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› PopBloom S16Pro Aquarium LED Reef Light User Manual

PopBloom S16Pro

PopBloom S16Pro Aquarium LED Reef Light User Manual

Model: S16Pro (MH16FBR)

1. INTRODUCTION

Thank you for choosing the PopBloom S16Pro Aquarium LED Reef Light. This manual provides essential information for the safe and efficient operation of your new aquarium lighting system. The S16Pro is designed to provide optimal lighting conditions for saltwater coral and fish tanks, featuring four dimmable and programmable channels for a customized light spectrum.

Important Safety Note: This product is not water resistant. Ensure the light fixture and power supply are kept dry and away from water to prevent electrical hazards.

2. PACKAGE CONTENTS

Carefully unpack the box and ensure all items are present and in good condition. If any items are missing or damaged, please contact customer support.

- 1x PopBloom S16Pro LED Reef Light Fixture
- 1x Adjustable Arm Mounting Kit
- 1x Remote Control
- 1x Power Supply with Plug
- 1x User Manual (this document)

60W-Mounting

Best For Coral 



Channel 1
full spectrum
white

Channel 2
moonlight

Channel 3
reef-grow
blue

Channel 4
vivid color

Package Including



1xlight



1xarm kit



1x remote



1x supply+plug

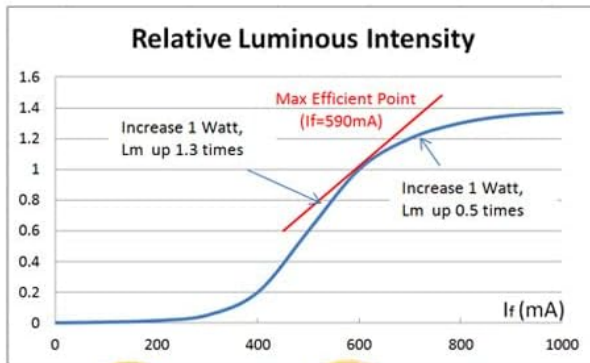


Image: Overview of the PopBloom S16Pro LED Reef Light and its included components, showing the light fixture, mounting arm, remote, and power adapter. It also highlights the four light channels: full spectrum white, moonlight, reef-grow blue, and vivid color.

3. PRODUCT FEATURES

- **Four Dimmable Channels:** Customize the light spectrum with independent control over full spectrum white, moonlight, reef-grow blue, and vivid color channels.
- **Programmable 24-Hour Cycle:** Simulate natural sunrise, daylight, sunset, and moonlight phases for optimal coral and fish health.
- **High PAR Output:** Designed to provide sufficient Photosynthetically Active Radiation (PAR) for various coral types, including SPS and LPS.
- **Efficient Cooling System:** Features an upgraded aluminum heat sink and fan cooling for effective heat dissipation and reduced noise.
- **Advanced Lens Design:** PMA lenses provide anti-glare properties, wider light penetration, and improved color uniformity.
- **Remote Control Operation:** Easy adjustment of brightness, channels, and programming settings via the included remote control.

Low Power Consumption



others



ours, 30% saver

- * high power LEDs
- * 30% energy saving
- * better luminous intensity

Fan Cooling

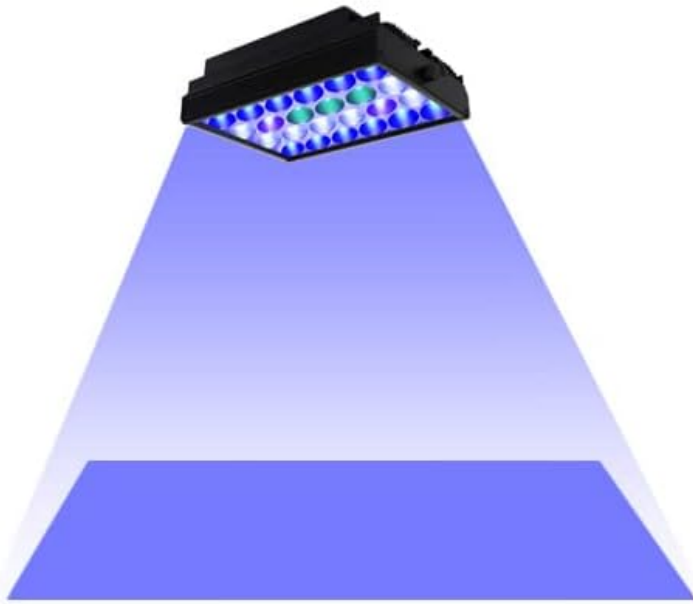
- * material: aluminum
- * improve wind tunnel
- * 15% noise reduction
- * quite
- * efficient



Image: Illustration of the light's low power consumption and fan cooling system. A graph demonstrates relative luminous intensity, indicating higher efficiency. The fan cooling system highlights aluminum material, improved wind tunnel design, 15% noise reduction, and efficient operation.

New

Higher Penetration

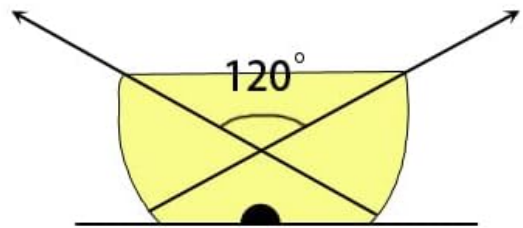


Irradiation area Big

- * PMA lens
- * anti-glare
- * reach wider and deeper
- * remarkable color uniformity



our light: LEDs with lens



others: no lens



Image: Diagram showing the enhanced light penetration of the S16Pro. It compares the 120-degree light distribution with PMA lenses to a wider 165-degree spread without lenses, emphasizing deeper and wider light reach with remarkable color uniformity.



Image: A graph displaying the light spectrum, highlighting optimal wavelengths for coral growth. Below the graph are three circular insets showing vibrant corals, colorful fish, and living rock, illustrating the light's ability to promote coral growth, enhance fish coloration, and benefit living rock.

4. SETUP AND INSTALLATION

The S16Pro comes with an adjustable arm mounting kit for easy installation on various aquarium types.

4.1 Arm Kit Assembly

1. Attach the light fixture to the horizontal arm of the mounting kit. The fixture can be mounted along the length or width side.
2. Secure the vertical arm to your aquarium. The kit supports rimless, horizontal, and rimmed tank edges. Ensure a stable and secure fit.
3. Adjust the height of the light fixture. The arm is scalable from 2-16 cm and offers an adjustable height range of 19-34 cm from the tank edge.
4. Once positioned, tighten all screws to prevent movement.

New

Update Arm Kit

(adjustable + suitable for all kinds of tanks)

2 install way



length side



width side



Image: Illustration of the adjustable arm kit installation. It shows two mounting options for the light fixture (length side and width side) and highlights the scalable arm (2-16cm) and adjustable height (19-34cm). Diagrams also depict how the mount attaches to rimless, horizontal, and rimmed aquarium edges.

4.2 Power Connection

1. Connect the power supply to the light fixture.
2. Plug the power supply into a suitable electrical outlet.
3. Ensure all connections are secure and dry.

5. OPERATION

The PopBloom S16Pro is controlled using the included remote control.

5.1 Remote Control Functions

The remote allows for easy adjustment of brightness, color channels, and programming of the 24-hour cycle.

- **Power Button:** Turns the light on or off.

- **Preset Brightness:** Buttons for 'Full' (100% brightness), 'ECON' (Economy/lower brightness), and 'Moon' (moonlight mode).
- **Running Time:** Buttons for 4, 6, 8, 10, 12, 14, 16, 18, 24 hours to set the duration of the light cycle.
- **Channel Control (Ch1, Ch2, Ch3, Ch4):** Use the '+' and '-' buttons to adjust the brightness (0-100%) of each individual channel.

5.2 Programming the 24-Hour Cycle

The light can be programmed to run a 24-hour cycle simulating natural light conditions. There are three main types of settings:

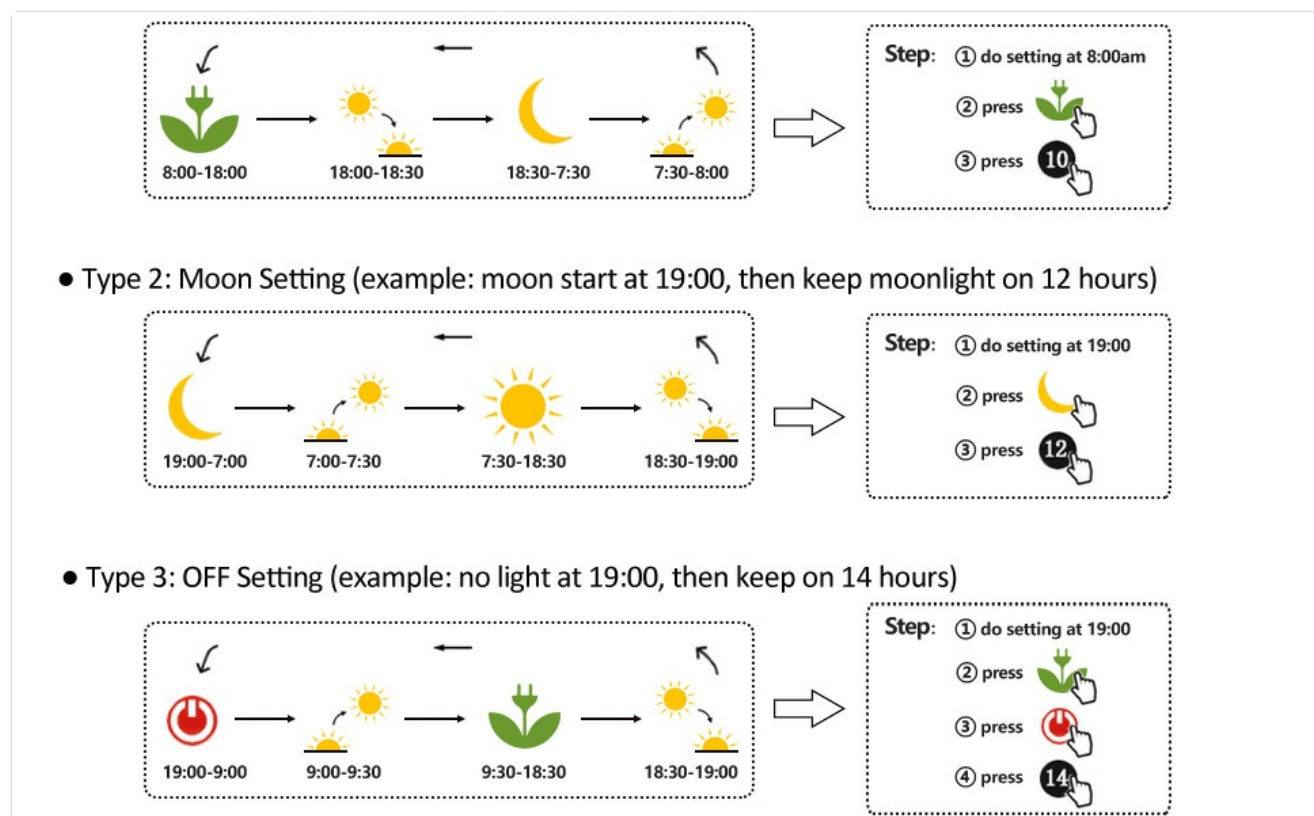


Image: Detailed view of the remote control with labels for preset brightness (Full, ECON, Moon), running time options (4-24 hours), and individual channel dimming. Below, three diagrams illustrate how to program the 24-hour cycle for Sun Setting, Moon Setting, and OFF Setting, showing the sequence of button presses and the resulting light schedule.

Type 1: Sun Setting (Day-Moon Cycle)

This setting simulates a full day cycle including sunrise, daylight, sunset, and moonlight.

1. At the desired time for sunrise (e.g., 8:00 AM), press the **ON TIME** button.
2. Press the **Full** or **ECON** button to set the daylight brightness.
3. Press the desired running time button (e.g., **10** for 10 hours of daylight). The light will automatically transition through sunrise, daylight, sunset, and then to moonlight until the next cycle.

Type 2: Moon Setting (Moonlight Only Cycle)

This setting initiates a moonlight cycle for a specified duration.

1. At the desired time for moonlight to start (e.g., 7:00 PM), press the **ON TIME** button.
2. Press the **Moon** button.
3. Press the desired running time button (e.g., **12** for 12 hours of moonlight).

Type 3: OFF Setting (Day-No Night Light Cycle)

This setting provides a daylight cycle followed by a period of no light.

- 1. At the desired time for sunrise (e.g., 8:00 AM), press the**ON TIME** button.
- 2. Press the **Full** or **ECON** button to set the daylight brightness.
- 3. Press the **OFF TIME** button.
- 4. Press the desired running time button (e.g.,**14** for 14 hours of off-time after the daylight cycle).

Note: To ensure the timer functions correctly, initiate the programming at the exact time you wish the cycle to begin.

6. SPECIFICATIONS

Feature	Specification
Model Name	S16Pro (MH16FBR)
Wattage	60 watts
Product Dimensions	16"D x 5.5"W x 1.5"H (40.6cm D x 14cm W x 3.8cm H)
Item Weight	3.67 pounds (1.66 kg)
Material	Aluminum
Light Source Type	LED
Number of Light Sources	24
Control Method	Remote
Special Features	Dimmable, Energy Efficient, Programmable 24-hour cycle
Water Resistance Level	Not Water Resistant
Power Source	Corded Electric
Mounting Type	Wall Mount (via adjustable arm kit)

6.1 Recommended Usage by Tank Size

The S16Pro is suitable for various tank lengths. For optimal PAR distribution, multiple units may be required for larger tanks.

PAR distribution

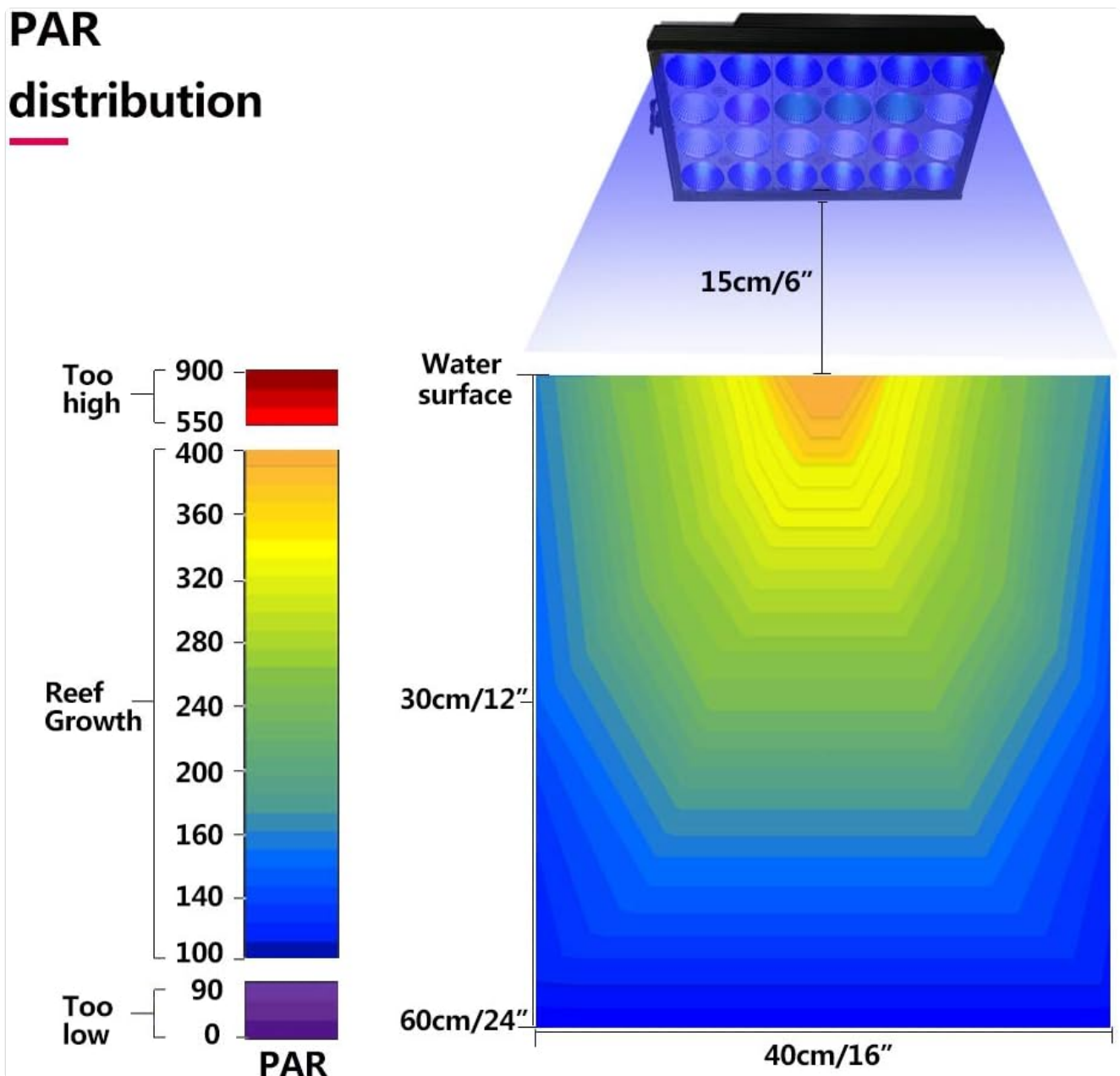


Image: A table recommending the number of S16Pro units based on tank length (e.g., 1 unit for 40-60cm tanks, 2 units for 90-120cm tanks, 3 units for 150cm tanks). It also includes a PAR distribution map showing light intensity at different depths and distances from the light source, indicating optimal reef growth areas.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your PopBloom S16Pro LED Reef Light.

- **Cleaning:** Periodically wipe the light fixture and lenses with a soft, dry cloth to remove dust, salt creep, and water spots. Ensure the light is unplugged before cleaning. Do not use abrasive cleaners or immerse the unit in water.
- **Fan Check:** Ensure the cooling fan is free from obstructions and operating quietly. Clean any dust accumulation on the fan blades or vents using a soft brush or compressed air.
- **Cable Inspection:** Regularly check the power cord and connections for any signs of damage, fraying, or corrosion. Replace damaged components immediately.
- **Environment:** Maintain a dry environment around the light fixture and power supply. Avoid splashing water onto the unit.

8. TROUBLESHOOTING

If you encounter issues with your PopBloom S16Pro, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on.	No power, loose connection, faulty power supply.	Check power outlet, ensure all cables are securely connected. Test with another outlet if possible. If issues persist, contact support.
Remote control is unresponsive.	Low battery, remote too far, obstruction, infrared sensor blocked.	Replace remote battery. Ensure you are within a few feet of the light and pointing directly at the sensor. Clear any obstructions.
24-hour cycle not working as expected.	Incorrect programming, manual adjustment overriding cycle.	Re-program the 24-hour cycle carefully, ensuring the start time is set correctly. Avoid manual brightness adjustments after programming, as this may disable the timer.
Light flickers or dims unexpectedly.	Unstable power, loose connection, internal fault.	Check power connections. Ensure the power supply is stable. If flickering continues, discontinue use and contact support.
Fan is noisy or not spinning.	Dust accumulation, fan obstruction, fan failure.	Unplug the light and carefully clean the fan and vents. If the fan remains noisy or does not spin, contact support.

9. CUSTOMER SUPPORT

For any questions, concerns, or technical assistance regarding your PopBloom S16Pro LED Reef Light, please contact our customer support team. We aim to respond within 12 hours and resolve issues within 48 hours. Please refer to your purchase documentation or the PopBloom official website for contact details.

