Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Digital Photo Colorimeter 5 Filters

Product Code :

SLE/LI/01



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Description :

Digital Photo Colorimeter 5 Filters (Product Code: SLE/LI/01) is a mains-operated colorimeter used to measure the optical density of coloured solutions and work out their concentration in school, college and quality-control laboratories. It covers 400 to 700 nm with five glass filters, shows OD from 0 to 1.99 on a 2½ digit LED display and needs only 1 ml of solution per reading. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer and laboratory equipment supplier in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Wavelength range	400–700 nm
Filters	5 standard glass filters: 420, 480, 540, 620 and 680 nm
Output	Optical density (OD) 0 to 1.99
Resolution	0.01 OD
Accuracy	0.5% FSI
Display	2½ digit LED
Minimum sample volume	1 ml
Detector	Selenium photocell
Light source	6.8 V, 300 mA
Power	230 V ±10%, 50 Hz AC (mains operated)
Accessories	Test tube set of 5, spare lamp, dust cover, manual
Product code	SLE/LI/01
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is a Digital Photo Colorimeter Used For?

A colorimeter passes light of a chosen colour through a solution and measures how much is absorbed; by the Beer–Lambert law, the optical density rises with concentration. Students prepare a set of standards, plot a calibration line and read unknown samples against it, for example copper sulphate solutions read with the 620 nm filter. The same instrument follows reaction rates, supports colour-reagent water tests and runs biochemistry practicals, which is why a colorimeter is a staple instrument in lab teaching across India.

Choose the filter whose colour is complementary to the solution, zero the display with a blank in the same kind of test tube, and wipe each tube clean before inserting it. Let the lamp stabilise for a few minutes before taking readings, and replace the dust cover after the session.

Wha