NICREW NavaReef 135

NICREW NavaReef 135 Reef LED Light Instruction Manual

Model: NavaReef 135

Brand: NICREW

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your NICREW NavaReef 135 Reef LED Light. Please read this manual thoroughly before use to ensure proper function and longevity of your product. This lighting system is designed to provide optimal light spectrum for LPS/SPS corals and saltwater fish tanks.

Image 1: NICREW NavaReef 135 Reef LED Light, showcasing its sleek design and mounting bracket.

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Video 1: An overview of the NICREW NavaReef 135 Reef LED Light, highlighting its features and vibrant coral illumination.

2. PRODUCT FEATURES

- **Blue-Focused Spectrum:** Concentrates most power at 440-480nm wavelengths to enhance coral fluorescence and boost growth with minimal energy waste.

- **Optimized Optics:** Custom 90° beam-angle lens optics deliver concentrated PAR output while ensuring optimal coverage in deeper aquariums.

- **Quiet Cooling System:** Features a removable dust-resistant mesh, operating near-silently while maintaining exceptional heat dissipation efficiency.

- **Flexible Control:** Effortlessly control the NavaReef through the built-in timer setting or external controller connectivity (controller sold separately).

- **Versatile Mounting:** Compatible with the included standard Tank Mount for rimmed/rimless tanks, and an optional Hanging Kit (sold separately) for open-top installations.

Uncompromise Performance

Multiple Control Options
Button control with built-in timer & External controllers compatibility.

Detachable Dust Protection
Mesh guard to keep dust out of the NavaReef fan and heatsink.

24" Depth Penetration
90-degree optical lens for deep aquarium.

Blue-Focused Spectrum
Put most of the power into 440~480nm channels.

Whisper-Quiet Operation
Put out just 35 dB at 1 meter (100% output)*.

Compact Sleek Design
The small size packs high-intensity output.

*Measured with a handheld sound meter at 1 meter distance, 25 dB ambient noise.

Image 2: Key features of the NavaReef 135, highlighting its performance and design elements.

3. WHAT'S IN THE BOX

The NICREW NavaReef 135 Reef LED Light package includes the following components:

- NavaReef 135 LED Light Fixture
- Power Adapter

- Standard Tank Mount Bracket
- Mounting Screws and Allen Key
- User Manual

Image 3: All components included in the NavaReef 135 light kit.

4. Setup and Installation

Follow these steps to properly install your NavaReef 135 LED Light using the included tank mount.

1. **Assemble the Mount:** Attach the two sliding rail pieces to the clamp using the provided screws and Allen key. Adjust the height as needed.
2. **Route the Cable:** Pass the power cable through the designated hole in the sliding rail.
3. **Attach Light to Mount:** Secure the LED light fixture to the assembled mount using the screws on the top of the light.

4. **Mount to Tank:** Position the clamp onto the rim of your aquarium (suitable for rimmed or rimless tanks up to 1 3/16 inches thick). Tighten the screws on the clamp to secure the light firmly.

5. **Connect Power:** Plug the power adapter into the light and then into a power outlet.

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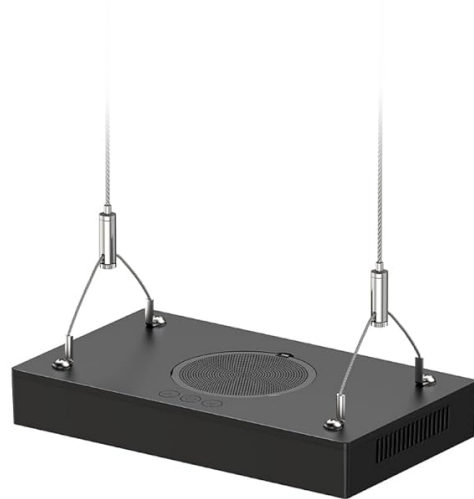*Video 2: Detailed instructions for installing the NICREW NavaReef Tank Mount.*

Mounting Options

Tank Monut

Easily mount your NavaReef on your rimmed or rimless tank with the NavaReef Tank Mount.

NOTE: It is for aquarium thickness (including rim thickness) up to **1 3/16 in**.

Hanging Kit

The NICREW Hanging Kit enables individual units to be suspended above an aquarium.

*Hanging Kit Sold Separately

Image 4: Illustration of the Tank Mount and optional Hanging Kit installation.

5. OPERATING INSTRUCTIONS

The NavaReef 135 features intuitive button controls for managing light settings and the built-in timer.

Basic Control Functions:

- **Power Button (U):**

- Press: Turn on the NavaReef or cycle through 7 preset color settings.
- Hold: Turn off the NavaReef.

- **Up Arrow (^) Button:**

  - Press: Increase light intensity by 5%.
  - Hold: Increase light intensity rapidly.

- **Down Arrow (v) Button:**

  - Press: Decrease light intensity by 5%.
  - Hold: Decrease light intensity rapidly.

- **Factory Reset:** Hold Power (U) + Up Arrow (^) + Down Arrow (v) simultaneously.
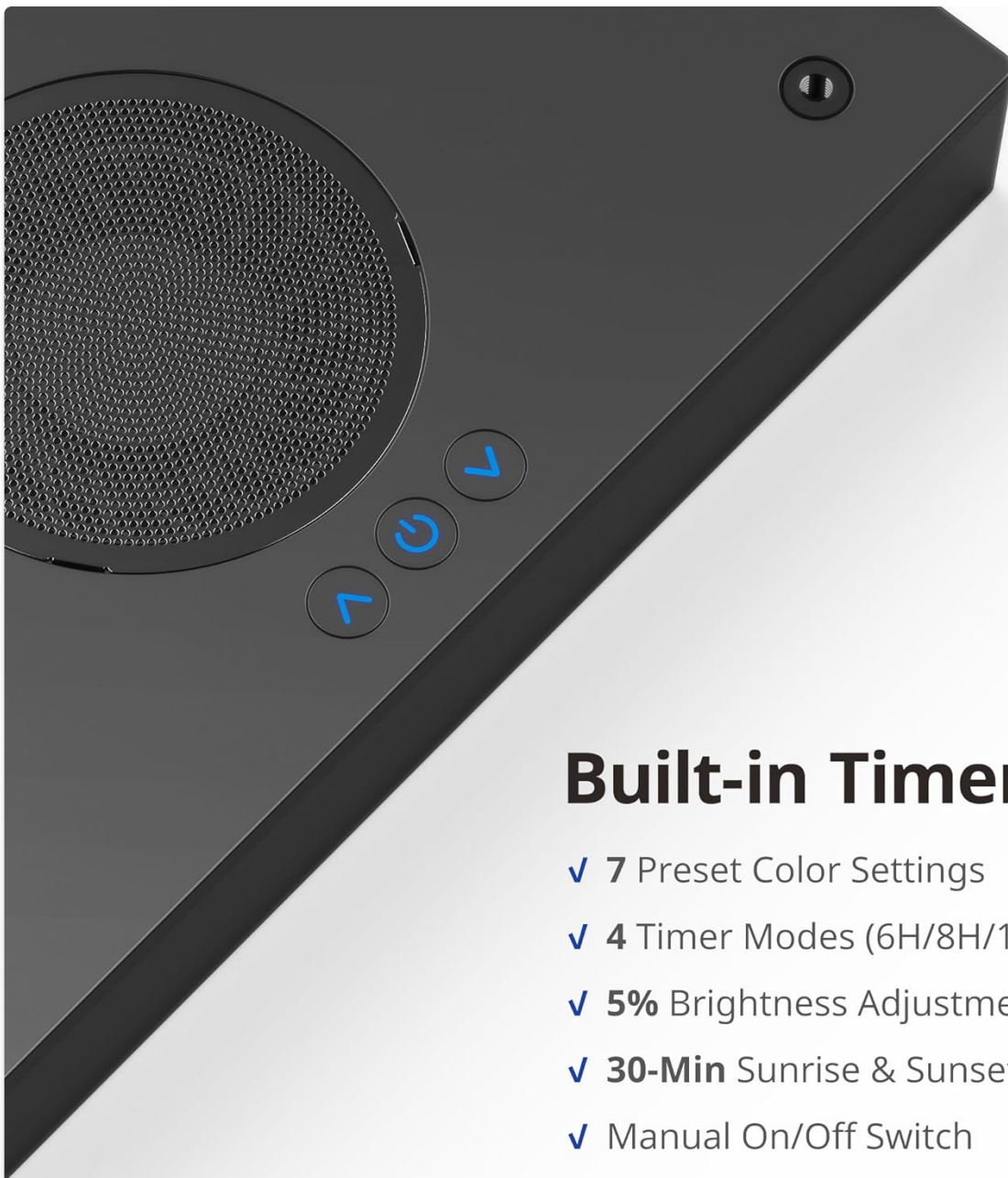
Timer Function:

The NavaReef 135 includes a built-in timer with 4 modes (6H, 8H, 10H, 12H) and a 30-minute sunrise/sunset ramp-up/dim-down period.

- **Enter Timer Function:** Hold Up Arrow (^) + Down Arrow (v) simultaneously.
- **Scroll Timer Modes:** Press Up Arrow (^) or Down Arrow (v) to cycle through available timer modes (6H, 8H, 10H, 12H).
- **Save & Exit:** Press the Power (U) button or wait 20 seconds without any key press to save and exit the settings.

Note: *When in timer mode, preset color settings can be switched and intensities adjusted. However, there will be no Dim-down period that day, and the normal timer cycle will resume the following day.*

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Video 3: Demonstration of the NavaReef button controls and timer function.

Built-in Timer

√ **7** Preset Color Settings

√ **4** Timer Modes (6H/8H/10H/12H)

√ **5%** Brightness Adjustment

√ **30-Min** Sunrise & Sunset

√ Manual On/Off Switch

Image 5: Built-in timer features and control buttons.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your NavaReef 135 LED Light.

- **Cleaning the Light Fixture:** Gently wipe the exterior of the light with a soft, damp cloth. Avoid using abrasive cleaners or solvents.

- **Dust Protection Mesh:** The light features a removable dust-resistant mesh. Periodically remove and clean this mesh to maintain efficient cooling and prevent dust buildup.

- **Lens Cleaning:** Ensure the lenses are free from salt creep or debris. Use a soft cloth and distilled water to clean the lenses if necessary.
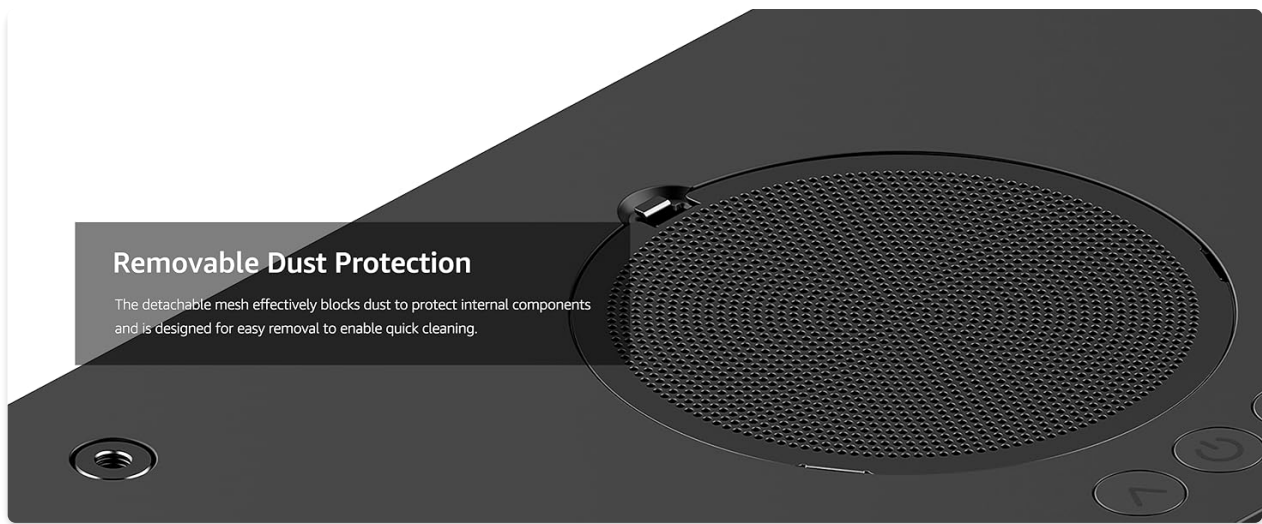
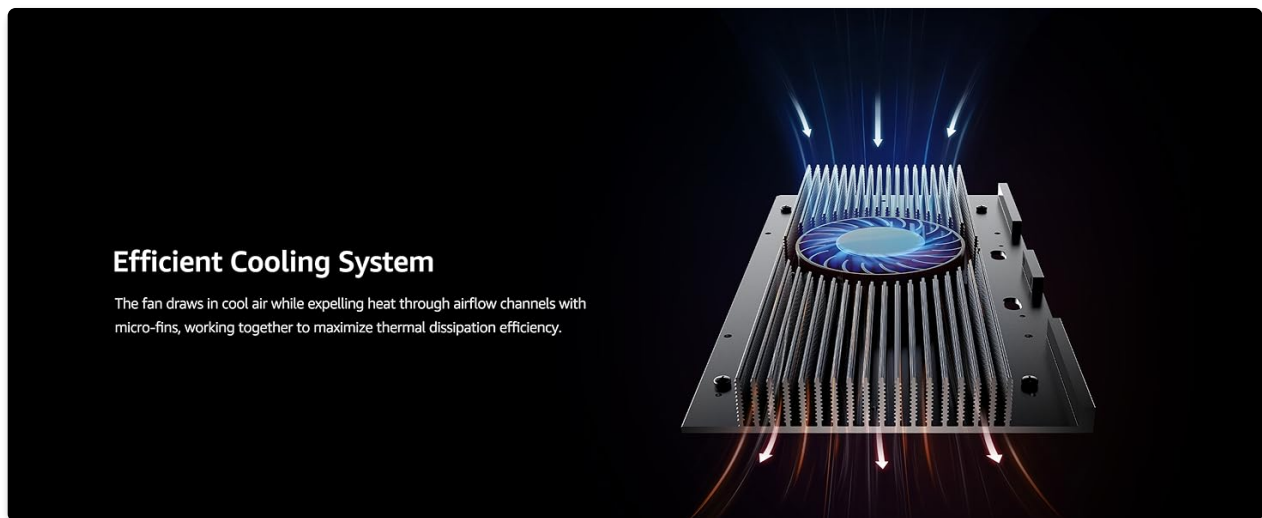*Image 6: Removable dust protection for easy cleaning.*

Image 7: The efficient cooling system with micro-fins for heat dissipation.

7. TROUBLESHOOTING

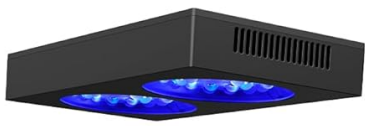This section addresses common issues you might encounter with your NavaReef 135 LED Light.

Problem	Possible Cause	Solution
Light does not turn on.	No power, loose connection, faulty adapter.	Check power outlet, ensure all connections are secure, try a different power outlet.
Light intensity is too low/high.	Incorrect intensity setting.	Adjust intensity using the Up/Down arrow buttons.
Timer function not working as expected.	Incorrect timer setting, temporary override.	Re-enter timer function (Hold ^+v) and verify settings. Note that manual adjustments override the dim-down period for that day.

Problem	Possible Cause	Solution
Excessive noise from the unit.	Dust buildup in fan/mesh.	Clean the dust protection mesh and ensure fan is clear of obstructions.

8. SPECIFICATIONS

Feature	Detail
Model	NavaReef 135 (Item model number: 86013)
Material	Aluminum
Power Consumption	135W at full power
Product Dimensions (L x W x H)	15.8" x 11.5" x 3.8"
Item Weight	5.19 pounds
Number of Light Sources	1
Maximum Coverage (SPS dominant)	24 x 24 inches
Maximum Coverage (Mixed reef)	30 x 30 inches
LED Colors & Quantity	Cool White (4), Royal Blue (16), Blue (14), Violet (6), UV (4), Green (2), Red (2)
Built-in Timer Modes	6H, 8H, 10H, 12H (with 30-min ramp-up/dim-down)

Specifications

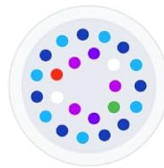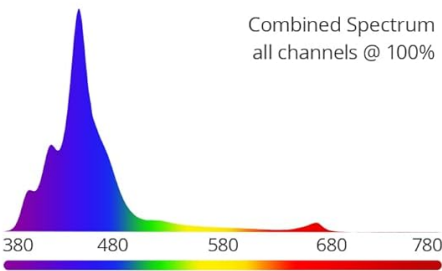
NavaReef 135

Dimensions
8.7 in x 5.0 in x 1.3 in

Power Consumption
135W at full power

Maximum Coverage
24 in x 24 in for SPS dominant tank
30 in x 30 in for mixed reef tank

Spectrum

Combined Spectrum
all channels @ 100%

Symbol	Color	LEDs
○	Cool White	4
●	Royal Blue	16
●	Blue	14
●	Violet	6
●	UV	4
●	Green	2
●	Red	2

Image 8: Detailed specifications and LED configuration of the NavaReef 135.

Blue-Focused Spectrum

The NavaReef's blue-focused spectrum enhances coral fluorescence and growth while maximizing efficiency. Centered on **440-480nm** - where corals photosynthesize and fluoresce most effectively - the light balances biological performance with natural aesthetics.

• Full Spectrum
• Blue Dominant LED Mix
• 5 Channel Tunability
• Visual & Biological Harmony

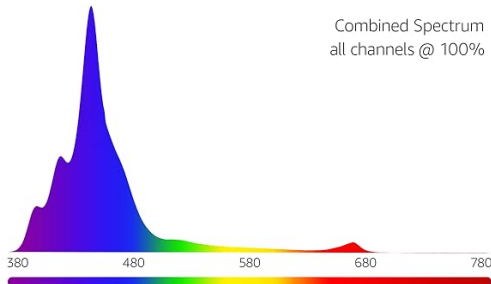Combined Spectrum
all channels @ 100%

Image 9: Combined spectrum of the NavaReef 135 at 100% output.

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official NICREW website or contact their customer service directly. Keep your purchase receipt for warranty claims.

Official Website: www.nicrew.com