

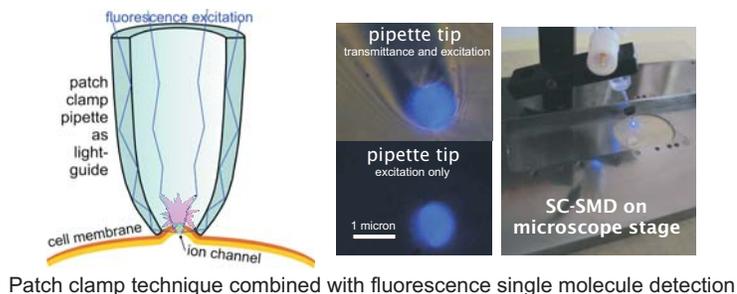
iDiagnostics (iTIRF Arrays)
TIRF Spectroscopy
TIRF Microscopy



TIRF Labs

Total Internal Reflection Fluorescence

Single ion Channel Single Molecule Detection



iDiagnostics

cellphone based molecular diagnostics



We extended TIRF into 3rd dimension and invented iDiagnostics
 Now you can hold a hospital laboratory in the palm of your hand

**Turnkey Single Molecule Detection
 TIRF Microscopy Station**

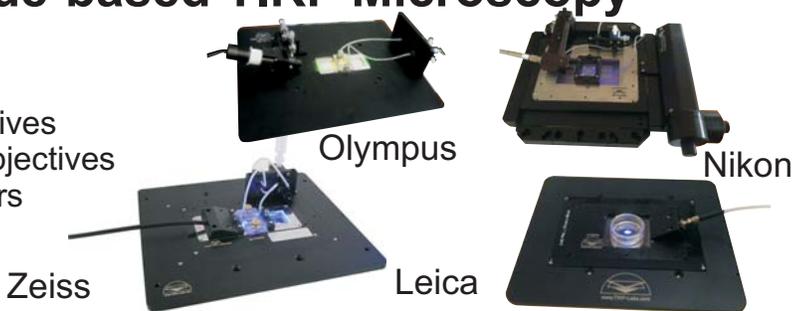
Modular TIRF station includes:

- Fluorescence microscope
- Ig-, p-, or/and o-TIRF microscopy flow systems
- Low light EM CCD camera Andor Technologies
- Multi-color computer-controlled illuminator
- Digital fluidics SmartFlow
- Potentiostat and/or wave-function generator
- TIRF Studio software for instrument control



Prism-, and Lightguide-based TIRF Microscopy

- Superior signal-to-background ratio
- Well-suited for single molecule detection
- Use YOUR microscope and YOUR objectives
- Use with dry, water-, and oil-immersion objectives
- Use Xenon lamp, LED, or laser illuminators
- Open perfusion or closed flow chambers
- Install/uninstall in less than one minute



TIRF Accessories for Fluorometers

- **TIRF Accessory** transforms your spectrofluorometer into a super-sensitive TIRF biosensor instrument
- Optional electrochemical, DEP and temperature control
- **SmartFlow** Fluidic System allows to run unattended TIRF experiments, measure sensograms to derive k_{on} and k_{off}
- Advanced fluidics allows for handling nanoliter volumes

