

ClaIR™

INFRARED MICROPLATE READER



The ClaIR NIR-II microplate reader is able to capture full fluorescence spectra from 900 nm to 1600 nm, and the transmittance spectrum from 500 nm to 1600 nm. Using the included software, the ClaIR plate reader can perform a range of endpoint and kinetic applications. The instrument comes with your preferred laser-based excitation sources, which can be complemented by a high-power tunable light source. An optional benchtop probe is available, extending the capabilities to in vivo measurements.

TECHNICAL SPECIFICATIONS

Detection modes	Absorbance and fluorescence spectroscopy
Microplate formats	1 to 1536-well plates, user definable
Absorbance light sources	Halogen white lamp
Absorbance spectral range	500 - 1600 nm
Fluorescence light sources	650 nm and 735 nm laser diodes, fiber entry for optional tunable light source (optional)
Fluorescence spectral range	900 - 1600 nm
Detection	High sensitivity VIS and IR spectrometer
Z-adjustment	Focal height adjustment (0.1 nm resolution)
Read height	Adjustable bottom to mid well height
Software	Data acquisition software
Data format	CSV
Computer interface	USB
Line voltage	120 - 230 VAC
Dimensions	690 mm x 535 mm x 275 mm
Weight	40 kg

