

# D105R

SPOT LIGHT



## INSTALLATION GUIDE

ABBA LIGHTING USA

# DIOSR

SPOT LIGHT



**TOTAL: 31W**  
**RED 5W, GREEN 5W,**  
**BLUE 5W, COOL 8W,**  
**WARM 8W**  
**12V AC/DC**



# ABBA

LIGHTING USA

*12V Landscape Light Specialist*

Thank you for choosing our high-quality product. To ensure the best possible experience, please take a moment to carefully read and follow all instructions before assembly, installation, and use. Doing so will not only guarantee proper function and safety but also help you maximize the full potential of this exceptional product. We truly appreciate your business and are honored to be your trusted provider of top-notch products!



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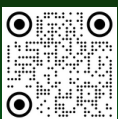
# WARNING

## TO REDUCE THE RISK OF FIRE OR INJURY TO PERSONS:

- ✔ Please exercise caution when using the lamp, as it tends to HEAT up rapidly. We recommend taking necessary safety measures to ensure optimal usage.
- ✔ For your safety, please refrain from touching the HOT lens, guard, or enclosure. We recommend waiting for the product to cool down before handling it.
- ✔ To prevent any fire hazards, please ensure that the lamp is kept away from materials that may easily catch fire. We appreciate your cooperation in maintaining a safe and secure environment.
- ✔ For safety reasons, we recommend that only a qualified professional install this electrical product.
- ✔ Before attempting to install this unit, ensure all power connections are off for your own safety.

# WARRANTY

- We stand behind the quality of our product and offer a 2 year warranty. Kindly ensure that you keep the proof of purchase as it will be required for any warranty claims.
- Warranty will be void if there is any damage due to improper usage or modification to the fixture.
- Failure to comply with the instruction in this manual may increase the risk of damage or injury and will void warranty.



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**DO NOT INSTALL WITHIN 10 FEET OF A POOL, SPA OR FOUNTAIN**

## **DL05R-RGBCW 12V LED RGB Spot Light – Dynamic Color, Rugged Design, Endless Possibilities**

Take your landscape lighting to the next level with the DL05R-RGBCW Spot Light from Abba Lighting USA—a premium, low-voltage RGBCW spotlight that delivers vibrant, customizable illumination while withstanding the elements year-round. Designed for homeowners, contractors, and designers seeking style, flexibility, and longevity in outdoor lighting, the DL05R-RGBCW combines cutting-edge LED technology with rugged construction to transform any exterior environment into a stunning visual experience.

### **Exceptional RGBCW Illumination at Your Fingertips**

Unlike standard white lights, the DL05R-RGBCW features a full-spectrum RGBCW LED module that gives you the power to paint your landscape with color. From serene blues and greens to bold reds and purples, you can easily tailor your lighting scheme to match seasonal themes, holiday moods, or evening ambiance—all with the push of a button.

RGBCW Benefits:

- Endless color combinations
- Static and dynamic color modes (fade, jump, strobe, etc.)
- Ideal for holiday lighting, party settings, or everyday ambiance
- Compatible with various RGB controllers for full user control

### **Focused, Effective Beam for Highlighting Features**

Equipped with a 50° beam angle, the DL05R-RGBCW is engineered to provide concentrated light ideal for accenting specific landscape features. Whether highlighting a majestic tree, a textured wall, a garden sculpture, or architectural elements, this spotlight ensures crisp, vivid, and glare-free projection.



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Use It To Illuminate:

- Trees and shrubs
- Pathways and walkways
- Statues and water features
- Columns, facades, and exterior structures
- Entryways and signage

## Built to Withstand the Elements

Outdoor lighting must be tough, and the DL05R-RGBCW is no exception. Constructed from heavy-duty cast aluminum, the fixture is engineered to resist corrosion, heat, moisture, and UV damage. The rugged body is finished with a weatherproof powder coat for enhanced durability and longevity.

Its IP65 waterproof rating guarantees protection against rain, dust, and water jets from any angle, ensuring reliable performance in all climates—from dry deserts to humid coastal environments.

## Fast and Flexible Installation

Installation is simple, fast, and user-friendly. The DL05R-RGBCW includes a durable ABS ground spike, making it easy to position the fixture exactly where you need it in flower beds, lawns, or garden borders. The standard 12V low-voltage system allows for safe integration into existing outdoor lighting setups using a landscape transformer.



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## Technical Specifications

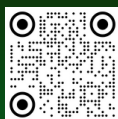
- IModel: DL05R-RGBCW
- Housing Material: Heavy-Duty Cast Aluminum
- Finish: Textured black powder coating
- Power Supply: 12V AC/DC low-voltage
- Light Source: Integrated RGBCW LED module
- Beam Angle: 50°
- Waterproof Rating: IP65
- Mounting: ABS ground spike (included)
- Application: Landscape, architectural, residential, commercial

## Why Choose the DL05R-RGB Spot Light?

- Color Customization: Easily change lighting to suit mood or event
- Durability: Heavy-duty build and weatherproofing for year-round use
- Precision Lighting: 50° beam for focused accents and architectural highlights
- Low Voltage: Safe, energy-efficient operation
- Easy Installation: Plug-and-play design with included mounting hardware

Whether you're looking to entertain, impress, or simply relax in a beautifully lit environment, the DL05R-RGBCW Spot Light offers the flexibility, style, and strength to meet all your outdoor lighting needs.

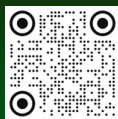
Abba Lighting USA stands by its commitment to quality—offering fixtures that are as dependable as they are visually stunning.



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## TOOLS & MATERIALS NEEDED

### Tools:

- Shovel or trowel
- Wire stripper
- Screwdriver
- Tape measure

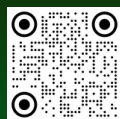
### Materials:

- DL05R Spot Light
- Ground stake (included)
- Electrical connectors (for hardwiring)
- Low-voltage transformer (for low-voltage systems)
- WN12 Wire nuts (Sold Separately)

## STEP-BY-STEP INSTALLATION INSTRUCTIONS

### Step 1: Plan Your Layout

- **Determine Placement:** Choose the path or area where the lights will be installed. Measure the distance between lights to ensure even illumination. A typical spacing is 6–10 feet apart, depending on the desired light spread.
- **Consider Power Source:** Ensure that the path light can be connected to a suitable power source.



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## Step 2: Prepare the Ground

- **Dig the Hole:** Using a shovel or trowel, dig a hole where you want to install the path light. The hole should be deep enough to accommodate the ground stake.
- **Ensure Stability:** Make sure the hole is wide enough to allow the ground stake to sit firmly. Test-fit the stake by inserting it into the hole to ensure stability before proceeding.

## Step 3: Connect the Electrical Wiring

- **Strip the Wires:** Use a wire stripper to strip ½ inch of insulation from the end of the light's wires.
- **Connect to the Transformer:** Attach the wires to the low-voltage transformer, . Ensure the positive and negative terminals are correctly aligned.
- **Waterproof the Connections:** Use WN12 waterproof wirenuts (Sold Separately) to protect the wiring from moisture and outdoor conditions when connecting the wires from the fixture.

## Step 4: Attach the Spot Light

- **Mount the Fixture:** Once the wiring is complete, securely attach the DL05R Spot light to the ground stake.
- **Secure the Fixture:** Ensure the fixture is stable and upright. Adjust the positioning as needed before tightening the fixture in place.

## Step 6: Final Light Check

- **Power On:** Once everything is connected, turn on the power to the fixture.
- **Check Illumination:** Verify that the path light is functioning properly and provides adequate illumination for the area



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## Step 7: Pairing your phone with the apP

Begin by connecting your phone to a 2.4Ghz Wifi-Network. Scan the QR code to download and install the HAPPY LIFE APP or the TUYA APP. For iOS devices (iPhone or iPad), visit the App Store. For Android devices, download it from the Google Play Store.

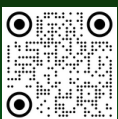
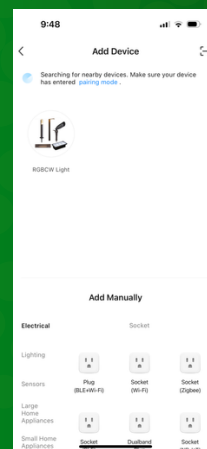
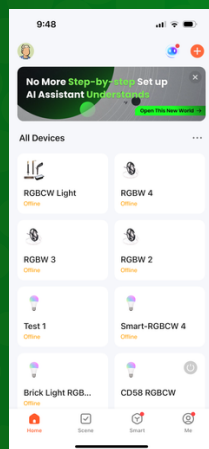


Tuya Smart App



Smart Life App

- After downloading your APP. Proceed to register your account using your mobile number. Expect a verification code via text message or email within a few minutes. Enter the code when prompted to establish your password.
- Open the app and carefully follow the instructions displayed on the screen.
- Press the button located at the back of the light fixture for 3–5 seconds until the light starts flashing
- Select “ADD DEVICE”



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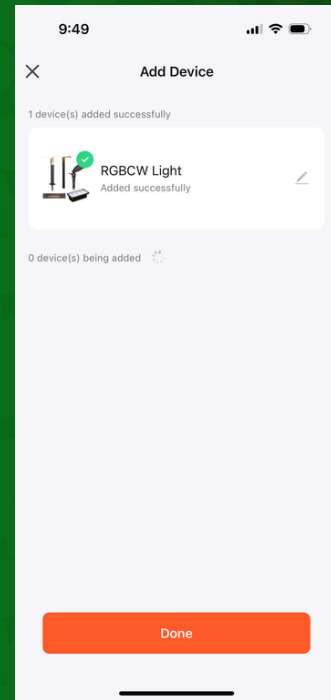
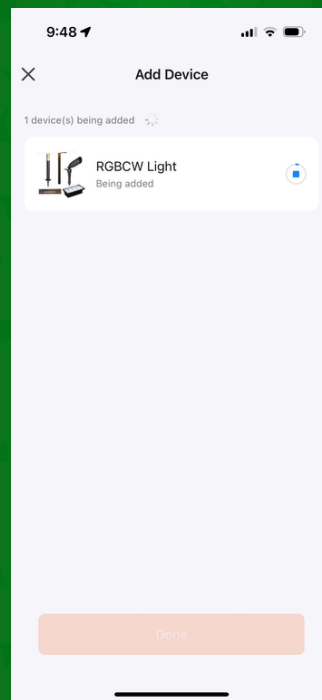
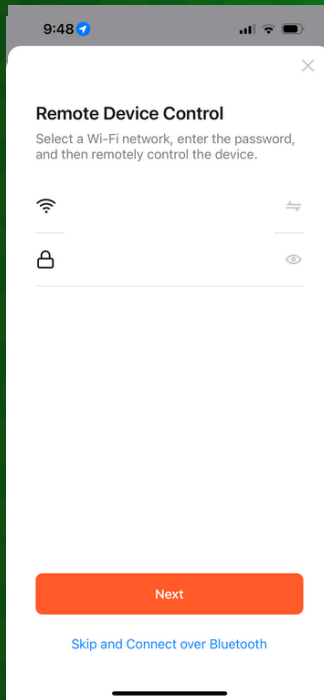
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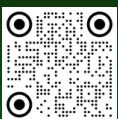
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- Proceed by choosing your 2.4 Ghz WI-FI network and input the corresponding password
- Upon successful completion. You will receive a prompt confirming that the device has been successfully added.



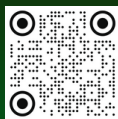
- Open the app to customize the lighting to your preference



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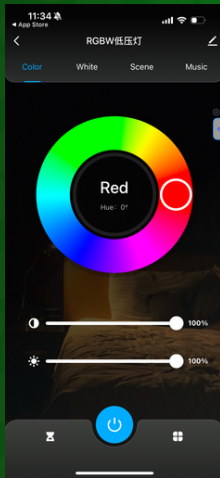
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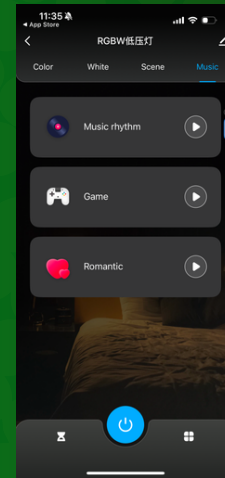
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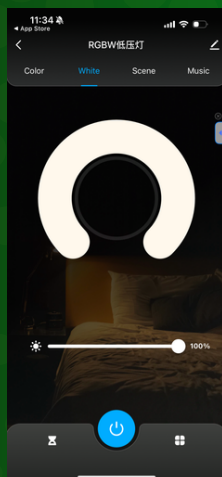
RGBCW color mode, where you can modify both the RGB (Red, Green, Blue) color settings and the brightness. The app includes 6 presets and 6 standard color buttons for quick access to individual channels.



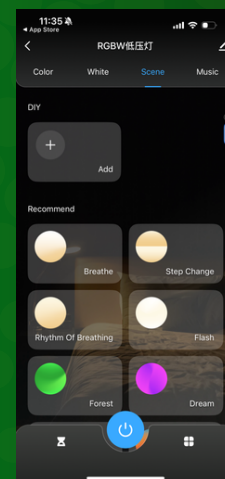
Music Mode: In this mode, the connected DL05R reacts to external sounds and noise levels, functioning like a microphone to light up accordingly.



RGBCW white mode, where you can modify both the brightness of DL05R.



Scene Mode: Choose from a variety of available modes.



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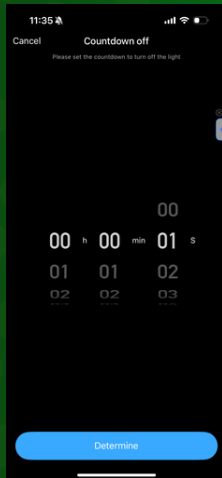
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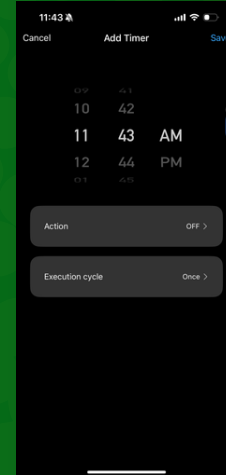
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Countdown mode.

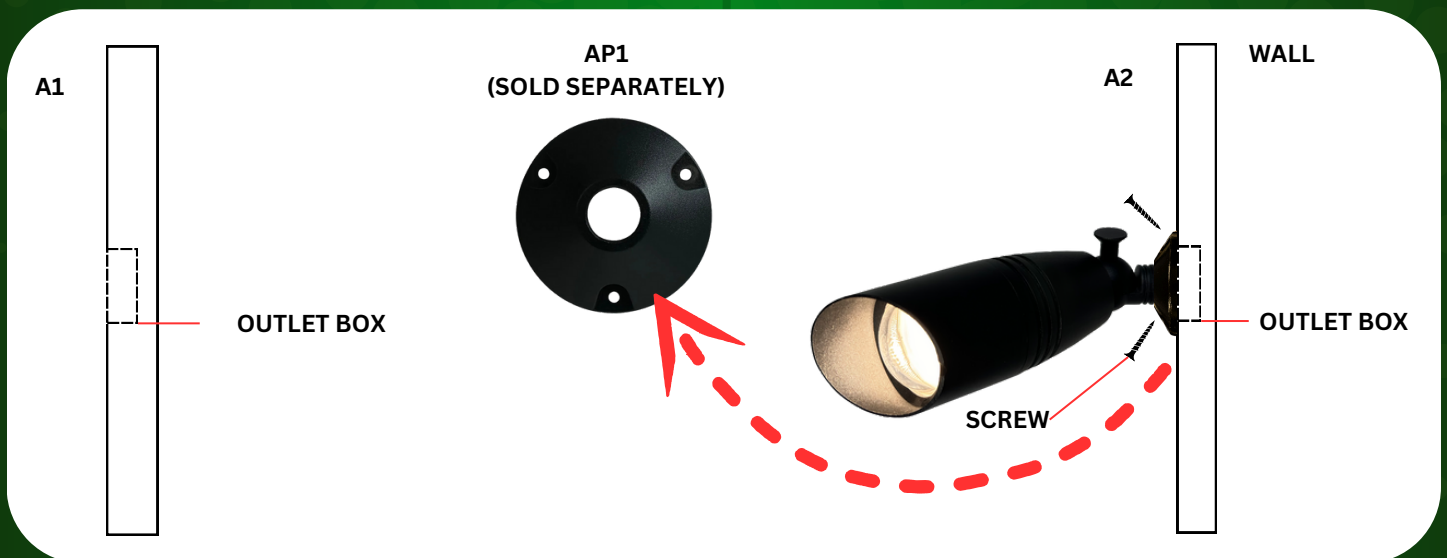


Timer mode.



## WALL MOUNTED INSTALLATION

Secure the outlet box cover (not included) to the outlet box using screws. Complete the branch connections as shown in the wiring diagram above. Push all wiring back into the outlet box, and thread the fixture onto the outlet box cover. Refer to the operational steps illustrated in Figures A1 and A2.



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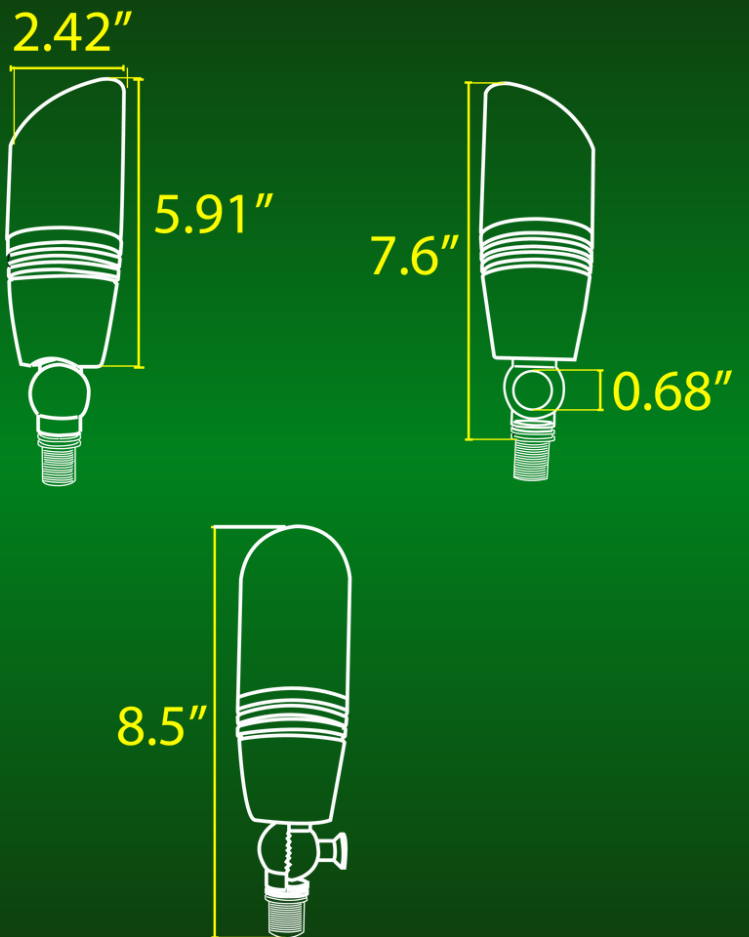
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We strongly recommend that the main cable from the transformer be buried underground for safety reasons. Additionally, please be sure to avoid exceeding the maximum wattage on the fixture(s) to prevent any damage or hazards



Connect the wires using  
WN12 (Sold separately)

Main Line



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## MAINTENANCE TIPS

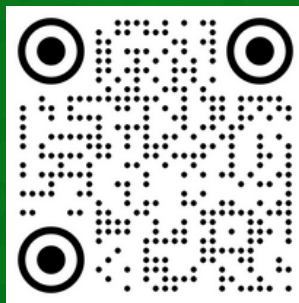
- **Regular Inspection:** Periodically check the bracket and fixture to ensure they are still securely mounted and functioning correctly.
- **Surface Maintenance:** Monitor the mounting surface, particularly trees, to ensure the bracket does not cause damage as the tree grows.

## SAFETY PRECAUTIONS

- Always wear appropriate safety gear, such as gloves and safety glasses, during installation.
- Ensure the mounting surface is capable of supporting the weight of both the bracket and the lighting fixture.

## ADDITIONAL RESOURCES

For a detailed video tutorial on how to install, visit our YouTube channel and search for "DL05R"



Please visit our website for more of our products.

[www.ABBALightingUSA.com](http://www.ABBALightingUSA.com)



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