

C.A 1886 C.A 1888

For maintenance and building inspections, RayCAm sees everything!



- Thorough analysis with comprehensive parameterization
- Large screen for easier reading
- Temperature up to 600°C
- Thermal sensitivity from 0.08 °C to less than 0.05 °C
- Matrix up to 384 x 288



Certification granted on the basis of a single test Available at www.cnpp.com N° 2010-0020 - N° 2010-0021



Ray () m) ADVANTAGES

The RayCAms' design and the technologies used to manufacture them provide a wide range of advantages.

Their 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

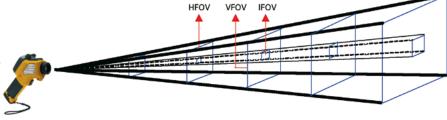
- an analytical tool providing a thermal profile along a horizontal line.
- the possibility of integrating up to five Min, Max and Average analyses on adjustable areas,
- temperature difference measurements between two tools or in relation to a reference temperature,
- 4 types of isotherms also available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

MixVision

With the new RayCAms, 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 C.A 1886 is delivered with a 20° x 15° lens. The C.A 1888 is equipped with a 24° x 18° lens.



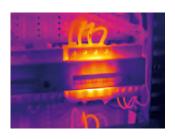
		0.1 m	0.3 m0.5 m	1 m	2 m	6 m	10 m	30 m	100 m
20°x15° 2.2 mrad 10 cm	HFOV (m)	0.03	0.10 0.17	0.35	0.70	2.11	3.52	10.57	35.26
	VFOV (m)	0.02	0.07 0.13	0.26	0.52	1.57	2.63	7.89	26.33
	IFOV (mm)	0.22	0.66 1.10	2.20	4.40	13.22	22.04	66.12	220.40
	SMO (mm)	0.66	1.98 3.30	6.60	13.20	39.66	66.12	198.36	661.20
24°x18° 1.3 mrad 10 cm	HFOV (m)	0.05	0.15 0.25	0.5	1	3	4.99	14.98	49.92
	VFOV (m)	0.04	0.11 0.19	0.37	0.75	2.25	3.74	11.23	37.44
	IFOV (mm)	0.13	0.39 0.65	1.3	2.6	7.8	13	39	130
	SMO (mm)	0.39	1.17 1.95	3.9	7.8	23.4	39	117	390

- 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

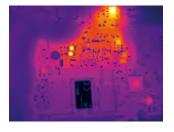
 detection of internal component anomalies or malfunctions to prevent motor overheating



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 RayCAms. 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 if a characteristic on the radia automatically recalculated. RayCAm Report Standar point in the thermogram, an excontains different materials.

Genuine, accurate analysis

If a characteristic on the radiometric 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.

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

A wide range of possibilities:

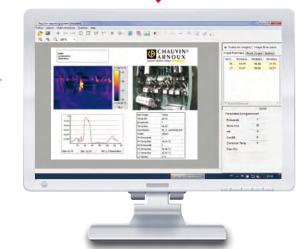
- specify a different emissivity from that of the thermogram as a whole
- display a value label next to the tool
- display the Max/Min temperature within an area of analysis

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.



Standard state at delivery:

C.A 1886 or C.A 1888: delivered in a case with 1 battery charger, 2 batteries, a 2 GB mini-SD Card, 1 SD card reader, 1 video cable, RayCAm Report Standard software and a measurement report.

References to order

C.A 1886	P01651260
C.A 1886 - 9 Hz	P01651260E
C.A 1886 high temperature 1,000 °C	P01651261
C.A 1886 high temperature 1,500 °C	P01651262
C.A 1886 Bluetooth	P01651263
C.A 1888	P01651270
C.A 1888 - 9 Hz	P01651270E
C.A 1888 high temperature 1,000 °C	P01651271
C.A 1888 high temperature 1,500 °C	P01651272
CA 1888 Bluetooth	P01651273
Other configurations C.A 1886	CA1886-CFG
Other configurations C.A 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 lighter)	HX0061
Thermography training	Please contact us

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



For assistance and ordering

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^{* 9} Hz outside the European Union