

Kessil

LED Photoreaction Lighting

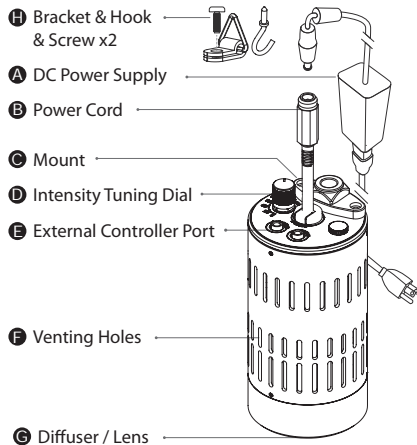
PR160L

USER MANUAL



230713A1

PARTS DIAGRAM



PRODUCT SPECIFICATIONS

Illuminator	
Power Consumption	370nm Gen 2 (max 44W)
	370nm (max 43W)
	390nm (max 52W)
	427nm & 440nm (max 45W)
	456nm (max 50W)
	467nm (max 44W)
	525nm (max 44W)
Input Voltage	19-24 VDC \pm 5%
Listed Power Supply	
Input	100-240 VAC 50-60 Hz
Output	19 VDC, maximum 3.42A

⚠ WARNING

PR160L-370 and PR160L-390 contain high intensity UV light. PR160L-370 is classified as Group 1 (low risk) in Standard:

Photobiological Safety of Lamps and Lamp Systems (IEC/EN62471) defined risk group, measured at 20cm. PR160L-390 is classified as Group 2 (moderate risk), measured at 20cm. It is classified as Exempt risk group when measured at >360cm.

AVOID EYE & SKIN EXPOSURE. WEAR PROPER EYE & SKIN PROTECTION.

INSTALLATION GUIDE

1. Remove contents from package.
2. Install PR160L to optional mounting accessories*
3. Connect Power Cord (B) to the specified DC Power Supply (A).
4. Plug the Power Supply into an outlet with the correct specifications (see PRODUCT SPECIFICATIONS for more information).
5. Adjust the light Intensity Tuning Dial (D) to the desired setting.

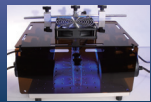
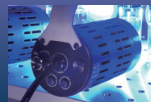
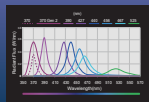
*The PR160L can also be used with two brackets and metal Hooks (H), and the optional PR160L Rig.

SAFETY INSTRUCTIONS

1. **DO NOT** use a power supply that is outside the specifications. This is a fire hazard and may lead to unit failure.
2. **DO NOT** use outdoors. This unit is intended for indoor use only.
3. **DO NOT** expose unit to an extremely humid environment or submerge unit in water. This may lead to unit failure.
4. **DO NOT** block Venting Holes (F). This may cause unit to overheat.
5. **KEEP** Diffuser / Lens (G) away from sharp objects. This may break the Diffuser / Lens (G) and lead to unit failure.
6. **DO NOT** cover or place objects on the power supply. Power supply should not be contained in an airtight space.
7. The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire must be replace.

INSTRUCTIONS DE SECURITE

1. N'UTILISEZ PAS une source d'alimentation non conforme aux spécifications. Ceci est un risque d'incendie et peut entraîner une panne de l'unité.
2. NE PAS utiliser à l'extérieur. Cet appareil est conçu pour une utilisation en intérieur uniquement.
3. NE PAS exposer l'appareil à un environnement extrêmement humide ni l'immerger dans l'eau. Cela peut entraîner une défaillance de l'unité.
4. NE PAS bloquer les trous d'aération (F). Cela pourrait provoquer une surchauffe de l'appareil.
5. GARDER le diffuseur / objectif (G) à l'écart des objets pointus. Cela pourrait casser le diffuseur / objectif (G) et entraîner une panne de l'appareil.
6. NE couvrez pas et ne placez pas d'objets sur l'alimentation. L'alimentation ne doit pas être confinée dans un espace étanche à l'air.
7. La source lumineuse de ce luminaire n'est pas remplaçable. lorsque la source de lumière arrive en fin de vie, il faut remplacer tout le luminaire.



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Kessil Lighting

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This is a LED light source emitting 40% or more of total radiation power of the range 250-800 nm in the range of 400-480 nm, and intended for coral growth.

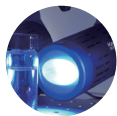
FEATURES

Increased Intensity for Higher Efficiency



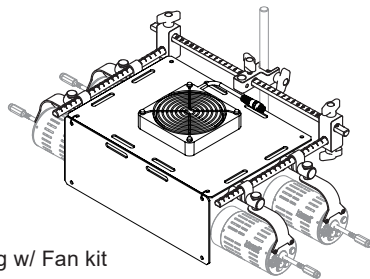
- Intense and penetrating light decreases reaction time and costs.
- 4 levels of intensity control allows you to study the functional relationship between intensity and yield.

Flexibility & Simplicity



- Easily configure for different geometries (vials, test tubes, flasks, etc...)
- Add more PR160Ls to scale up your experiment and increase intensity.
- Standardized mounting using PR160L Rig. Easily adjust spacing and distance.

OPTIONAL ACCESSORIES



Rig w/ Fan kit



PR Controller

MAINTENANCE

1. Keep the air Venting Holes (F), and fan clear of dust. To clean the fan, unplug the unit and insert the tip of a CO2 dust blower (or similar dust blower) in one of the Venting Holes (F) on the unit's housing. Hold and spray. You can also gently vacuum the light through the venting holes.
2. Keep the Diffuser / Lens (G) clean. If the Diffuser / Lens (G) becomes contaminated with water, dust, or other particles, unplug the unit and clean the lens with isopropyl alcohol. Wet a cotton swab or a napkin in isopropyl alcohol, gently wipe the surface of the lens, and let it dry.

TROUBLESHOOTING GUIDE

Problem	Solution
Light doesn't turn ON	Make sure the unit is connected to the power supply and the power supply is connected to an outlet with the correct specifications.
	Make sure electrical power is available to the AC outlet being used.
	Make sure the power supply has the correct specifications.
Unit is flickering	Make sure the device is operating within the specified operating temperature range (0 - 40°C / 32 - 104°F. If unit overheats, it will automatically shut down.
	Make sure you are using a power supply with the correct specifications.
	Make sure the unit has not overheated by operating at a room temperature exceeding 104°F / 40°C.
	Make sure the fan is operating properly.