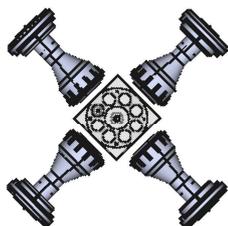


Explore UV and Visible Light

The choice for the chemist ready to explore the UV for new and exciting photochemical possibilities while also keeping the tools needed to do visible light chemistry from 254 nm to 808 nm.



This photoreactor is designed to perform photochemical reactions using UV and Visible light from 254 nm to 808 nm. It is compatible with holders for 8X 4 ml vials, 8X 8ml vials and 4X 20 ml vials. The reaction temperature is monitored using an IR probe and regulated with internal fans. This photoreactor comprises a stirring module and user interface to setup the experiments.



Designed for maximum and uniform irradiation level

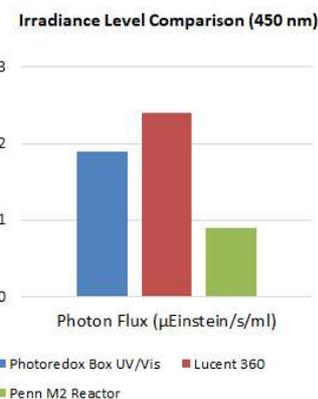
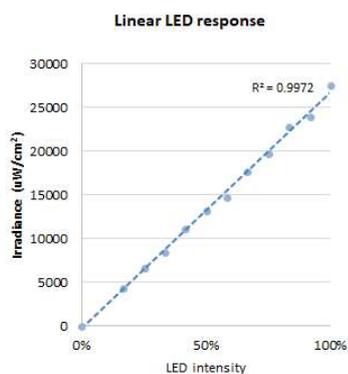
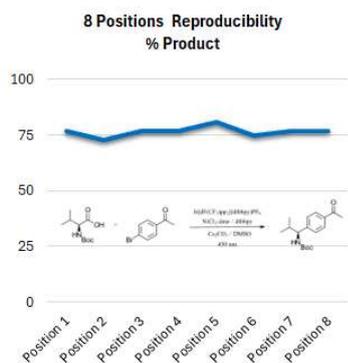
Features

- Single Wavelength LED irradiation from 254 nm to 808 nm
- Light intensity control with digital display
- Temperature monitoring and control from RT to 60°C
- Built in stir plate
- Screen multiple reactions simultaneously



Specifications	HCK1022-01-001
Vial size	4 ml, 8 ml and 20 ml vials
Samples/reaction	4 or 8 vials
Flow	Coming soon
Light source	4x - EvoluChem™ LEDs PF
Wavelengths available	multiple options from 254nm to 808 nm
Irradiation Power	1 μ Einstein/s/ml in Vis 0.05 μ Einstein/s/ml in UV mode
Dimmable	Yes
Temperature Control	Built in fans hold internal reactor temperature from 30°C to 60°C depending on user setting
Chiller fittings	N.A.
Suggested chiller	N.A.
Stirring	Internal magnetic stirring
Dimensions	14" X 14" X 12"
Power requirements	110-240V, 50/60Hz, 100W consumption
Operating requirements	Chemical fume hood (if applicable), protective eyewear
Related accessories	Lights Holders Flow Cell (coming soon) Safety Accessories

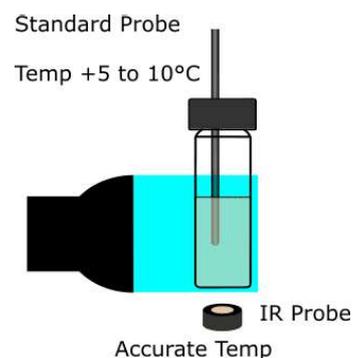
Outstanding Reproducibility and Irradiance Capability



IR Temperature Monitoring

Monitoring the temperature of a photochemical reaction can be difficult and error prone based on how the temperature is being determined and the type of temperature probe.

Upon irradiation with high powered light from LEDs, the vial, solvent, reaction, photoreactor and the temperature probe itself can increase in temperature. For the purposes of safety, all of these measurements are important. To understand our chemical reaction, what is most important is the true temperature in the solution. The instrument uses an IR probe to accurately measure temperature while the reaction is being irradiated was determined.



8x 4 ml vials holder
HCK1022-01-002



8x 8 ml vials holder
HCK1022-01-003



4x 20 ml vials holder
HCK1022-01-004