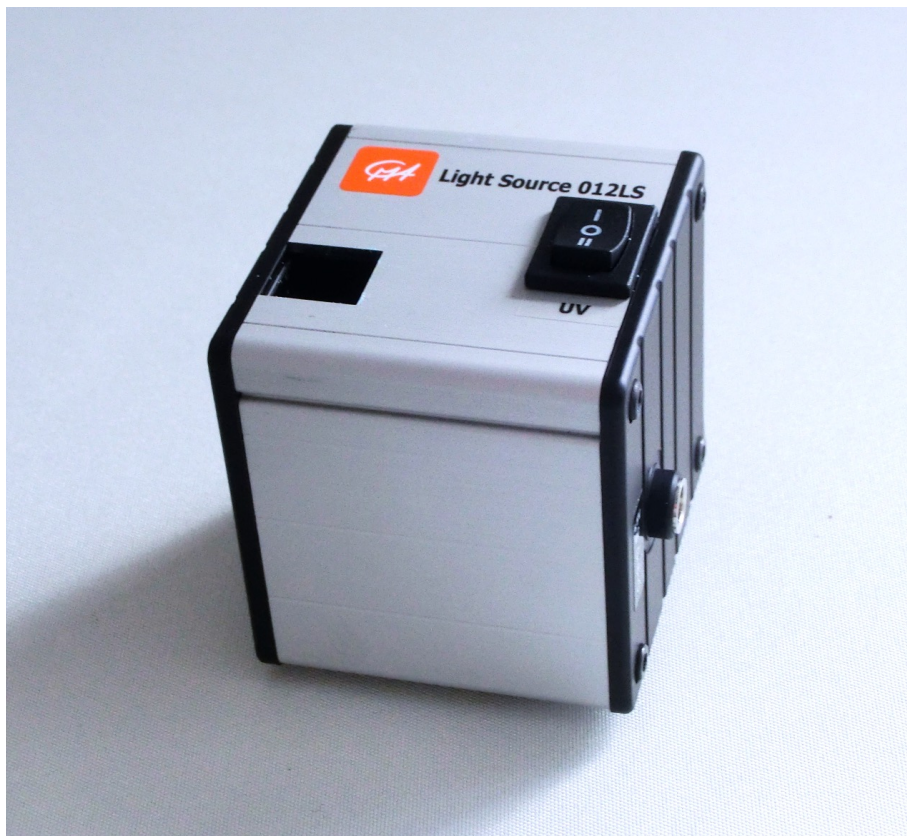


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# LIGHT SOURCE 012LS

FOR SPECTROMETER 012

USER'S GUIDE



**CENTRE FOR MICROCOMPUTER APPLICATIONS**

<https://cma-science.nl>

## Short description

The CMA Light Source 012LS is designed for use with the CMA Spectrometer 012 for measuring Transmission and Absorption spectra of various materials. It has a built in cuvette holder, which is suitable for standard cuvettes for liquid samples or in which small solid materials can be placed.

The Light Source 012LS consists of two different light sources – white LED and UV LED (400 nm). A switch located at the top of the device allows choosing the light source: White (I) or UV (II).

Ten standard cuvettes and a metal guiding rail are included with the Light Source. The metal rail allows proper aligning of both devices when they are used together. The device is powered via an external power adapter delivered with the light source.



The Spectrometer (left) can be connected to the Light Source (right), as shown on the photo. The metal guiding rail helps to correctly position both devices.

## Using cuvettes

The Light Source is designed to use standard disposable polystyrene cuvettes. Macro cuvettes have a 10 mm path length and are 45 mm high. The total volume of a cuvette is 4 mL. Individual plastic cuvettes vary slightly in the amount of light they absorb. For most experiments, this variation will not have a noticeable effect on the experimental results and you may choose to ignore these differences.



A cuvette containing a sample solution should be inserted into a hole.

## Technical Specifications

<i>Light source</i>	White LED UV LED (400 nm)
<i>Cuvette holder</i>	For standard cuvettes: 10 mm path length and 45 mm high 10 standard cuvettes included
<i>Input voltage</i>	4.5 V DC, via an external power adapter (included)
<i>Dimensions</i>	60 mm x 30 mm x 54 mm

### **Warranty:**

The Light Source 012LS is warranted to be free from defects in materials and workmanship for a period of 24 months from the date of purchase provided that it has been used under normal laboratory conditions. This warranty does not apply if the product has been damaged by accident or misuse.

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**Note:** *This product is to be used for educational purposes only. It is not appropriate for industrial, medical, research, or commercial applications.*

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Rev. 05/04/2019