



Ultraviolet Lamp - Cultural Heritage Science Open Source

Ultraviolet Lamp - Cultural Heritage Science Open Source

Fabrizio – the Ultraviolet lamp for Art and Archaeology examination

We made **Fabrizio**, the Ultraviolet (UV) lamp for Technical Art and Archaeology examination. **Fabrizio** is the UV lamp specifically designed for cultural heritage professionals. At CHSOS we tested a number of UV lamps already on the market but none was matching our standards. **Fabrizio**. is packed with features we need in daily art examination for conservation and scientific research.

[Download “Download Fabrizio's brochure” Fabrizio-UV-lamp-CHSOS-1.pdf](#) – Downloaded 356 times – 2 MB

Fabrizio, it's a quite common Italian male name. Used by the Romans the name *Fabricius* comes from *faber*, which indicated somebody that could make things, such as a craftsman.

Appius Claudius Caecus used this term in his famous sentence: *Homo faber suae quisque fortunae* (Every man is the artifex of his destiny).

At CHSOS we are more and more enjoying making tools for art examination. So, we named our new UV lamp, **Fabrizio**., another advanced tool proudly assembled and crafted in the CHSOS workshop.

Ultraviolet Lamp - Cultural Heritage Science Open Source



Interested in [Fabrizio](#)? Find out how much it cost.

[Download "Interested in our tools? Download our Catalog"](#)

— Catalog-2018.pdf – Downloaded 2690 times – 112 KB

Specifications

Weight:

1,5 Kg (3,3 pounds).

Size:

16 x 14 x 14,5 cm.

Ultraviolet Lamp - Cultural Heritage Science Open Source

UV LED radiation power

: 14250 mW.

UV LED lifespan:

30000 – 50000 hours.

Max spectral emission

: 365 nm.

Focusing lens angle

: 60°.

Visible-Infrared noise emission

: not detectable, UV pass filter cuts off the violet light and infrared radiation.

Standard photographic tripod adapter

: yes.

Ultraviolet Lamp - Cultural Heritage Science Open Source



Fabrizio, UV lamp for Cultural Heritage diagnostics

UV LED Technology

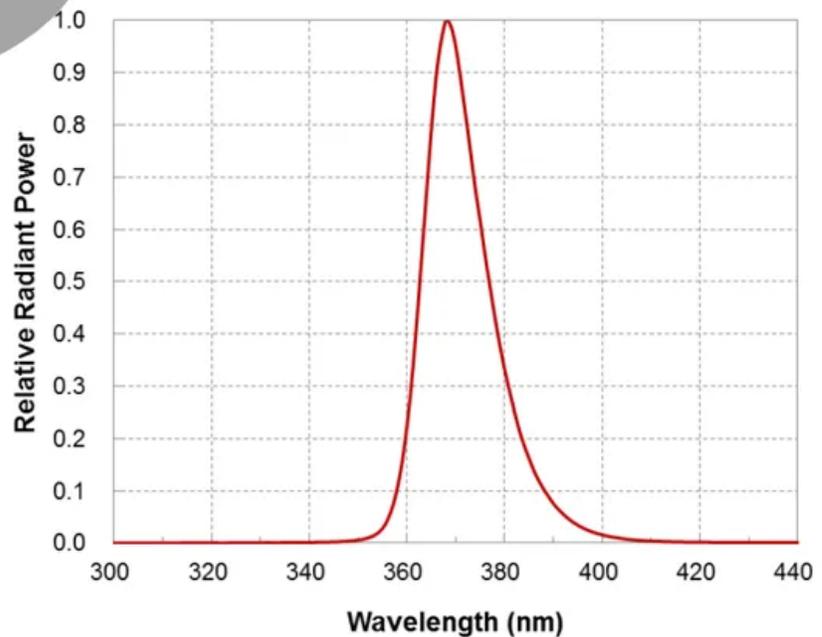
Fabrizio's core is a new UV LED emitting at 365 nm, the standard UVA spectral region used for UVF and UVR technical photography.

Ultraviolet Lamp - Cultural Heritage Science Open Source

Fabrizio's core is a new UV LED emitting at 365 nm, the standard UVA spectral region used for UVF and UVR technical photography.



Spectral Power Distribution



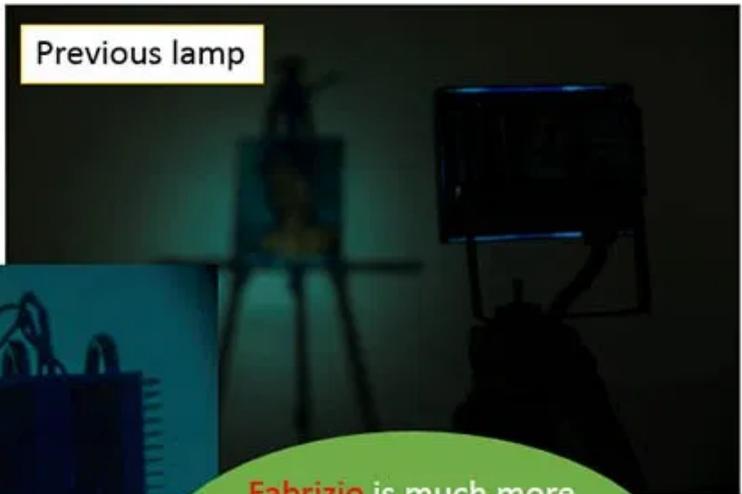
Fabrizio

The UV lamp for Art and Archaeology examination

Intense UV lamp with superb high power.

Fabrizio has a stunningly strong Radiant Power of 14250 mW which distributes on a large surface. This is double the power of our previous lamp. **Fabrizio** can boost this strong power thanks to the new AlInGaN-based thin-film vertical LED chip technology. It has a grid of 10 series by 5 parallel micro LEDs for a total power consumption of 50W and 1500 mA operating at 32V. AlInGaN-based thin-film vertical LED chip technology.

Ultraviolet Lamp - Cultural Heritage Science Open Source



Previous lamp



Fabrizio

Fabrizio is much more powerful than our previous UV lamp. It can evenly irradiate a large surface.



chsopensource.org

Fabrizio

The UV lamp for Art and Archaeology examination

Fabrizio is much more powerful than our previous UV lamp. It can evenly irradiate a large surface.

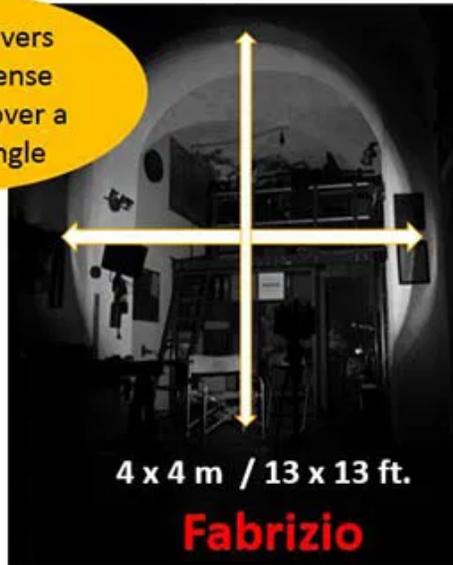
Ultraviolet Lamp - Cultural Heritage Science Open Source

Photo



Fabrizio delivers even and intense UV radiation over a 60 degree angle

UV Reflected images, same conditions, different lamps



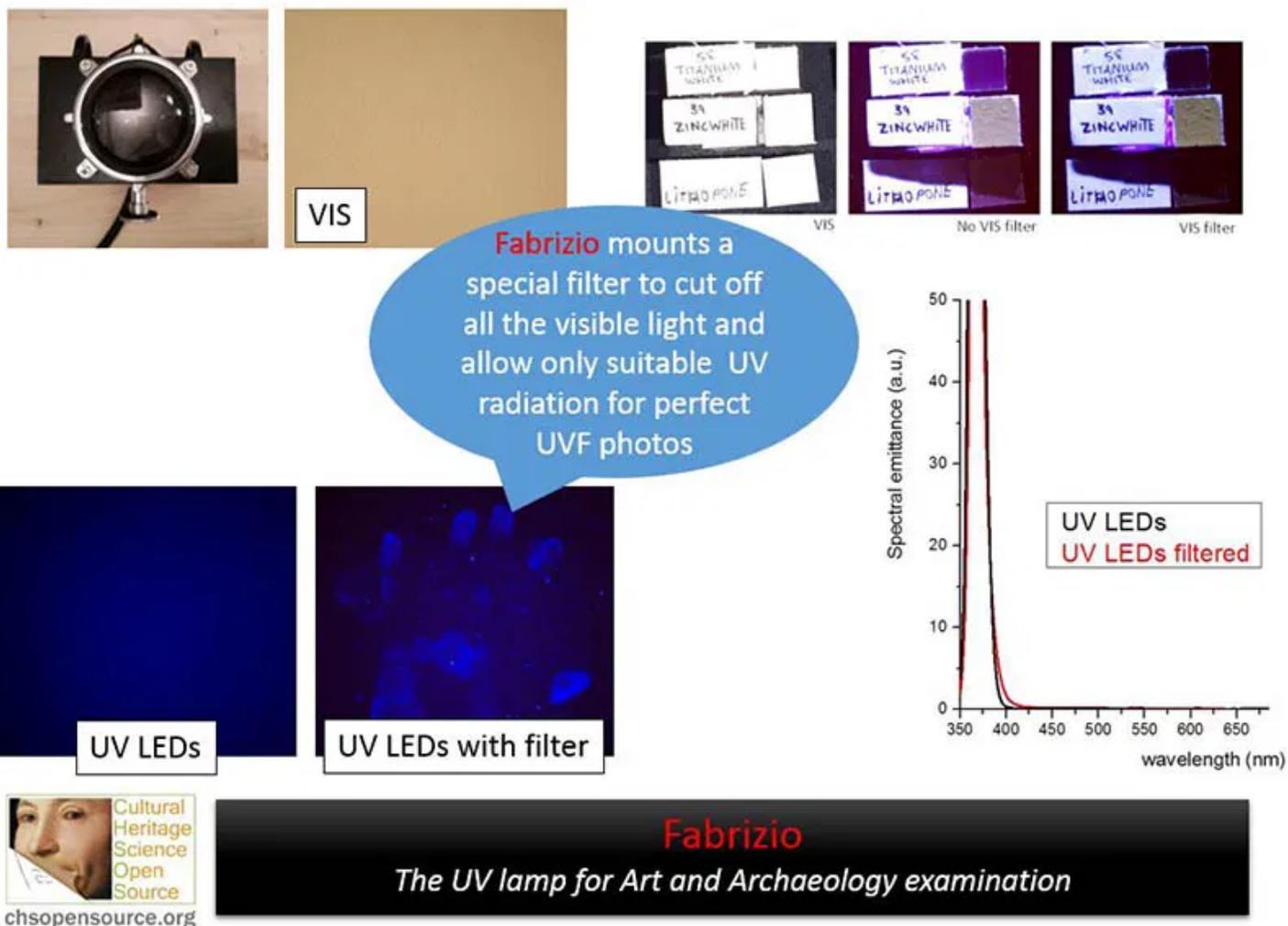
Fabrizio

The UV lamp for Art and Archaeology examination

Fabrizio delivers even and intense UV radiation over a 60-degree angle. Its radiation power is much more intense than the previous model.

High-quality pure UV output

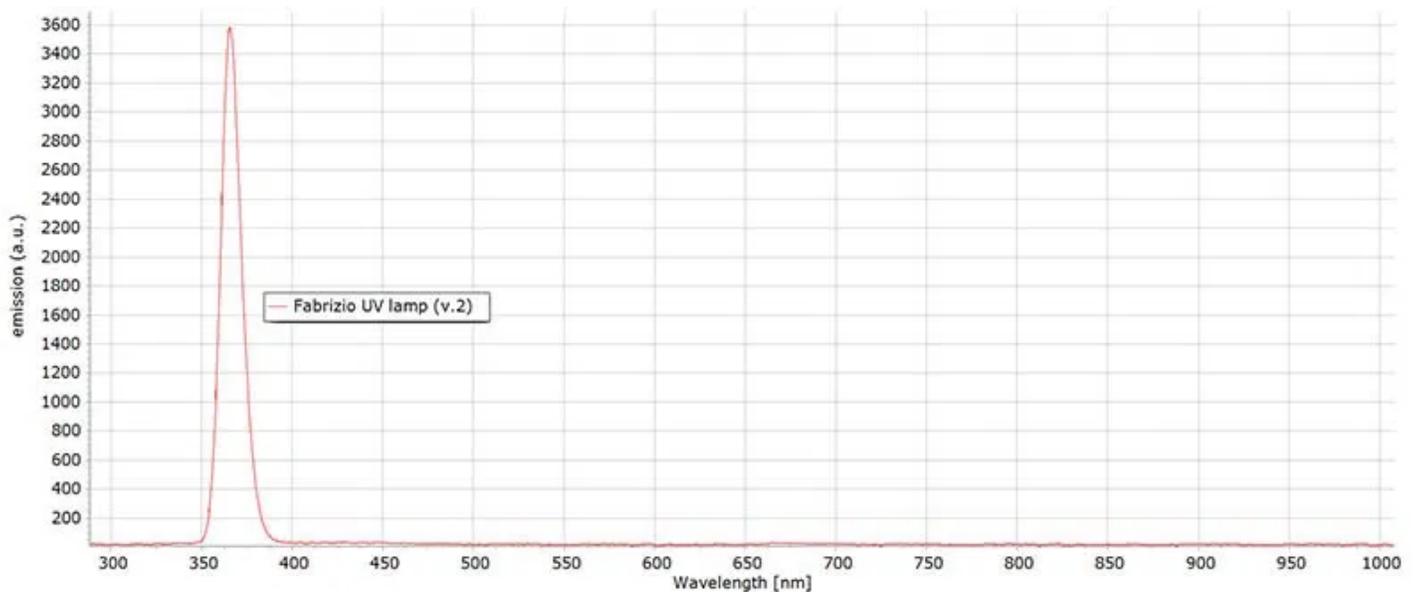
Ultraviolet Lamp - Cultural Heritage Science Open Source



Fabrizio mounts a special filter to cut off all the visible light and infrared radiation. It allows only suitable UV radiation for perfect **UVF** photos. The UV LEDs produce UV radiation but also a lot of undesired visible light and infrared radiation which need to be filtered out.

Fabrizio's special filter cuts off all the violet light and allows only the suitable UV radiation for perfect **UVF** photos.

Ultraviolet Lamp - Cultural Heritage Science Open Source



Fabrizio's spectral emission is pure UV radiation.

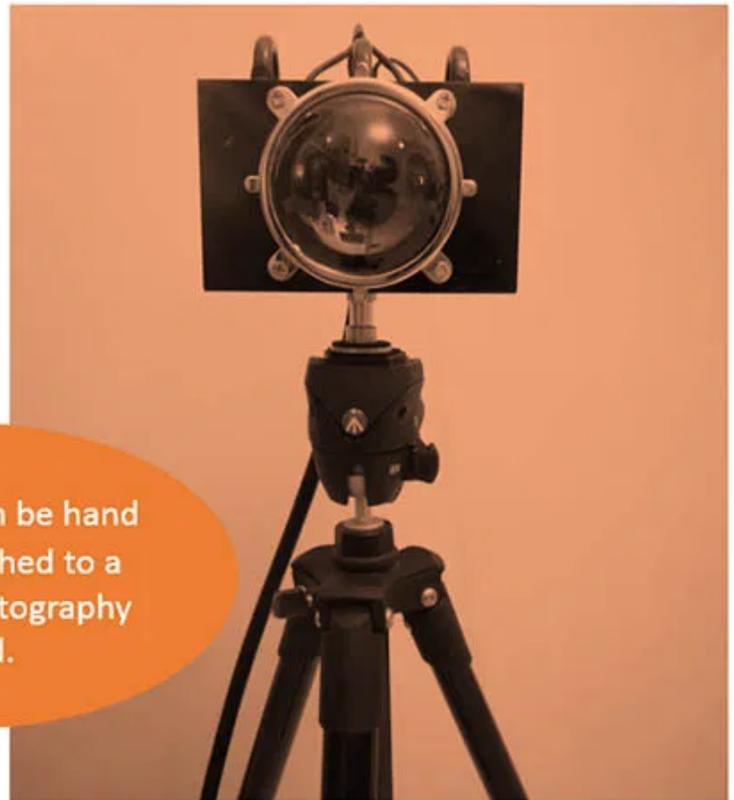
Hand-held and standard tripod adapter

Fabrizio comes with a handle and an adapter for photographic tripods, just as a camera. How convenient! We work on scaffoldings and on-site, not just in laboratories, so we need a versatile handling of the lamp.

Ultraviolet Lamp - Cultural Heritage Science Open Source



Ultraviolet Lamp - Cultural Heritage Science Open Source



Fabrizio can be hand held or attached to a standard photography tripod.



Fabrizio

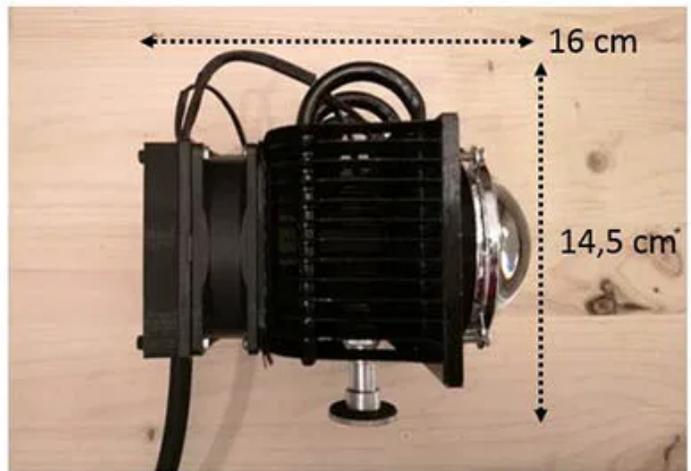
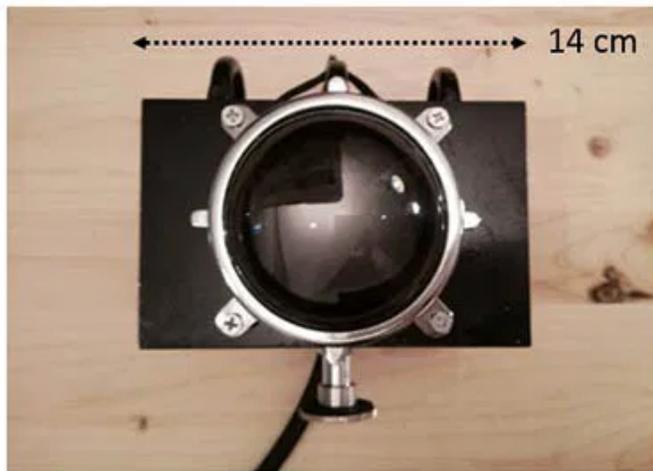
The UV lamp for Art and Archaeology examination

[Fabrizio](#) can be hand-held or attached to a standard photography tripod.

[Fabrizio](#) is for Traveling Art Professionals.

[Fabrizio](#) electronic components accept both international voltage standards 110 V and 220 V. You can use [Fabrizio](#) in any Country. [Fabrizio](#) weights just 1,5 Kg (3,3 pounds) and it measures just 16 x 14 x 14,5 cm.

Ultraviolet Lamp - Cultural Heritage Science Open Source



Fabrizio

The UV lamp for Art and Archaeology examination

Fabrizio weights 1,5 Kg (3,3 pounds) and measures 16 x 14 x 14,5 cm.

Ultraviolet Lamp - Cultural Heritage Science Open Source

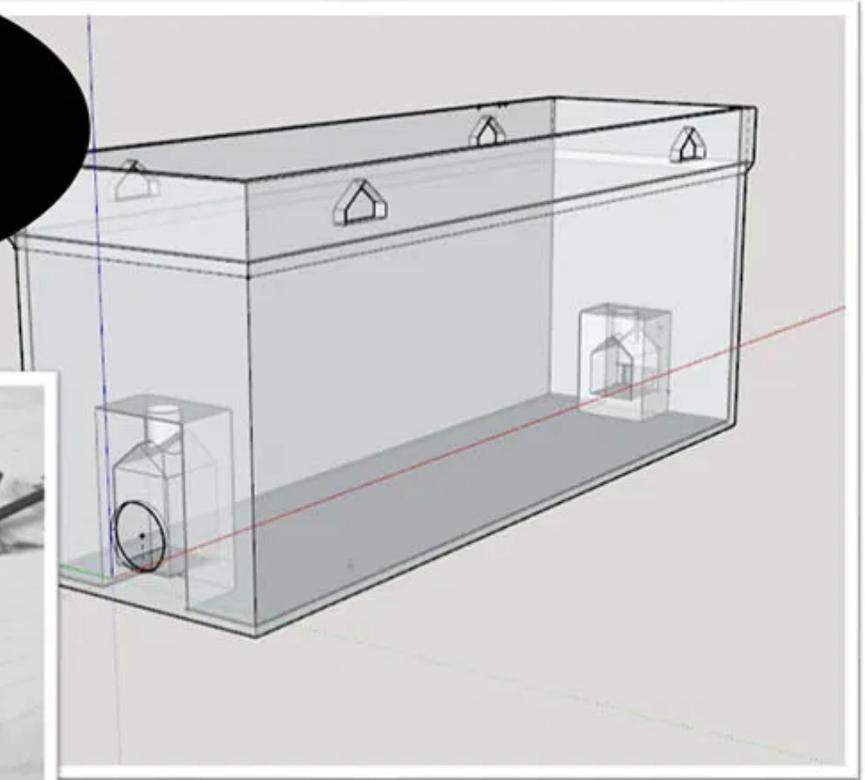


Fabrizio made at CHSOS workshop

Fabrizio is proudly crafted and assembled in the CHSOS workshop. We produce a few items and we keep production as prototype mode. This allows us to constantly improve our products.

Ultraviolet Lamp - Cultural Heritage Science Open Source

Fabrizio is crafted and assembled in the CHSOS workshop. Plastic components are 3D printed with high quality PLA.



Fabrizio

The UV lamp for Art and Archaeology examination

All of our tools work on both 110 V (USA) and 220 V (European) voltages. You can use them worldwide. We provide our tools with the original European power plug and a **free** power adapter to USA or UK standards depending on your choice.

Ultraviolet Lamp - Cultural Heritage Science Open Source



Questions received from our community.

How this UV lamp perform in comparison with standard UV tubes in terms of intensity?

It depends on what UV tubes you are using. [Fabrizio](#)'s radiant power is 14250 mW. You should check what is this value for your UV tubes. On the other hand, UV LEDs lamps, like [Fabrizio](#), are preferred to former UV fluorescent tubes for a number of reasons. UV LEDs lamps are much smaller and lightweight. They are much more portable than UV fluorescent tubes. Also, the UV LEDs can be filtered eliminating any visible noise in the violet region. UV fluorescent tubes are not filtered because they are very large and filtering them would be unpractical (very costly). A source of pure UV radiation allows documenting the actual color of the fluorescence materials without the usual blue cast due to the UV fluorescent tubes.

Ultraviolet Lamp - Cultural Heritage Science Open Source

We are committed to providing an environment-friendly service. Our tools are shipped with a QR code that points to their relative web pages which contain all the information about the items. For your convenience, you can print out those web pages by simply downloading their pdf version. Check for the download links.

Ultraviolet Lamp - Cultural Heritage Science Open Source

