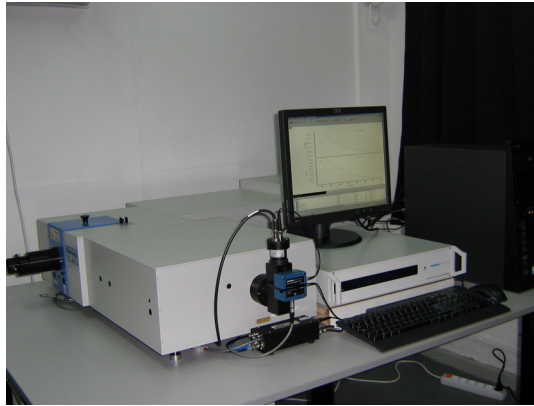


Fluorolog-3 spectrophotometer, model FL3-22, Horiba Jobin Yvon



Technical details:

- excitation source: 450 W Xe lamp
- monochromators (excitation emission): f/3.6 Czerny-Turner, double grating, all reflective optics
- diffraction gratings: classically ruled, 1200 tr/mm; blaze 330nm (MEx) and 500nm (MEem)
- emission signal detector: at room temperature-R928P side-on photomultiplier tube (180-850nm);
- software package: FluorEssence 2.0 (powered by Origin 7.5)

Performances:

- excitation range: 240-600nm
 - emission range: 290-850 nm
 - photomultiplier response linearity: 2×10^6 cps (in photon counting mode)
 - reference detector: stabilized Si photodiode (200-980nm)
 - dispersion (double grating monochromatore): 2.1 nm/mm
 - slit settings (bandpass): 0-15 nm.
- TCSPC LIFETIME UPGRADE-Lifetime range: 200ps-100 μ s
- excitation sources: pulsed laser diode: 440 nm; 375 nm and UV LED: 280 nm
 - software for single photon counting data acquisition: DataStation 2.3, software for decay analysis: DAS6