

# Kessil®

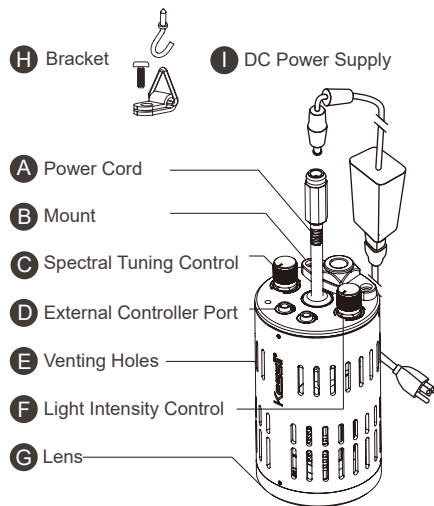
LED Aquarium Light

## A160WE

OWNER'S MANUAL



### PARTS DIAGRAM



### PRODUCT SPECIFICATIONS

Illuminator	
Power Consumption	40 W maximum
Input Voltage	19-24 VDC ± 5%
Listed Power Supply	
Input	100-240 VAC 50-60 Hz
Output	19 VDC, maximum 3.42A
	24 VDC, maximum 2.10A

### INSTALLATION GUIDE

1. Remove contents from package.
2. Secure designated mount (B) to unit with screws, and screw gooseneck to attach mount (gooseneck sold separately).\*
3. Hang the A160WE 1 to 2 ft. above the object to be illuminated.\*\*
4. Connect power cord (A) to the specified DC power supply (I).
5. Plug the power supply into an outlet with the correct specifications (see product specifications for more information).
6. Adjust the Light Intensity Control (F) and the Spectral Tuning Control (C) to the desired setting. A160WE Tuna Blue tunes from 10,000K - Actinic. A160WE Tuna Sun tunes from 6,000K - 9,000K.
7. The jacks beneath the controls can be connected to an external 0~10V controller. Please consult your controller's owners manual for more information.

\* The A160WE may also be hung by mounting two metal hooks (diameters of at least 2.5 mm and thread numbers of at least 6) through its brackets (H).

- \*\* The A160WE should only be installed on wood, acoustic tile or other similar materials.
- \*\* For sufficient airflow, the venting holes (E) should be at least 12 in. from surrounding obstructions.

### 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** place working illuminator in close contact with any objects. This may cause the objects to heat up and the unit to overheat.
5. **KEEP** lens away from sharp objects. This may break the lens 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.

### INSTRUCTIONS DE SECURITE

1. N'UTILISEZ PAS de câble d'alimentation ne correspondant pas aux caractéristiques. Il y aurait un risque d'incendie et de dommages de l'unité.
2. NE PAS UTILISER à l'extérieur. Cette unité est prévue pour une utilisation en intérieur.
3. N'EXPOSEZ PAS l'unité à un environnement extrêmement humide ou ne submergez pas l'unité dans l'eau. Cela pourrait endommager l'unité.
4. NE PLACEZ PAS l'illuminateur en marche, en contact direct avec d'autres objets. Cela pourrait causer un réchauffement trop élevé de ces derniers et pourrait faire surchauffer l'unité.
5. GARDEZ la lentille (H) à l'écart des objets pointus. Les objets pointus pourraient casser la lentille et endommager l'unité.
6. NE RECOUVREZ PAS, ou ne placez pas d'objet sur le câble d'alimentation. Le câble ne doit pas se trouver dans un espace fermé.

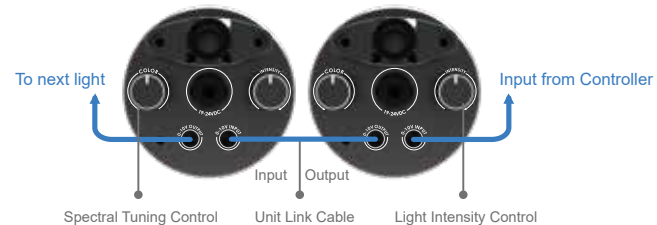


## MAINTENANCE

1. Keep the air venting holes (E), 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 (E) on the unit's outer shell. Hold and spray. You can also gently vacuum the light through the venting holes.
2. Keep the lens (G) clean. If the lens 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 right specifications.
Unit is flickering	Make sure the device is operating within the specified operating temperature range. If unit overheats, it will automatically shut down.
	Make sure you are using a power supply with the correct specifications.
	Make sure the fan is operating properly.



## Controllability

Multiple A160WE lights can be controlled by either a single external 0~10V controller or manually.

### CABLES

Available cables:

- Control Cable (Please consult kessil.com for list of available cables and compatible controllers).
- Unit Link Cable (6' male/male with 3.5 mm stereo jack).
- Control Extension Cable (6' male/female with 3.5 mm stereo jack).

### STARTING A CHAIN

Connect two or more lights with the Kessil Link Cable, as shown to the above.

### CONTROL METHODS

- There are two ways to control a chain of lights:
- With an external controller;
  - Without external controller (Tuning Controls on first light control all other lights in chain).

Should a longer cable be needed, the Kessil Extension Link Cable may be used.

Each light has its own independent power supply. Any number of lights can be daisy chained together without degradation of signal. However, in longer chains a slight delay in response may occur. Manual tuning is disabled when device senses input cable.



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### Kessil Lighting

A DiCon Business Division

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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.