

Fluval 16651

Fluval AquaSky LED 3.0 Instruction Manual

Model: 16651 | Brand: Fluval

1. PRODUCT OVERVIEW

The Fluval AquaSky LED 3.0 is an advanced aquarium lighting system designed for both freshwater and saltwater aquariums. It offers comprehensive control over the light spectrum, light cycle, and dynamic effects through the FluvalConnect mobile application. Featuring RGB + dual white LEDs, Bluetooth, and Wi-Fi (2.4 GHz) connectivity, this unit provides a highly customizable and versatile lighting solution to simulate natural light conditions and enhance the vibrancy of aquatic life.

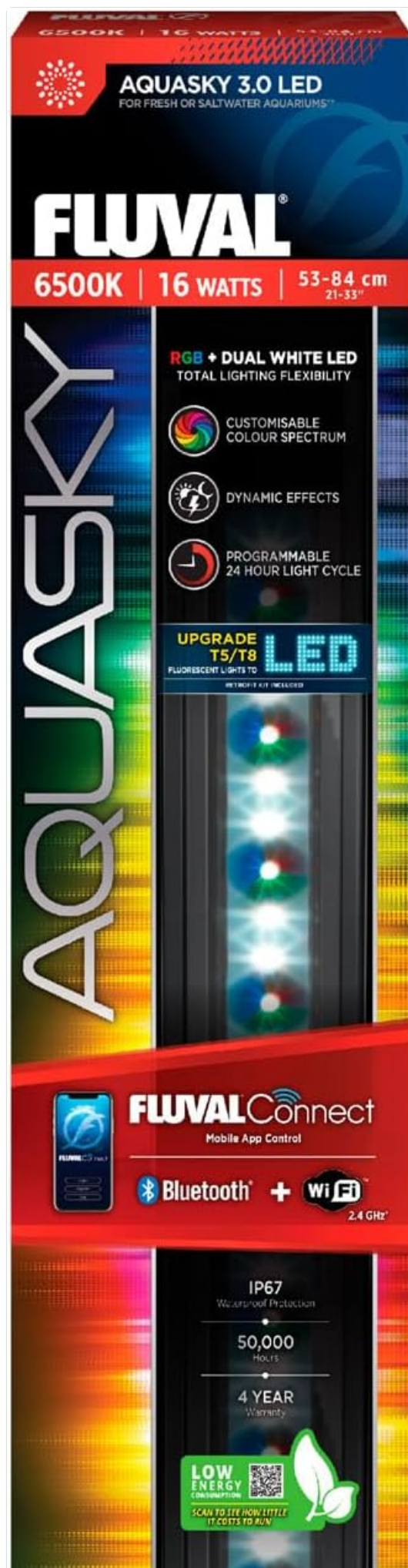


Image: Fluval AquaSky LED 3.0 product packaging, showing key features like RGB + Dual White LEDs, customizable color

spectrum, dynamic effects, and programmable 24-hour light cycle. It also highlights FluvalConnect app control, Bluetooth, Wi-Fi, IP67 water protection, 50,000 hours lifespan, and 4-year warranty.

2. KEY FEATURES

- **Full Spectrum Customization:** Equipped with RGB and dual white LEDs (4000K & 10000K) for complete control over the light spectrum.
- **Programmable 24-Hour Light Cycle:** Mimics natural sunrise, daylight, sunset, and night cycles for optimal aquatic environment.
- **Dynamic Effects:** Create realistic weather effects such as lightning storms and cloudy days.
- **FluvalConnect App Control:** Exclusive control via the FluvalConnect mobile application (Bluetooth and Wi-Fi 2.4 GHz).
- **IP67 Waterproof Rating:** Provides maximum protection against water, humidity, and dust.
- **Durable Construction:** Premium quality glass lens and aluminum housing.
- **Energy Efficient:** Designed for low energy consumption.



Image: A close-up view of the Fluval AquaSky LED 3.0 light fixture, highlighting the individual RGB and white LED diodes and the sleek black aluminum casing with an adjustable end cap.

3. SETUP GUIDE

3.1. Mounting Options

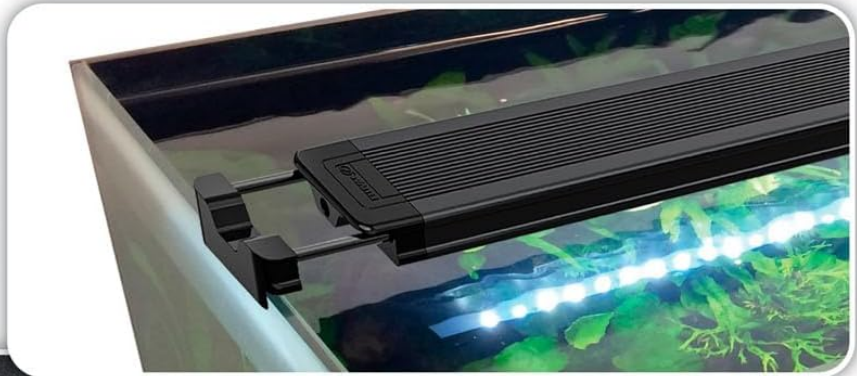
The Fluval AquaSky LED 3.0 offers versatile mounting options to suit various aquarium setups.

- **On Tank:** Utilize the included extendable brackets to securely mount the light directly on top of your aquarium.
- **Under Canopy:** Use the provided clips to install the light fixture underneath an aquarium canopy.
- **T5/T8 Retrofit:** For upgrading existing fluorescent setups, a retrofit kit with clips is included to replace T5 or T8 fluorescent tubes.

Mounting Options

On Tank

Extendable brackets included



Under Canopy

Clips included

T5/T8 Retrofit Kit

Clips included

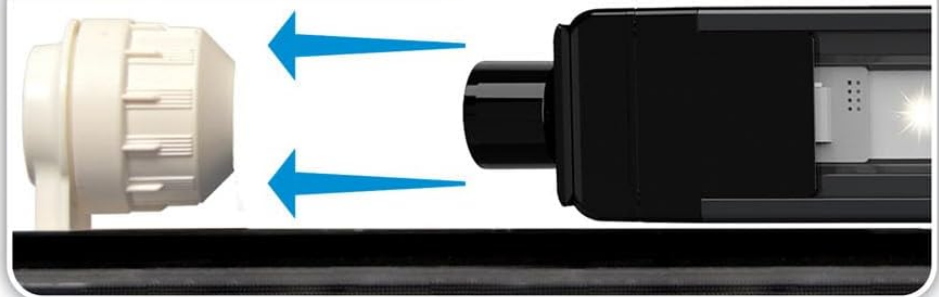


Image: Diagram illustrating the three primary mounting options for the Fluval AquaSky LED 3.0: "On Tank" using extendable brackets, "Under Canopy" using clips, and "T5/T8 Retrofit Kit" showing how to adapt the light to existing fluorescent fixtures.

3.2. Power Connection

1. Ensure the light fixture is securely mounted.
2. Connect the power cable to the light fixture.
3. Plug the power adapter into a suitable electrical outlet.
4. The light will power on in a default mode.

3.3. FluvalConnect App Installation & Connection

The AquaSky 3.0 is controlled exclusively via the FluvalConnect app. Download the app from your device's app store.

1. Download the "FluvalConnect" app from the Google Play Store or Apple App Store.
2. Open the app and follow the on-screen instructions to create an account or log in.
3. Ensure your mobile device's Bluetooth and Wi-Fi (2.4 GHz) are enabled.
4. In the app, select "Add Device" and choose the AquaSky 3.0.

5. Follow the pairing instructions within the app to connect to your light fixture.



Image: Screenshots of the FluvalConnect mobile application interface on multiple smartphones, showing the login/registration screen, device list, and various control options for the AquaSky 3.0 LED light. The image also indicates availability on Google Play and the App Store, and Bluetooth/Wi-Fi connectivity.

4. OPERATING INSTRUCTIONS

Once connected via the FluvalConnect app, you can fully customize your AquaSky LED 3.0.

4.1. Programmable 24-Hour Light Cycle

The app allows you to set a detailed 24-hour light cycle to simulate natural day and night conditions.

1. Navigate to the "Auto" or "Schedule" section within the AquaSky 3.0 controls in the app.
2. Set specific times for:
 - **Sunrise:** Gradual increase in light intensity and color temperature.

- **Daylight:** Peak intensity and desired color spectrum for the main part of the day.
- **Sunset:** Gradual decrease in light intensity and shift to warmer tones.
- **Night:** Low intensity moonlight or complete darkness.

3. Adjust the intensity and color composition for each phase as desired.

4. Save your custom light cycle.

Programmable 24 Hour Light Cycle



Image: A smartphone screen displaying the FluvalConnect app's "Programmable 24 Hour Light Cycle" interface. It shows settings for Sunrise, Sunset, and Sleep times, along with a graph illustrating light intensity changes throughout the day. Background images depict sunrise, daylight, and night scenes in an aquarium.

4.2. Customizing Color Spectrum

The AquaSky 3.0 allows for precise control over individual RGB and white LED channels.

1. In the app, navigate to the "Manual" or "Color" control section.
2. Adjust the intensity sliders for Red, Green, Blue, and White LEDs independently to achieve your desired color blend.
3. Experiment with different combinations to highlight fish colors or promote plant growth.

Customisable Colour Spectrum

RGB+W²
RED GREEN BLUE WHITE
4000K | 10000K



Image: A smartphone screen showing the FluvalConnect app's "Customisable Colour Spectrum" interface. It features an intensity dial and individual sliders for Red, Green, Blue, and White LED channels, allowing users to fine-tune the light output. The background displays a vibrant, multi-colored light spectrum.

4.3. Dynamic Effects

Enhance your aquarium's ambiance with built-in dynamic effects.

- Access the "Dynamic" or "Effects" section in the app.
- Select from pre-programmed effects such as lightning storms, cloudy days, or other atmospheric simulations.
- Adjust the intensity or frequency of effects if available.

True-to-Nature Viewing

Optimised colour spectrum replicates natural sunlight for vivid fish and plant tones.



Image: A beautifully lit aquarium showcasing vibrant fish and lush aquatic plants, demonstrating the "True-to-Nature Viewing" capability of the Fluval AquaSky LED 3.0. The optimized color spectrum replicates natural sunlight for vivid tones.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Fluval AquaSky LED 3.0.

- **Cleaning:** Periodically wipe the light fixture and lens with a soft, damp cloth to remove water spots, dust, or algae buildup. Ensure the unit is unplugged before cleaning. Do not use abrasive cleaners.
- **Cable Inspection:** Regularly check the power cable and connections for any signs of wear, damage, or corrosion. Replace if necessary.
- **Ventilation:** Ensure the light fixture has adequate airflow around it to prevent overheating, especially if installed under a canopy.

6. TROUBLESHOOTING

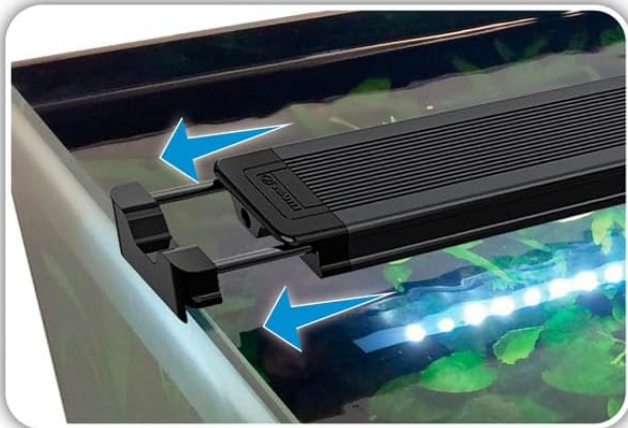
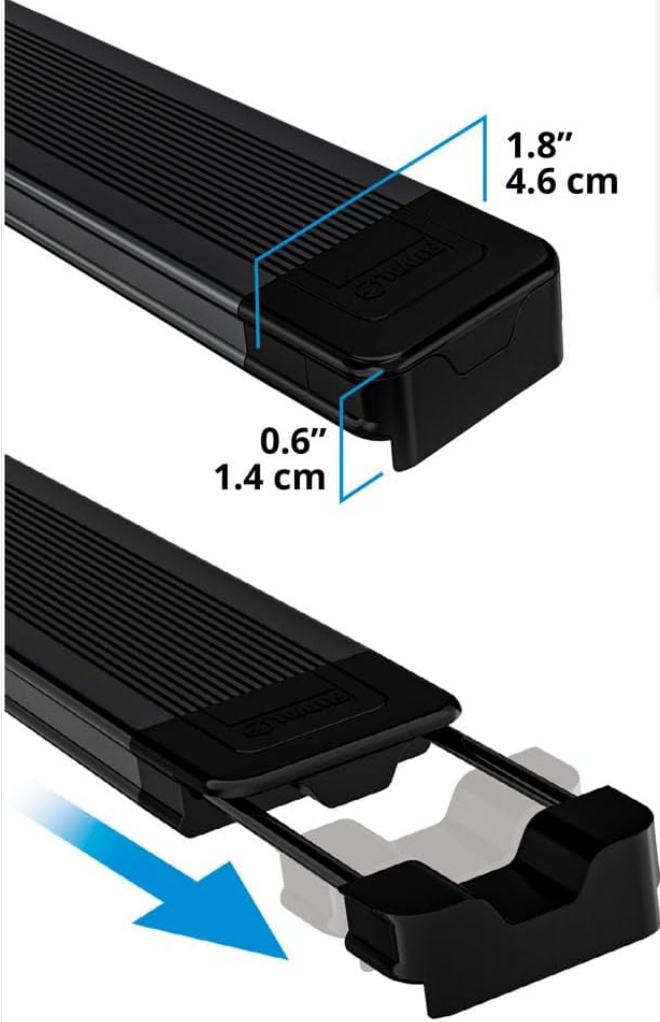
Common issues and their solutions.

Problem	Possible Cause	Solution
Light does not turn on.	No power, loose connection, faulty power adapter.	Check power outlet, ensure all connections are secure. Test with another outlet if possible.
Cannot connect to FluvalConnect app.	Bluetooth/Wi-Fi off, incorrect network, app issue, light not in pairing mode.	Ensure Bluetooth and 2.4 GHz Wi-Fi are enabled on your device. Restart the app and the light fixture. Follow in-app pairing instructions carefully.
Light cycle not working as programmed.	Incorrect app settings, time zone issues, app not synced.	Verify programmed times in the app. Ensure your device's time and time zone are correct. Resync the app with the light.
Light flickers or dims unexpectedly.	Unstable power supply, loose connection, internal fault.	Check power connections. Ensure the power outlet is stable. If issues persist, contact customer support.

7. SPECIFICATIONS

Attribute	Detail
Brand	Fluval
Model Number	16651
Power (Wattage)	16 Watts (for 53-84 cm model)
Maximum Watts	46 Watts (compatible source)
Voltage	240 Volts
Dimensions (L x W x H)	13 x 6 x 67 cm (5.1 x 2.4 x 26.4 inches)
Weight	5 Kilograms (11 lbs)
Material	Aluminum (housing), Glass (lens)
Color	Black
IP Rating	IP67 (Water, humidity, and dust protection)
Connectivity	Bluetooth, Wi-Fi (2.4 GHz)

Attribute	Detail
Light Source	RGB + Dual White LEDs
Color Rendering Index (CRI)	90.0
Energy Efficiency Class	F



Item	Size Range	Wattage
16650	15-24.5" 38-63 cm	12W
16651	21-33" 53-84 cm	16W
16652	30-41" 75-106 cm	21W
16653	33-45" 83-115 cm	25W
16654	36-48.25" 91-123 cm	27W
16655	39-51" 99-130 cm	30W
16656	45.25-57.5" 115-146 cm	33W

Image: A diagram showing the physical dimensions (width and height) of the Fluval AquaSky LED 3.0 fixture, along with a table listing different item numbers, their corresponding size ranges (in inches and cm), and wattage.

8. WARRANTY AND SUPPORT

Fluval AquaSky LED 3.0 comes with a manufacturer's warranty. Please refer to the warranty card included in your product packaging for specific terms and conditions.

- **Warranty Period:** Typically 4 years, as indicated on product packaging.
- **Customer Support:** For technical assistance, troubleshooting beyond this manual, or warranty claims, please




contact Fluval customer service. Visit the official Fluval website for contact information.


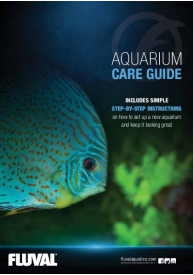

- **Software Updates:** Ensure your FluvalConnect app is always updated to the latest version for optimal performance and new features.

© 2025 Fluval. All rights reserved.

This manual is for informational purposes only. Specifications are subject to change without notice.

Related Documents - 16651

	<p>Fluval Aquasky 3.0 LED Instruction Manual</p> <p>Comprehensive instruction manual for the Fluval Aquasky 3.0 LED aquarium lighting system. Learn about installation, maintenance, troubleshooting, and warranty information.</p>
	<p>Fluval Vicenza & Venezia Aquarium Kits: Instruction Manual</p> <p>Comprehensive instruction manual for Fluval Vicenza and Venezia aquarium kits, covering setup, installation of filters and heaters, decoration, lighting, and maintenance. Includes safety guidelines and technical specifications.</p>
	<p>FluvalConnect App User Manual</p> <p>A comprehensive user manual for the FluvalConnect app, detailing its features for controlling Fluval aquarium LED lighting series, including setup, operation modes (Manual, Auto, Pro), device management, and account settings.</p>

 <p>The image shows the cover of the Fluval Aquasky 3.0 LED instruction manual. It features the Fluval logo at the top, followed by 'AQUASKY' in large letters. Below that, it says 'INSTRUCTION MANUAL', 'MODE D'EMPLOI', and 'MANUAL DE INSTRUCCIONES'. There are QR codes for downloading the FluvalConnect app, and logos for Android and iOS. At the bottom, there is a '2 YEAR WARRANTY' badge and the Fluval logo with the website 'fluvalusa.com'.</p>	<p>Fluval Aquasky 3.0 LED Aquarium Light: Instruction Manual & Safety Guide</p> <p>Comprehensive instruction manual for the Fluval Aquasky 3.0 LED aquarium light. Learn about safe installation, operation, maintenance, troubleshooting, and warranty details for your Fluval lighting system.</p>
 <p>The image shows the cover of the Fluval Aquarium Care Guide. It features a vibrant image of a blue and yellow striped fish swimming in an aquarium. The text 'AQUARIUM CARE GUIDE' is prominently displayed. Below it, it says 'INCLUDES SIMPLE STEPS FOR SETTING UP, MAINTAINING, AND ENJOYING A HEALTHY AQUARIUM'. The Fluval logo is at the bottom left.</p>	<p>Fluval Aquarium Care Guide: Setup, Maintenance, and Fish Keeping</p> <p>A comprehensive guide from Fluval on setting up, maintaining, and enjoying a healthy aquarium. Covers essential equipment, plant care, water quality, fish introduction, feeding, disease prevention, and algae control.</p>
 <p>The image shows the cover of the FluvalConnect App User Manual. It features a collection of Fluval LED lighting products and the FluvalConnect app icon. The text 'FluvalConnect App User Manual' is at the top. Below the product images, there is a 'LOW OVERSIGHT' section with a '1.5 Guarantee'.</p>	<p>FluvalConnect App User Manual - Control Your Aquarium Lighting</p> <p>Comprehensive user manual for the FluvalConnect app, detailing how to connect and control Fluval LED aquarium lighting systems, including setup, operation modes (Manual, Auto, Pro), firmware updates, and account management.</p>