



TIRF Technologies

Sensing Biomolecular Interactions

Total Internal Reflection Fluorescence Accessories for Spectrofluorometers



Transform your spectrofluorometer into a super-sensitive TIRF biosensor instrument

Install/uninstall TIRF flow system in less than one minute

Employ TIRF in combination with optional electrochemical and temperature control

TIRF Accessory for Spectrofluorometers

TIRF Technologies supplies TIRF flow systems TA1004 as factory aligned accessories, assembled on a sample compartment of the fluorometer of your choice. Our TIRF systems have been successfully used with SPEX Fluorolog and Fluoromax, ISS K2, SLM AB2, 4800 and 8100, Shimadzu, Hitachi, Varian Eclipse, PTI as well as custom-built fluorometers. TIRF is an exceptionally sensitive and informative technique. No other technique exists that can monitor fluorescence lifetime, polarization, anisotropy decay, quenching, resonance energy transfer (FRET), recovery after photobleaching (FRAP), and correlation spectroscopy (FCS) for analysis of biomolecular interactions in real-time and with limit of detection at the level of single molecules. TIRF accessory TA1004 can be interfaced with our computer-controlled fluidics SmartFlow TF1005 that transforms your fluorometer to a computer-controlled TIRF biosensor system. Electrochemical and temperature control are available as options. Chemically clean and chemically modified TIRF slides with reactive amine, aldehyde, epoxy, and biotin groups, streptavidin and poly-L-lysine-coated TIRF slides and reagent kits for surface immobilization of biomolecules are available as consumables.

Supported Spectrofluorometers:

SPEX Fluorolog and Fluoromax
PTI, ISS K2
Varian Eclipse
SLM AB-2, 4800, 8100
Shimadzu, Hitachi,
and custom-built fluorometers



Computer-controlled fluidics SmartFlow TF1005

Analysis of Biomolecular Interactions

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