

CA 1888

High-Resolution Thermal Camera



- (1,000 °C or 1,500 °C with option)
- Thermal sensitivity from 0.05 °C
- Matrix up to 384 x 288 pixels







Ray () m ADVANTAGES



The **RayCAms**' design and the technologies used to manufacture it provide a wide range of advantages. Its ergonomic design means comfortable measurement even in places where access is difficult:

- IP 54 leakproofing
- excellent legibility thanks to its multidirectional screen
- comfortable handling due to its pistol shape

PERFORMANCE

- automatic detection of hottest/coldest point
- parameter settings affecting measurement:
 - · adjustable emissivity
 - adjustment of measurement distance
 - parameters for defining relative humidity and environmental temperature
- parameterizable alarms
- isotherm function
- storage capacity of 1,000 radiometric images organized in 250 folders and back-up on SD card

New functions

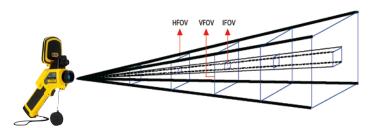
- an analytical tool providing a thermal profile along a horizontal line,
- the possibility of integrating up to five Min, Max and Average analyses on adjustable areas,
- **temperature difference** measurements between two tools or in relation to a reference temperature,
- 4 types of isotherms also available as standard features,
- possibility of assigning different emissivities according to the analytical tools used.

MixVision

With the **RayCAm**, users can choose the mode for viewing the target: infrared, real or a mix of both with the **"MixVision"** function. This allows you to adjust the transparency (in %) of the infrared image in relation to the real image, thus helping to identify problem areas immediately.

LENS SPECIFICATIONS

The CA 1888 is equipped with a 24° x 18° lens.



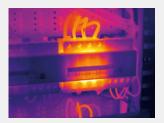
			0.3 m							
2/1° v 18°	HFOV (m)	0.03	0.10	0.17	0.35	0.70	2.11	3.52	10.57	35.26
1.3 mrad			0.07		0.26		1.57		7.89	
10 cm	IFOV (mm)		0.66		2.20		13.22		66.12	
TO CITI	SMO (mm)	0.66	1.98	3.30	6.60	13.20	39.66	66.12	198.36	661.20

- HFOV and VFOV represent the horizontal and vertical fields of view, respectively.
- IFOV corresponds to the camera's spatial resolution, i.e. what a detector sees.
- SMO (Smallest Measurable Object): to ensure correct measurement, the target observed must cover at least three detectors, i.e. SMO = 3 IFOV.

ELECTRICAL APPLICATIONS

Circuit-breaker/Generator

- detection of damaged fuses and bad connections
- verification of correct heat diffusion in the generator



THERMAL APPLICATIONS

Air leaks/energy losses

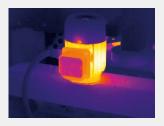
- energy consumption monitoring / building inspections
- location of losses (heating, insulation, etc.)



MECHANICAL APPLICATIONS

Electric motors

 detection of internal component anomalies or malfunctions to prevent motor overheating



ELECTRONIC APPLICATIONS

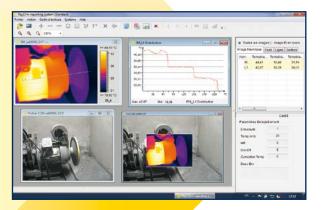
Components/printed circuits

- thermal profile and heat diffusion on a PCB
- detection of component overheating



RayCAm Report Standard software

Delivered with the RayCAm Report Standard software



Thermal Image / Real Image / MixVision

With the **RayCAm Report Standard**, you can combine your thermogram with a real image. This allows you to identify the fault or dysfunction so that you can make the appropriate corrections!

The **MixVision** function is available as a standard feature on the RayCAm. Users can reinitialize the merge function by modifying the IR/real percentage to suit your requirements and ensure clearly-interpretable reports: this percentage can be adjusted from 0 to 100 %!

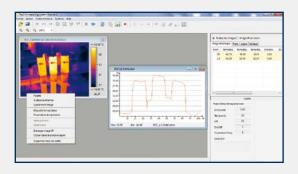
ANALYSIS MODE

This new mode can be used to open one or more images, add various analytical tools and obtain a summarized presentation of all the results in a table. This mode is useful for first-level analysis when you simply want a rough idea of the temperature values without saving the analyses.

Genuine, accurate analysis

image is changed, the other values are automatically recalculated. **RayCAm Report Standard** allows you to define the emissivity of each point in the thermogram, an essential feature when the thermogram contains different materials.

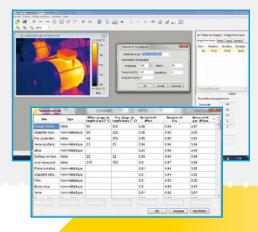
If a characteristic on the radiometric



Choose a different configuration for each analytical tool inserted on your thermogram.

A wide range of possibilities:

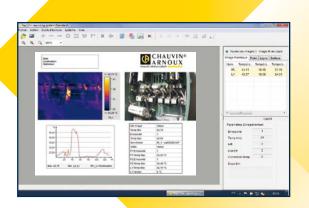
- specify a different emissivity from that of the thermogram as a whole
- display a value label next to the tool
- display the Max/Min temperature within an area of analysis



RayCAm Report Standard is the ideal tool for analysing the results and creating **customized reports**. Its interface is so simple that anyone can learn to use it very quickly.

All the analysis functions are accessible via the toolbar. Depending on their requirements, users can position various elements:

- Cursors (automatic display of the temperature at the point selected).
- Thermal profile (automatic display of the Min/Max/Average temperatures of the line).
- A square or circle for area analysis (ideal for Min/Max/Average temperature comparisons between terminals, for example).
- Result tables quickly display all the data/ analytical tools on the thermogram automatically.
- The "Max" function automatically indicates the hottest point in the whole thermogram or in a predefined area of analysis.
- Polygons and polylines for more precise analysis of certain areas in the thermogram.
- A barchart for studying the temperature distribution according to several intervals.



A wide range of accessories for measurements in optimum conditions:

- Video cable for display on external screen
- RayCAm Report Standard software for processing the data
- Operation on internal batteries or mains adapter

Accessories available as an option:

- Mains adapter for continuous use
- Bluetooth accessories
- Sun-shade to make the screen easy to read even in bright lighting
- Tripod adapter for hands-free use and operation in a fixed position



Standard state at delivery

CA 1888:

delivered in a case with 1 battery charger, 2 batteries, a 2 GB SD Card, 1 SD card reader, 1 video cable, RayCAm Report Standard software and a measurement report.

REFERENCES TO ORDER

CA 1888	P01651270
CA 1888 - 9 Hz	P01651270E
CA 1888 high temperature 1,000 °C	P01651271
CA 1888 high temperature 1,500 °C	P01651272
CA 1888 Bluetooth	P01651273
Other configurations CA 1888	CA1888-CFG

ACCESSORIES AND REPLACEMENT PARTS

Sun-shade	P01651531
Photo tripod adapter	P01651526
Lens cap	P01651522
Battery	P01296041
Battery charger	P01296043
Mains power supply	P01651527
In-vehicle battery charger (cigarette li	ghter) HX0061
Thermography training	Please contact us

For assistance and ordering		

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^{* 9} Hz outside the European Union