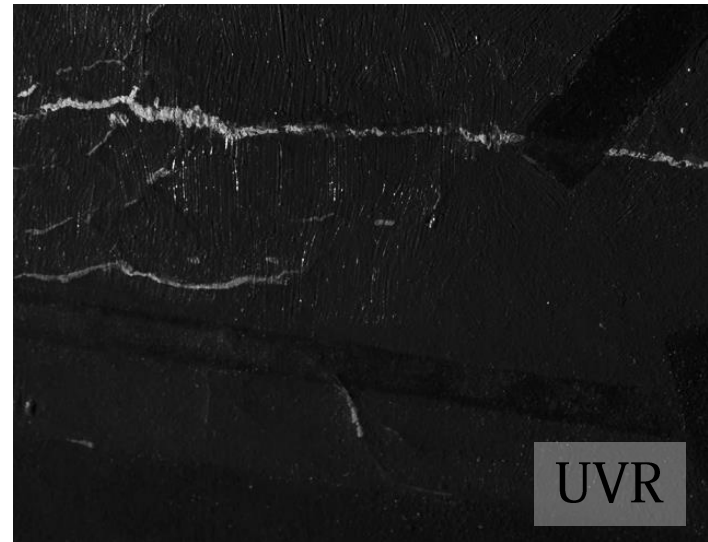
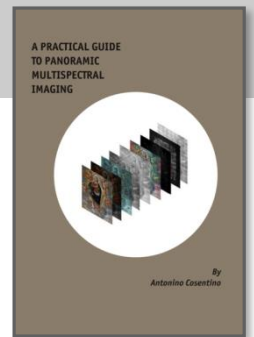


# Onsite, non-invasive and non-destructive Technical Examination for paintings



# Panoramic photography



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High resolution documentation of paintings for study and printing

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# Raking light photography



Photo



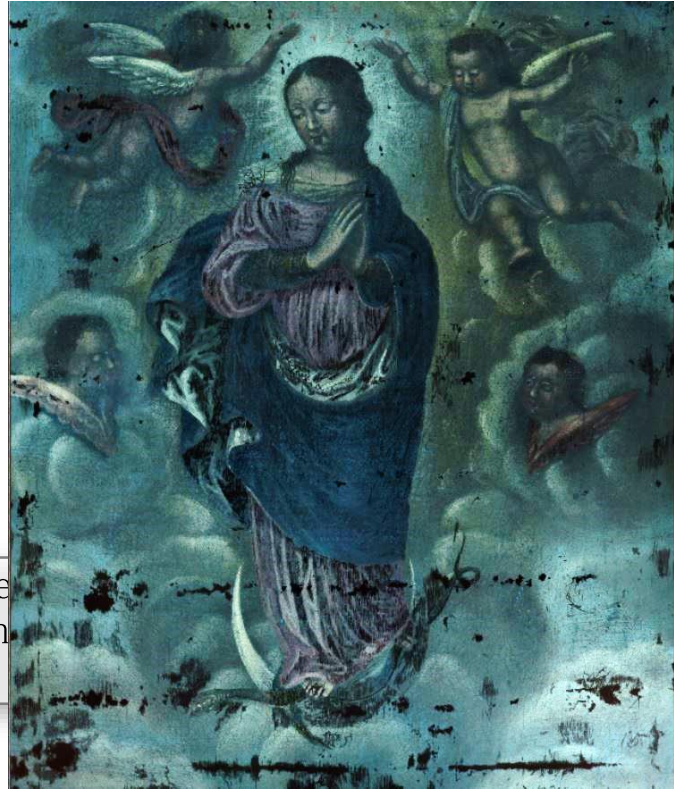
Raking light (RAK)

Raking Light photography brush work, losses and inpaints.



# Ultraviolet Fluorescence Photography (UVF)

## Map Inpaints



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Ultraviolet photography documents inpaints and organic materials , such as old and new varnishes.

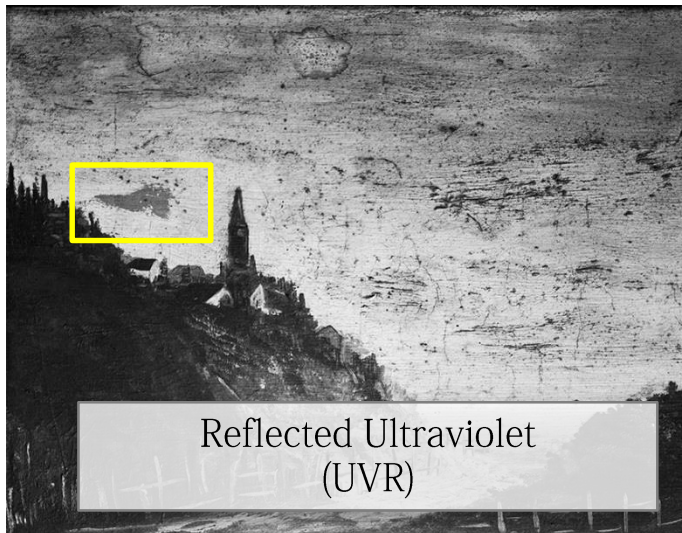
# Reflected Ultraviolet Photography (UVR)



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Photo



Reflected Ultraviolet (UVR)

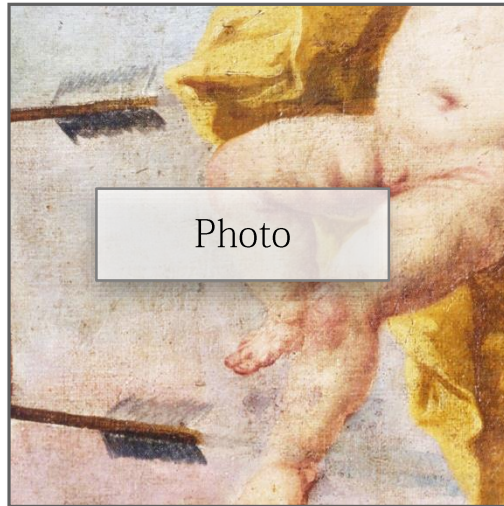
Reflected Ultraviolet photography documents inpaints with titanium white and zinc white.



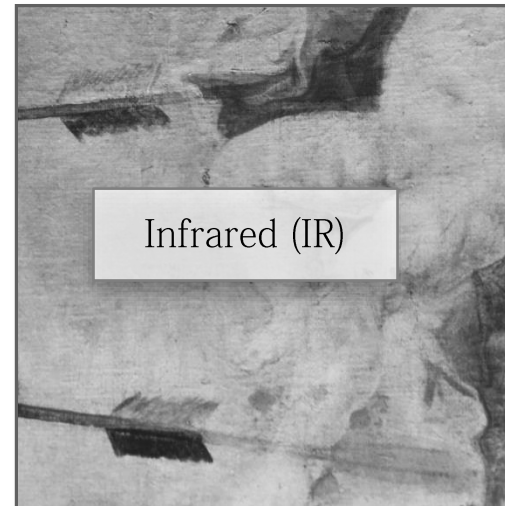
# Infrared photography (IR)



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Photo



Infrared (IR)

Infrared photography reveals lost details in paintings

# Infrared Reflectography (IRR)



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Photo



Infrared (IRR)

Infrared photography makes visible underdrawing and changes (*pentimenti*)



# Infrared False Color Photography (IRFC)



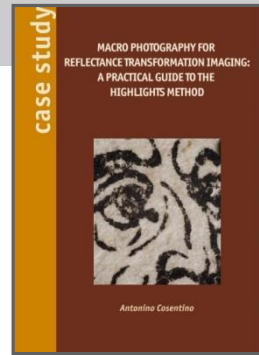
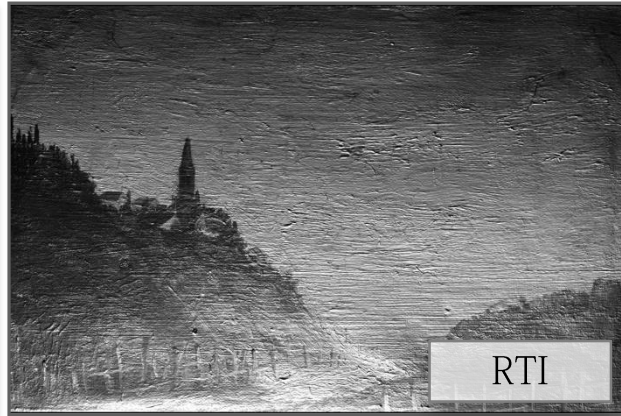
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Infrared False Color photography locates inpaints with modern pigments



# Reflectance Transformation Imaging (RTI)

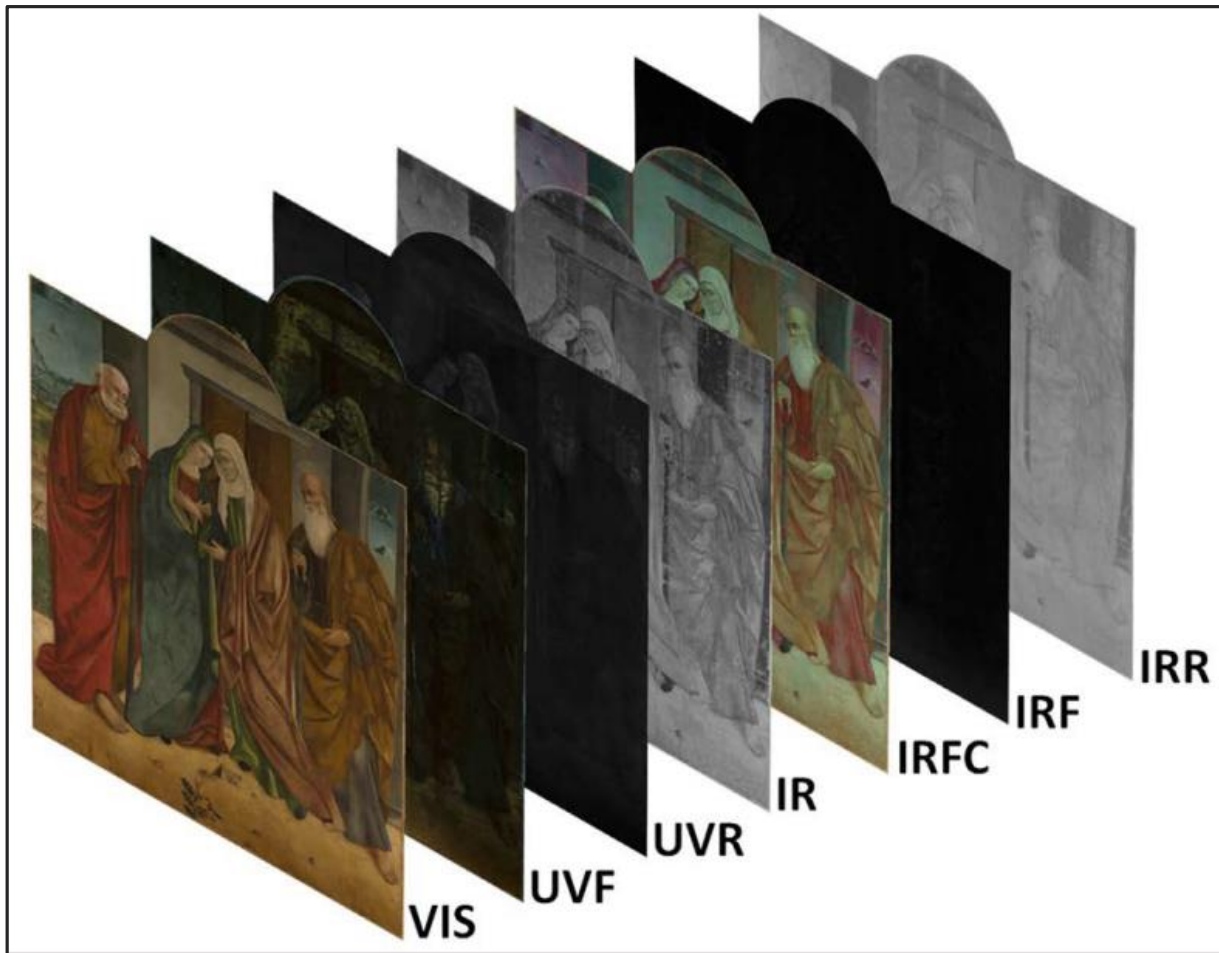
## Incisions



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RTI (Reflectance Transformation Imaging) documents incisions which indicative the painting techniques.

# Technical Photography



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A complete Technical Photography (TP) documentation allows a preliminary identification of pigments

# 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.



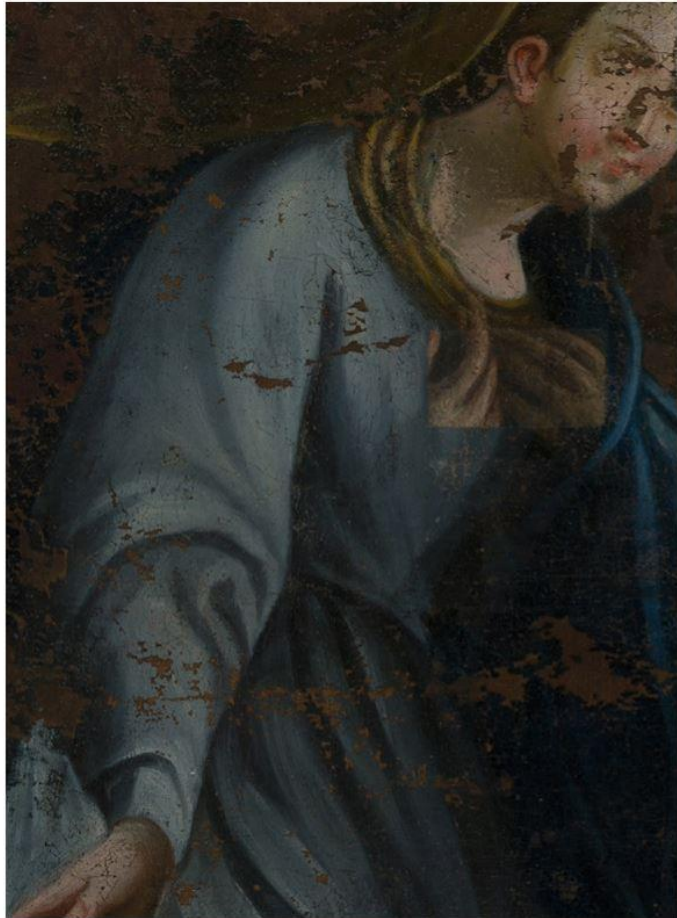
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## Technical Photography KIT





# X Radiography



VIS



RX

X-Radiography (RX) reveals hidden paintings



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# Multispectral Imaging



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Pigments can be mapped with multispectral imaging to locate inpaints and differentiate among pigments with the same hue and tone but different chemical composition.



# Antonello – Multispectral Imaging system for Art

*Antonello* is a simple MSI system composed of 18 bandpass filters and a full spectrum DSLR camera, covering the 400-925 nm spectral range.

Conservators and art historians need non-invasive methodologies to identify and map pigments on works of art and archaeology. These tools allow them to select appropriate conservation procedures, acquire information on the workshop practices, distinguish original sections from inpaints and to enhance visualization of faded pigments and inks.



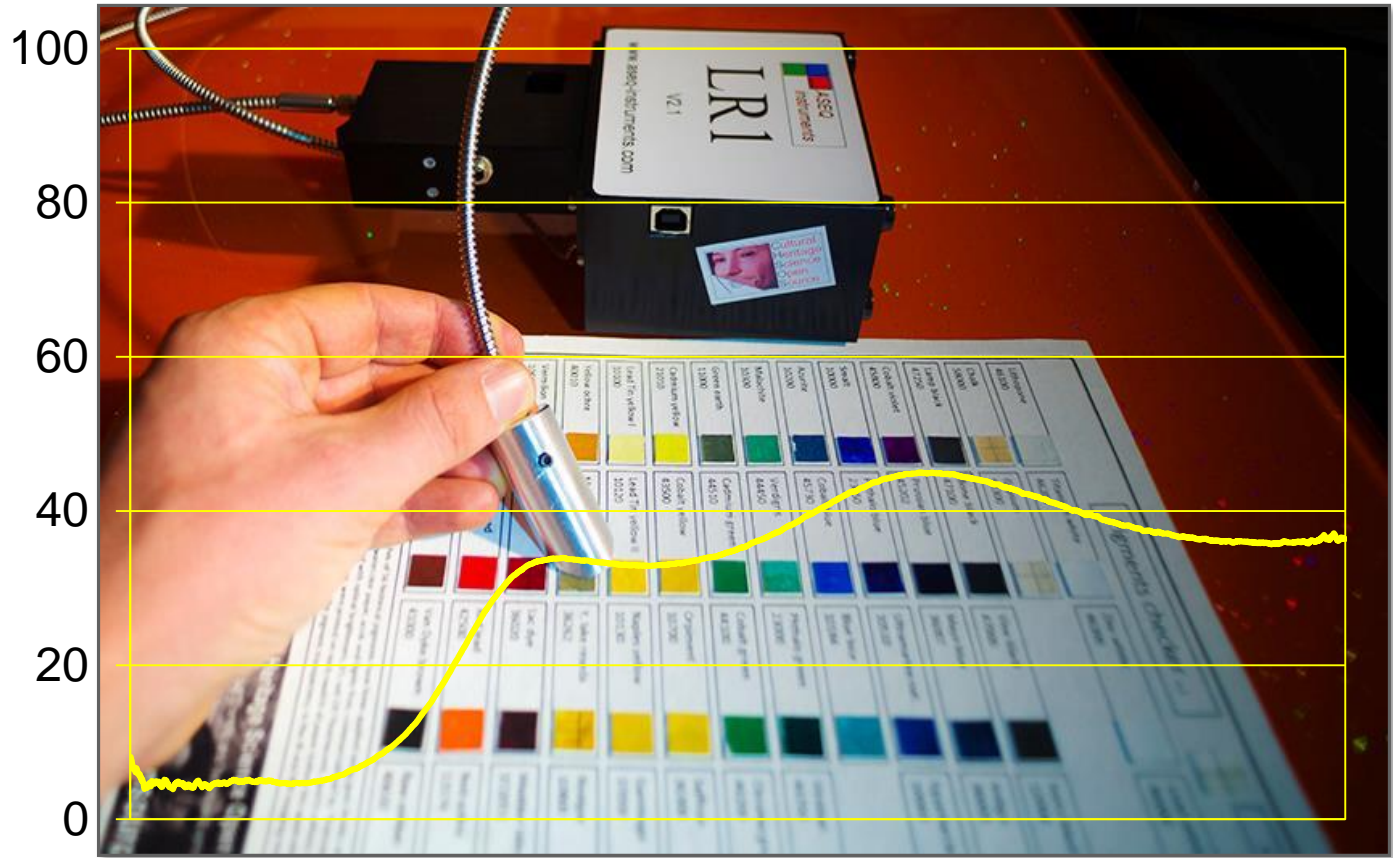
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# Reflectance Spectroscopy

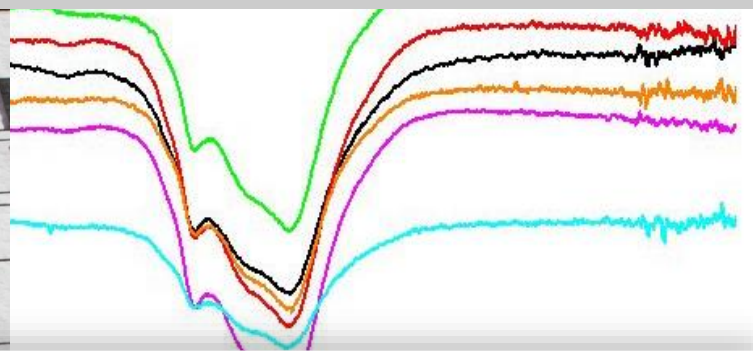


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Pigments identification with onsite, non-invasive and non-destructive Reflectance Spectroscopy (RS).

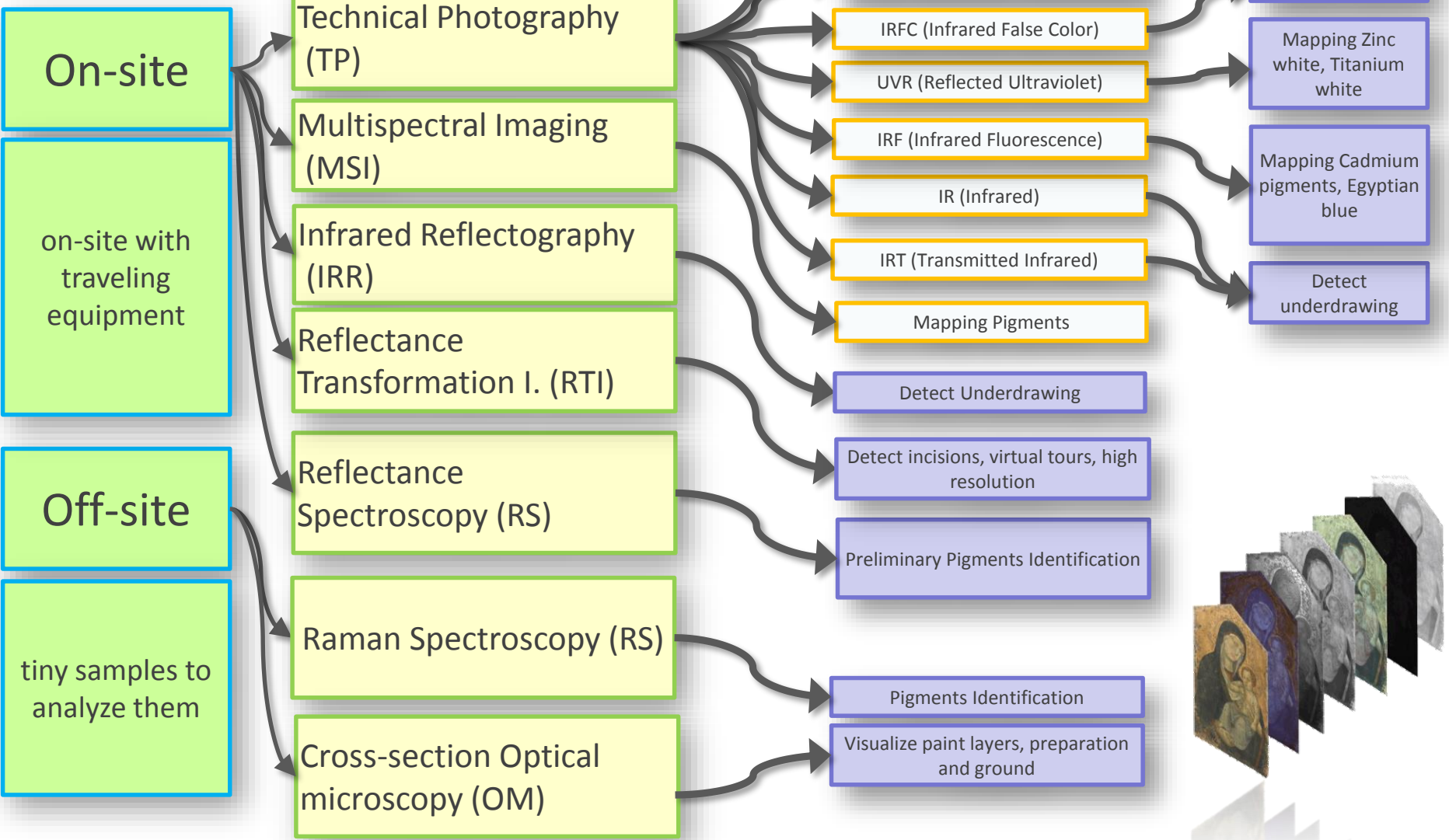
# Gorgias – Reflectance Spectrometer for Art



Reflectance spectrometer for art  
Gorgias

The Gorgias reflectance spectrometer device is shown, connected to a computer. The device is black and has a probe attached. The software interface on the computer screen displays a "Pigments Checker" window with a grid of color swatches and a list of pigments. A marble bust of the philosopher Plato is overlaid on the software interface. The device has a label that reads "Gorgias Reflectance Spectrometer for Art Examination chsopensource.org".

# CHSOS – art examination methods





# Any questions?

Contact CHSOS:

Dr. Antonino Cosentino

Email: [antoninocose@gmail.com](mailto:antoninocose@gmail.com)

Phone: +39 3283211186

Web: [chsopensource.org](http://chsopensource.org)

Address: via matrice 4. Viagrande, Italy



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