



PAR 56 PAR 64
LED PAR

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1 General notes



This user manual contains important information on safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device, include the manual for the next owner.

Our products are subject to a process of continuous development. We therefore reserve the right to make changes without notice.

Symbols and signal words

This section provides an overview of the symbols and signal words used in this user manual.

Signal word	Meaning
DANGER!	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.
WARNING!	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.
NOTICE!	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 signs	Type of danger
 A yellow triangular warning sign with a black border. Inside the triangle, a black silhouette shows a person standing on a platform, with a line representing a cable or rope extending upwards from the platform to a hook or pulley, indicating a suspended load.	Warning – suspended load.
 A yellow triangular warning sign with a black border. Inside the triangle, a large black exclamation mark is centered, indicating a general danger or hazard zone.	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended to be used as an electronic illumination effect using LED technics. 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!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.



DANGER!

Electric shock caused by short-circuit

Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.



DANGER!

Electric shock caused by high voltages inside

Within the device there are areas where high voltages may be present. Never remove any covers.

There are no user-serviceable parts inside.



WARNING!

Eye damage caused by high light intensity

Never look directly into the light source.



WARNING!

Risk of epileptic shock

Strobe lighting can trigger seizures in photosensitive epilepsy. Sensitive persons should avoid looking at strobe lights.



NOTICE!

Risk of fire

Do not cover the device nor any ventilation slots. Do not place the device near any direct heat source. Keep the device away from naked flames.



NOTICE!

Operating conditions

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.



NOTICE!

Power supply

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user.

Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

3 Features

The LED PAR is particularly suitable for professional lighting applications, e.g. at events, on rock stages, in theatres and musicals or TV productions. It is characterized by a low power consumption and long life span.

Special features of this device:

- LEDs in three primary colours (RGB)
- Control via DMX or DIP switches on the unit
- Preprogrammed automatic shows
- Sound control
- Master / slave mode
- Robust metal housing

4 Installation

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

You can install the device on the wall, ceiling or floor. A mounting bracket and the necessary screws are included in the package.



WARNING!

Risk of injury caused by falling objects

Make sure that the installation complies with the standards and rules 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

The distance between the light output and the illuminated surface must be more than 0.5 m (19.7 in).

Always ensure sufficient ventilation.

The ambient temperature must always be below 40 °C (104 °F).



NOTICE!

Use of stands

When mounting the device onto a stand, ensure that the stand is in a safe and stable position and that the weight of the device does not exceed the maximum permissible load capacity of the stand.

**NOTICE!****Possible data transmission errors**

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX output to audio devices such as mixers or amplifiers.

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 pin assignment.

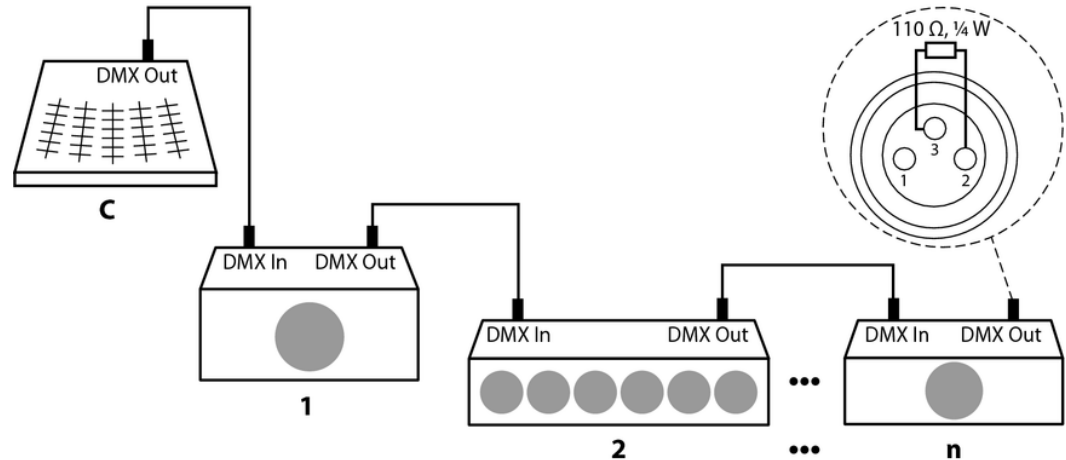
1	Ground, shielding
2	DMX data (-)
3	DMX data (+)

5 Starting up

Establish all connections as long as the unit is switched off. Use the shortest possible high-quality cables for all connections.

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 ($110\ \Omega$, $\frac{1}{4}\ \text{W}$).

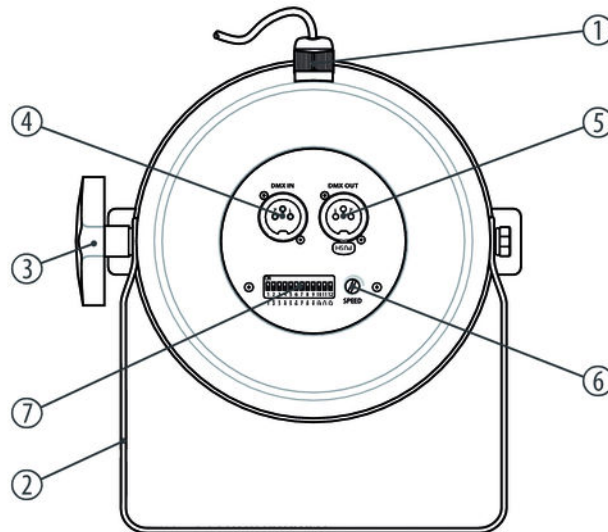


Connections in master/slave mode

When you configure a group of devices in master/slave mode, the first unit will control the other units for an automatic, sound-activated, synchronized show. This function is ideal when you want to start a show immediately. Connect the DMX output of the master device to the DMX input of the first slave device. Then connect the DMX output of the first slave device to the DMX input of the second slave device and so on.

6 Connections and operating elements

Rear panel



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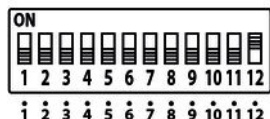
1	Mains cable.
2	Bracket for hanging or setting up.
3	Locking screw for the bracket.
4	DMX IN DMX input.
5	DMX OUT DMX output.
6	SPEED For manual speed adjustment.
7	DIP switch to set various functions depending on the respective operating mode.

7 Operation

7.1 Starting up the device

Connect the unit to the power grid to start operation. After a few seconds the unit is ready for use.

7.2 Sound-to-light



Set DIP switch 12 to 'ON' (upper position). The unit is now controlled by the beat of the music. With each pulse of the music the device will switch to a different colour. You can adjust the sensitivity for this operating mode using the 'Sensitive' control.

7.3 RGB colour mixing



Set DIP switches 11 and 12 to 'ON' to activate the mix colour mode of the device. You can adjust the time between colour blendings using the DIP switches according to the following table:

DIP	1	2	3	4	5	6	7	8	9	1-9 OFF
Time	2.5 s	5 s	7.5 s	10 s	15 s	20 s	40 s	80 s	160 s	640 s

If you set multiple switches to 'ON', their values are added up.

7.4 Manual mode



Set DIP switches 10, 11 and 12 to 'ON' to activate the manual mode of the device. Then you can adjust the brightness of the individual colours according to the following table:

RED	DIP 1, 2	OFF/OFF	OFF/ON	ON/OFF	ON/ON
GREEN	DIP 3, 4				
BLUE	DIP 4, 5				
BRIGHTNESS		0	25%	50%	100%

7.5 DMX mode



Set DIP switches 10, 11 and 12 to 'OFF' (lower position) to activate the DMX mode of the device. It can be controlled now with any DMX controller. Use DIP switches 1-9 to choose the DMX channels in a range of 1 - 507. Then DIP switch 1 stands for channel 1, switch 9 stands for channel 256.

Channel assignment is done according to the following table:

CH-1	CH-2	CH-3	CH-4	CH-5	CH-6	CH-7
RED	GREEN	BLUE	MACRO	Speed./strobe	MODE	Master DIM
0 = OFF	0 = OFF	0 = OFF	0-15	0 = OFF		0-255
1-255 = DIM	1-255 = DIM	1-255 = DIM	Macro off	16-255 = Strobe 16 speed steps	0-31 = colour setting	
0-15 = OFF	0-15 = OFF	0-15 = OFF		Speed	32-63 = fade out	
16-255 = ON	16-255 = ON	16-255 = ON		0-255		

0-15 = OFF	0-15 = OFF	0-15 = OFF			64-95 = fade in	
16-255 = ON	16-255 = ON	16-255 = ON			69-127 = fade in/out	
0-15 = OFF	0-15 = OFF	0-15 = OFF			128-159 = auto mix	
16-255 = ON	16-255 = ON	16-255 = ON			160-191 = 3 colour chases	
./.	./.	./.			192-223 = 7 colour chases	
			./.	224-255 = Sound-to-light		
			8-255 = Macro 31 macro steps	16-255 = Strobe 16 speed steps	./.	

8 Technical specifications

Item no. 115012/115025 Stairville LED PAR 56 10 mm RGB black/silver

LEDs	151 × high power
Number of DMX channels	7
Operating supply voltage	AC 230 V ~ , 50 Hz
Power consumption	15 W
Dimensions (W × D × H)	210 mm × 300 mm × 210 mm
Weight	1.2 kg

Item no. 215918/215926 Stairville LED PAR 64 10 mm RGB Floor black/silver

LEDs	183 × high power
Number of DMX channels	7
Operating supply voltage	AC 230 V ~ , 50 Hz
Power consumption	17 W
Dimensions (W × D × H)	230 mm × 400 mm × 230 mm
Weight	1.7 kg

Item no. 115048/115050 Stairville LED PAR 64 10 mm RGB black/silver

LEDs	183 × high power
Number of DMX channels	7
Operating supply voltage	AC 230 V ~ , 50 Hz
Power consumption	17 W
Dimensions (W × D × H)	230 mm × 400 mm × 230 mm
Weight	1.6 kg

9 Troubleshooting



NOTICE!

Possible data transmission errors

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX output to audio devices such as mixers or amplifiers.

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 unit does not work, no light.	Check the mains connection and the fuse.
No response to the DMX controller.	1. Check the DMX ports and cables for proper connection.
	2. Check the address settings and the DMX polarity.
	3. Try using another DMX controller.
	4. Check to see if the DMX cables run near or alongside to high voltage cables that may cause damage or interference to DMX interface circuits.

If the procedures recommended above do not succeed, please contact our Service Center. You can find the contact information at www.thomann.de.

10 Cleaning

Optical lenses

Clean the exterior of accessible optical lenses periodically to optimise light output. The frequency of cleaning depends on the operating environment: wet, smoky or particularly dirty surroundings can cause more accumulation of dirt on the optics of the device.

- Clean with a soft cloth using normal glass cleaning products.
- Always dry the parts carefully.

11 Protecting the environment

Disposal of the packaging material



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

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

Disposal of your old device



This device is subject to the European directive 2002/96/EC.

Do not dispose of the device with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.

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