



## SP-1500 DMX Strobe

Strobe

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**4** SP-1500 DMX Strobe  
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# 1 General information


This document contains important instructions for the safe operation of the product. Read and follow the safety instructions and all other instructions. Keep the document for future reference. Make sure that it is available to all those using the product. If you sell the product to another user, be sure that they also receive this document.

Our products and documentation are subject to a process of continuous development. They are therefore subject to change. Please refer to the latest version of the documentation, which is ready for download under [www.thomann.de](http://www.thomann.de).

## 1.1 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this document.

Signal word	Meaning
<b>DANGER!</b>	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
<b>WARNING!</b>	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.
<b>NOTICE!</b>	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.
Warning signs	Type of danger
	Warning – high-voltage.
	Warning – dangerous optical radiation.
	Warning – suspended load.

Warning signs	Type of danger
	Warning – danger zone.

## 2 Safety instructions

### Intended use

This device is intended to be used as an illumination effect. The device is designed for professional use and is not suitable for use in households. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

### Safety



#### **DANGER!**

#### **Risk of injury and choking hazard for children!**

Children can suffocate on packaging material and small parts. Children can injure themselves when handling the device. Never allow children to play with the packaging material and the device. Always store packaging material out of the reach of babies and small children. Always dispose of packaging material properly when it is not in use. Never allow children to use the device without supervision. Keep small parts away from children and make sure that the device does not shed any small parts (such knobs) that children could play with.



#### **DANGER!**

#### **Danger to life due to electric current!**

Within the device there are areas where high voltages may be present. Never remove any covers. There are no user-serviceable parts inside. Do not use the device when covers, safety equipment or optical components are missing or damaged.



**DANGER!****Danger to life due to electric current!**

A short circuit could lead to a fire hazard and risk of death. Do not modify the mains cable or the plug! In case of isolation damage, disconnect immediately the power supply and arrange repair. If in doubt, seek advice from a qualified electrician.

**WARNING!****Risk of eye damage caused by high light intensity!**

The device generates highly intense light radiation. Looking directly into the light source can damage the eyes. Never look directly into the light source.

**WARNING!****Risk of epileptic fit due to flashing lights!**

The device emits flashing lights (strobe effects). Flashing lights can trigger epileptic fits in specific people. If you are at risk of epilepsy, avoid spending longer periods of time subjected to flashing lights and looking into strobing light.

**NOTICE!****Risk of fire due to covered vents and neighbouring heat sources!**

If the vents of the device are covered or the device is operated in the immediate vicinity of other heat sources, the device can over-heat and burst into flames. Never cover the device or the vents. Do not install the device in the immediate vicinity of other heat sources. Never operate the device in the immediate vicinity of naked flames.



### **NOTICE!**

#### **Damage to the device if operated in unsuitable ambient conditions!**

The device can be damaged if it is operated in unsuitable ambient conditions. Only operate the device indoors within the ambient conditions specified in the “Technical specifications” chapter of this user manual. Avoid operating it in environments with direct sunlight, heavy dirt and strong vibrations. Avoid operating it in environments with strong temperature fluctuations. If temperature fluctuations cannot be avoided (for example after transport in low outside temperatures), do not switch on the device immediately. Never subject the device to liquids or moisture. Never move the device to another location while it is in operation. In environments with increased dirt levels (for example due to dust, smoke, nicotine or mist): Have the device cleaned by qualified specialists at regular intervals to prevent damage due to overheating and other malfunctions.



### **NOTICE!**

#### **Damage to the device due to high voltages!**

The device can be damaged if it is operated with the incorrect voltage or if high voltage peaks occur. In the worst case, excess voltages can also cause a risk of injury and fires. Make sure that the voltage specification on the device matches the local power grid before plugging in the device. Only operate the device from professionally installed mains sockets that are protected by a residual current circuit breaker (FI). As a precaution, disconnect the device from the power grid when storms are approaching or if the device will not be used for a longer period.

### 3 Features

- powerful Stroboscope effect
- flash light energy: 1500 W
- strobe frequency steplessly adjustable
- brightness steplessly adjustable
- control via DMX (2 channels)
- operating modes: automatic or manual self-test, DMX
- DMX address and operating mode adjustable via DIP switches
- built-in line circuit breaker
- illuminant included

## 4 Installation

Unpack and check carefully there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the product against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.



### **WARNING!**

#### **Risk of injury from falling devices that were inadequately secured!**

If devices are not properly secured during assembly, they can cause severe injury and considerable damage by falling.

When installing and operating, make sure to follow the standards and regulations that apply in your country.

Always secure the device with a secondary safety attachment, such as a safety cable or a safety chain.

**NOTICE!****Risk of overheating and fire due to inadequate distance and bad ventilation!**

If the distance between the light source and the illuminated surface is too short or the device is badly ventilated, the device can overheat and cause fires.

Make sure that illuminated surfaces are more than 2 m away.

Do not operate the device in ambient temperatures above 40 °C.

Always ensure sufficient ventilation at the operating location.

**NOTICE!****Potential property damage due to unsuitable stands!**

If the device is mounted on an unsuitable stand, there is a risk that the stand will fall over and cause damage.

Only use stands whose maximum bearing capacity is at least as high as the weight of the device. Always ensure that the stand is stable.



### **NOTICE!**

#### **Data transfer errors due to improper wiring!**

If the DMX connections are wired incorrectly, this can cause errors during the data transfer.

Do not connect the DMX input and output to audio devices, e.g. mixers or amplifiers.

Use special DMX cables for the wiring instead of normal microphone cables.

## **Mounting options**

You can install the device in hanging or standing positions. When in use, the device must always be attached to a solid surface or an approved mount. Use the opening of the bracket provided for mounting.

Always work from a stable platform whenever installing, moving or servicing the unit. While you do this, the area underneath the device must be cordoned off.

The safety cable must be attached to the bracket.



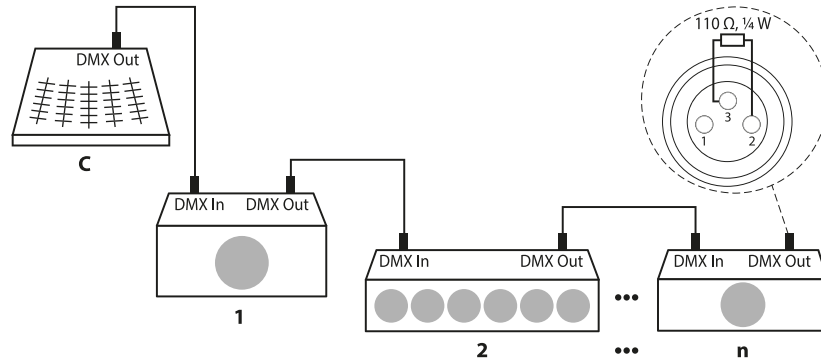
*Please note that this device must not be connected to a dimmer.*

## 5 Starting up

Create all connections while the device is off. Use the shortest possible high-quality cables for all connections. Take care when running the cables to prevent tripping hazards.

### Connections in DMX mode

Connect the DMX input of the device to the DMX output of a DMX controller or another DMX device. Connect the output of the first DMX device to the input of the second one, and so on to form a daisy chain. Always ensure that the output of the last DMX device in the daisy chain is terminated with a resistor ( $110\ \Omega$ ,  $\frac{1}{4}\text{ W}$ ).

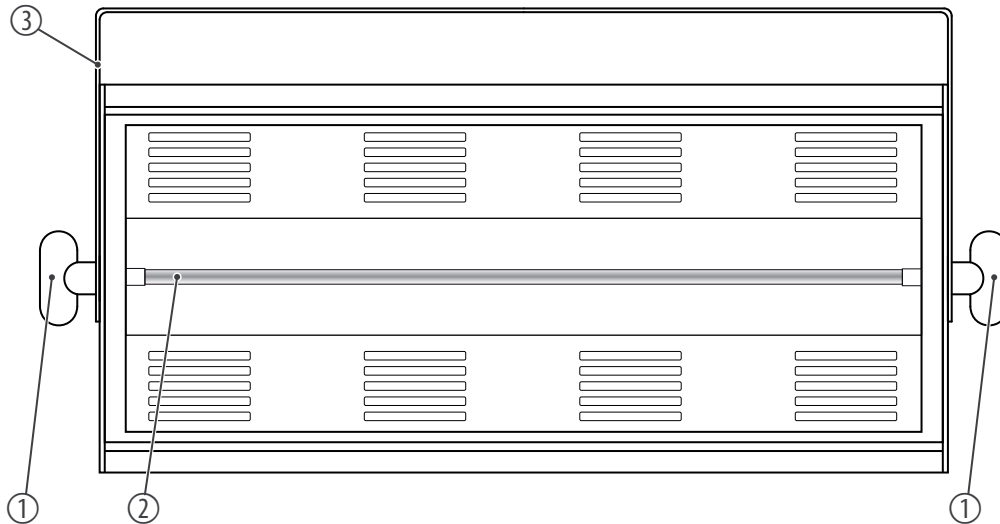


### Starting the device

To start up the device, connect it to the mains. The device is immediately operational.

## 6 Connections and controls

### Front panel



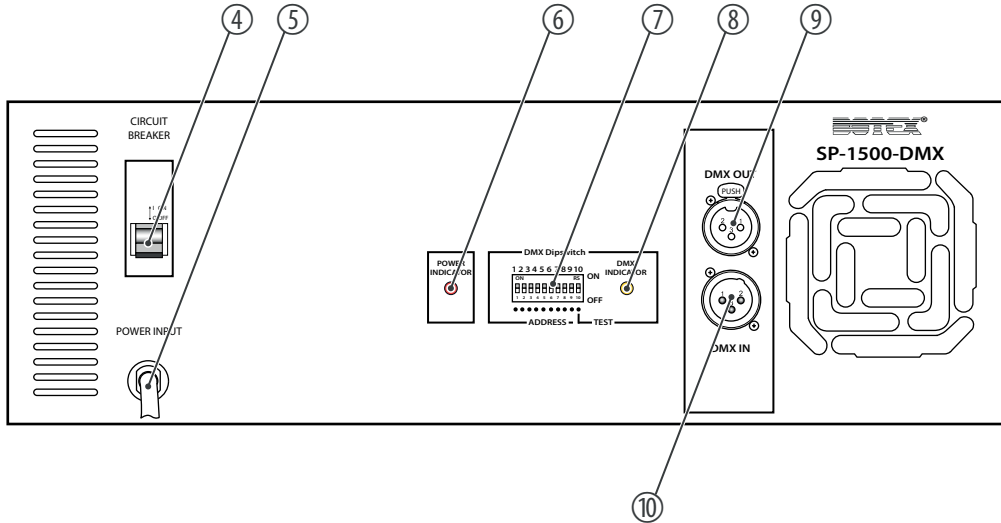


1 Locking screws for the mounting bracket

2 Light source

3 Mounting bracket

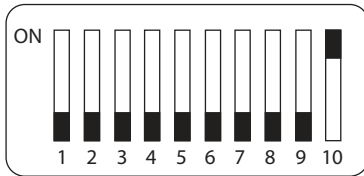
Control panel and connections



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4	[CIRCUIT BREAKER]   Line circuit breaker as automatic fuse.
5	[POWER INPUT]   Mains cable for the power supply.
6	[POWER INDICATOR]   Indicates that the device is connected to the power supply.
7	[DMX Dipswitch]   DIP switch for setting the DMX address and the operating mode.
8	[DMX INDICATOR]   Indicates that a signal is present on the DMX input.
9	[DMX OUT]   DMX output
10	[DMX IN]   DMX input

## 7 Operating



When DIP switch 10 is set to 'ON', the device operates in DMX mode and can be controlled by a DMX controller.

**Setting up the DMX address**

The value of the DIP switches 1-9 is binary coded. To set the desired DMX address, set the DIP switches so that the sum of the resulting numbers yields the desired DMX address. Please orient yourself by the following table:

9	8	7	6	5	4	3	2	1	DMX address
0	0	0	0	0	0	0	0	1	1
0	0	0	0	0	0	0	1	0	2
0	0	0	0	0	0	1	0	0	4
0	0	0	0	0	1	0	0	0	8
0	0	0	0	1	0	0	0	0	16
0	0	0	1	0	0	0	0	0	32
0	0	1	0	0	0	0	0	0	64
0	1	0	0	0	0	0	0	0	128
1	0	0	0	0	0	0	0	0	256

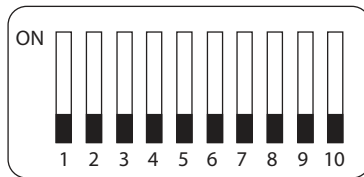
0: DIP switch is in 'OFF' position. 1: DIP switch is in 'ON' position.

Example: To set the DMX address 10, set DIP switches 2 and 4 to 'ON', all others to 'OFF'. The highest possible DMX address is 511 (all DIP switches to 'ON').

## DMX channel allocation

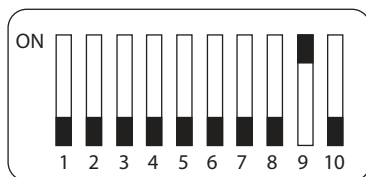
Channel	Value	Function
1	0 ... 255	Increasing flash frequency
2	0 ... 15	Dimmer (0 % bis 100 %)

## Selecting operating mode 'Automatic self-test'



- ➔ Set DIP switches 9 and 10 to 'OFF'.  
⇒ The self-test starts.

## Selecting operating mode 'Manual self-test'



1. ➤ Set DIP switches 9 to 'ON' and 10 to 'OFF'.
2. ➤ Use the DIP switches 1 to 4 to set the programme speed, and the DIP switches 5 to 8 to adjust the brightness of the self-test. The lowest programme speed or brightness is set when all four DIP switches are set to 'OFF'. The highest programme speed or brightness is set, when all four DIP switches are set to 'ON'.

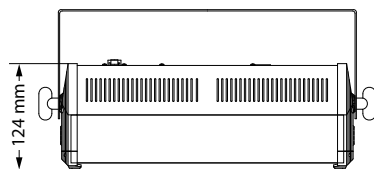
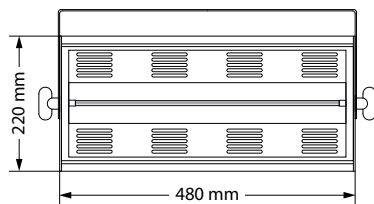
⇒ The self-test starts with the selected settings.

## Line circuit breaker

After the fuse has tripped, set the button in the control panel of the device back to the 'ON' position.

If the fuse trips repeatedly within a short time or can not be reset, the device must be checked and repaired by a qualified electrician.

## 8 Technical specifications



Suitable light sources	Strobe lamps 100 V / 1500 W, e.g. item no. 197075, 416046	
Control	DMX	
Number of DMX channels	2	
Input connections	DMX control	XLR panel plug, 3-pin
Output connections	DMX control	XLR panel socket, 3-pin
Brightness	Continuously adjustable from 0 ... 100%	
Power consumption	max. 1600 W	
Supply voltage	230 V ~ 50 Hz	
Resettable fuse	16 A	
International Protection Rating	IP20	
Dimensions (W × H × D)	480 mm × 220 mm × 124 mm	
Weight	5.65 kg	



Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20%...80% (non-condensing)

## 9 Plug and connection assignments

### Introduction

This chapter will help you select the right cables and plugs to connect your valuable equipment so that a perfect light experience is guaranteed.

Please take our tips, because especially in 'Sound & Light' caution is indicated: Even if a plug fits into a socket, the result of an incorrect connection may be a destroyed DMX controller, a short circuit or 'just' a not working light show!

### DMX connections



The unit offers a 3-pin XLR socket for DMX output and a 3-pin XLR plug for DMX input. Please refer to the drawing and table below for the pin assignment of a suitable XLR plug.

Pin	Configuration
1	Ground, shielding
2	Signal inverted (DMX-, 'cold signal')
3	Signal (DMX+, 'hot signal')

## 10 Troubleshooting



### **NOTICE!**

#### **Data transfer errors due to improper wiring!**

If the DMX connections are wired incorrectly, this can cause errors during the data transfer.

Do not connect the DMX input and output to audio devices, e.g. mixers or amplifiers.

Use special DMX cables for the wiring instead of normal microphone cables.

In the following we list a few common problems that may occur during operation. We give you some suggestions for easy troubleshooting:

Symptom	Remedy
The device does not work, no light	<ol style="list-style-type: none"><li>1. Check the mains connection and the fuse.</li><li>2. Check the positions of the individual DIP switches.</li></ol>
No response to the DMX controller	<ol style="list-style-type: none"><li>1. Check whether the DMX cables run near or parallel to high-voltage cables that may cause damage or interference to a DMX interface circuit.</li><li>2. Check the positions of the individual DIP switches.</li><li>3. Try using another DMX controller.</li></ol>

If the procedures recommended above do not succeed, please contact our Service Center. You can find the contact information at [www.thomann.de](http://www.thomann.de).

# 11 Cleaning

## Device components

Clean the device components that are accessible from the outside regularly. The cleaning frequency depends on the operating environment: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the device components.

- Clean with a dry soft cloth.
- Stubborn dirt can be removed with a slightly dampened cloth.
- Never use solvents or alcohol for cleaning.

## 12 Protecting the environment

### Disposal of the packing material



Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.

Do not dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the instructions and markings on the packaging.



Observe the disposal note regarding documentation in France.

### Disposal of discharge lamps

Dispose of broken or worn discharge lamps as hazardous waste according to legal regulations in a tightly closed container.

Before disposing of your old device, remove the discharge lamps from the device if this is possible without destroying it.

## Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) as amended.

Do not dispose of your old device with your normal household waste; instead, deliver it for controlled disposal by an approved waste disposal firm or through your local waste facility. When disposing of the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste management facility. Proper disposal protects the environment as well as the health of your fellow human beings.

Also note that waste avoidance is a valuable contribution to environmental protection. Repairing a device or passing it on to another user is an ecologically valuable alternative to disposal.

You can return your old device to Thomann GmbH at no charge. Check the current conditions on [www.thomann.de](http://www.thomann.de).

If your old device contains personal data, delete those data before disposing of it.











