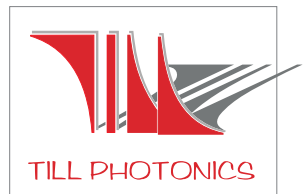


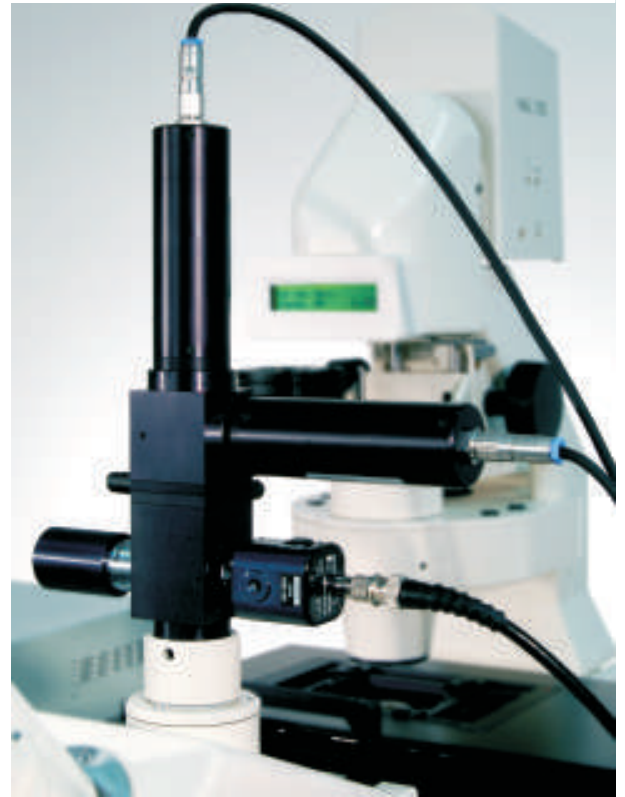
Photometry

single and dual emission



fast
easy
sensitive

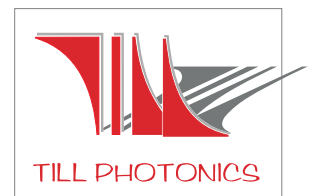
Viewfinder and
two detectors
mounted on an
Axiovert 200



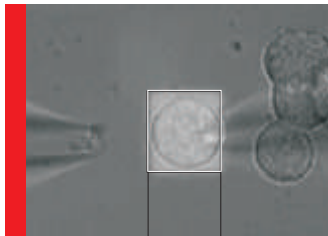
- FAST data acquisition in combination with the Polychrome V
- Viewfinder allows an EASY adjustment of the detection area for improved signal-to-noise ratio
- Excellent SENSITIVITY and low noise due to special high gain hybrid amplifier and optimized optics

do it **b**right

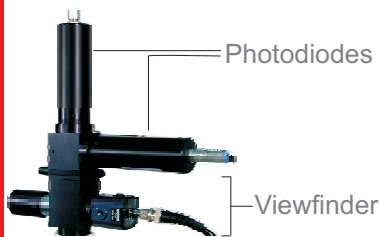
Photometry



Viewfinder / Detectors



user adjustable
detection area



- Size and position of the aperture stop are easy to adjust under direct visual control on a video monitor
- Simultaneous fluorescence measurements and red light visualization
- up to 97% quantum efficiency due to solid state detector technology
- Available with photodiode or photomultiplier tube detectors
- Single or dual emission versions available with custom-made filter sets for dual emission
- Post-detector signal conditioning includes gain, offset and optional on-board integration
- Available for all major microscopes

Photometry controller



- Sampling frequency of up to 1 KHz
- Integrated data of two excitation wavelengths are output to separate channels
- Microprocessor based control unit for precise timing of the acquisition
- Execution of protocols either by RS-232 commands or TTL pulse
- Easy feed of the photometry signals into various other data acquisition packages from Axon or Heka

Polychrome V monochromator



- The perfect light source for fast and flexible wavelength selection
- Brightness and stability of light output are unmatched
- With its fully digital driven scanner you can switch between any wavelength in less than 2 ms

Applications

- Ratiometric and single wavelength fluorescent measurements of different ions (Ca^{2+} , Cl^- , Na^+) and pH
- FRET measurements on a fast timescale