

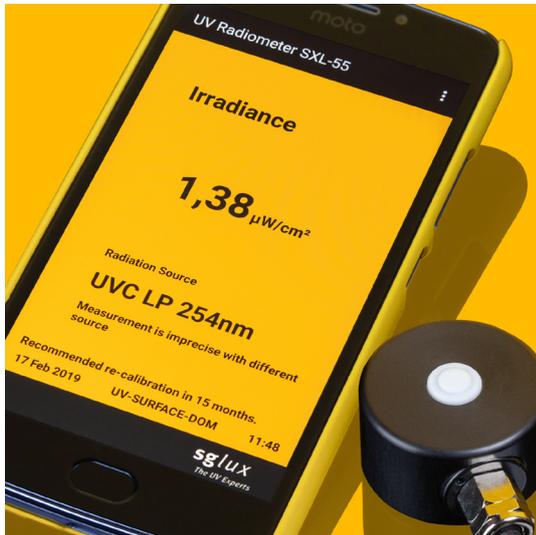
UV Radiometer SXL 55-UVC

UV radiometer / dosimeter for measurement of Hg low pressure lamps



▶ 1/2

GENERAL FEATURES



The UV Radiometer SXL 55-UVC is a radiometer / dosimeter for measurement of the germicidal irradiation and dose of a UVC Hg low pressure source at a defined position. It consists of a PTB traceably calibrated UVC sensor and a smartphone.

By default sensitivity range is 0 ... 200 mW/cm².

Besides chemical treatment, UVC sterilization is applied to disinfect air and tools in hospitals, doctor's offices, pharmacies as well as food and pharmaceutical production facilities and public washrooms. In most cases the needed UVC radiation is generated by Hg low pressure lamps.

However, surfaces in other facilities that are open to the public are not yet object of systematic disinfection. The COVID19 pandemic raised the attention to also disinfect these locations, e.g. disinfection of air and surfaces in open office environments, factories, depots, public transportation, washrooms and lockers, surface disinfection of packages, disinfection of tools in workshops and production facilities.

While designing and using of UVC disinfection systems it is important to ensure that the surface to be disinfected will be irradiated with a sufficient germicidal UVC dose. The International Ultraviolet association's website (iuva.org) publishes a good overview at the state of the art and recommended irradiation doses for different purposes.

GETTING STARTED

Connect the sensor to the smartphone's USB terminal and start the sglux radiometer app.

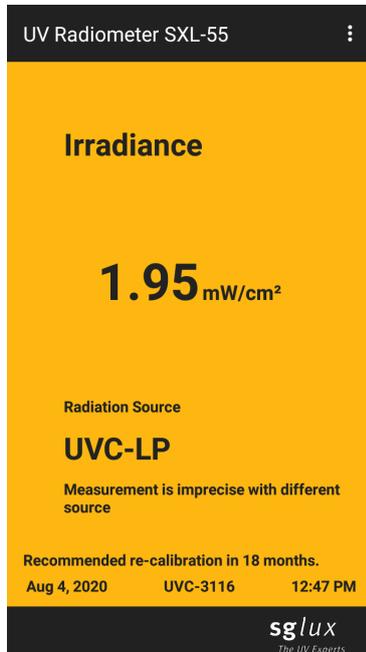
The radiometer app offers two different display screens. The standard view displays the irradiance as well as the UV source to be used for measurement (a Hg low pressure lamp). The advanced view offers the opportunity of a dose measurement and displays the sensor's temperature.



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STANDARD VIEW

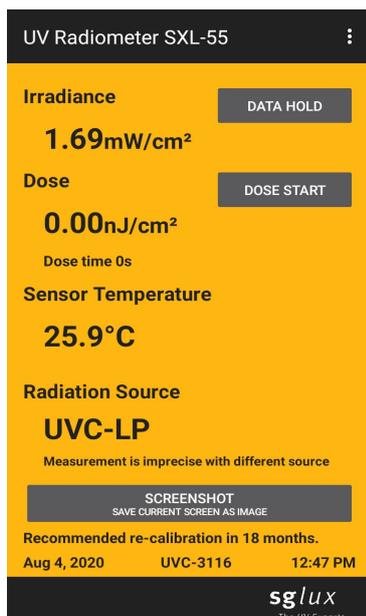


← Drop-down menu
Skip to advanced view

← Information about radiation source to which the sensor has been calibrated is displayed (a Hg low pressure lamp).

← Information about date, time, sensor type and serial number and remaining time until recommended re-calibration.

ADVANCED VIEW



← This button freezes the display (e.g. to read the information easily or to take a screenshot).

← Start of the dose measurement (integration of the irradiance over the time). After having started, the measurement can be stopped and then either continued or it can be set back to zero.

← Internal sensor temperature

← The screenshot function stores the actual display as a jpg-file on the smartphone's homescreen.