

Spectrophotometer (spec)

Principle:

The human visual colour perception is very subjective and not a reliable measurement method. With a spectrophotometer colours can be precisely and accurately measured.

The working principle of the Spectrophotometer is based on **Beer-Lambert's law** which states that the amount of light absorbed by a color solution is directly proportional to the concentration of the solution and the length of a light path through the solution.

Depending on the wavelength of the light source, it can be classified into multiple groups, eg if the light used is in the UV range, it would be a UV-spec.

Current Model

The Colorlite sph900 is a Flexible measuring system, suitable for a large number of measuring applications.

- Can measure very small and curved surfaces.
- Allows for colour measurement of surfaces
- Measure difference between the samples and standards stored on the device.



Video link: https://www.youtube.com/watch?v=PgJiqv-_LMU



Instrument Description

Sub Folder: Physical Analysis



Typical samples:

Samples analysed can be solid, liquid and powders using the adaptor.

Standards:

Samples are assessed using current standards or to customer requirements.

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