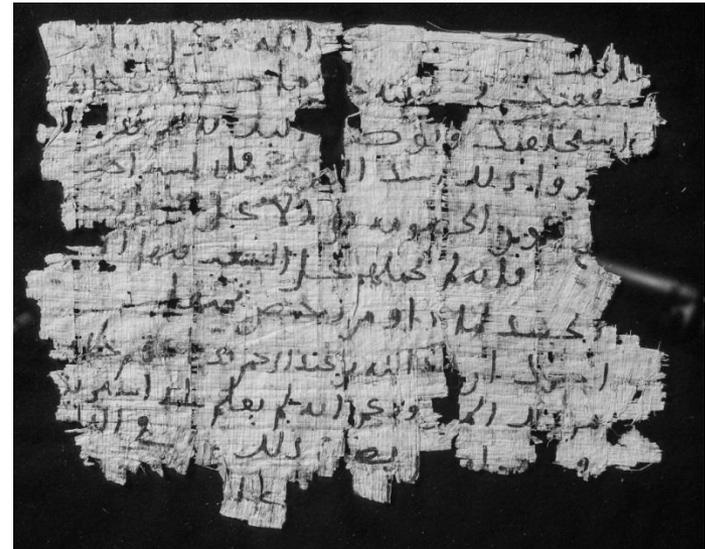
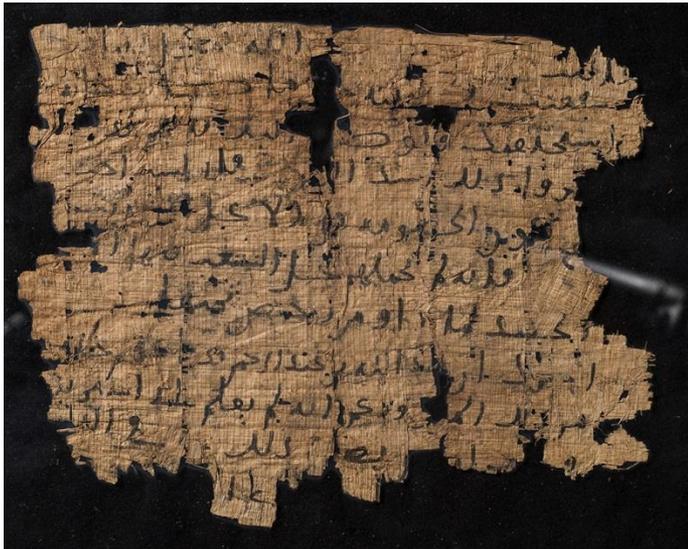
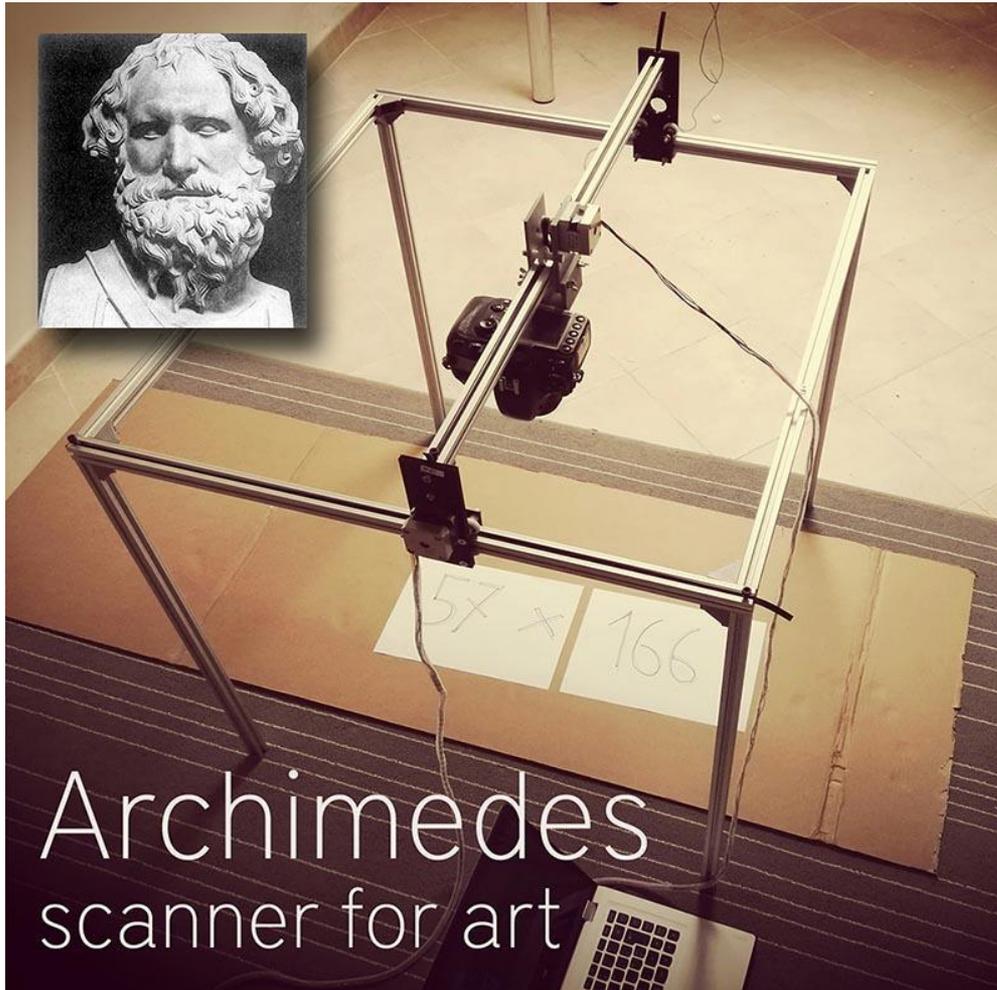


Technical Examination for Paper Conservation

Manuscripts, Prints, Drawings, Stamps



Archimedes, scanner for Paper Conservation



CHSOS has developed Archimedes, the multipurpose scanner for Art Diagnostics. It is a modular low-cost, mobile and lightweight scanner that can accommodate a number of diagnostic imaging methods such as Technical photography, Infrared Reflectography, Multispectral Imaging, and X-Radiography.

Archimedes! One Scanner for all imaging methods

Archimedes for Paper Conservation

This scanner is particularly useful for library assets such as manuscripts, prints and drawings that need to be kept flat. The imaging cameras can be scanned over the paper object which can safely rest on the table. Archimedes can fit even a large infrared reflectography camera and it helps to acquire high-resolution imaging of the items.

Technical Photography

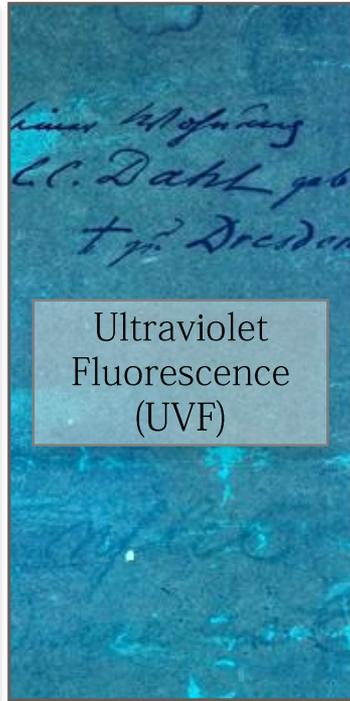
“Practical notes on ultraviolet technical photography for art examination”



[Click to download](#)



Photo



Ultraviolet
Fluorescence
(UVF)



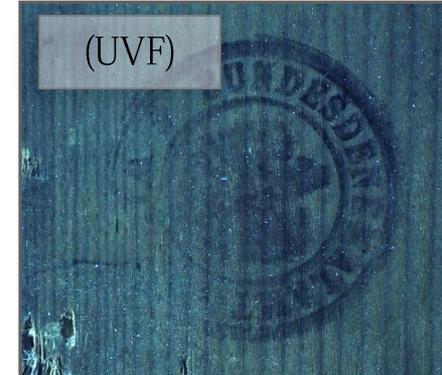
Infrared
(IR)



Infrared
False Color
(IRFC)



Photo



(UVF)

Technical Photography (TP) - a collection of spectral images realized with a modified digital camera and different lighting sources and filters - enhances reading of faded prints, inks, and paints.

CHSOS Technical Photography kit

We designed a *Technical Photography kit* specifically for art professionals and educational institutions.

It's the best compromise among Quality, Adaptability and Costs and it allows to realize a complete set of 7 technical photo documentation methods: VIS (visible photography), UVF (Ultraviolet Fluorescence), UVR (Reflected Ultraviolet), IR (Infrared), IRF (Infrared Fluorescence), IRFC (Infrared False Color), IRT (Infrared Transmitted)

This is a kit for art professionals: conservators, art appraisers, archaeologists, art historians.

Use it for fast and informative examination of easel paintings, wall paintings, manuscripts and historical documents.

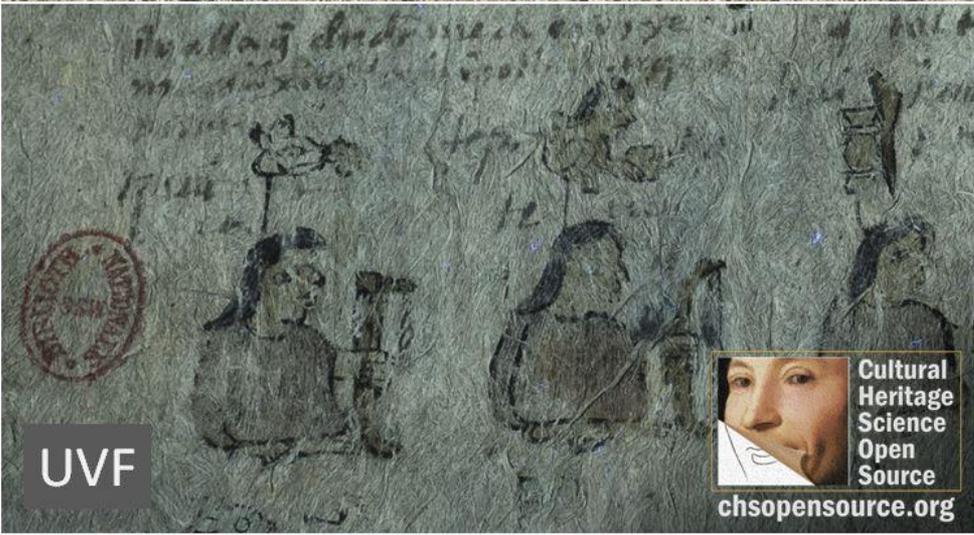
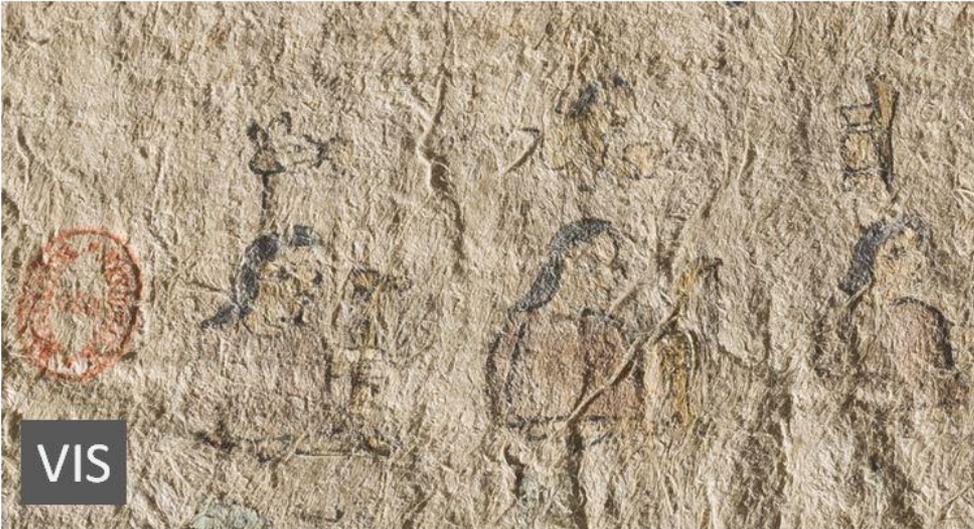


Click
to
read
more

Technical Photography KIT



Ultraviolet Fluorescence (UVF)



[CLICK HERE](#)

CHSOS
chsource.org

Follow us
Learn more



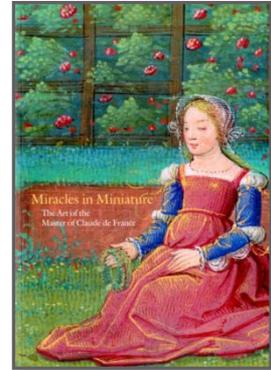
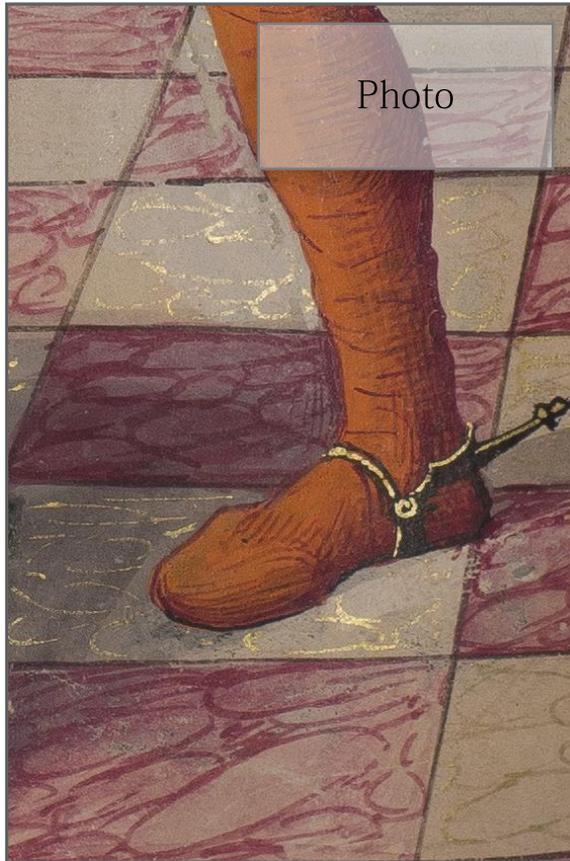
Infrared False Color (IRFC)



[Click to download](#)

Often paintings and documents have been modified over their history: a conservation intervention or a change made on purpose. Distinguish inpaints and alterations using Technical Photography (TP).

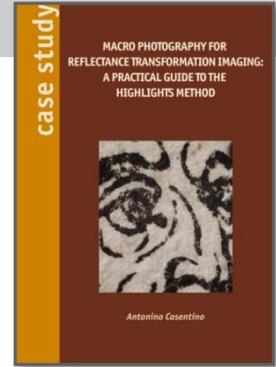
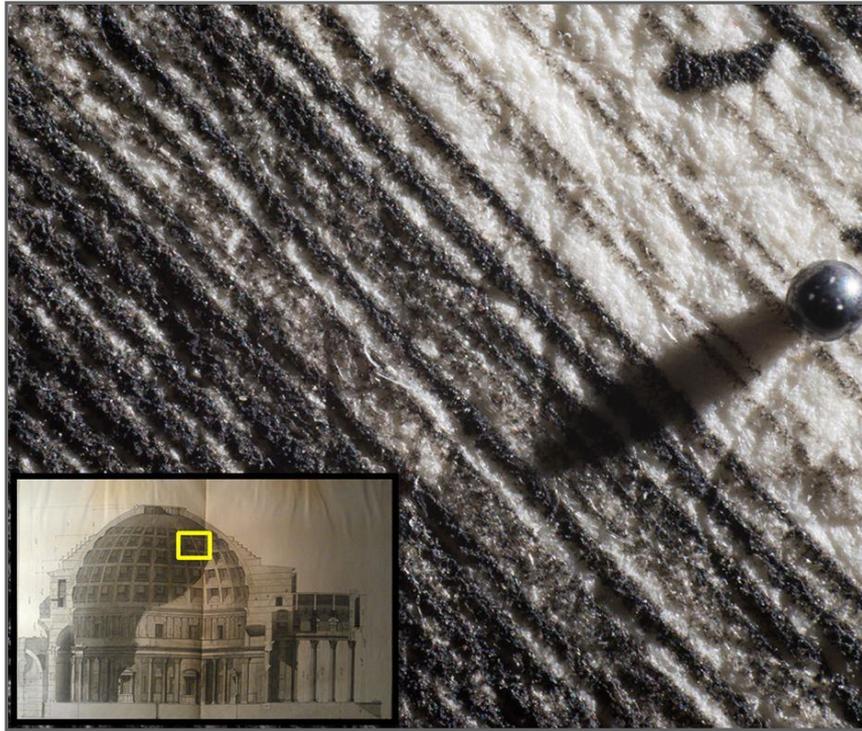
Infrared photography (IR)



[Click to download](#)

Artists can change from the original sketch making *pentimenti* which are revealed by an infrared reflectography examination.

Reflectance Transformation Imaging (RTI)



[Click to download](#)

Tiny incisions can be documented and they can provide information on the artistic tools and methods used. RTI (Reflectance Transformation Imaging) is a computational photography method used to study incisions in drawings, prints, and paintings.



Reflectance Transformation Imaging (RTI)



Nuremberg Chronicle, dated 1493.

Woodcut Macro RTI

1. fibrous appearance of the rags paper.
2. lines show no regularity of width or direction.



Book of Hours, dated 1498.

Woodcut Macro RTI

1. edge rims.
2. lack of textile fibers in the parchment.



Pantheon in Rome, 1786.

Etching

1. raised ink
2. varying intensity of the lines.



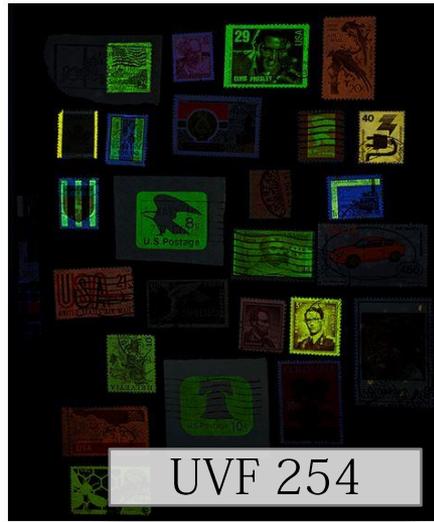
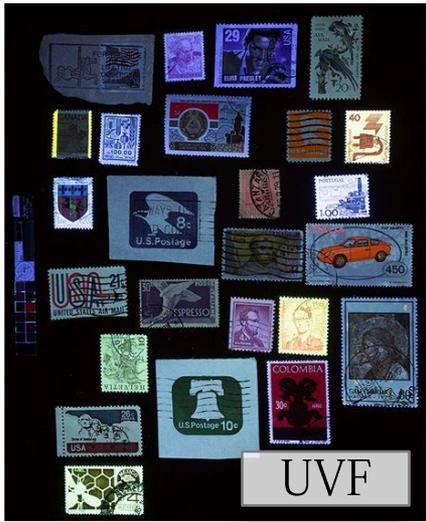
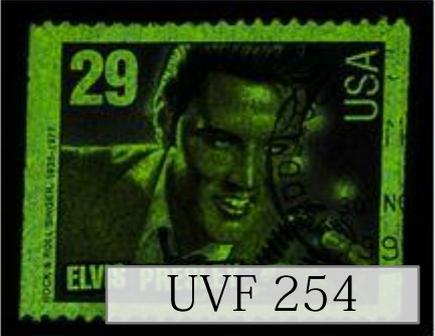
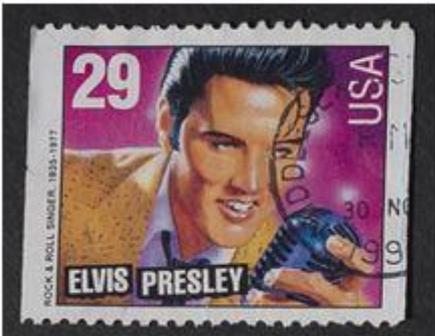
Portrait of C. G. Liljevalch, 1909.

Engraving. Macro RTI.

1. raised ink,
2. tapering and swelling lines.

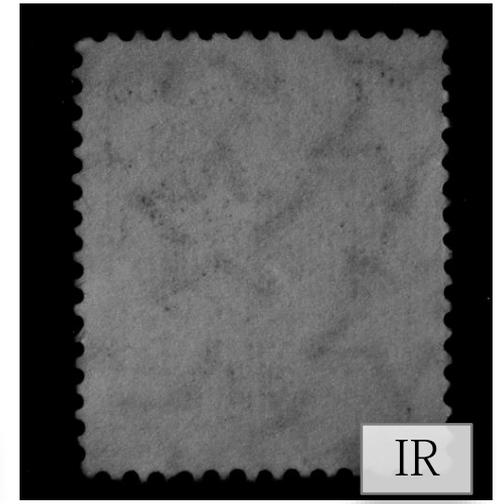
Macro photography and RTI (Reflectance Transformation Imaging) allow to document the printing method.

Ultraviolet 254 nm



Phosphors coating is best viewed in shortwave ultraviolet light (254 nm).

Watermarks



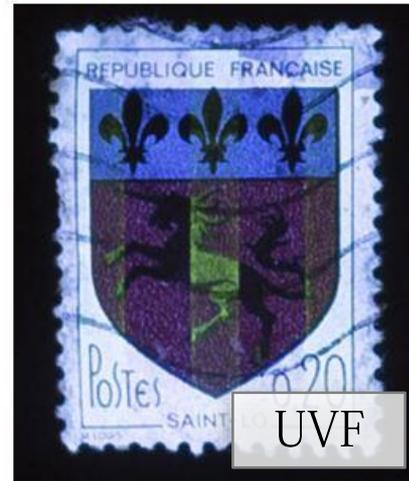
Ultraviolet Fluorescence photography (UVF), RTI and infrared photography (IR) are non-invasive methods that can enhance reading of watermarks.

Excite phosphors in paper



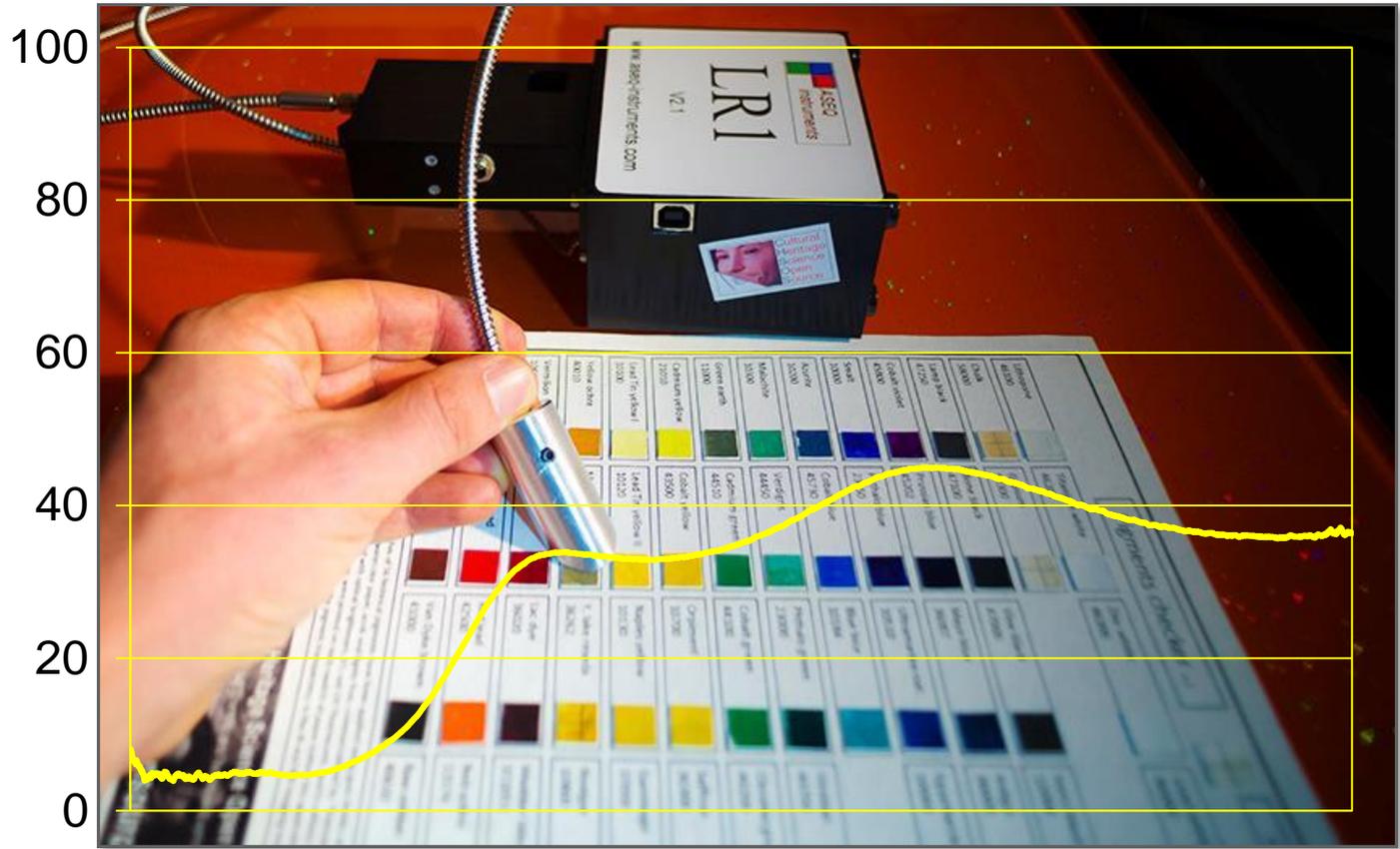
Some Countries, such as Republic of San Marino, use a paper supplemented with phosphors.

Stamps



Examination of stamps with technical photography provides a number of hints for their authentication.

Reflectance Spectroscopy



[Click to download](#)

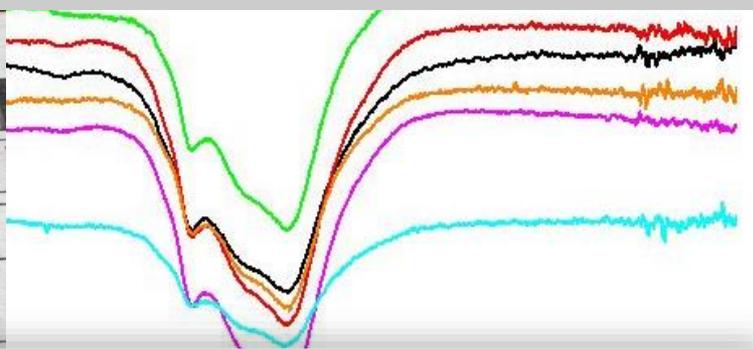
Pigments identification with onsite, non-invasive and non-destructive Reflectance Spectroscopy (RS).

CHSOS
chsopensource.org

Follow us
Learn more



Gorgias – Reflectance Spectrometer for Art



Reflectance spectrometer for art
Gorgias

This composite image features the Gorgias reflectance spectrometer device, a marble bust of a man (likely a philosopher or scientist), and a digital interface for a pigment checker. The spectrometer is a small black device with a probe and a cable. The digital interface shows a grid of color swatches and a list of pigments. The text "Gorgias Reflectance Spectrometer for Art Examination" and "chsopensource.org" is visible on the device.

CHSOS
chsopensource.org

Follow us
Learn more



Any questions?

Contact CHSOS:

Dr. Antonino Cosentino

Email: antoninocose@gmail.com

Phone: +39 3283211186

Web: chsopensource.org

Address: via matrice 4. Viagrande, Italy



CHSOS
chsopensource.org

Follow us
Learn more

