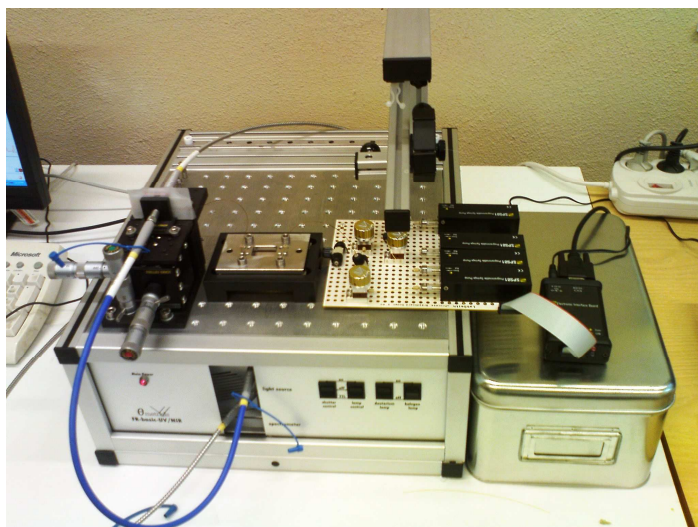


UV-NIR SPECTROPHOTOMETER FOR ABSORBANCE, REFLECTANCE AND FLUORESCENCE MEASUREMENT



INSTRUMENT MANUFACTURER: θ-metrisis
DETECTOR MODEL (CCD): S7031-1006

Hamamatsu

SPECTROMETER MODEL: QE65000-ABS
Ocean Optics.

LAMP MODEL : (1) DT-MINI-2-GS Ocean Optics and (2) Tungsten Lamp

INSTALLATION PLACE: Microfluidics Characterization Laboratory, (room No16-new building), Department of Microelectronics

DESCRIPTION:

Absorbance or fluorescence measurements of liquids, or reflectance measurements of solids

SPECIFICATIONS

1. Optical fibers: QP200-2-SR-BX, 200 μ m core, Premium grade Solarization-Resistant High OH content fiber, 200nm – 1100nm wavelength range, 2m long, Stainless-steel BX jacket.
2. Deuterium lamp: 200 to 410 nm
3. Tungsten lamp : 360 to 2000 nm
4. TE-cooled
5. 1044x64 total pixels, 1024x58 active pixels
6. Sensitivity ~ 0.065 counts/e-
7. Quantum efficiency 90% peak, 65% at 250 nm
8. Optical resolution 2.3 nm
9. Signal to noise ratio (at full signal) 1000:1
10. Dark noise 2RMS counts
11. Grating HC1-QE, 300lines composite blaze, provides 200 nm – 950 nm range
12. OFLV-QE-200 Order-sorting detector filter, 200 nm – 925 nm

APPLICATIONS

1. Chromatography measurements
2. Absorbance measurements
3. Fluorescence measurements

CERTIFICATION/ACCREDITATION

The facility is not certified or accredited.

CONTACT PERSON

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