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A colorimeter is a device that is used in Colorimetry. It refers to a device which helps specific solutions to absorb a particular wavelength of light. The colorimeter is usually used **to measure the concentration of a known solute in a given solution** with the help of the Beer-Lambert law. The colorimeter was invented in the year 1870 by Louis J Duboscq.

A colorimeter's usage is often based on the Beer-Lambert law, which tells us that the concentration of a solute is proportional to its absorbance. The colorimeter starts with a simple light source. With the help of a lens and tristimulus absorption filters, the beam of light becomes a single, focused wavelength which then moves through to the sample solution. On the other side of the solution is a photocell detector that identifies how much of the wavelength got absorbed. The detector is connected to a processor and digital display that offers a readable output of the results.

Photoelectric Colorimeters: Colorimeter for measuring OD and cell concentration.

DIGITAL COLORIMETER (MAKE: OPTICS)



DIGITAL PHOTOCOLORIMETER / COLORIMETER CE

Wave Length Range : 400 to 700 nm
Resolution : 0.01
Absorbance : 0 – 1.99A
Display : 2½ digit LED
8 Filters : 400nm, 420nm, 480nm, 500nm, 520nm, 540nm, 620nm, 680nm

Wavelength range	400 to 700 nm
Resolution	0.01
Absorbance	0 – 1.99 A
Photo detector	Silicon photodiode/photocell
Volume	1 ml sample size
Display	2 ½ digit LED
Light source	6.8 V, 0.3-amp Tungsten lamp
Sample system	10 mm path length matched glass test tubes
High Std. glass filters	8 Standard filters
Filters	400,420,480,500,520,540,620 & 680 nm
Weight	3 Kgs approx.
Power supply	230v ac ± 10%, 50hz with in-built stabilizer
Accessories	Test tube set of 5, spare light source, dust cover, Instruction manual