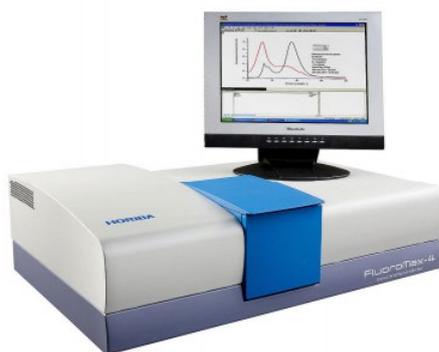


# Spectrofluorometer



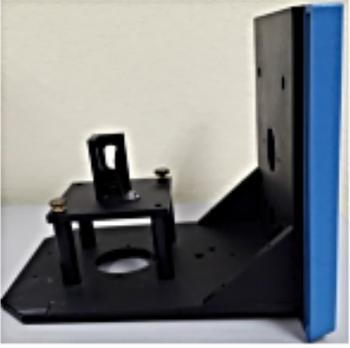
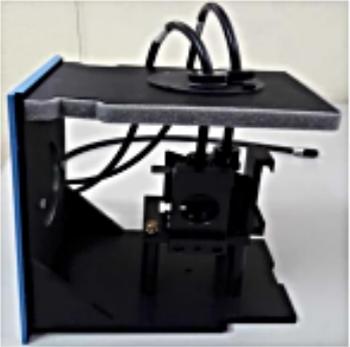
Brand : HORIBA  
Model : FluoroMax 4+  
Custodian : Kamolchai Tongpueak  
Location : 202 Room, SC1 Building, Salaya Campus

## Description and Specification:

|                                 |  |
|---------------------------------|--|
| Optics                          | All reflective optics for high sensitivity at all wavelengths and for microsamples                     |
| Source                          | 150W CW Ozone-free xenon arc lamp  |
| Monochromators                  | Czerny-Turner design with plane gratings for optimized focus at all wavelength and minimum stray light |
| Exciting grating                | 1200 groove/nm blazed at 330 nm  |
| Emission grating                | 1200 groove/nm blazed at 500 nm  |
| Optional second grating         | 600 groove/nm blazed at 1 $\mu\text{m}$ , gold coated, on a computer controlled turret                 |
| Bandpass                        | 0 to 30 nm, continuously adjustable  |
| Wavelength Accuracy             | $\pm 0.5$ nm   |
| Integration Time                | 1 ms – 160 s   |
| Base detector                   | Photomultiplier R928P, spectral coverage 200 nm – 870 nm   |
| Reference Detector              | UV enhanced silicon photodiode   |
| Transmission Detector (optimal) | 16,000:1 (RMS method), 6,000:1 FSD See signal-to-noise ratio discussion                                |
| Dimensions                      | 83 cm (w) $\times$ 28 cm (h) $\times$ 48 cm (d)  |
| Weight                          | 34 Kg  |
| Lifetime options:               |  |

|                                       |                   |
|---------------------------------------|-------------------|
| TCSPC:                                |                   |
| Lifetime range with standard detector | <150 ps to > 10 s |

Accessories :

|   |  |
|---|--|
| <p>1. Liquid sample holder</p>                              |    |
| <p>2. Solid and thin film holder</p>                        |   |
| <p>3. Liquid sample holder with temperature and stirrer</p> |  |
| <p>4. Fiber optic probe</p>                                 |  |