

**Kessil**  
LED Aquarium Lighting



**A500**   
Tuna Blue

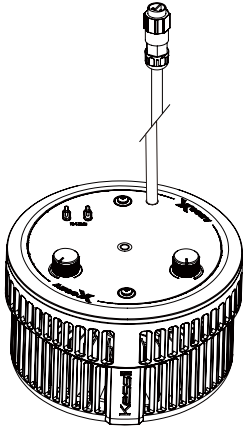
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**USER MANUAL**

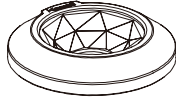
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# INSIDE THE BOX



A500X



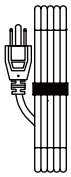
Reflector-55



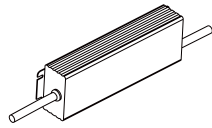
Kessil Sticker



Warranty Card



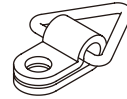
AC Adapter Cable  
(Plug type varies from country to country)



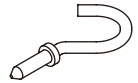
Power Adapter



Hanging Ring

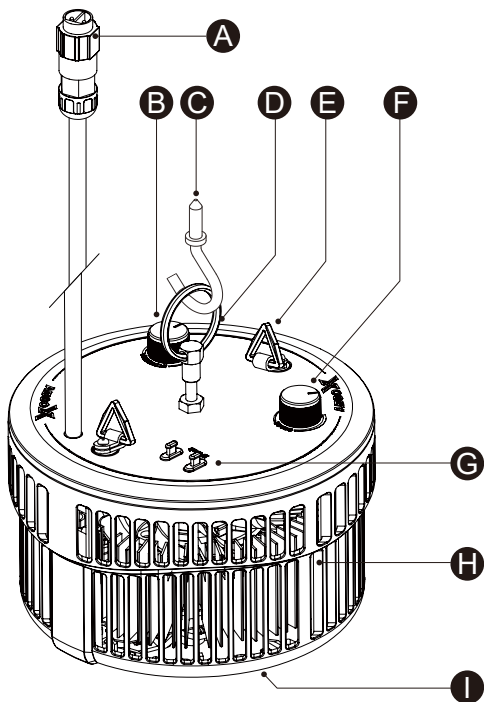


Hanging Bracket x 2



Screw Hook x 2

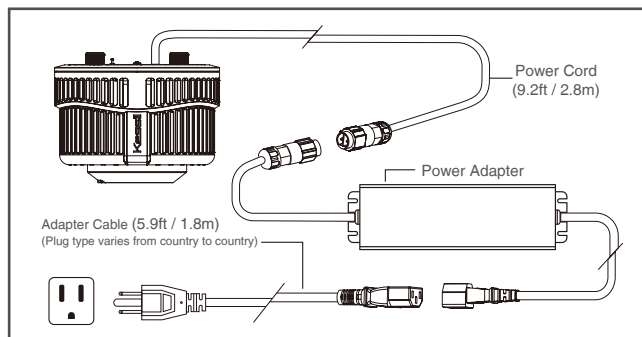
# PARTS DIAGRAM



- A Power Cord
- B Intensity Tuning Knob
- C Screw Hook
- D Hanging Ring
- E Hanging Bracket
- F Color Tuning Knob
- G K-Link Ports
- H Venting Holes
- I Reflector-55

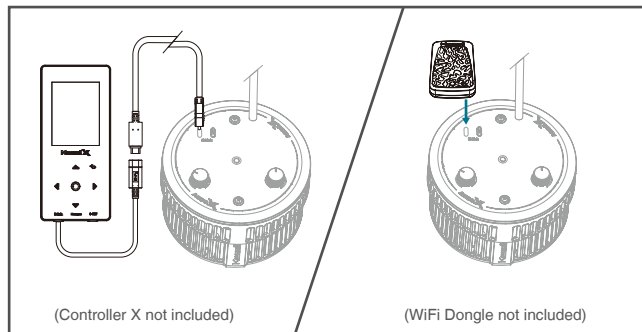


# INSTALLATION



## Step 1 Power

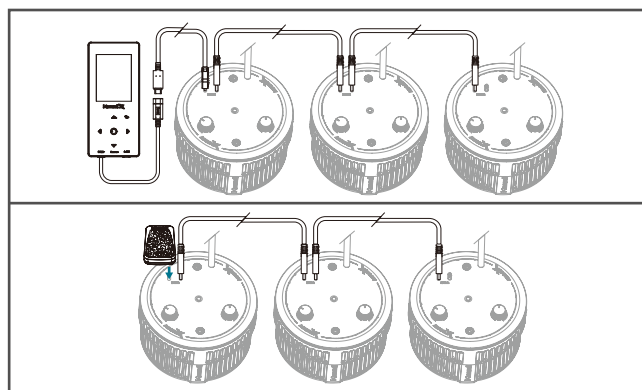
Connect the A500X to the power adapter and plug it into a wall outlet. Turn the Intensity Tuning Knob (B) to the right to turn on the light.



## Step 2 Control

- Turn the Intensity Tuning Knob (B) to adjust the brightness of the fixture.
- Turn the Color Tuning Knob (F) to adjust the light to the desired color.
- A500X can be connected and controlled through Kessil Spectral Controller X with a K-Link Cable, or through the WiFi Dongle with iPhone or Android phone app.

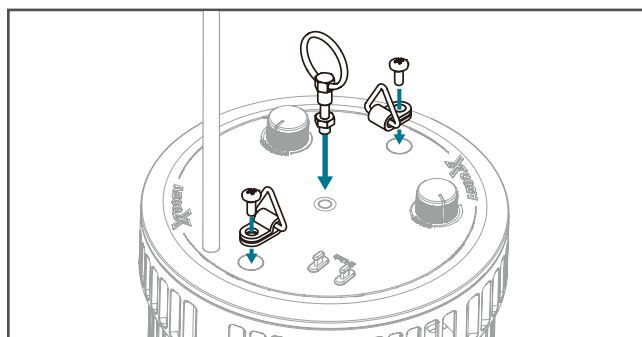
## Step 3 Controlling Multiple A500X



- Connect two or more lights with K-Link Cables as shown in the image.
- Multiple A500X lights can be controlled by either manually, an external controller, or the WiFi Dongle.
- When controlling without an external controller or WiFi Dongle, tuning controls on any light control all other lights in chain.

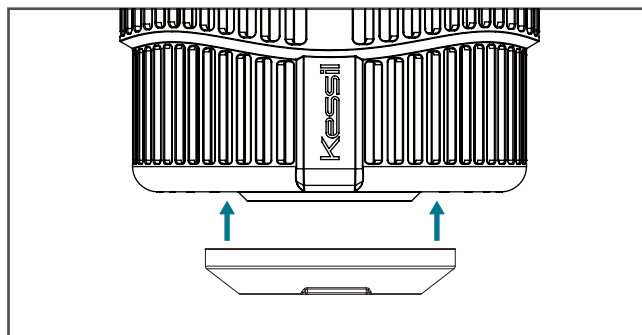
*Push the K-Link Cable connector or WiFi Dongle down to make sure the connection is firm.*

## Step 4 Mounting



- Screw the Hanging Ring (D) into the center screw hole.
- Hang the light with the two Screw Hooks (C) and the two Hanging Brackets (E).
- To install the Hanging Brackets (E), remove the screws on the A500X, use the same screws to secure the fasteners with triangular rings onto the light fixture.

## Step 5 Reflector-55

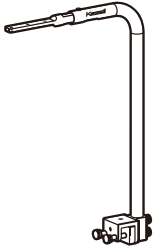


The complementary Reflector-55 narrows the beam of the light to increase the light intensity and penetration, and to avoid overspilling.

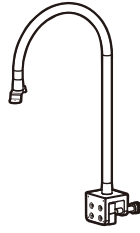
### CAUTION

HOT SURFACE. DO NOT TOUCH  
WHEN LIGHT IS ON & WITH  
REFLECTOR ACCESSORIES

## OPTIONAL ACCESSORIES



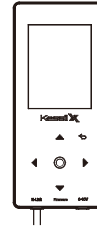
Mounting Arm



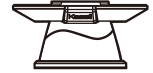
A-Series Gooseneck



WiFi Dongle



Spectral Controller X



Reflector-35

## MAINTENANCE

1. Keep the fan and Venting Holes (H) 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 for the Fan. Hold and spray. You can also gently vacuum out the dusts through the venting holes.
2. Keep the LED array and Reflector-55 (I) clean. If the array lens and reflector become contaminated with water, dust, or other particles, unplug the unit and clean them with isopropyl alcohol. Wet a cotton swab or a napkin in isopropyl alcohol, gently wipe the surface, and let it dry.
3. Keep plastic covers for K-Link Ports (G) plugged in when the ports are not in use.  
Keep the ports clean all-time.

## TROUBLESHOOTING GUIDE

Please make sure to perform maintenance before doing any troubleshooting.

Problem	Cause / Solution
Light doesn't turn ON	Make sure the unit is connected to the power adapter and the power adapter is plugged into an outlet with the correct specifications.
	Make sure the power adapter has the right specifications.
	Make sure electrical power is available to the AC outlet being used.
	Make sure the device is operating within the specified operating temperature range. If unit overheats, it will automatically shut down.
Unit is flickering	Make sure the power adapter has the right specifications.
	Make sure the unit has not overheated by operating at a room temperature above 100°F/40°C.
	Make sure the fan is operating properly.

## SPECIFICATIONS

Unit Dimensions and Weight			
Dimensions	Ø5.23" x 3.68" (Ø13.3 cm x 9.36 cm)		
Weight	1.72 lbs (0.78 kg)		
Illuminator	Power Adapter		
Power Consumption	185W maximum	Input	100-240V~ AC 50-60 Hz
Input Voltage	48V DC ± 5%	Output	48V DC, maximum 4.2A

# SAFETY INSTRUCTIONS

1. Caution: Misuse of this device contrary to these instructions may result in physical injury or damage to the product.
2. **DO NOT** use a power adapter outside of the specifications. This is a fire hazard and may lead to unit failure.
3. **DO NOT** use outdoors. This unit is intended for indoor use only.
4. **DO NOT** expose unit to an extremely humid environment or submerge unit in water. This may lead to unit failure.
5. **DO NOT** place working illuminator in close contact with any objects. This may cause objects to heat up and the unit to overheat.
6. **KEEP** LED array away from sharp objects. Sharp objects may break the array lens and lead to unit failure.
7. **DO NOT** cover or place objects on the power adapter. Power adapter should not be contained in an airtight space.
8. **DO NOT** block or cover the Venting Holes (H). This may cause the device to overheat and lead to failure.
9. **ENSURE** that the light is correct and securely mounted.

# INSTRUCTIONS DE SECURITE

1. Attention: Une mauvaise utilisation de cet appareil contrairement à ces instructions peut entraîner des blessures ou endommager le produit.
2. N'UTILISEZ PAS d'adaptateur secteur en dehors des spécifications. Il s'agit d'un risque d'incendie et peut entraîner une panne de l'unité.
3. NE PAS utiliser à l'extérieur. Cet appareil est destiné à une utilisation en intérieur uniquement.
4. N'exposez PAS l'appareil à un environnement extrêmement humide et ne l'immergez pas dans l'eau. Cela peut entraîner une panne de l'unité.
5. NE placez PAS l'illuminateur de travail en contact étroit avec des objets. Cela peut provoquer une surchauffe des objets et une surchauffe de l'appareil.
6. Gardez la matrices LED loin des objets pointus. Des objets tranchants peuvent briser la lentille du réseau et entraîner une défaillance de l'unité.
7. NE PAS couvrir ni placer d'objets sur l'adaptateur secteur. L'adaptateur secteur ne doit pas être contenu dans un espace hermétique.
8. NE PAS bloquer ou couvrir le ventilateur (entrée d'air) (H). Cela peut entraîner une surchauffe de l'appareil et entraîner une panne.
9. ASSUREZ-VOUS que la lumière est correcte et solidement montée.

# FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 8 inches (20cm) between the radiator & your body.

## Kessil Lighting

A DiCon Business Division

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Kessil.com



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.