

# CTA LED Downlights

## - User Control Manual

**Note: This operating manual refers to buttons on the "remote control" for operating the lights.**

**\*CTA downlights must be used in conjunction with a remote which overrides wall switch use. Wall switches must remain turned on for CTA lights and remote to operate.**

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**Please Note: Only GEOLED CTA products will operate on this system. This Dimming and Colour Temperature control system does not work with other luminaires. Other Incandescent, Halogen, Fluorescent, LED, etc products CANNOT be controlled by this system.**

## 1. Product Instruction

This remote control is used to control either individual or Channel of CTA (Colour Temperature Adjustable) LED Downlights.

- The remote control can be used to adjust brightness (dimming) or adjust colour temperature (warm white - cool white - day light).
- The remote works on 2.4GHz frequency with a range of up to 10 metres.
- Please carefully read these instructions before use and operate the LED Downlights according to these instructions.

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## 2. INITIAL SETUP

Please follow the below steps to ensure correct setup.

### 2.1 Battery Installation

- Remove the battery housing cover.
- Install two AAA batteries (see Figure 1). Ensure the batteries are orientated according to the markings inside the housing + to + - to -

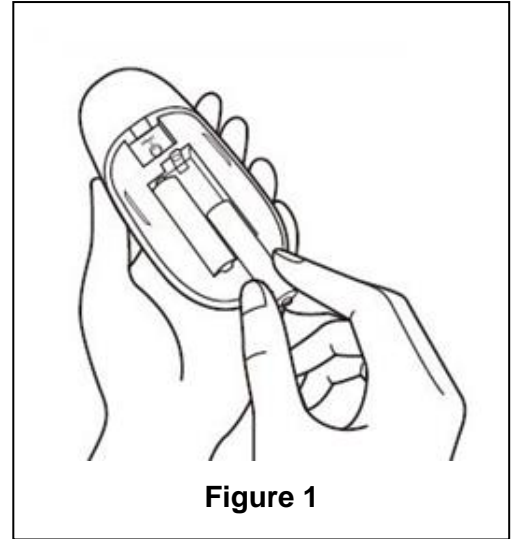


Figure 1

### 2.2 LED Lamp Installation:

**Note: Installation should be carried out by a registered electrician according to local regulations/standards.**

- Carefully remove the CTA LED Downlight(s) from the packaging.
- Turn off the mains power supply before installation.
- Install the CTA LED downlight(s) as per the accompanying installation instruction sheet.
- Switch the mains power on.
- Switch the CTA LED downlight(s) on.

### 2.3 CTA LED Downlight Remote Programming

- Code matching & Code Clearing
- Grouping and Control

The remote control must be code matched to the CTA LED Downlight(s) before operation.

The remote can control up to 4 Channels of CTA LED Downlights. Recommended maximum of 10 lights per Channel. Therefore one remote can control 40 lights in total.

- If the light has been previously code matched, it will need to have the code cleared as per instructions in 2.3.4.

#### 2.3.1 Code Matching:

- Decide which downlights you want on each Channel (CH1-4).
- Switch off the power to all downlights you want coded to Channel 1 for 10 seconds.
- Switch the power back on. Within 3 seconds turn on Channel 1 (Figure 2).
- The lights you have selected for CH1 will flash three times to confirm they are code

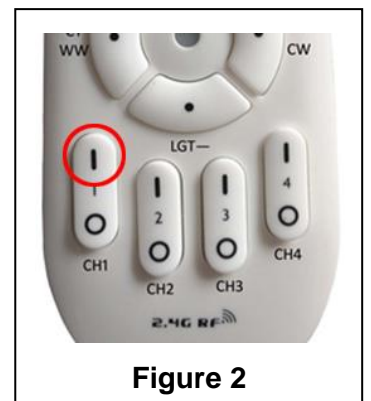



Figure 2

matched.


- Repeat the above steps for each channel until all lights are coded.


### 2.3.2 Group Control:

After grouping into channels and Code Matching is complete, the following wireless control options can be performed (with the mains power switched on to the CTA LED Downlights):

- Press the main ON button  at the top of the remote. All lights should now turn on.


- Use the central circular keypad  to control the brightness [dimming] (up/down buttons) and to control the colour temperature from 3000K Warm White through to 6000K Daylight (left/right buttons).

- At any time you can hold down the main ON button  and all lights will return to full brightness.


- Pressing the main OFF button  at the top will turn all lights off at the same time.

- Pressing any of the Channel ON buttons  will select that channel only for

independent control using the central circular keypad

- You can hold down any of the Channel ON buttons  and all lights in that channel will return to full brightness.



- Pressing any of the Channel OFF buttons  will turn all lights in that channel off.

- If you need to control 2 or 3 channels at the same time, press the main ON button  first to turn all lights on, then turn off the channel(s) you do not wish to change. Then operate accordingly using the buttons on the central circular keypad.

- When the main power switch to the CTA LED downlights is on and the lights are turned off by the remote control, the lights are in a standby state which uses 0.3W power per light.


**Note – Power Cut:** *If there is a Power Cut or the wall switch is turned off, after 20 seconds you can restore the power and the CTA LED downlights will return to the last brightness/colour temperature setting. If the lights are in Night Light mode (see below) when the power is cut, the lights will restore to full brightness and 4000K colour temperature when power is restored and the lights are turned back on by remote.*

### 2.3.3 Night Light mode:

- CTA LED Downlights can be set to Night Light mode, which gives a very dim light level- excellent for mood lighting, aisle/hallway lighting, children’s rooms, or security lighting.
- You can hold down the main OFF button  and all lights will switch to Night Light mode.
- Alternatively, you can hold down any of the Channel OFF buttons  and only the lights in that channel will switch to Night Light mode.
- To exit Night Light mode turn the lights off and on with the remote and they will return to the previous brightness / colour temperature setting.
- In Night Light mode each light will consume 0.4W power.

### 2.3.4 Code clearing and Regrouping of Downlights:

You can change the grouping of downlights into different channels. First the existing coding to the remote needs to be cleared.

- Decide which lights you want to regroup.
- Switch off the power to all downlights you want to regroup.
- Switch the power back on. Within 3 seconds press and hold the original Channel ON button until  the downlights flash 6 times indicating coding is cleared.

- To regroup follow the steps above in 2.3.

### 2.3.5 Lost remote function:

If you lose the remote, (while you are waiting for a replacement remote) you can fast switch the wall switch off and on and the lights will reset to full brightness and 3000K Warm White colour temperature. Then if you fast switch off and on the lights will cycle between: 3000K Warm White / 6000K Cool White / 4000K Natural White / 3000K Night Light mode.

### **3. REPLACEMENT OR ADDITION OF LIGHTS**

#### **3.1 Remote battery replacement**

Replacing the batteries in the remote does not affect memory of previous settings.

#### **3.2 Replacement or addition of CTA LED Downlights**

When adding or replacing CTA LED Downlights, please follow steps 2.2 – 2.3.

#### **3.3 Replace or Add Remote Controller**

- Put the batteries in the new remote control and operate according to above steps 2.3 to code match and group into channels as required.

Tips: Each CTA LED downlight can be controlled by a maximum of four remote controls at the same time. If a fifth remote control is coded, the first remote coding will be deleted.

## **4. FAQ**

### **Do the lights use power when they are off?**

If the lights have been turned off by the remote control, the lights will consume 0.3W per light.

If the lights have been turned off by a wall switch, the lights will not consume any power.

### **How many lights can be controlled by one remote control?**

Each group (channel) on the remote control can store 50 lights. There are 4 channels per remote, so  $4 \times 50 = 200$  lights per remote.

### **Can I have multiple remotes to control my lights?**

You can code up to four remotes your light(s).

### **What is the range (distance) for the remote control?**

The remote control operates on 2.4GHz frequency and is designed to IEEE 802.15.4 standard. The maximum distance is approximately 10-15m.

### **Does the remote need to be in line of sight and pointed at the lights?**

No. The remote works on wireless radio frequency (RF). Physical objects do not block the

transmission as long as the remote is within 10-15m of the downlights.

## **5. Trouble shooting**

### **The CTA LED Downlights do not respond to the remote control.**

- Check the mains (wall) power supply to the downlights is switched on.
- Replace the batteries in the remote control.
- Follow steps 2.3.1 – 2.3.2 to re-code the downlights to the remote.

### **The lights function abnormally automatically.**

- Check there is not another remote control operating the lights.
- Follow step 2.3.4 to clear the coding and then follow steps 2.3.1 - 2.3.2 to re-code the lights.