

A faint, grayscale background image of a person's face, looking slightly to the right, with their hand near their chin.

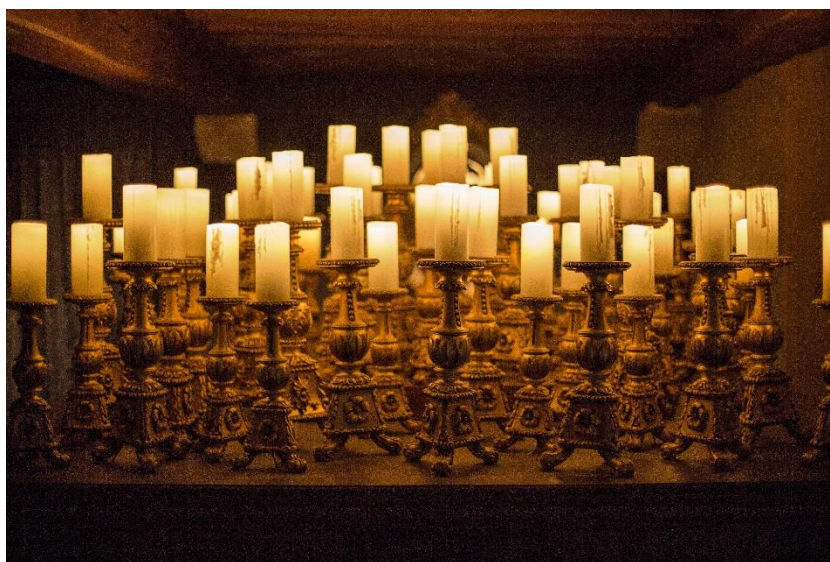
LED Candle

DMX-RDM version

Order code: 10130-10133

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Dimensions



Diameter 50 x height 150mm

Diameter 70 x height 250mm

Diameter 30 x height 300mm

Diameter 60 x height 200mm

Specifications

3.1 General

The LED Candle is a wax candle with integrated LED DMX-RDM module.

The 2 different LED colour temperatures and a special pre-programmed candle algorithm that can be controlled by DMX and makes the LED Candle not distinguishable from a real candle.

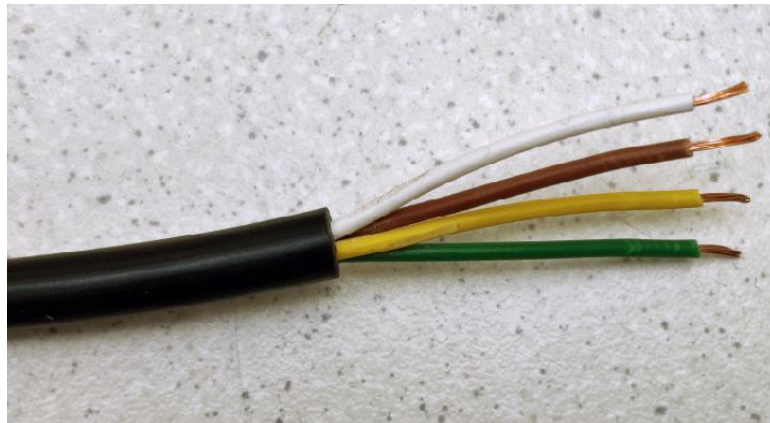
Made of durable materials, finished with highest precision and quality, it is designed to last for years without maintenance.

3.2 Mechanical specs

- Candle housing made from real wax
- LED-unit with 2 different colour temperatures
- Pre-programmed candle algorithm
- 5 channel DMX-RDM control

3.3 Electrical specs:

- Power input: 5V DC
- Total power consumption LED-unit: 0.5W
- DMX input: Data- and Data+



Brown:	5VDC+
White:	5VDC-
Yellow:	DMX Data +
Green:	DMX Data -

3.4 RDM Addressable

The LED candles are RDM addressable. The DMX address can be set with the help of a DMXcat hardware and the DMXcat software (free app download).



Contact your supplier for help or information.

3.5 DMX Personalities

The DMX-RDM LED candles can be set in 4 personalities.

Personality 1:

DMX	Function
1	Global: intensity (with flickering candle effect)

Personality 2:

DMX	Function
1	2000K: intensity (no flickering candle effect)
2	2400K: intensity (no flickering candle effect)

Personality 3:

DMX	Function
1	2000K top: intensity (no flickering candle effect)
2	2400K top: intensity (no flickering candle effect)
3	2000K bottom: intensity (no flickering candle effect)
4	2400K bottom: intensity (no flickering candle effect)

Personality 4:

DMX	Function
1	2000K: intensity with flickering candle effect
2	2000K: flame size of candle effect
3	2400K: intensity with flickering candle effect
4	2400K: effect size of candle effect
5	Global: Speed

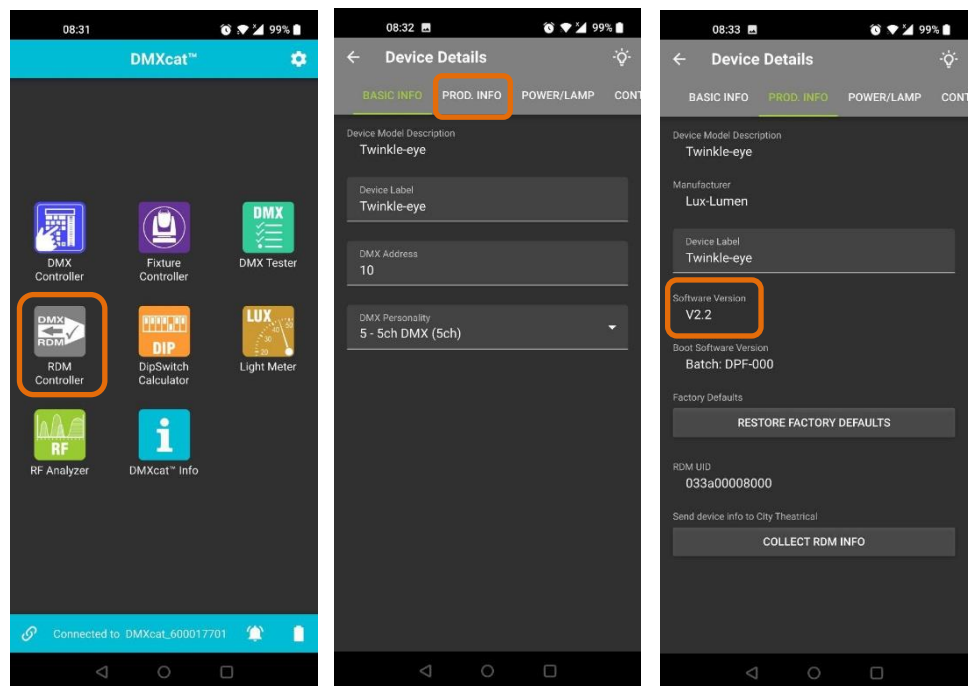
3.6 Stand alone mode

Starting from any of the 4 personalities, you can set the candle in stand - alone mode.

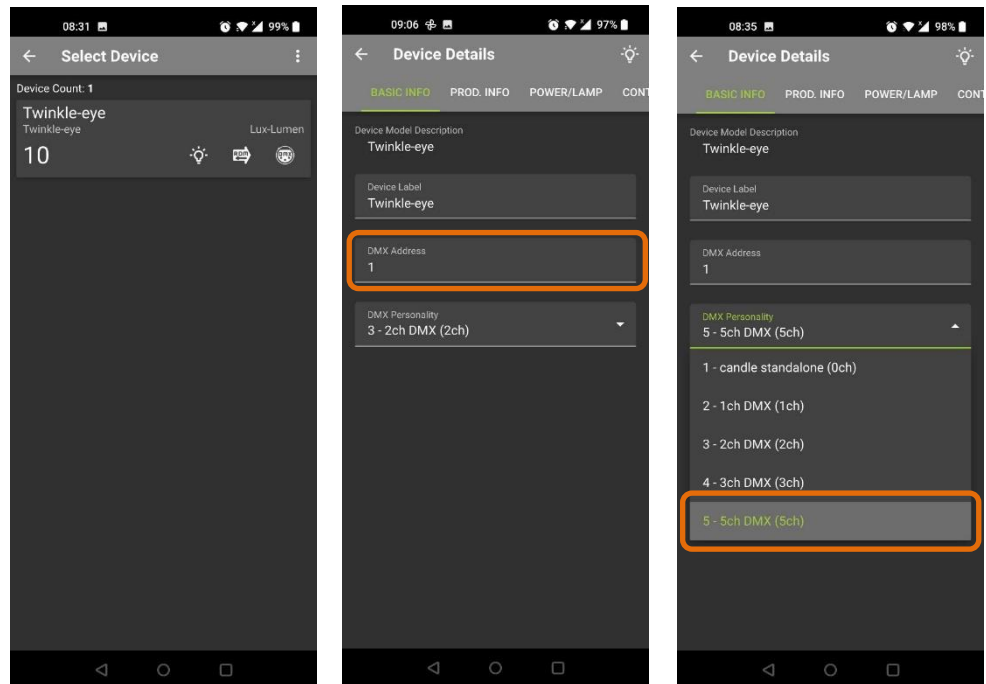
Send out DMX values for at least 2 sec, since it needs to see minimum 16 frames of the same data. Use an RDM controller (f.ex.DMXcat) to capture the DMX values inside the fixture. The complete state (settings) of the candle will be captured.

Note: Only Candles/TwinkleEyes with firmware version v2.2 (or higher) will be able to save a custom preset as standalone effect.

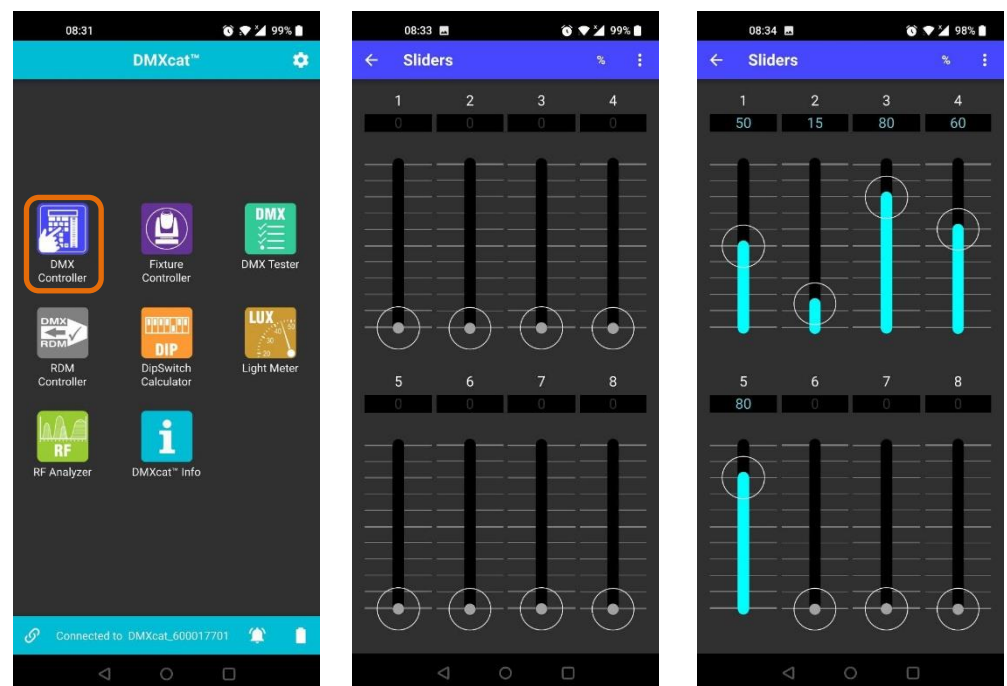
Open the RDM controller and go to 'product info' to check the firmware version. For custom standalone presets this should be v2.2 (or higher):



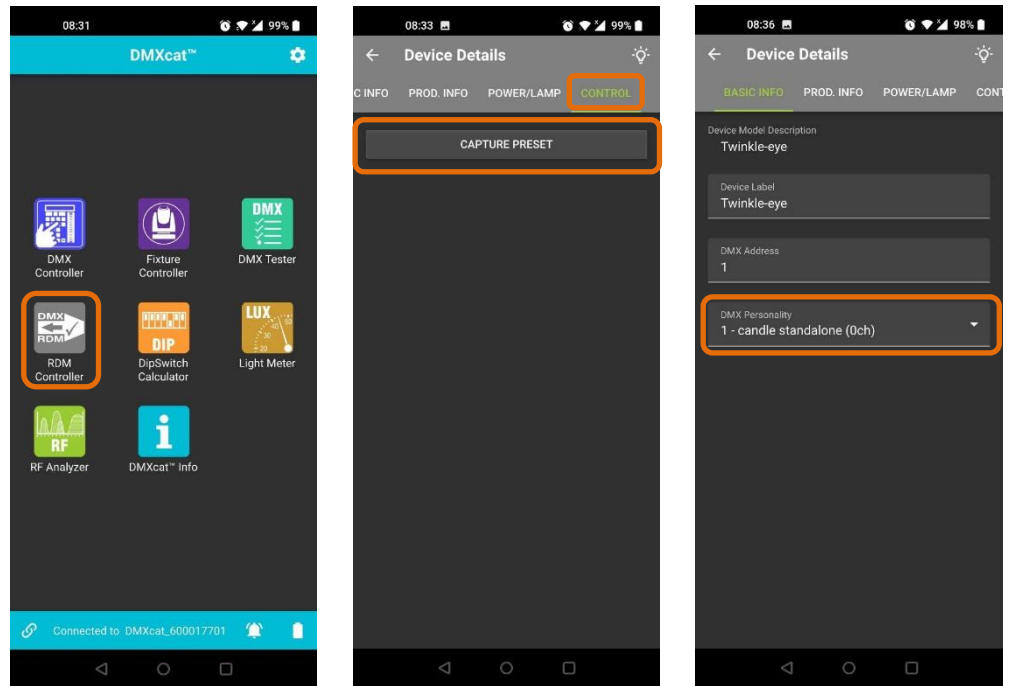
Select the desired fixture, (you can always highlight it with the bulb icon) and choose the personality you want to make your settings with. In this example we choose the 5CH personality. These settings are saved automatically as soon as you change it.



After selecting your personality, navigate back to the DMX controller to set the values and make the effect you like the most.



If you are happy with your effect, go back to the RDM settings/controller.
Note: The light will go off after leaving DMX menu. But values are still present.



Simply go to the last tab 'Control' and press 'Capture preset'. The values you made before are now stored on the fixture itself.

Now go to 'Basic info' to set the personality to 'Standalone 0CH' and your effect will start running. At this point the fixture will behave like a standalone module, of your own custom effect, when applying power.

Safety information

Before installing, powering up, or servicing the LED Candle, it is highly recommended that you read this manual and ensure yourself that you completely understand its content. Observe the safety precautions in this manual. Install and operate the led-unit only as described in this manual, and in conformity with local regulations. If you have any questions how to operate this product safely, please contact your point of sale.

4.1 Symbols

Following symbols are used to identify important safety information on the product and in this manual.



DANGER!
Safety hazard. Risk of severe injury or death.



Warning!
Hazardous voltage. Risk of lethal or severe electric shock.



Warning!
LED light emission. Risk of eye injury.



Warning!
Burn hazard. Hot surface. Do not touch



Warning!
Refer to user manual.

4.2 Protection from electric shock



Although this device itself does not operate with dangerous voltages, the installation in which is intended to be used, can contain dangerous voltages.

Shut down the power of the complete installation before carrying out any installation, or maintenance work.

Use only AC to DC power sources, suitable for the application, and conform to local regulations. Please ensure yourself that the AC to DC power supply is able to deliver the rated current requirements of the installation.

If any cable, seal or housing is damaged, cracked or reformed, disconnect the power of the installation immediately.

For any additional servicing, not described in this manual, please contact your point of sale.

4.3 Protections from fire and burns



Do not operate this led-unit if ambient temperature is over 45 °C (113 °F). Please ensure yourself that sufficient ventilation around the LED Candle is possible.

It might be necessary to allow the led-unit to cool down for 5 minutes, before servicing.

Do not modify the led-fixture, in a way, not described in this manual.

4.4 Protection from injury



Ensure yourself that the LED Candle and all its accessories are securely fastened. Verify that the LED Candle is firmly fixed to its supporting underground.

4.5 Protection from heat

Do not expose the LED Candle to direct sunlight to prevent it from melting.

4.6 Disposing of this product



This led-lighting device is manufactured in compliance with directive of the European community: waste electrical and electronically equipment. Please help to preserve our environment and ensure that this product will be recycled properly at the end of its life.



Physical installation

Thank you for selecting this LED Candle as best solution in your setup.

Warning! Read the safety precautions in this manual before integrating this led-unit into your installation.

Installation must be carried out by qualified professionals only.

Assure yourself that there is sufficient and unrestricted air flow around the LED Candle.

5.1 Unpacking

The following items are included in your package:

- LED Candle with cable
- in cardboard box/tube, with short form manual

5.2 Mounting

The LED Candle can be mounted on all kind of non combustible materials.

In case of problems, or doubts, please contact your point of sale.

5.3 Location and orientation

This LED Candle can be used in all directions.

EMC and safety requirements

The LED Candle is fully compliant to the LVD and EMC directive of the European council, if used in a properly designed setup.

The LED Candle is only intended to be used in lighting applications, and as such, the complete assembly of led unit and power supply needs to be fully compliant with following harmonized standards:

LVD requirements of the power supply

- EN 60598: general requirements of lighting equipment.

EMC requirements of the power supply

Immunity according to:

- EN 61547:2009 (General EMC immunity requirements lighting eq.)
- EN 61000-4-1:2006 (General immunity testing techniques)
- EN 61000-4-2:2008 (ESD immunity test)
- EN 61000-4-3:2006 + A1:2007 (Radiated immunity test)
- EN 61000-4-4:2004 (Fast transients and burst immunity)
- EN 61000-4-5:2005 (Surge immunity test)
- EN 61000-4-6:2008 (Conducted immunity test)
- EN 61000-4-8:1993 (Magnetic field immunity test)
- EN 61000-4-11:2004 (Voltage variations immunity test)
- EN 61000-6-1:2005 (Generic standards for immunity)

Emission according to:

- EN 61000-3-2:2005+A1:2008+A2:2009 (Harmonics emission test<16A)
- EN 61000-3-3:2008 (Flicker+ voltage changes limits< 16A)
- EN 55015:2006+A2:2009 (Conducted + radiated emission lighting equipment)

To achieve this compliance, a proper power supply must be supplied. In case of doubts, contact your point of sale.



Service and maintenance

7.1 Safety precautions

Read carefully the safety information in this manual. Lock out the power on the entire system and allow all electronic devices to discharge, and cool down, before executing any service or maintenance.

7.2 Cleaning

The LED Candle itself



Extensive dirt, and particle build-up degrades performance, may cause overheating can result in damaged led-unit and power supplies. Damage by inadequate cleaning or maintenance is not covered by the product warranty.

Never use solvents to clean the outer housing of the unit.

Never use water, or wet cloth.

Warranty

8.1 Application of warranty

Warranty period

Warranty service is valid for one year from the date of purchase by the consumer, as evidenced by invoice date given out by your point of sale.

Warranty service

Service under warranty can only be done by Lux Lumen.

Coordinates:

Lux Lumen
Kernenergiestraat 53 A
2610 Wilrijk
Belgium

Any cost of secure transportation of the product to and from Lux Lumen service department, will be borne by the customer.

Limitations

Lux Lumen will not warrant the following:

- Periodic check-ups, maintenance and repair or replacement of parts due to normal wear and tear.
- Consumables
- Any software
- Defects caused by modifications carried out without Lux Lumen's approval.
- Damage resulting from the fact that a product is not conforming to country specific standards or specifications in another country than the country of purchase.

Costs incurred by Lux Lumen's service center in making any adoptions or modifications of a product necessary for country specific technical or safety standards or specifications, or any other cost to adjust the product as a result of any specifications which have changed since the delivery of the product.

Warranty service is excluded if damage or defects have been caused by:

Improper use, extensive use, handling or operation of the product as referred to in the user manual or operator manual and/or relevant user documents, including without limitation, incorrect storage, dropping, excessive shocks, corrosions, dirt, water, or sand damage, if the product is not rated to be used in severe conditions, indicated by its IP and IK degree, mentioned in the product specifications in this manual.

Repairs, modifications or cleaning carried out by a non Lux Lumen service centre.

Use of spare parts, software or consumables, which are not compatible with the product.

Connecting the product to equipment not intended to be used with this product.

Defects caused by improper condition of the power supply network.

Inadequate packaging of the product when returning it under the RMA procedure.

Accidents or disasters or any cause beyond the control of Lux Lumen, including but not limited to lightning, water, fire, public disturbances, improper ventilation, and acts of god.

Others

It is the responsibility of the customer to backup and save any software files and programs before repair and to restore the same after such repair.

This warranty does not affect the consumer's statutory rights under applicable national legislation in force, nor the consumer's rights against the retailer arising from the sales/purchase contract. In the absence of applicable national legislation, this warranty will be the consumer's sole and exclusive remedy, and Lux Lumen cannot be liable for any incidental or consequential damages for breach of any express or implied warranty of this product.

For full details of the warranty offered on this product, please contact Lux Lumen's service center.

8.2 RMA procedure

To send material back to Lux Lumen, you need a RMA (Return Material Authorization) document that you will receive from Lux Lumen.

Without the RMA document, we cannot accept the material.

The procedure to obtain a RMA:

Step 1:

Customer contacts Lux Lumen about warranty, defects if material has to be returned.

Step 2:

Lux Lumen sends the customer a filled out RMA document (using a unique RMA number)

Step 3:

Customer sends material (include a copy of the RMA document with the material)

Step 4:

Lux Lumen evaluates and informs the client if repair is under warranty or – if not - makes an offer for repair to the client.

List of used abbreviations

- AC: Alternating current
- DC: Direct current
- °F: Temperature in degrees Fahrenheit
- °C: Temperature in degrees Celsius
- LED: Light Emitting Diode
- DMX: Digital MultipleXed lightcontrol
- CRI: Color Rendering Index
- RMA: Return Material Authorization
- LVD: Low Voltage Directive
- EMC: ElectroMagnetic Compatibility