



Universal Lighting Controller

Precision Control for LED Grow Lights



User Guide

maxibright.co.uk

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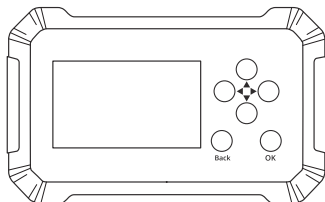
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Thank you for choosing Maxibright.

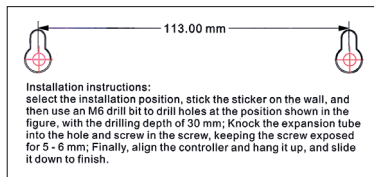
This guide will help you get started and ensure optimal use of your controller.

Package Contents

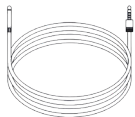
- Universal Lighting Controller
- UK Power Cable (3-pin plug)
- Temperature & Humidity Sensor
- RJ12 Signal Cable
- Mounting Kit
- User Manual



Controller x1



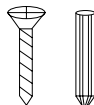
Mounting template x1



Sensor Cable x1

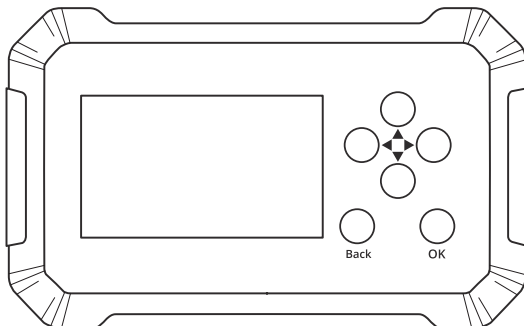


RJ12 Cable x1



Screw and Plugs x2

Button Functions



▲ Move up to select or adjust

▼ Move down to select or adjust

◀ Move left to select

▶ Move right to select

'Back' Exit selection or return

'OK' Confirm

Main Features

- Compatible with most 0–10 V dimmable LED grow lights
- Programmable ON/OFF and dimming schedules
- Sunrise/sunset simulation (1–60 minutes)
- Temperature-based dimming and automatic shutdown
- Integrated temperature and humidity monitoring
- Backlit LCD display with intuitive navigation
- 2-year manufacturer's warranty

Product Overview

Controller Dimensions: 145.8 × 89.8 × 31 mm

Weight: 600 g (including cables)

Power Input: 230 V AC ~ 50/60 Hz (UK 3-pin plug fitted)

Control Signal: 0–10 V DC

Ports and Connections

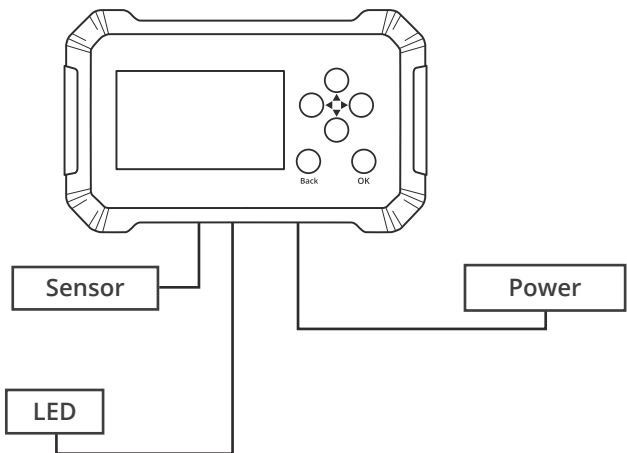
- **RJ12 Output:** Line Out
- **Sensor Port:** For temperature/humidity probe
- **Mounting Holes:** For wall installation
- **DC 12V:** Power supply

Before You Start

- Ensure all connected LED fixtures support 0-10 V control.
- Disconnect mains power during installation.

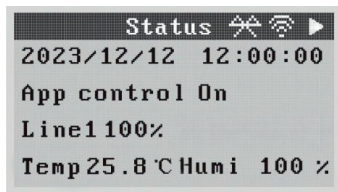
Connecting the Controller

1. Mount the controller securely near your LED fixtures.
2. Plug in the temperature/humidity sensor to the sensor port.
3. Connect your LED fixture using RJ12 cables.
4. Connect the controller to mains power.
5. The display will power on and show the startup screen for a few seconds before entering the status page.



Display & Controls

- System date and time
- Current brightness (%)
- Temperature and humidity



Operation

Button Functions:

- ▲ Move up to select or adjust
- ▼ Move down to select or adjust
- ◀ Move left to select
- ▶ Move right to select

BACK Exit / Return

OK Confirm settings

Quick Adjust Dimming:

- Long-press ▲ or ▼ to quickly change brightness.
- Short-press ▲ or ▼ three times to fine-tune in 1% steps.

Settings:

1. Press OK to enter settings
2. Use ◀ / ▶ to select Line 1.
3. Use ▲ / ▼ to adjust the following parameters:

- **Power:** 20-100%
- **ON Time:** 00:00-23:59
- **OFF Time:** 00:00-23:59
- **Dim At:** 10-88 °C
- **Stop At:** 12-90 °C
- **Sunrise/Sunset:** 1-60 min

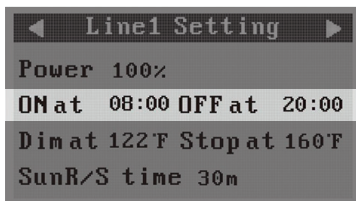
Settings are saved automatically after confirmation (press OK)

Example Settings

Lighting Schedule:

- ON at 10:30, OFF at 20:00

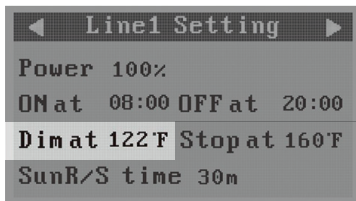
Lights on for 9h 30min daily.



Temperature Dimming:

- Dim at 35 °C

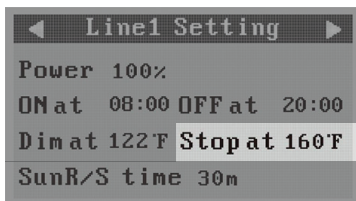
Gradually reduces light output when temperature is above 35 °C.



Automatic Shutdown:

- Stop at 40 °C

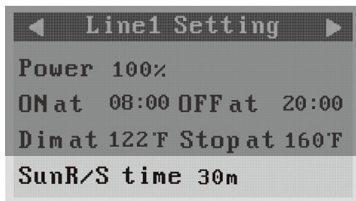
Turns off lights at 40 °C for safety.



Sunrise/Sunset:

- SunR/S time 30 mins

Ramp-up and ramp-down over 30 minutes for smoother light transitions.



System Settings

Temperature Unit:

Switch between °C and °F.

Dead Band (Temp Buffer):

Prevents frequent dimming on/off cycling (set 1–8 °C).

Time Settings:

Adjust the system clock for accurate scheduling.

System Reset:

Restore all parameters to default settings.

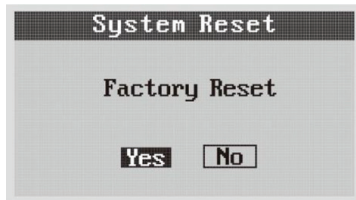
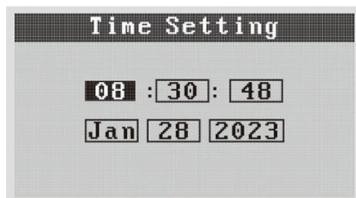
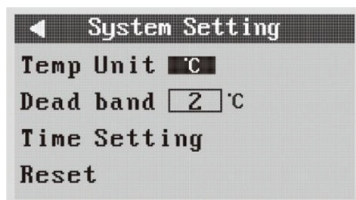
Other Features

Auto Screen Off:

The display will dim after 45 seconds of inactivity to conserve power.

Quick Brightness Adjustment:

Adjust output directly from the main screen without entering menus.



Safety Notice

Use only with compatible 0–10V dimmable fixtures.

Do not expose to water or high humidity.

Avoid blocking ventilation or sensor openings.

Disconnect from mains before cleaning or maintenance.

Do not open or modify the controller housing.

FOR INDOOR USE ONLY.

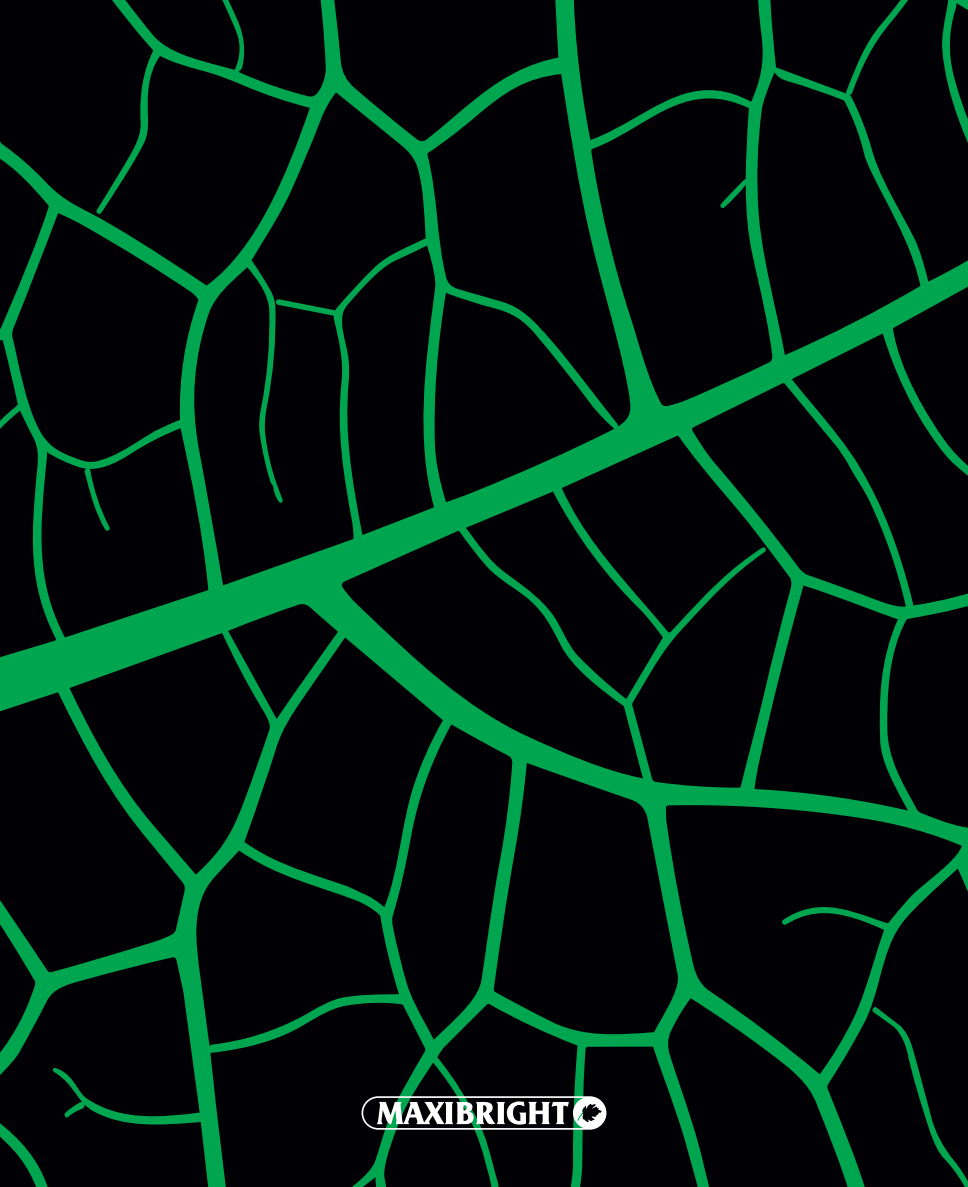
Troubleshooting

Issue	Possible Cause	Solution
No display	Power not connected	Check mains plug and cable
Screen off	Auto screen-off mode	Press any button to wake the screen
Lights not responding	Cable not connected / wrong input selected	Check all signal cables and ensure the fixture is set to "EXT" control mode
Temperature not showing	Sensor not connected	Reconnect the temperature/humidity sensor
Fixtures flicker	Dead-band temperature too low	Increase the dead-band setting in System Settings

Parameter	Specification
Operating Temperature	0 °C – 50 °C
Storage Temperature	-20 °C – 60 °C
Humidity Range	0 – 95 % RH (non-condensing)
Power Input	230 V AC ~ 50/60 Hz (UK plug fitted)
Control Signal	0 – 10 V DC
Temperature Dim Range	10 – 88 °C
Temperature Stop Range	12 – 90 °C
Sunrise/Sunset	1 – 60 min adjustable
Weight	600g (Including cables)
Dimensions	145.8 × 89.8 × 31 mm

Warranty

Your Maxibright Universal Lighting Controller is covered by a 2-year limited warranty against manufacturing defects. Proof of purchase is required.



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