STAIRVILLE

PAR 56, PAR 64

LED-PAR

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user manual

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Table of contents

1 General information

This user manual contains important information on the 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 to another user, be sure that they also receive this manual.

Our products and user manuals are subject to a process of continuous development. We therefore reserve the right to make changes without notice. Please refer to the latest version of the user manual which is ready for download under *www.thomann.de*.

1.1 Further information

On our website (*www.thomann.de)* you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

1.2 Notational conventions

This manual uses the following notational conventions:

Letterings

The letterings for connectors and controls are marked by square brackets and italics.

Examples: *[VOLUME]* control, *[Mono]* button.

Displays

Texts and values displayed on the device are marked by quotation marks and italics.

Examples: *'24ch'*, *'OFF'*.

1.3 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 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 – dangerous optical radiation.

Warning signs	Type of danger
	Warning – suspended load.
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended for use as an electronic lighting effect by means of LED technology. 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.

Extend the life of the device by regular breaks in operation and avoid switching it on and off frequently. This device is not suitable for continuous use.

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 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.

Do not use the device if covers, protectors or optical components are missing or damaged.

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.

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 block areas of ventilation. Do not install 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.

Only operate the device within the ambient conditions specified in the chapter 'Technical specifications' of this user manual. Avoid heavy temperature fluctuations and do not switch the device on immediately after it was exposed to temperature fluctuations (for example after transport at low outside temperatures).

Dust and dirt inside can damage the unit. When operated in harmful ambient conditions (dust, smoke, nicotine, fog, etc.), the unit should be maintained by qualified service personnel at regular intervals to prevent overheating and other malfunction.

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 ideal for professional lighting applications, for example, at events, on rock stages, in theatres and musicals or for TV productions. It's characterized by low power consumption and long service life.

Special features of the device:

- LEDs in three basic colours (RGB)
- Control via DMX and via DIP switches on the unit
- Preprogrammed automatic shows
- Sound control
- Robust metal housing

For technological reasons, the light output of LEDs decreases over their lifetime. This effect increases with higher operating temperature. You can extend the service life of the illuminants by providing adequate ventilation and operating the LEDs with the lowest possible brightness.

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 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 light output and the illuminated surface must be more than 1.5 m (19.7in).

Provide 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 input or output to audio devices such as mixers or amplifiers.

Mounting options

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

Always work from a stable platform whenever installing, moving or servicing the unit. In doing so, the area underneath the unit must be cordoned off.

The safety cable must be attached to the bracket.

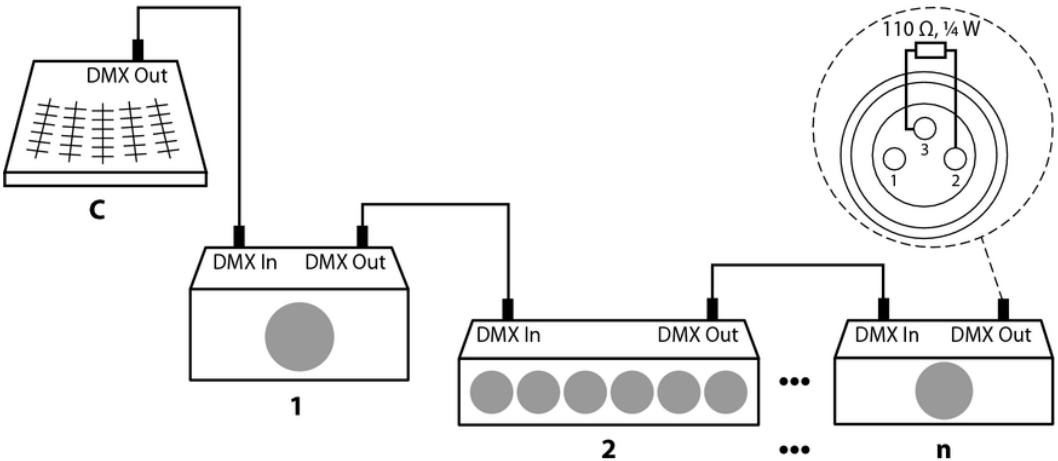
Please note that this device must not be connected to a dimmer.

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.

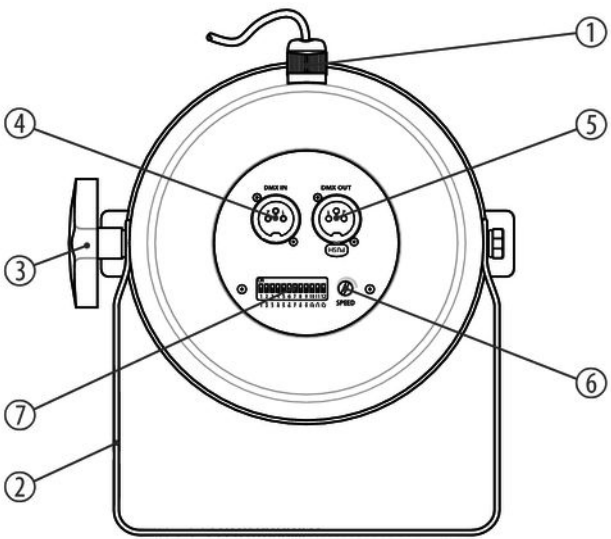
Connections in DMX mode

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 Ω, ¼ W).



6 Connections and operating elements

Rear panel



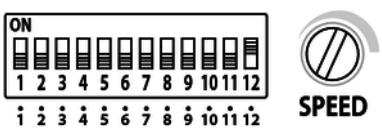
1	Power cord
2	Bracket for floor placement or hanging
3	Locking screw for the bracket.
4	*[DMX IN]* DMX input
5	*[DMX OUT]* DMX output
6	*[SPEED]* For manual speed setting
7	DIP switches for setting different functions depending on the mode

7 Operation

7.1 Starting up the device

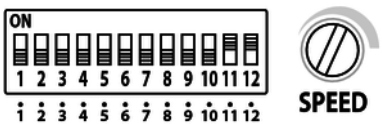
Connect the unit to the power grid to start operation. After a few seconds the unit is ready for use.

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

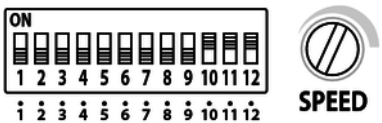


Set DIP switches 11 and 12 to 'ON' to activate the mix colour mode of the device. You can adjust the time between colour blendings using the DIP switches according to the following table:

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.

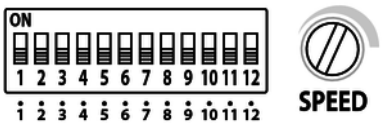
7.4 Manual mode



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 5, 6				
BRIGHTNESS		0	25%	50%	100%

7.5 DMX mode



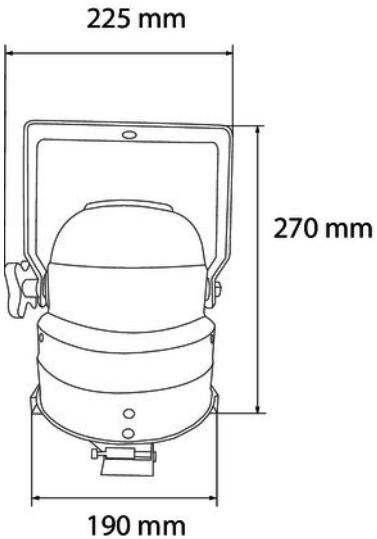
Set DIP switches 10, 11 and 12 to 'OFF' (lower position) to activate the DMX mode of the device. It can be controlled now with any DMX controller. Use DIP switches 1-9 to choose the DMX channels in a range of 1 - 507. Then DIP switch 1 stands for channel 1, switch 9 stands for channel 256.

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				
0-15 = OFF	0-15 = OFF	0-15 = OFF			69-127 = fade in/out	
16-255 = ON	16-255 = ON	16-255 = ON				
./.	./.	./.			128-159 = auto mix	
					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	./.	

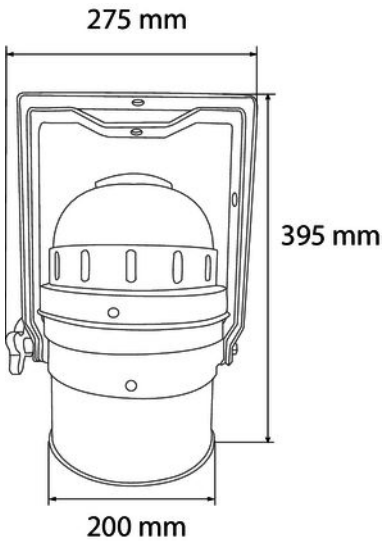
8 Technical specifications



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

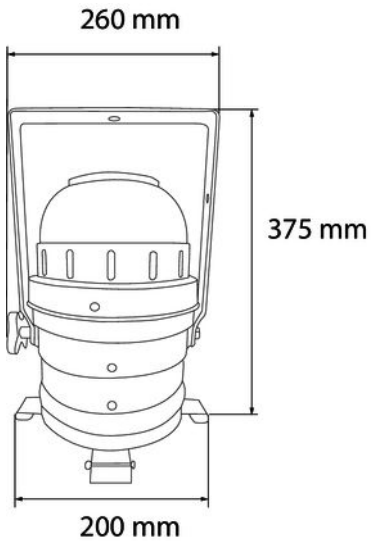
Light source	151 × High Power LEDs (50 × R, 50 × G, 51 × B)	
Control	DMX, DIP switches on the unit	
Number of DMX channels	7	
Input connections	DMX control	XLR chassis socket, 3-pin
Output connections	DMX control	XLR chassis socket, 3-pin
Power consumption	15 W	
Supply voltage	230 V ~ 50 Hz	
Degree of protection	IP20	
Mounting options	Hanging, standing	
Dimensions (W × H × D)	225 mm × 270 mm × 190 mm	
Weight	1.2 kg	

Ambient conditions	Temperature range	0 °C…40 °C
	Relative humidity	50 %, non-condensing



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

Light source	183 × High Power LEDs (61 × R, 61 × G, 61 × B)	
Control	DMX, DIP switches on the unit	
Number of DMX channels	7	
Input connections	DMX control	XLR chassis socket, 3-pin
Output connections	DMX control	XLR chassis socket, 3-pin
Power consumption	17 W	
Supply voltage	230 V ~ 50 Hz	
Degree of protection	IP20	
Mounting options	Hanging, standing	
Dimensions (W × H × D)	275 mm × 395 mm × 200 mm	
Weight	1.7 kg	
Ambient conditions	Temperature range	0 °C…40 °C
	Relative humidity	50 %, non-condensing



115048/115050 Stairville LED PAR 64 10 mm RGB black/silver

Light source	183 × High Power LEDs (61 × R, 61 × G, 61 × B)	
Control	DMX, DIP switches on the unit	
Number of DMX channels	7	
Input connections	DMX control	XLR chassis socket, 3-pin
Output connections	DMX control	XLR chassis socket, 3-pin
Power consumption	17 W	
Supply voltage	230 V ~ 50 Hz	
Degree of protection	IP20	
Mounting options	Hanging, standing	
Dimensions (W × H × D)	260 mm × 375 mm × 200 mm	
Weight	1.6 kg	
Ambient conditions	Temperature range	0 °C…40 °C
	Relative humidity	50 %, non-condensing

Further information

	Item no. 115012	Item no. 115025	Item no. 215918
Design	PAR56		PAR64
Colour mixture	RGB		
LED type	Unicoloured LEDs		
Base housing	No		Yes
Fanless	Yes		
Remote control	Not possible		
Wireless DMX	No		
Housing colour	Black	Silver	Black

	Item no. 215926	Item no. 115048	Item no. 115050
Design	PAR64		
Colour mixture	RGB		
LED type	Unicoloured LEDs		
Base housing	Yes	No	
Fanless	Yes		
Remote control	Not possible		
Wireless DMX	No		
Housing colour	Silver	Black	Silver

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!

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 input or 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*.

11 Cleaning

Optical lenses

Clean the optical lenses, that are accessible from the outside, regularly in order to optimize the 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 our lamp and lens cleaner (item no. 280122).
- Always dry the parts carefully.

12 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 product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose 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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