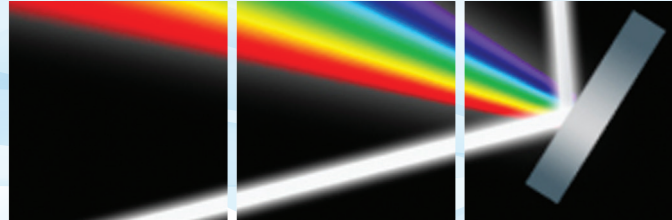


EasyLife™ FP

Low Cost T-Format Filter Fluorescence Polarimeter

ELEMENTAL ANALYSIS
FLUORESCENCE
GRATINGS & OEM SPECTROMETERS
OPTICAL COMPONENTS
FORENSICS
PARTICLE CHARACTERIZATION
RAMAN
SPECTROSCOPIC ELLIPSOMETRY
SPR IMAGING

Ideal for a variety of fluorescence polarization assays



Optical Building Blocks (OBB) is pleased to announce the introduction of the all new EasyLife™ FP! The EasyLife™ FP spectrometer is a compact, easy to use instrument that can detect fluorescence and fluorescence polarization. It is suitable for routine fluorescence or fluorescence polarization assays as well as for assay development and laboratory analysis.

The EasyLife™ FP fluorescence polarimeter combines low detection limits with robustness and easy handling. Typical application areas are homogenous fluorescence immunoassays and fluorescence polarization immunoassays (competitive and non-competitive) as well as studies and evaluations of slow reaction kinetics (mycotoxins, hormones, peptides, haptens, proteins).

Another common application is protein coupling immunoassays based on the reaction of highly specific antibodies with the analyte. It is often necessary to couple analytes (antigens, haptens) to proteins for the production of antibodies. The EasyLife™ FP carries out coupling reactions using the proteins of your choice (BSA, OVA, etc.).

Features and Benefits

- Sensitive fluorescence polarization (FP) assays
- T-format optical configuration
- Choice of illuminator and detection wavelength
- Temperature control
- Simple
- Compact
- Affordable

Applications

- Homogenous fluorescence immunoassays
- Fluorescence polarization immunoassays (competitive and non-competitive)
- Reaction kinetics (mycotoxins, hormones, peptides, haptens, proteins)
- Protein coupling immunoassays
- Antigen-protein coupling
- Hapten-protein coupling



Specifications

Standard deviation of polarization measurement	1 mP (0.001) when measuring 1 nM fluorescein
Accuracy	1 mP or 1% whichever is higher
LED's wavelength range (nm)	460–490 (470 nm LED), 587–597 (590 nm LED)
Optical power, mW	14 (470 nm LED), 23.5 (590 nm LED)
Intensity stability, % per 1 °C of room temperature	Less than +/- 1%
Peltier temperature stabilization accuracy, °C	+/- 0.1
Sensor temperature range, °C	15–50
Detector spectral response range, nm	185–680 nm
PMT gain control range, orders of magnitude	7
PMT output voltage range, V	0–10
Amplifier time constant, ms	25
Dimensions (W x D x H)	15 x 12.5 x 8 (inches), 381 x 317.5 x 203 (mm)
Weight	19 (lbs), 9 (kg)
Sample holder	10 x 10 mm cuvette (micro-cuvettes available), 8 mm diameter test tube (outside diameter)
Power supply AC voltage	100–240
Data acquisition	Two differential analog channels for PMT output, plotting in real time One differential analog channel for cuvette holder temp with real time indicator 12 bit resolution Maximum acquisition rate is 10,000 points/second/channel (total 30,000 samples per second per 3 channels)
QuickStart DVD	Included



OPTICAL BUILDING BLOCKS



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