

MLED / MLED4S / MxxxL

Multiwavelength LED Source System

Modular LED heads spanning UV, visible and near-infrared wavelengths, with controller options for manual illumination or programmed multi-channel operation. Select heads and drive current around the required wavelength and optical power.

Best suited to: Discrete-wavelength excitation, fluorescence and repeatable LED illumination experiments.



Configuration

Choose the LED wavelength and rated current first, then the controller functions. The MLED4S timing features and interfaces should not be assumed for the simpler MLED-CONTROLLER-X.

Specifications

Published parameters	
Available wavelengths (nm)	290, 310, 365, 395, 405, 425, 450, 470, 515, 530, 550, 590, 610, 635, 660, 690, 735, 760, 808, 850, 880, 940, 980, 1030
Nominal spot diameter	10 mm
Wavelength tolerance	±10 nm
Published output stability	±1%; 290 nm head: 2%
MLED-CONTROLLER-X	Manual / USB control
MLED4S interfaces	Touch panel, foot switch, external control, RS-485

Selected LED-head operating points

Examples only; power is wavelength and head dependent. The 290 and 310 nm heads have much lower published power than these examples.

Head	Optical power	Drive current
M365L	>420 mW	700 mA
M405L	>400 mW	700 mA
M450L	>320 mW	700 mA
M808L	>80 mW	350 mA

Measurement features

- 24 nominal wavelengths from 290 to 1030 nm.
- MLED4S: four channels, 1 kHz PWM, timers and programmed sequences.
- MLED-POST1 to POST4 mounting options for source-head arrangements.

Full configuration: www.precisometer.com/spectroscopy/light-sources/led