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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 the 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 is connected to the Spectrometer via a fiber optics cable delivered with the Spectrometer.

The device consists of two different light sources – white LED and UV LED (400 nm). A switch located at the rear of the device allows choosing the light source: White (I) or UV (II). A potentiometer located on the top of the device allows for lowering the light brightness. The device is powered via the included external power adapter (4.5 V DC).



## 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. Ten standard cuvettes are included. Note that 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.

## 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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