

## Fabrizio – the Ultraviolet lamp for Art and Archaeology Examination

Fabrizio is the UV lamp specifically designed for Cultural Heritage professionals. At CHSOS, we tested several UV lamps already on the market, but none matched our standards. Fabrizio is packed with the features needed for daily art examinations, conservation, and scientific research.



Fabrizio – UV lamp

1.420,00€



## Specifications

Weight:

1,5 Kg (3,3 pounds).

Size:

16 x 14 x 14,5 cm.

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

## Ultraviolet Lamp – Cultural Heritage Science Open Source

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

Standard photographic tripod adapter

:yes.

Power cord

:5 m.



Fabrizio, UV lamp for Cultural Heritage Examination

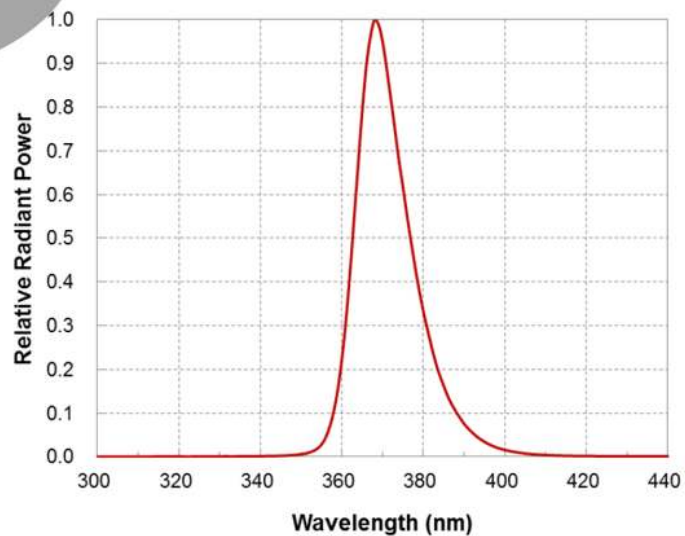
## UV LED Technology

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

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Spectral Power Distribution



**Fabrizio**

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## Intense UV lamp with superb high-power

Fabrizio boasts a stunningly strong radiant power of 14,250 mW, which distributes across a large surface. This impressive power is achieved thanks to the new AlInGaN-based thin-film vertical LED chip technology. Fabrizio features a grid of 10 series by 5 parallel micro LEDs, with a total power consumption of 50W and 1500 mA operating at 32V.

## Illuminated area

Fabrizio mounts a 60-degree focusing lens and so delivers even and intense UV radiation over a 60-degree angle. Using the math of a right-angled triangle we can calculate the Diameter of the irradiated circle as a function of the Distance lamp-surface. The formula is:

$$\text{Diameter} = 1.16 \times \text{Distance}$$

These are some example (rounded) values:

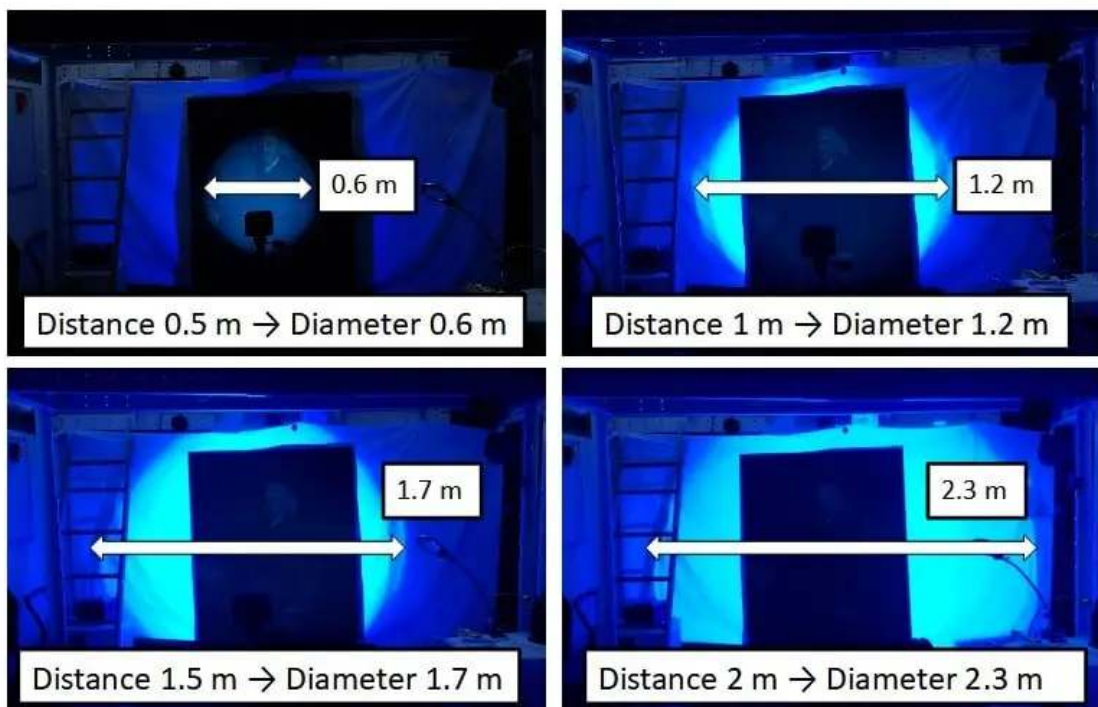
Distance 0.5 m -> Diameter 0.6 m

Distance 1 m -> Diameter 1.2 m

Distance 1,5 m -> Diameter 1.7 m

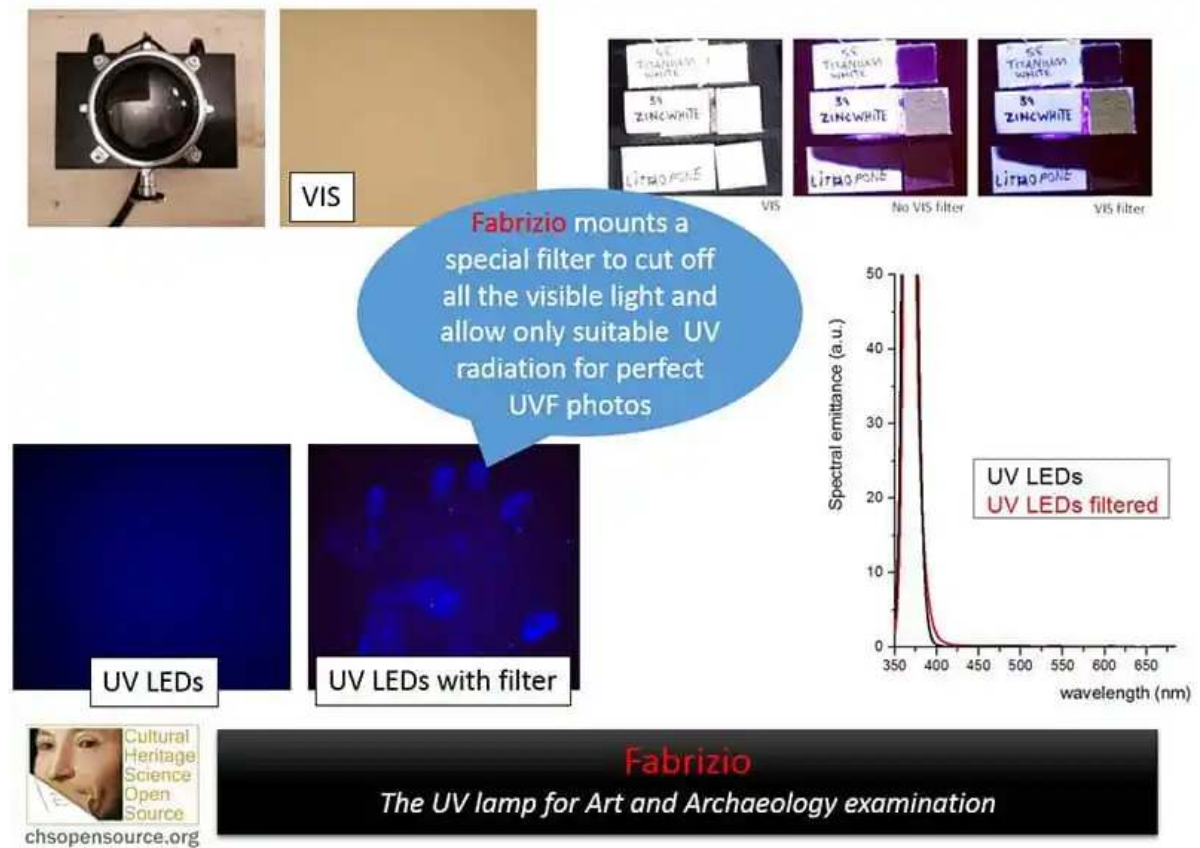
Distance 2 m -> Diameter 2,3 m

### UV lamp Fabrizio Illuminated area

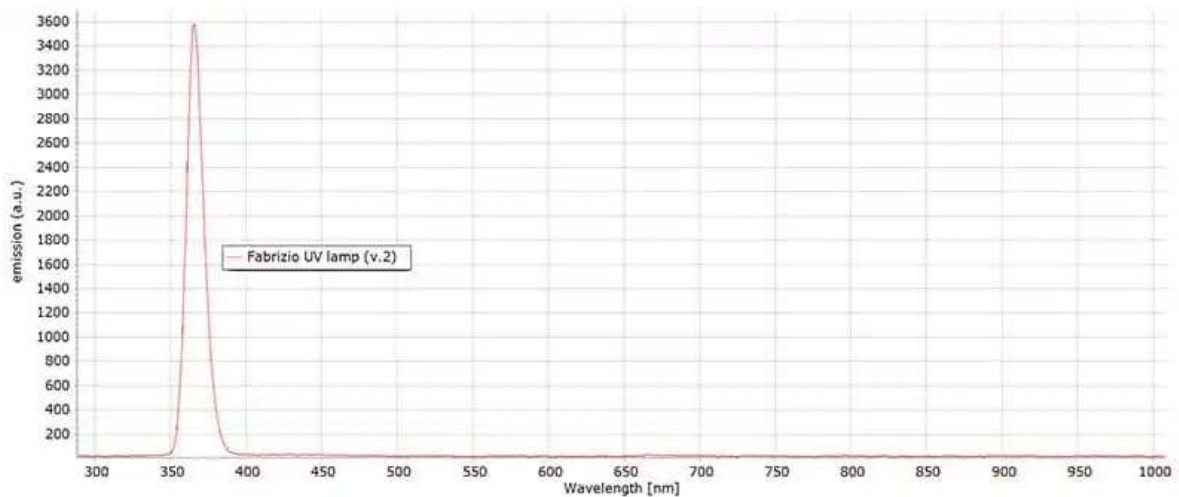


Fabrizio is equipped with a special filter that eliminates all visible light and infrared radiation, allowing only suitable UV radiation for perfect UVF photos. While the UV LEDs produce UV radiation, they also generate unwanted visible light and infrared radiation, which our filter effectively removes.

## High-quality pure UV output



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



Fabrizio's spectral emission is pure UV radiation.

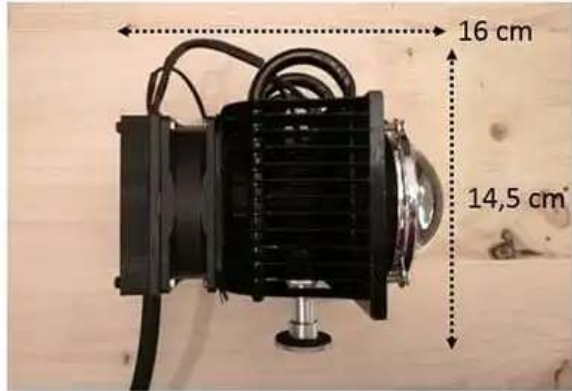
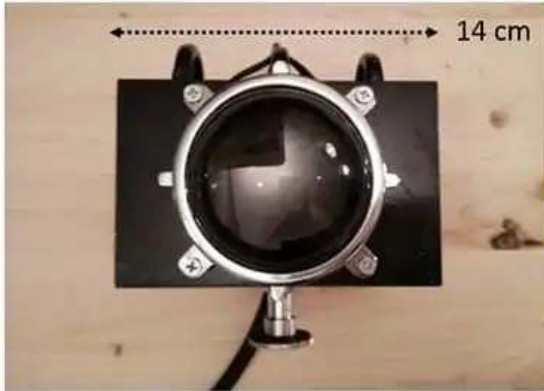
## Hand-held and standard tripod adapter



Fabrizio features a handle and an adapter compatible with photographic tripods, similar to a camera. This design allows for versatile handling of the lamp, making it suitable for use on scaffolding, on-site environments, and in laboratory settings.

## Fabrizio is for Traveling Professionals

Fabrizio's electronic components accept both international voltage standards, 110 V and 220 V, allowing you to use Fabrizio in any country. Weighing just 1.5 kg (3.3 pounds) and measuring 16 x 14 x 14.5 cm, Fabrizio is both lightweight and compact.



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## Applications

Find case studies and ideas on how to use your Fabrizio UV lamp [HERE](#).

## FAQs

Questions received from our community.

How does the Fabrizio UV lamp perform in comparison with standard UV tubes in terms of intensity?

It depends on the UV tubes you are using. Fabrizio's radiant power is 14,250 mW. You should check the radiant power value for your UV tubes. However, UV LED lamps like Fabrizio are preferred over traditional UV fluorescent tubes for several reasons. UV LED lamps are much smaller, lightweight, and more portable than UV fluorescent tubes. Additionally, UV LEDs can be filtered to eliminate any visible noise in the violet region. Filtering UV fluorescent tubes is impractical and very costly due to their large size. A source of pure UV radiation, like Fabrizio, allows for documenting the actual color of fluorescence materials without the usual blue cast associated with UV fluorescent tubes.