

## DUSKTEC TD3C001

# DUSKTEC RGBWW Smart LED Recessed Spotlights

## USER MANUAL - MODEL TD3C001

### 1. Introduction

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Welcome to the user manual for your DUSKTEC RGBWW Smart LED Recessed Spotlights. This product offers advanced lighting solutions with customizable colors, adjustable brightness, and smart control features. Designed for easy installation and seamless integration with smart home systems like Alexa, these spotlights provide versatile illumination for various indoor environments, including bathrooms due to their IP44 rating. Please read this manual carefully to ensure proper installation, operation, and maintenance of your new lighting system.

### 2. Safety Information

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Always follow basic safety precautions when installing and operating electrical products to reduce the risk of fire, electric shock, and personal injury.

- Ensure the power supply is disconnected before installation or maintenance.
- Installation should be performed by a qualified electrician if you are unsure.
- Do not use with external dimmer switches; dimming is controlled via the app or Alexa.
- The product is rated IP44, suitable for bathroom zones 2 and 3, and covered outdoor areas, protecting against splashes.
- Do not disassemble or modify the product.

### 3. Package Contents

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Your DUSKTEC RGBWW Smart LED Recessed Spotlights package includes:

- 4 x DUSKTEC RGBWW Smart LED Recessed Downlights
- 1 x User Manual

## 4. Specifications

Feature	Specification
Brand	DUSKTEC
Model Number	TD3C001
Dimensions (L x W x H)	9.2 x 9.2 x 3.4 cm
Weight	310 grams
Ingress Protection (IP) Rating	IP44
Base Diameter	6 Centimeters
Number of Items	4
Style	Modern
Color	White
Material	Acrylonitrile Butadiene Styrene (ABS)
Number of Bulbs	4
Voltage	220 Volts (AC)
Special Features	Direct Alexa Pairing, Color Changing, Timer, Adjustable Color Temperature
Shade Material	Acrylic
Shade Diameter	6 Centimeters
Light Angle	LED
Installation Type	Ceiling Mount
Bulb Type	LED
Luminous Flux	660 lm
Wattage	7 Watt-hours
Incandescent Equivalent	70 Watt-hours
Color Temperature	2700K - 6000K (RGBWW)
Color Rendering Index (CRI)	>85
Average Life	50,000 Hours
Certifications	CE, RoHS

Feature	Specification
Energy Efficiency Rating (New ERP)	E (Equivalent to Old A+) <a href="#">[EPREL Link]</a>

## 5. Setup and Installation

Follow these steps to properly install your DUSKTEC Smart LED Recessed Spotlights:


### 5.1 Physical Installation

1. **Prepare the Ceiling:** Ensure the power supply to the installation area is turned off at the main circuit breaker. Mark the desired location for each spotlight. The recommended hole size for installation is **Ø68mm-85mm**. The required recess depth is **34mm**.
2. **Wiring:** The spotlights operate on AC200-240V and do not require a separate transformer. Connect the spotlight's wires directly to your AC 220V power supply. The cable length is approximately 150mm.
3. **Insert the Spotlight:** Gently push the spotlight into the prepared hole. The spring clips will secure it in place.


# CONCEPTION INTÉGRÉE TOUT-EN-UN

## Aucun transformateur nécessaire

The diagram illustrates the physical installation of the spotlight. It shows a ceiling with a hole of diameter  $\text{Ø}68\text{--}85\text{mm}$ . A cable of length 150mm is connected to the spotlight. The spotlight has a diameter of 92mm and a height of 36mm. The mounting bracket has a diameter of 65mm.




Tension  
200V-240V



Puissance  
7W



Temperature de Couleur  
2700K-6000K



Luminance  
660Lm



Dimming  
avec APP



IP44

Figure 5.1: Integrated Design and Dimensions. This image provides a technical diagram of the DUSKTEC spotlight, highlighting its all-in-one integrated design which requires no transformer. Key dimensions are shown: 150mm cable, 65mm depth, 36mm height, 92mm diameter, and a recommended hole size of Ø68mm-85mm. It also lists specifications like 200-240V tension, 7W power, 2700K-6000K CCT, 660Lm luminance, app dimming, and IP44 rating.



Figure 5.2: Direct Connection to AC Power. This image provides a visual guide for directly connecting the DUSKTEC spotlights to Alexa. It shows the steps: wiring directly to AC 220V, power cycling the light (turn off for 5 seconds, then on), and using the voice command 'Alexa / Echo, search for the device.'

## 5.2 Initial Power On

Once installed, restore power to the circuit. The spotlights should turn on. They are now ready for smart home integration.

## 6. Operating Instructions

### 6.1 Connecting to Alexa and BRmesh App

Your DUSKTEC spotlights can be controlled via the BRmesh app or directly through Alexa. No additional hub or gateway is required.

#### 1. For BRmesh App:

- a. Download the "BRmesh" app from the iOS App Store or Google Play Store.
- b. Open the app and follow the on-screen instructions to add your lights. Ensure Bluetooth is enabled on your smartphone.
- c. The BRmesh app offers advanced features like fine-tuning color temperature and various scene modes not available directly through Alexa.

#### 2. For Direct Alexa Pairing:

- a. Ensure your Alexa device (e.g., Echo) is set up and connected to your Wi-Fi network.
- b. Power on the DUSKTEC spotlight.
- c. Say, "Alexa, find devices." Alexa will scan for new smart lights and automatically link them. This process usually takes a few minutes.
- d. Alternatively, you can activate Alexa pairing from within the BRmesh app for each light.
- e. *Note: Uninstalling the BRmesh app after adding the spotlights to Alexa will not affect their use with Alexa.*

# Appairage Instantané

## Connectez-Vous Directement à Alexa

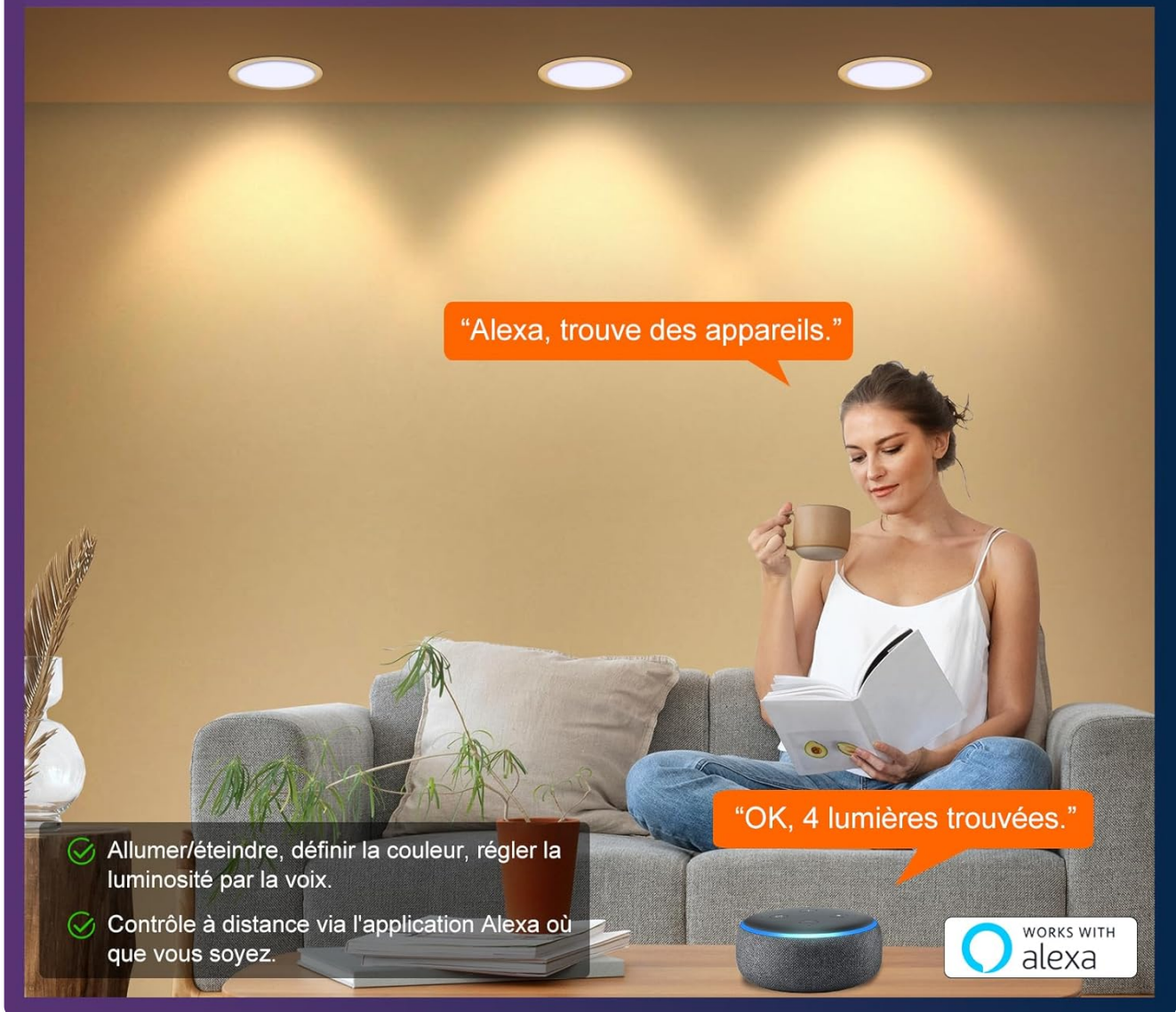


Figure 6.1: Instant Pairing with Alexa. This image illustrates the instant pairing process with Alexa. A woman is shown on a sofa, speaking to an Amazon Echo device, with text bubbles indicating 'Alexa, find devices.' and 'OK, 4 lights found.'. This demonstrates how to control the lights via voice commands and the Alexa app.



Figure 6.2: Connecting to Alexa/Echo. This image provides a visual step-by-step guide on connecting the DUSKTEC spotlights to

Alexa/Echo. It shows downloading the BRmesh app, adding lights to the app, activating Alexa pairing within the app, selecting lights for connection, and finally using the voice command 'Alexa/Echo, find devices.'

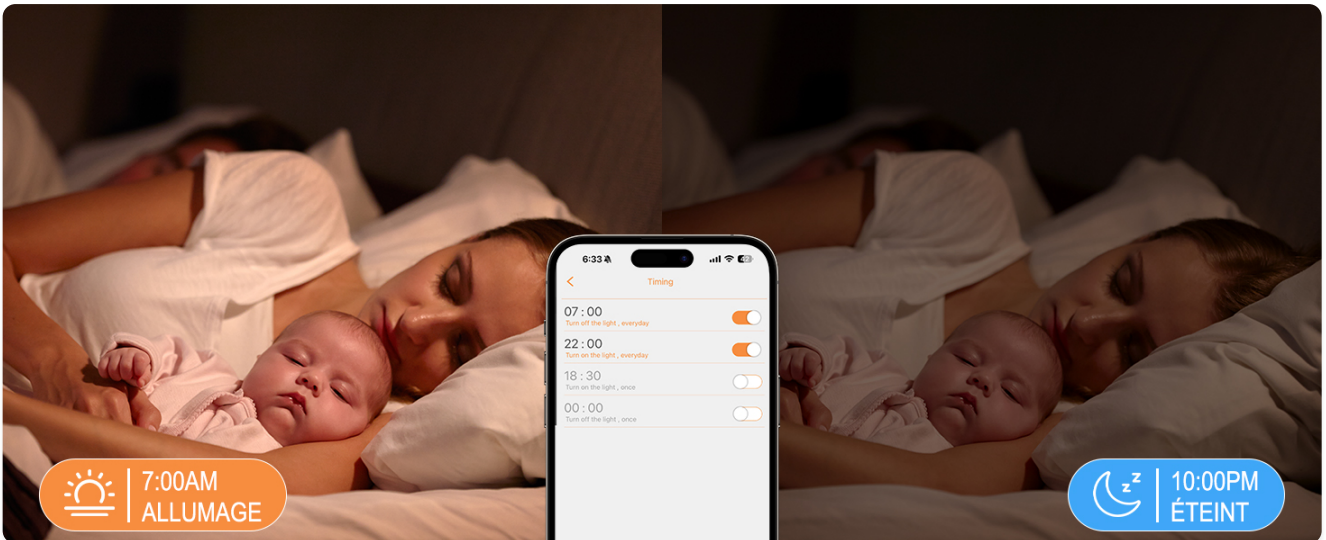


Figure 6.3: Controlling Lights on Multiple Phones. This image illustrates how to share control of your DUSKTEC lights across multiple smartphones. It shows opening the BRmesh app on the main phone, selecting lights, generating a QR code, and then scanning the QR code with a secondary phone to gain control.

## 6.2 Color and Brightness Adjustment

The DUSKTEC spotlights offer extensive control over light color and intensity:

- **RGBWW:** Enjoy 16 million colors, including RGB (Red, Green, Blue) and dedicated white channels (Warm White, Neutral White, Cold White).
- **Adjustable White Light:** Seamlessly transition between 2700K (warm white) and 6000K (cool white) to suit your mood or activity.
- **Dimmable:** Adjust brightness from 1% to 100% using the BRmesh app or Alexa voice commands. *These lights are not compatible with traditional external dimmer switches.*

# RGB + CCT 2700K-6000K

Choisissez entre toutes les couleurs

**WORKS WITH alexa**

- 660LM (équivalent 70W)
- 2700K-6000K réglable
- 16 millions de couleurs
- CRI>85
- Sans scintillement

**WORKS WITH BRmesh**

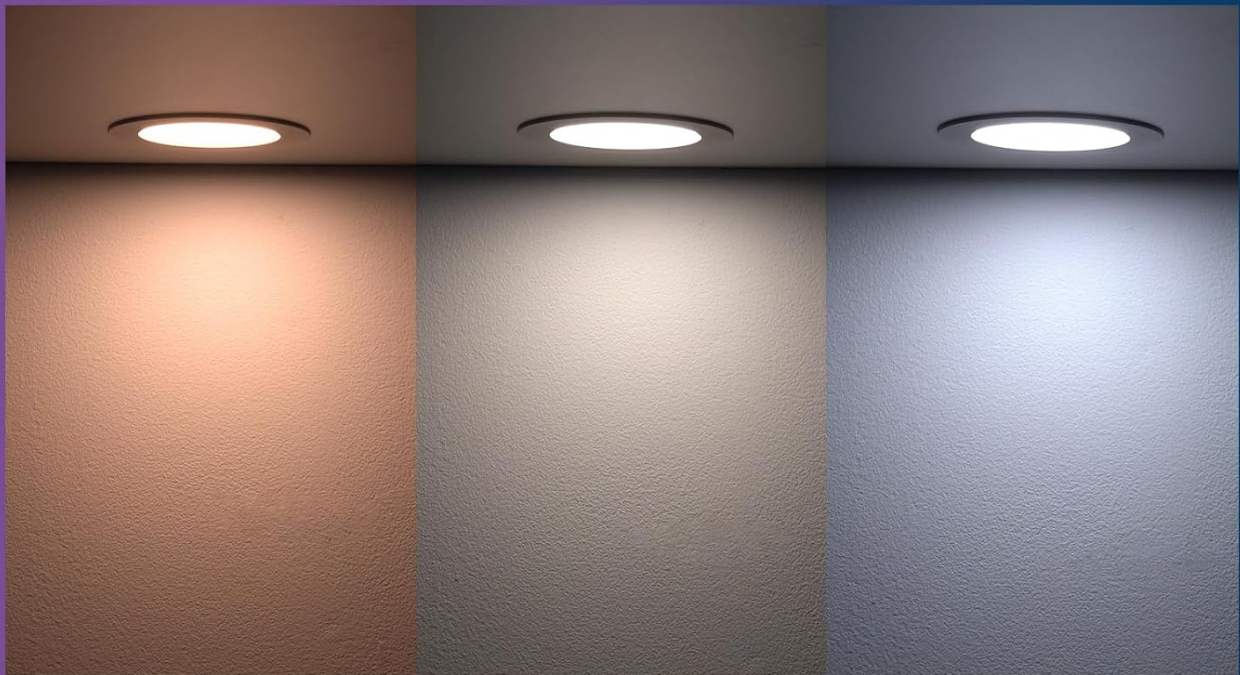
- 1 % à 100 % de luminosité réglable
- Minuteur
- Fonction de synchronisation
- 20+ modes dynamiques
- DIY
- Contrôle de groupe
- Commande unique

- Appairage en une seule étape
- Commande vocale
- 15 couleurs RVB
- Blanc chaud/Blanc doux/Blanc/Blanc lumière du jour/Blanc froid

Figure 6.4: RGB + CCT Features. This image details the extensive features of the DUSKTEC spotlights, including RGBWW (RGB + CCT 2700K-6000K) color capabilities, 1% to 100% adjustable brightness, timer function, synchronization, 20+ dynamic modes, DIY scenes, group control, and single control. It highlights compatibility with Alexa and the BRmesh app.

# COULEUR RÉGLABLE 2700K-6000K

Lumière chaude, naturelle ou froide



\*Dimmable via APP ou Alexa/Echo uniquement. Ne pas utiliser avec des interrupteur variateur.

Figure 6.5: Adjustable Color Temperature. This image demonstrates the adjustable color temperature from 2700K (warm white) to 6000K (cool white). It shows three different lighting moods and explicitly states that dimming is only possible via the app or Alexa/Echo, and not with external dimmer switches.

## 6.3 Scheduling and Group Control

Automate your lighting and manage multiple lights efficiently:

- **Timers and Schedules:** Set your spotlights to turn on or off automatically at specific times using the BRmesh app.
- **Dynamic Scenes:** Choose from 22 pre-defined dynamic scene modes or create your own custom scenes (DIY) to instantly change the ambiance.
- **Memory Function:** The lights will remember your last chosen setting when powered off and on again.
- **Group Control:** Group multiple spotlights together in the BRmesh app or Alexa to control them simultaneously with a single command.

# 22 Effets D'éclairage Dynamiques

Vous pouvez également bricoler vos scènes et les démarrer en un seul clic en cas de besoin.



Figure 6.6: Dynamic Lighting Effects. This image showcases the 22 dynamic lighting effects and the ability to create DIY scenes with the DUSKTEC spotlights. It provides visual examples for different moods and activities such as gaming, parties, home cinema, and reading, demonstrating the versatility of the lighting.

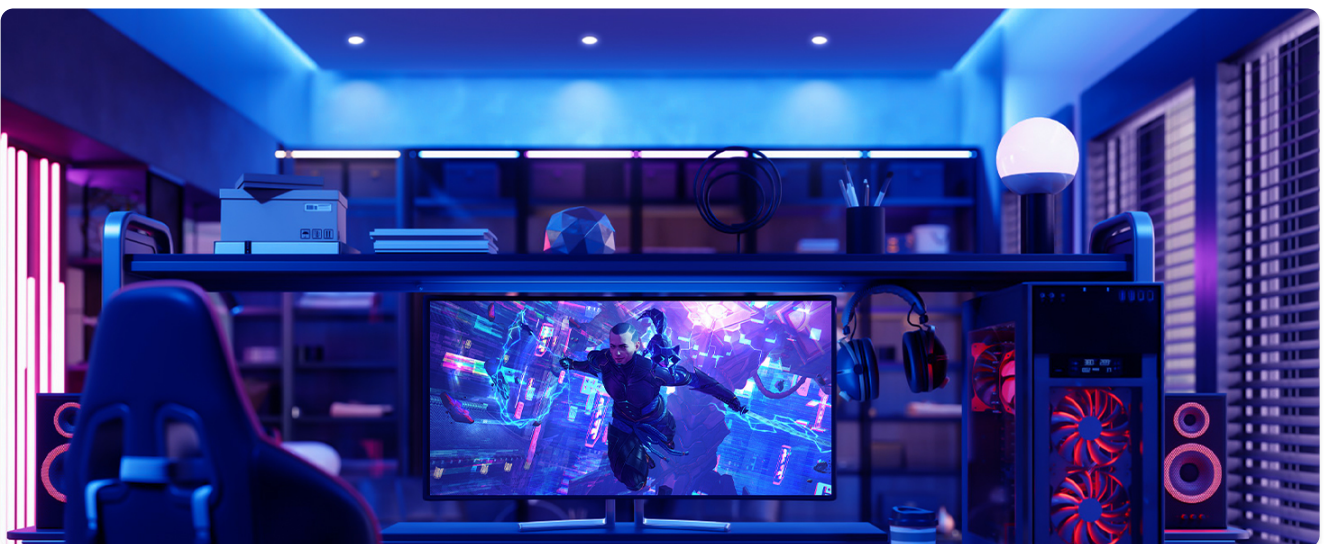


Figure 6.7: Timing and Scheduling. This image displays the timing feature within the BRmesh app, allowing users to schedule

automatic turn-on and turn-off times for the DUSKTEC spotlights, such as 7:00 AM for wake-up and 10:00 PM for sleep.



Figure 6.8: Group Control. This image shows a house with various DUSKTEC smart lights installed, demonstrating the group control feature where all lights within a designated group can be controlled with a single click from the app.

## 6.4 Music Synchronization

Enhance your entertainment experience with music-synced lighting:

- The light colors can automatically change and pulsate with the rhythm of your music when enabled through the BRmesh app.

# Synchroniser La Musique

La couleur de la lumière change automatiquement avec le rythme de la musique



Figure 6.9: Music Synchronization. This image illustrates the music synchronization feature of the DUSKTEC spotlights, where the light color automatically changes with the rhythm of the music, enhancing the ambiance for activities like dancing.

## 7. Maintenance

The DUSKTEC Smart LED Recessed Spotlights are designed for long-lasting performance with minimal maintenance.

- **Cleaning:** To clean the surface of the spotlights, gently wipe with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **No User-Serviceable Parts:** There are no user-serviceable parts inside the spotlights. Do not attempt to open or repair the unit yourself. This will void the warranty.

## 8. Troubleshooting

If you encounter issues with your DUSKTEC spotlights, please refer to the following common problems and solutions:

- **Light does not turn on:**

- Check if the power supply is connected and the circuit breaker is on.
- Ensure the wiring is correct and secure.

- **Cannot connect to Alexa or BRmesh App:**

- Ensure Bluetooth is enabled on your smartphone and Alexa device.
- Try power cycling the spotlight (turn off for at least 5 seconds, then turn on).
- Ensure your Alexa device is within range and connected to the internet.
- If using Alexa, try saying "Alexa, find devices" again.
- For multiple lights, some users find it easier to set up each light individually in the BRmesh app first, then activate Alexa pairing for each.

- **Light is not dimming or changing color correctly:**

- Ensure you are using the BRmesh app or Alexa for control, not an external dimmer switch. This product is not compatible with external dimmers.
- Check the app settings to ensure the correct color or brightness level is selected.

- **Lights occasionally get stuck or unresponsive with Alexa:**

- This can sometimes happen with smart devices. Try power cycling the specific light that is unresponsive.
- Ensure your Alexa device's software is up to date.
- If the issue persists, try re-pairing the light with Alexa.

## 9. Warranty and Support

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DUSKTEC provides a **2-year warranty** for this product from the date of purchase. This warranty covers manufacturing defects and material faults under normal use.

If you encounter any problems or require assistance, please do not hesitate to contact us. Our customer support team is ready to help.

**Contact Information:**

- **Email:** [enquiry@dusktec.com](mailto:enquiry@dusktec.com)
- Please include your model number (TD3C001) and a detailed description of the issue when contacting support.