Diagnostica98 CD-Rom card n. 2/50

DIAGNOSTICS **IR TERMOGRAPHY-COMPUTERIZED ANALYSIS**	AREA **PLASTERED OR COVERED EXTERNL SURFACES**

APPLICATION TECHNIQUE

Termo-visual IR instruments are used to check the suface temps' distribution following a thermal stress.The thermal stress is obtained by solar irradiation or through spontaneous night-day thermal gradient use.

OBTAINABLE RESULTS

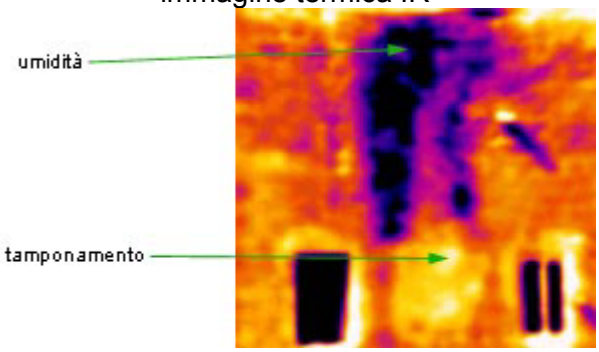
- Computerized IR image processing with applicatory software and critic-defect checking maps.

DETECTABLE DATA

Architectural survey:
Wall material marking out separating stony and lateritious materials; plugging; fuel and technologic installations survey; undersurface wooden, metallic, or ferroconcrete elements check.
"Pathological" aspects:
Plaster and cover discohesion; repaid structural damages; dampness soaking (possible origin location); "thermal bridges".

rilievo critico:

immagine termica IR



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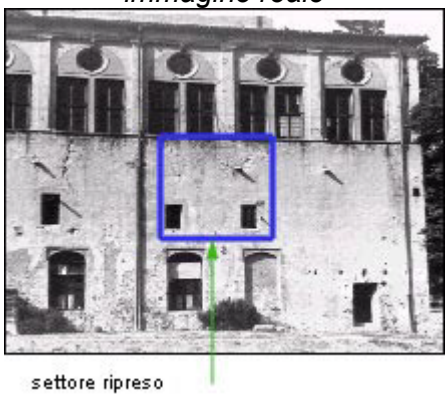

RELATED DIAGNOSTICS

- log-collected sample lab tests
- Magnetometry
- preliminary photografic and visual analysis
- Endoscopy

COSTS

- Punctual intervention £. 2.500.000 each
- Exended intervention £. 5.000 - 15.000 / mq

SURVEY

- Surface quantification
- Wells location and orientation
- Work site max dimensions exstimation
- Accessibility and use of the around the building area
- Scale cartographic documentation
- Physical charachteristics of the surface
- Historical references

The thermography is ezecuted on external side plastered wall hangings to locate and survey concealed architectural elements, wall structures, cracks and dampness. Data are returned on graphic documentation previously set by th purchaser. Every work is carried out with portable IR sensible instruments, using natural thermic gradient (surays and shade) on analyzed elements. Works follow UNI 9252 and ISO 6781 rule standards, data returning is accompanied by anomaly and decay photographic certification followig UNI 9124 rule standards, IR images, in place collected IR images computerized processing, final detailed tchnical report.