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Model: TS-F2220

1. PRODUCT OVERVIEW

The T-SUN TS-F2220 is a versatile colored LED underwater light designed for various aquatic and landscape applications. It features Bluetooth app control and a remote control for managing its 16 million colors, multiple scene modes, and timing functions. The light is IP68 waterproof, ensuring durability in submerged environments, and operates at a safe low voltage of 5V.



Image 1.1: The T-SUN TS-F2220 LED Underwater Pond Light, showing the light unit with suction cups, power adapter, remote control, and a smartphone displaying the control app.

2. SAFETY INFORMATION

- **Low Voltage Safety:** This product operates at a safe 5V output, posing no risk to aquatic life or humans when submerged.
- **Waterproof Connection:** The light unit is IP68 waterproof. However, the power adapter and connection points must remain dry and out of water to prevent short circuits. For outdoor use, ensure the connection is housed in a waterproof junction box.
- **Power Source:** Use only the provided power adapter. Do not attempt to connect the light to a power source with a different voltage.
- **Cable Integrity:** Regularly inspect the power cable for any damage. Do not use the product if the cable is damaged.
- **Installation:** Ensure the light is securely installed to prevent it from becoming a hazard.



Image 2.1: Illustration highlighting the safe 5V output and IP68 waterproof rating of the light unit, along with the power adapter and control options.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- T-SUN TS-F2220 LED Underwater Pond Light (1 unit)
- Power Adapter (5V)
- Remote Control
- Mounting Hardware (e.g., suction cups, optional ground stake)
- Instruction Manual (this document)

4. SETUP

4.1 Physical Installation

The T-SUN TS-F2220 light offers two installation methods:

1. Underwater Installation:

- Attach the included suction cups to the base of the light.
- Press the light firmly onto a clean, smooth surface at the bottom or side of your pond, fountain, or aquarium.
- For rough surfaces or additional stability, use the integrated weights (if applicable) or external weights to keep the light submerged and in place.
- Adjust the light head to the desired angle (up to 180°).

2. Ground Installation:

- Attach the optional ground stake (if included) to the base of the light.
- Insert the stake firmly into the ground in your garden, pathway, or yard.
- Adjust the light head to illuminate the desired area.

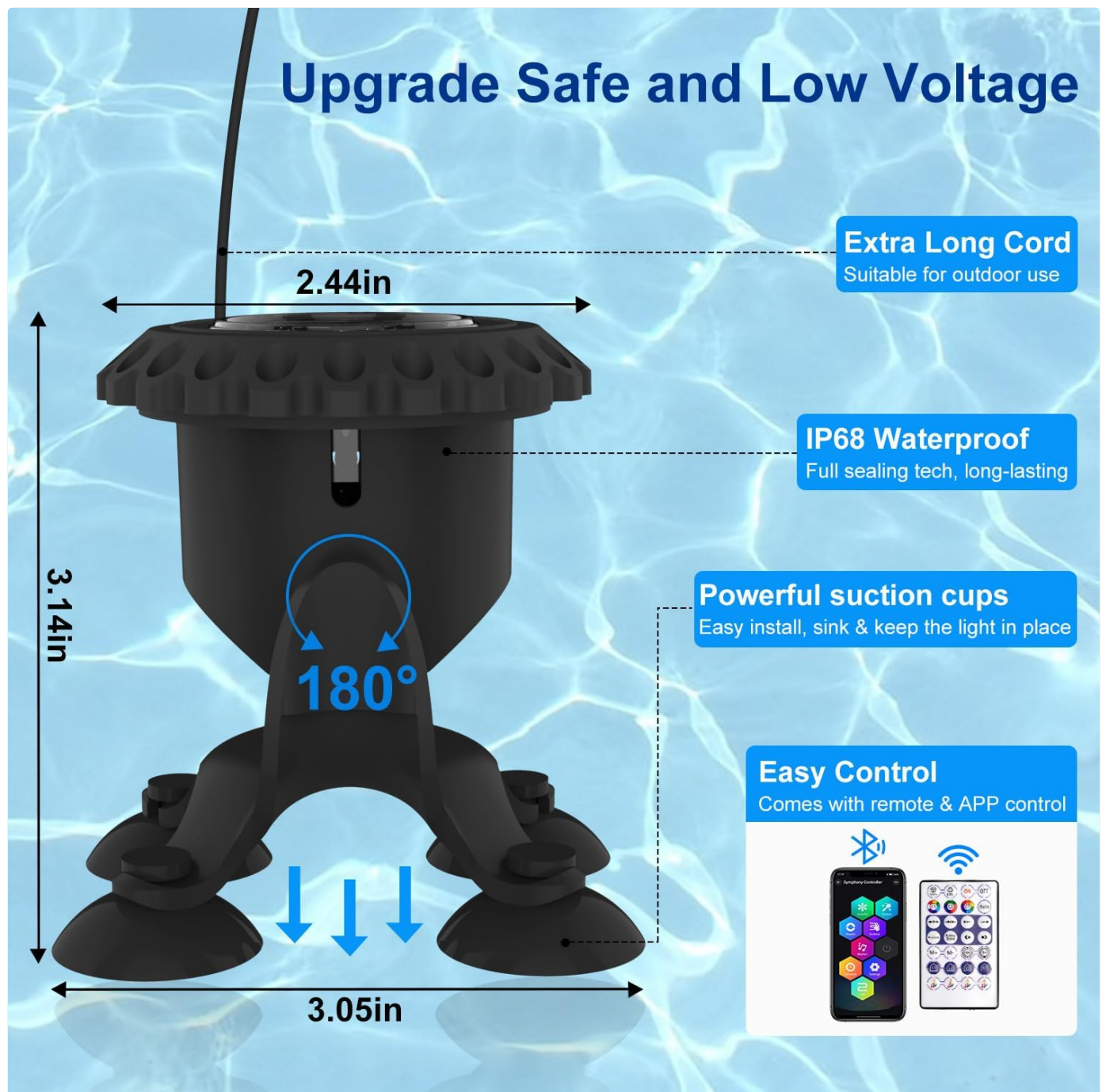


Image 4.1: Detailed view of the light unit, highlighting its dimensions, IP68 waterproof rating, powerful suction cups, and 180° adjustable light head.

4.2 Power Connection

1. Connect the light's cable to the provided 5V power adapter.
2. Plug the power adapter into a standard electrical outlet.
3. **Important:** Ensure the power adapter and all connection points are located in a dry area, away from water, to prevent electrical hazards.

4.3 App Installation and Pairing (Bluetooth)

To unlock the full range of features, download and connect to the control app:

1. **Download the App:** Search for "Surplife" in your smartphone's App Store (iOS) or Google Play Store (Android).
2. **Install and Open:** Install the app and open it. You may choose to create an account for saving settings or proceed without one for quick access.

3. **Enable Bluetooth:** Ensure Bluetooth is enabled on your smartphone.
4. **Power On Light:** Plug in your T-SUN light to power it on.
5. **Add Device:** In the "Surplife" app, navigate to the home screen and tap the "+" icon to search for new devices.
6. **Pair:** Select the detected T-SUN light from the list to pair.
7. **Name Device:** Give your light a descriptive name (e.g., "Backyard Pond Light") and save.
8. **Control:** You can now control your light using the app.



Image 4.2: Visual guide for downloading the "Surplife" app, enabling Bluetooth, powering on the light, adding the device, naming it, and gaining control.

5. OPERATING INSTRUCTIONS

5.1 Bluetooth App Control

The "Surplife" app provides extensive control over your T-SUN light:

- **Color Selection:** Access a palette of 16 million colors. Adjust brightness (1-100% dimming) and saturation.
- **DIY Color Mode:** Utilize the "Scribble" module within the app to set individual colors for each LED bead, creating custom lighting patterns.
- **Scene Modes:** Choose from various pre-set scene modes for different atmospheres or occasions.
- **Music Sync:** Synchronize the light effects with music playing on your device or through the microphone.
- **Timing Control:** Set schedules for the light to turn on/off at specific times, or activate specific modes. The light retains these settings with its memory function.

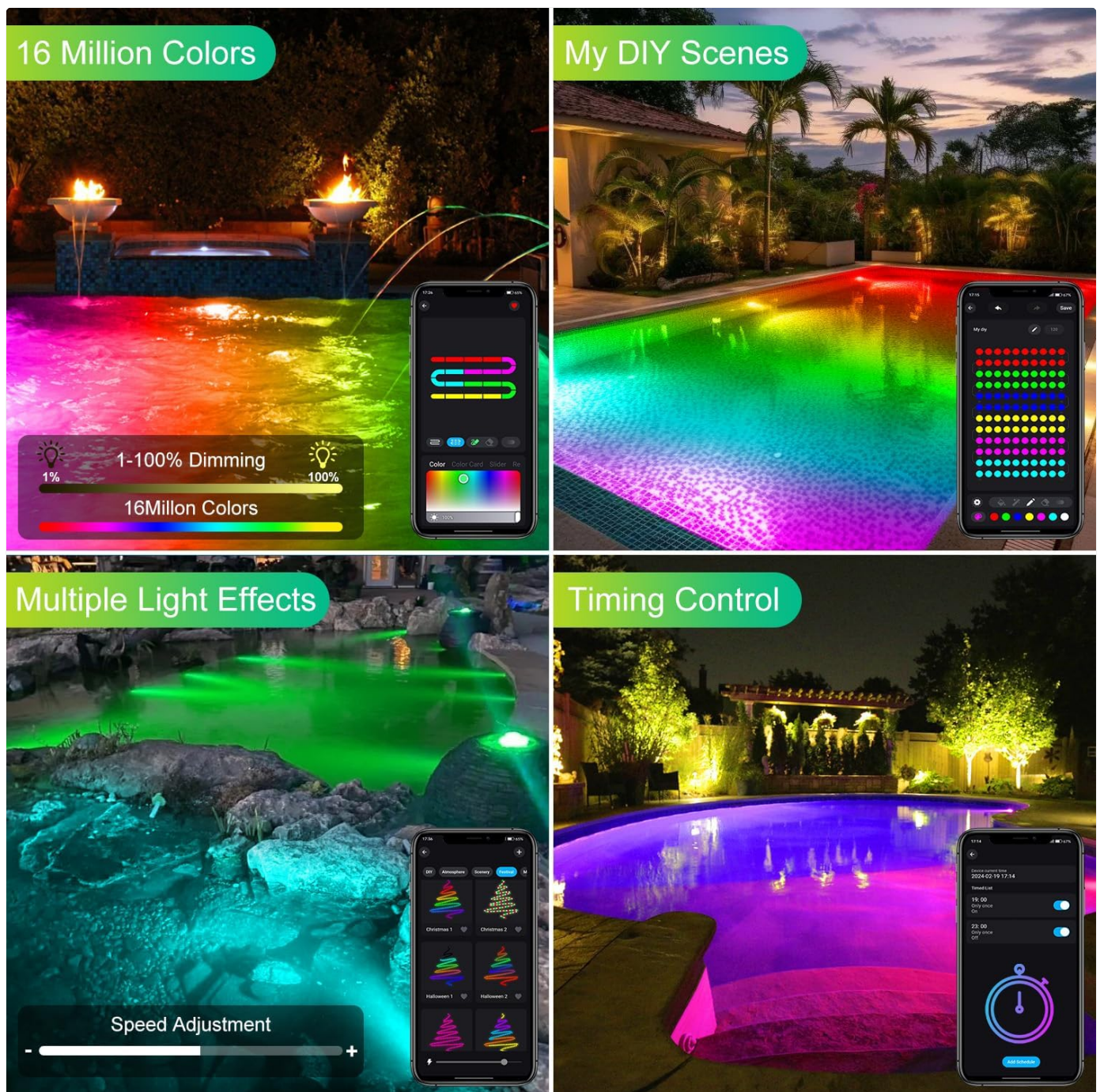


Image 5.1: App interface demonstrating color selection, DIY scene creation, various light effects, and timing functionalities.



Image 5.2: The app's timing interface, allowing users to schedule on/off times and specific modes for the light.



Image 5.3: The DIY color mode interface, where users can customize the color of each individual LED bead.



Image 5.4: The music synchronization feature within the app, allowing lights to react to audio input.

5.2 Remote Control Functions

The included remote control provides convenient access to basic functions:

- **Power On/Off:** Turn the light on or off.
- **Color Selection:** Select from a range of pre-set colors.
- **Brightness Adjustment:** Increase or decrease the light intensity.
- **Mode Selection:** Cycle through various dynamic lighting modes.
- **Timer:** Activate basic timer functions (e.g., 2H/4H/6H if available).

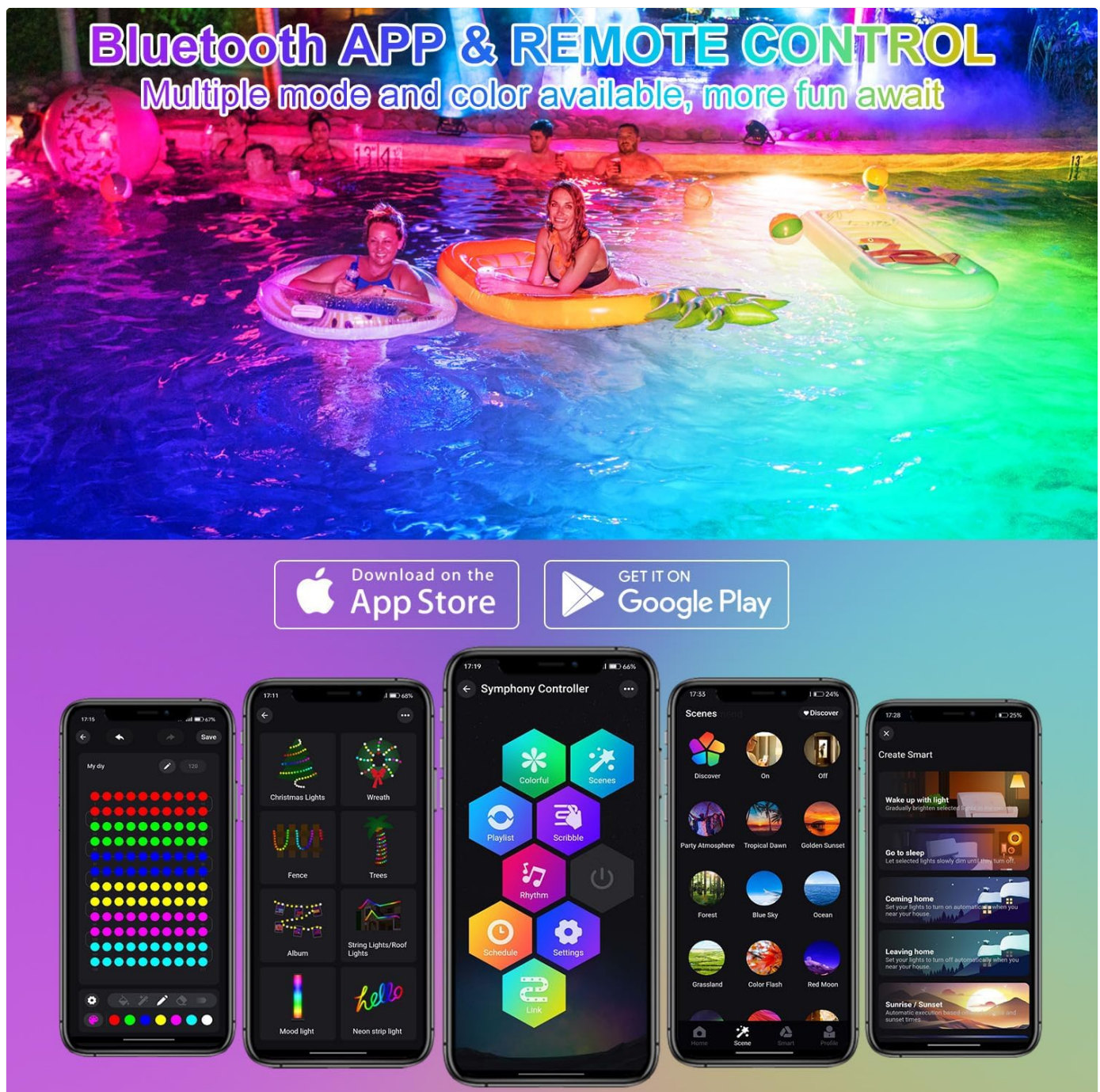


Image 5.5: The physical remote control and a representation of the Bluetooth app interface, both used for controlling the light.

6. MAINTENANCE

- **Cleaning:** Periodically clean the light unit with a soft cloth to remove any algae or debris that may accumulate, especially if submerged. Do not use harsh chemicals or abrasive materials.
- **Cable Inspection:** Regularly check the power cable and connections for any signs of wear, cuts, or damage.
- **Connection Points:** Always ensure that the power adapter and all electrical connections remain dry and protected from water exposure.
- **Remote Control Battery:** If the remote control's functionality diminishes, replace its battery. Refer to the remote's specific instructions for battery type and replacement procedure.

7. TROUBLESHOOTING

- **Light does not turn on:**

- Check if the power adapter is securely plugged into a working outlet.
- Ensure the light's cable is properly connected to the power adapter.
- Verify that the remote control battery is functional or try controlling via the app.

• **App cannot connect to the light:**

- Ensure Bluetooth is enabled on your smartphone.
- Make sure the light is powered on and within Bluetooth range.
- Close and reopen the "Surplife" app.
- Restart your smartphone.
- If the issue persists, try unpairing and re-pairing the device in the app.

• **Remote control is unresponsive:**

- Check and replace the remote control battery if necessary.
- Ensure there are no obstructions between the remote and the light's receiver.

• **Suction cups do not hold:**

- Ensure the surface is clean and smooth before attaching the suction cups.
- For rough or uneven surfaces, use additional weights or consider ground installation.

• **Light flickers or changes color unexpectedly:**

- Check for loose connections.
- Ensure the power supply is stable.
- Reset the light by unplugging it for a few seconds and then plugging it back in.

8. SPECIFICATIONS

Feature	Specification
Model Name	TS-F2220
Brand	T-SUN
Light Source Type	LED
Number of Light Sources	6 per unit
Voltage	5 Volts (Low Voltage)
Control Method	Bluetooth App, Remote Control
Color Options	16 Million Colors (RGB Full Spectrum)
Special Features	Adjustable Color Temperature, Color Changing, Dimmable, Timer, Music Sync, DIY Scenes
Water Resistance Level	IP68 Waterproof
Material	Acrylonitrile Butadiene Styrene, Polycarbonate

Feature	Specification
Product Dimensions	2.76"L x 2.76"W x 2.36"H
Item Weight	12.3 ounces
Installation Type	Underwater/Ground Mount (2-in-1)
Power Source	Corded Electric

9. WARRANTY AND SUPPORT

This product comes with an extended warranty. For specific warranty details, claims, or technical support, please refer to the warranty information provided with your purchase or contact T-SUN customer service through the platform where the product was purchased. You may also visit the official T-SUN brand store for additional resources and contact options.

ASK A QUESTION ABOUT THIS MANUAL

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