

Digital Photo Fluorometer Model RS-681 is designed for precise analysis of fluorophors such as vitamins, quinine, steroids, fluoresce in, metal complexes, etc. The Fluorescence is caused by the absorption of radiant energy and the re-emission of some of its energy in the form of light. In fluorescence, the excited molecule returns to the ground state immediately after excitation, when the fluorescent molecule is excited at the fixed wavelength (primary filter). The amount of light emitted is measured at the particular wavelength (secondary filter). Fluorometer method for the determination of fluorophors is more sensitive than the Colorimetric method.

The Primary Filters – Corning 5840 & Corning 5113 and secondary filters - Corning 4308, Corning 3486 and Corning 3385 mounted on holders are supplied with the instrument The fluorescence is collected at 90 degree angle to minimize the interference of excitation source to fall on the sample solution only during a measurement.



Specifications

Fluoro Sensitivity	Full scale deflection obtained with 1 ppm quinine sulphate in 0.1 N sulphuric acid (primary wavelength 360 nm)
Display	3 digit bright red seven segment LED display
Excitation Source	12V, 50W Tungsten Halogen Lamp
Sensitivity Range	Adjustable in 4 ranges
Primary Filters	Corning 5840 and Corning 5113 mounted on holders
Secondary Filters	Corning 4308, Corning 3486, Corning 3385 mounted on holders
Detector	Highly sensitive wide range photodiode/cell
Sample Test Tube	15 mm (D) x 80 mm (H)
Minimum Sample	4 ml
Power	230 V ± 10%, 50 Hz. AC
Dimension	260 x 335 x 160 mm (Approx.)
Weight	4.5 Kg. (Approx)
Standard Accessories	Primary and Secondary filters: A set of 5, Test Tube: A set of 5

