

## Microplate Reader



**Brand:** TECAN

**Model:** Spark 10M

**Custodian:** Nij kramol

**Location:** K635 Room, 6<sup>th</sup> Floor, Chaloeprakiet Building, Phyathai Campus

### **Description:**

The Spark 10M multimode microplate reader is designed to offer greater flexibility and performance for cell biology and genomics customers. From microbiology research and cell-based assays to rapid DNA quantification, it delivers a combination of advanced capabilities – including precise regulation of environmental conditions and exceptional ease-of-use to simplify your daily work. It offers the choice of filter- or Quad4 Monochromators™-based measurements, as well as patent-pending High Speed Monochromators for absorbance scans.

**Detection:** Absorbance, Absorbance Scan, Fluorescence Intensity, Fluorescence Intensity Scan, Fluorescence Polarization (FP), Time-Resolved Fluorescence (TRF), Luminescence

Specification:

Parameters	Characteristics
Measurement	Software controlled
Fusion Optics system	Monochromator and Filter (external filter exchange) based
Microplates	From 1 well to 384 well SBS plates
Temperature control	+4 °C up to 42 °C
Plate shaking	Linear, orbital and double orbital shaking
Shaking duration	shaking duration is selectable from 1-3600 seconds.
Injector	Two injector options with different syringe size of 1 ml.
Light source	High energy Xenon flash lamp
Optics	Fused Silica Lenses
Fluorescence Wavelength range	Excitation: 230-900 nm. Emission: 280-900 nm.
Absorbance Wavelength range	wavelength from 200 to 1000 nm.
Luminescence	Low dark count photomultiplier tube