

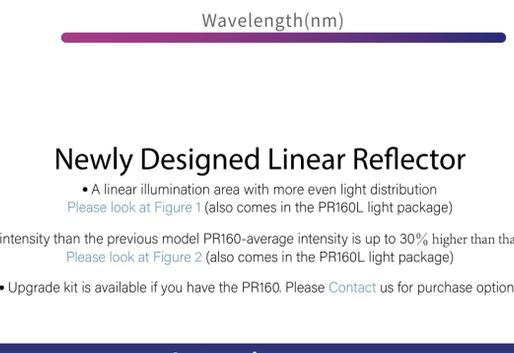


New UVA LED PR160L-370nm Gen2

Now 3 Times More Powerful!
Higher Irradiance & Enhanced Photoreaction

- Optimized for photochemistry and other applications in biomedicine, material science, UV curing etc.
- Safer, longer lifespan, less heat and more environmental friendly compared to conventional light sources.

370nm VS 370nm Gen2



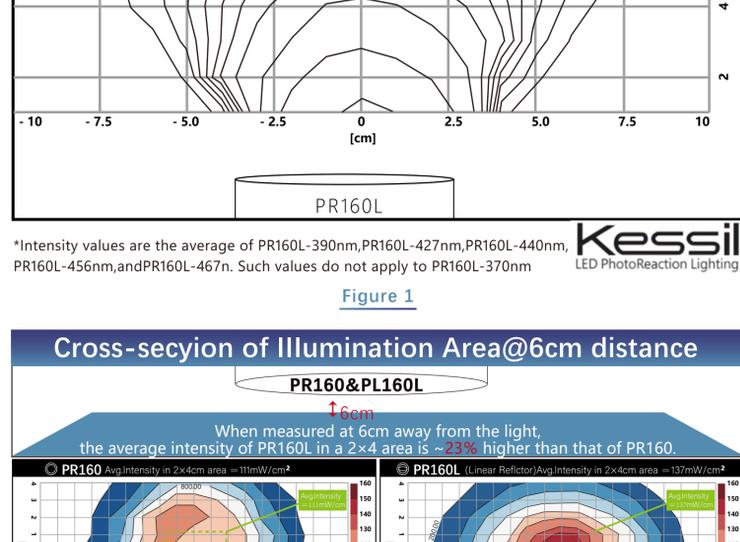
Newly Designed Linear Reflector

- A linear illumination area with more even light distribution
Please look at Figure 1 (also comes in the PR160L light package)

- Higher intensity than the previous model PR160-average intensity is up to 30% higher than that of PR160
Please look at Figure 2 (also comes in the PR160L light package)
- Upgrade kit is available if you have the PR160. Please Contact us for purchase options

Intensity map

Multiple vials can be lined on the same contour line of the same intensity



*Intensity values are the average of PR160L-390nm, PR160L-427nm, PR160L-440nm, PR160L-456nm, and PR160L-467nm. Such values do not apply to PR160L-370nm

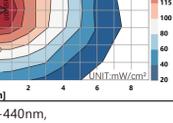


Figure 1

Cross-section of Illumination Area @ 6cm distance

PR160 & PL160L

When measured at 6cm away from the light, the average intensity of PR160L in a 2x4cm area is ~23% higher than that of PR160.



*Intensity values are the average of PR160L-390nm, PR160L-427nm, PR160L-440nm, PR160L-456nm, and PR160L-467nm. Such values do not apply to PR160L-370nm

Figure 2

Finely Tuned Wavelengths

- Seven precise wavelengths to choose from - 370nm, 390nm, 427nm, 440nm, 456nm, 467nm, 525nm. Customized solution is available (400nm, 518nm, 595nm, 640nm, 660nm, 740nm, etc), please Contact us for more information

- Study in-depth and optimize photoexcitation/photoredox reactions to save time and cost



Increased Intensity for Higher Efficiency

- Intense and penetrating light reduces reaction times and cost (50% brighter than our already intense Kessil H150 Blue)
- 4 levels of intensity control allows you to study the functional relationship between intensity and yield



Flexibility & Simplicity

- Easily configure for different geometries (vials, test tubes, flasks, etc...)
- Add more PR160Ls to scale up your experiment and increase intensity
- Multiple mounting: PR160 Rig w/ Fan Kit, lab clamp, Kessil Gooseneck, etc.



Upgraded PR160 Rig With Fan Kit

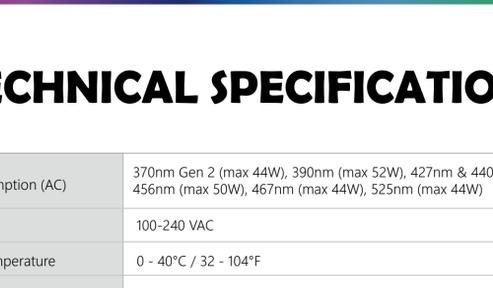
- Specifically designed mounting to turn system into photoreactor for typical laboratory photocatalytic reactions
- Comes with a powerful fan to blow air efficiently (proved to be more efficient than clamp desktop fan) to keep the reactions at room temperature as much as possible
- Comes with light-blocking shields for lab safety, which blocks all UV light and most blue light



Designed for Consistency and Reliability

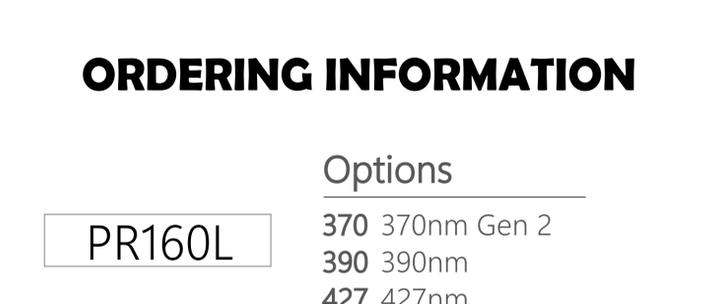
- Easy to operate
- Reliable results and repeatable reactions, perfect for commercial setups or flow photochemistry
 - Consistency between every unit
 - Peak wavelength within $\pm 1\text{nm}^*$
 - Optical output within 3%*

*Standard Deviation



PRODUCT SPECTRUM

370nm Gen2 390nm 427nm 440nm 456nm 467nm 525nm



TECHNICAL SPECIFICATIONS

Power Consumption (AC)	370nm Gen 2 (max 44W), 390nm (max 52W), 427nm & 440nm (max 45W), 456nm (max 50W), 467nm (max 44W), 525nm (max 44W)
Input Voltage	100-240 VAC
Operating Temperature	0 - 40°C / 32 - 104°F
Beam Angle	56°
Wavelength Options	370nm, 390nm, 427nm, 440nm, 456nm, 467nm, 525nm
Average Intensity of PR160 series	399mW/cm ² (measured from 1 cm distance)
Dimensions (H x D)	4.49" x 2.48" / 11.4cm x 6.3cm

ORDERING INFORMATION

Options

PR160L

- 370 370nm Gen 2
- 390 390nm
- 427 427nm
- 440 440nm
- 456 456nm
- 467 467nm
- 525 525nm

We offer customized solutions in other form factors or wavelengths (400nm, 518nm, 595nm, 640nm, 660nm, 740nm, etc), please Contact us for more information

COMPATIBLE WITH



PR Controller

PR160 Rig w/ Fan Kit