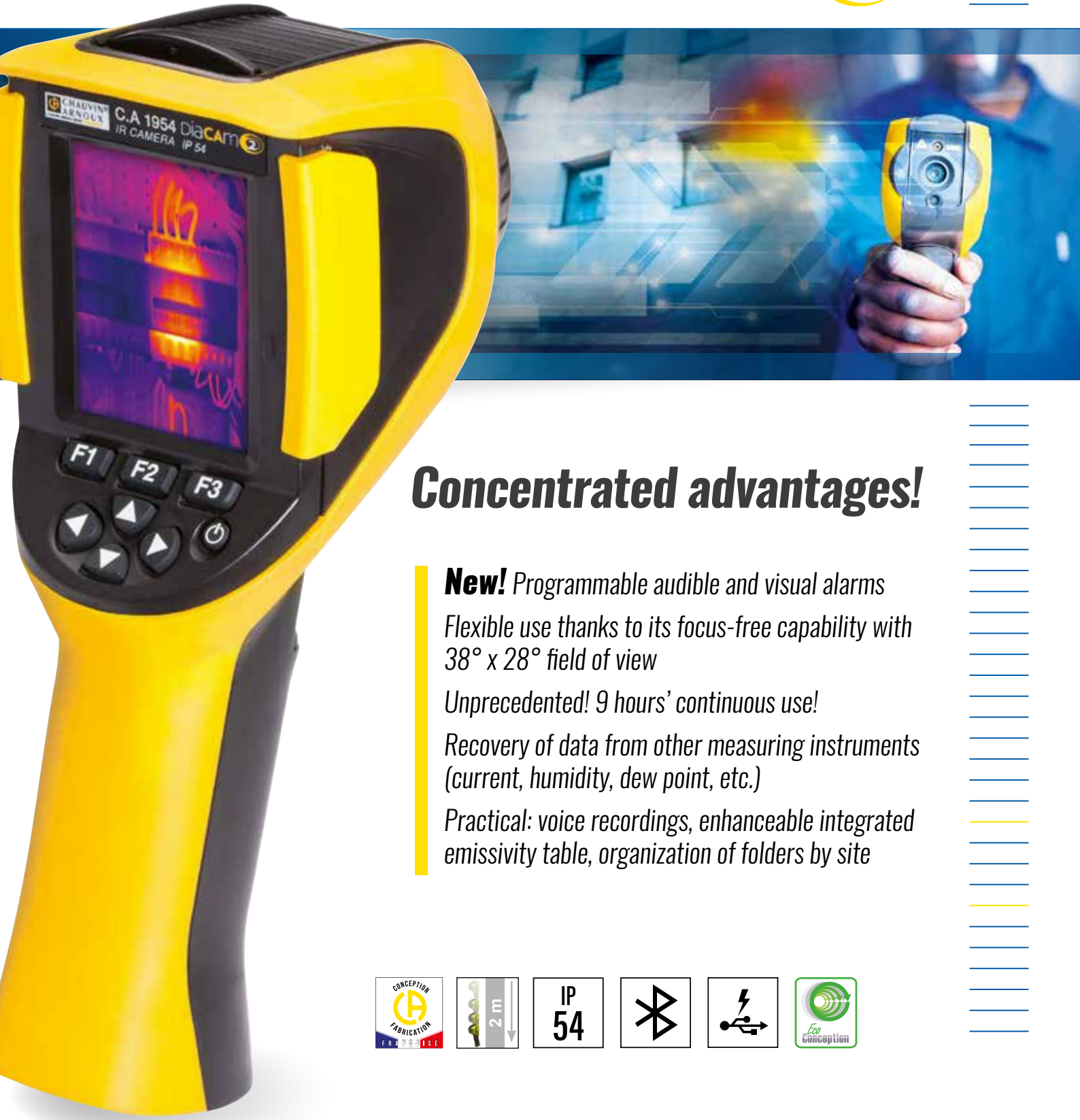
ICS SCHNEIDER MESSTECHNIK

CHAUVIN ARNOUX

CA 1954
Thermal Camera DiaCAM 2



Concentrated advantages!

New! *Programmable audible and visual alarms*

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

2 m

IP 54

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HIGH-PERFORMANCE & USER-FRIENDLY

THE DiaCAM 2 CA

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.

Parameterizable alarms

Min. and Max. alarms can be programmed directly on the camera.
As soon as a threshold overrun occurs, the user is informed visually and by an audible alarm via the Bluetooth earpiece.

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®, 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

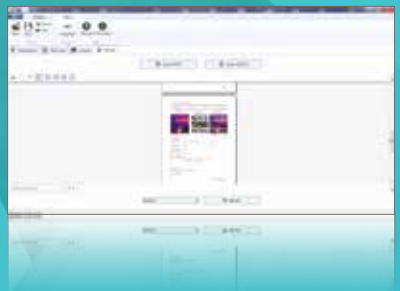
Simultaneous recovery via Bluetooth

of measurements performed using:

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

Perfect balance

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



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 CA 1954 detects electrical equipment malfunctions, and particularly abnormal overheating:

- faulty electrical contacts
- unbalances
- undersized components

For mechanical maintenance, the CA 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 CA 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 CA 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

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

TEMPERATURE MEASUREMENT

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

IMAGING PERFORMANCE

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

ANALYTICAL FUNCTIONS

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

IMAGE DISPLAY

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

POWER SUPPLY

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

ENVIRONMENTAL SPECIFICATIONS

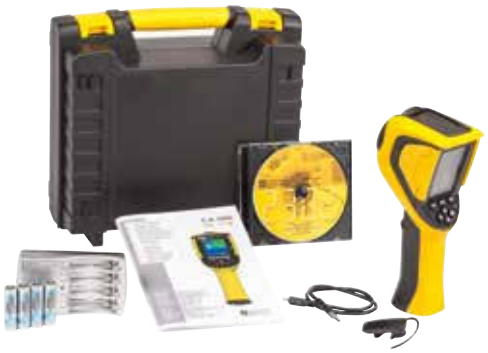
Operating temperature	-15 °C to +50 °C (-4 °F to +122 °F)
Storage temperature range	-40 °C to +70 °C (-40 °F to +158 °F)
Humidity	10 % to 95 %
Compliance	EN 61326-1: 2006 / EN 61010-1 Ed. 2
Resistance to falls	2 metres on all surfaces
Shock resistance	25 G
Vibration resistance	2 G

PHYSICAL SPECIFICATIONS

Weight / Dimensions	700 g with rechargeable batteries / 225 x 125 x 83 mm
Ingress protection	IP 54
Interfaces	- 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 (CA 1821, CA 1822, CA 1823, CA 1246, CA 1227, F407, F607) and Metrix® products (MTX 3292, MTX 3293)
Mounting on tripod	Yes, ¼'' insert on the camera

GENERAL INFORMATION

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



Standard state at delivery

CA 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

CA 1954 DiaCAm2 thermal camera..... ***P01651904***
Mains adapter..... ***P01651533***
Battery charger..... ***HX0053***
Introduction to thermography ..... ***please contact us***

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