

# Digital Photo Fluorometer

ZI 14038



## Digital Photo Fluorometer : ZI 14038

It is precise analysis of fluorophors such as vitamins, quinine, steroids, fluorescein, 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 fluorescnet 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 filers - Corning 4308, Corning 3486 and 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 bring a measurement.

### FEATURES :

3 Digit Seven Segment LED Display

Covers Entire Visible Range

Determines The Concentration of & Flurophors & Quinine

## SPECIFICATIONS

Fluoro Sensitivity	Full scale deflection obtained with 1ppm quinine sulphate in 0.1N sulphuric acid (primary wavelength 360nm)
Display	3 digit 7 segment red LED
Excitation Source	12V, 50 W 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/ Photocell

Sample Test Tubes	15mm (D) x 80 mm(H)
Minimum Sample	4 ml
Power	230V $\pm$ 10% AC, 50 Hz
Weight	4.5 kg (approx.)
Dimensions	(LxBxH) (260x335x160)mm
Accessories	
Test Tubes	A set of 5
Dust Cover	1 no.
Instruction Manual	1 no.
Primary & Secondary Filters	A set of 5

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