



Sparkle 400

Special Effect

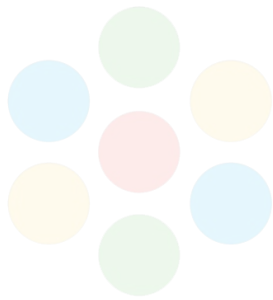
User Manual

V 1.0



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LIGHT BRIGHT

1. Introduction

ATTENTION: For your own safety, please read these operating instructions carefully before the first use.

This device has left our company in best condition. To maintain this condition and to ensure safe operation, it is absolutely necessary to observe the following safety instructions and warnings, which are described in this operating manual.

The manufacturer does not accept any liability for damage caused by not following these operating instructions or unauthorized changes to the device.

Please note that damages caused by manual changes to this device are not covered by the warranty.

ATTENTION: This device is for professional use only! Protection class IP 20 - only for use in dry environment (indoor)!

Light Bright does not authorize the use of your devices in life support systems. Life Support Systems are systems whose purpose is to maintain or stabilize life and whose defect or malfunction could result in death or injury to persons.

2. Safety instructions

CAUTION: Disconnect the device from the power supply before opening the device. Touching live parts (high voltage) can cause an electric shock.

Make sure that the mains voltage to be connected is not higher than the voltage indicated on the type plate. This device should only be operated with the power source specified on the type plate.

If you are not sure what type of power supply you have, contact your dealer or your power company.

Always disconnect the unit before cleaning, changing fuses, or replacing parts.

The power plug must always be accessible after the installation of the device. Do not overload the sockets or extension cords under any circumstances, as this could lead to fire or electric shock. Do not place any objects on the power cord. Do not install the appliance in such a way that persons can trip over or step on the power cord. Make sure that the power cord can never be crushed or damaged by sharp edges. Check the appliance and the power cord from time to time.

Always refer servicing to qualified service personnel.

ATTENTION: This device complies with protection class I. Therefore, this device must be connected to a mains socket with earthing contact.

Never connect this device to a dimmable power source.

The unit becomes hot during operation. Never touch the device with bare hands during operation!

When replacing fuses, only use fuses of the same type with identical values. Have fuses replaced only by a qualified technician.

If the device was exposed to strong temperature fluctuations (e.g. after transport), the device must not be switched on immediately. The resulting condensation water can damage your device. Leave the device switched off until it has reached room temperature.

Do not shake or bump the device. Avoid brute force during installation or operation.

This device is designed for indoor use only. Do not expose this device to rain or moisture.

When choosing a mounting location, make sure that the device is not exposed to extreme heat, humidity or dust.

Ventilation openings and slots on the device are used for ventilation. To ensure reliable operation of the device and to protect it from overheating, these openings must not be covered.

Never cover the outlet nozzle when the unit is in operation.

The openings should never be covered with fabrics or other objects, so that the airways are blocked.

This unit may not be operated in an environment without sufficient ventilation.

The device may only be operated when the housing is closed and all screws are tightened.

ATTENTION: The distance between spark outlet and ceiling must be at least 3.0 meters.

The maximum ambient temperature of 45°C must not be exceeded.

Do not operate the device until you have familiarized yourself with its functions. Prevent operation by persons who are not qualified to use the device. Most damage is the result of improper operation!

Please use the original packaging or specially adapted flight cases when transporting the device.

3. Unpacking the device

Carefully open the packaging on the top side and check devices and accessories for possible transport damage. These should be reported immediately to the transport company.

4. Installation

The device comes with a ready made-up Powercon connection cable. Please use only the supplied cable or a cable of the same type assembled by a specialist. The connection of the device to the power supply must also be carried out by an authorized specialist.

Connection in Germany/Europe:

Conductor color	Function	Symbol
Brown	Phase	„L“
Blue	Neutral conductor	„N“
Yellow/green	Protective earth	„PE“ \perp

Connected loads: voltage 100-240 V, frequency 50 - 60 Hz, power max. 400 VA

The electrical safety as well as the function of the device is only guaranteed if it is connected to a properly installed protective conductor system. It is very important that this basic safety requirement is present. In case of doubt, have the electrical installation checked by a specialist. The manufacturer cannot be held responsible for damage caused by a missing or interrupted protective conductor (e.g. electric shock)! Only use the device in a completely assembled state so that no electrical components can be touched. **(danger 100-240 V)**

If you have observed the listed points, you can plug in the devices or have them connected to the mains by a specialist.

5. DMX-Connection

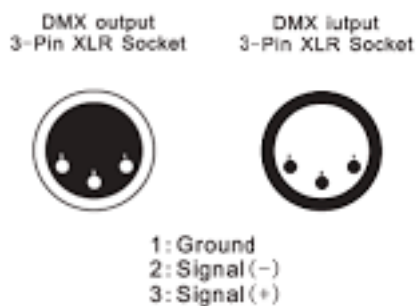
The DMX cabling (signal lines) should be done with a 2-wire cable with shielding. We recommend a DMX cable with 110 Ohm, 2x0,22mm² or 4x0,22mm². The plugs and sockets are 3-pin XLR-connectors, which can be purchased in specialized shops.

Pin assignment:

Pin1 = Ground / Shielding

Pin2 = DMX -

Pin3 = DMX +



The spotlight has a DMX-in and DMX-out connection. Now connect the DMX output of your controller to the first device (Controller DMX-Out -> Device DMX-In). Then connect the first device with the second and so on.

In some cases it is advisable to plug in a so-called end plug/end resistor (XLR plug with a 120 Ohm resistor between pin 2 and pin 3). Whether or not an end plug is required depends on various factors, including the cable lengths used and the number of devices. However, as long as there are no problems in the DMX line, it is not necessary.

6. Mounting the device

The device can only be used in standing position, a horizontal or hanging positioning is NOT allowed.

Place the device on a flat, even and solid surface to start it up.

7. Control panel

The device has a numeric display for temperature and DMX address as well as several status LEDs which show the current status of the device.

Use the UP/DOWN buttons to set the desired DMX address.

During preheating, the current temperature of the device is displayed.

READY: After preheating, the LED changes from flashing to steady light, indicating that the unit is ready for operation.

DMX: Flashing of the LED indicates that a DMX signal is present.

FAULT: Indicates an error, stop use immediately and send the device to a Light Bright service partner.

HEAT: This LED lights up during the heating up of the device. (duration approx. 5min)

8. Remote control

To switch on the device please press the red power button. When the display shows "FFF" the remote control and the appliance are connected.

Use the "On" and "Off" buttons to preheat the appliance.

Using buttons 1-2-3 you can now start the machine at three different working heights.

1: Working height 2

2: Working height 6

3: Working height 10

E-Stop triggers a safety shutdown.

With "Clear Powder" the remaining granulate is transported out of the heating shaft after emptying.

To switch off, please keep the power button pressed for 3 seconds.

9. Channel assignment

Channel	Value	Function
2		
1		Control
	0-10	Preheat Off
	11-220	Emergency shutdown
	221-239	Clear Powder (cleaning function)
	240-255	Preheat On
2		Working heights
	0-15	No function
	16-39	Working height 1
	40-63	Working height 2
	64-87	Working height 3
	88-111	Working height 4
	112-135	Working height 5
	136-159	Working height 6
	160-183	Working height 7
	184-207	Working height 8
	208-231	Working height 9
	232-255	Working height 10

10. Service and cleaning

ATTENTION: Always disconnect the device from the voltage source before opening it!

You should check the function of the fans in the device at regular intervals. In particular, you should make sure that the air inlets and the interior of the device are free of lint and dust.

Make sure that you do not bend or damage any parts when cleaning. When cleaning is complete, close all covers with the appropriate screws and carry out a function test.

Please use only clean cleaning cloths or brushes and cleaning agents without alcohol to clean your device. We recommend regular cleaning at least every three months.

Pay attention to damage to the device, to parts of the device and to the connection cables. If you notice any damage, DO NOT use the device and take it to an authorized dealer to exclude dangers by using defective devices and to repair your device professionally.

The granulate must be removed from the device after each use! Open the filler neck and fill the remaining granulate into a suitable container. Afterwards please use the cleaning function of the device to remove all granulate residues from the device.

Also the fan inlets must be cleaned regularly.

The warranty claim expires if the device is not cleaned properly!

11. Information



This device complies with the CE directive:

- in terms of the directive: 2014/35/EU Low Voltage Directive, (Directive 2014/35/EU of the European Parliament and of the Council of 26.02.2014 on the approximation of the laws of the Member States relating to electrical equipment designed for use within certain voltage limits)
- in terms of the directive: 2014/30/EU Electromagnetic Compatibility (Directive 2014/30/EU of the European Parliament and of the Council of 26.02.2014 on the approximation of the laws of the Member States relating to electromagnetic compatibility)

The device complies with IP20 and is therefore protected against the penetration of solid foreign bodies with a diameter of more than 12mm (first code number 2), while it is sensitive to moisture, splash and jet water.

The device is not designed for outdoor operation.

During operation, it is mandatory to connect the device to a power supply system equipped with a powerful grounding (Class 1 device according to EN 60598-1). Furthermore, it is recommended to protect the supply line of the equipment from indirect contact and/or short circuits with correctly dimensioned residual current circuit breakers.

Only use the device if the room temperature is below 45°C.

Before starting maintenance on the unit, it must cool down for at least 30 minutes after disconnection from the power supply to minimize the risk of damage to the electronics.