




STAIRVILLE

Led Par 64 18x3W
3in1 RGB
LED PAR

Musikhaus Thomann
Thomann GmbH
Hans-Thomann-Straße 1
96138 Burgebrach
Germany
Telephone: +49 (0) 9546 9223-0
E-mail: info@thomann.de
Internet: www.thomann.de

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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
	<p>Warning – suspended load.</p>
	<p>Warning – danger zone.</p>

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 suitable for almost all applications, for example in clubs, bars, small stages and theatres. It is characterized by small size, solid construction also for use 'on tour' and enormous power.

Special features of the device:

- 18 × tri-colour High-Power LEDs (RGB)
- Control via DMX (two different modes) and via buttons and display on the unit
- Automatic mode and sound control
- Master / Slave operation
- Robust metal housing in black (item # 325299) or silver (item # 325301).

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.

You can install the device on the wall, the ceiling or on the floor. A two-piece mounting bracket with locking screws is 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 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.



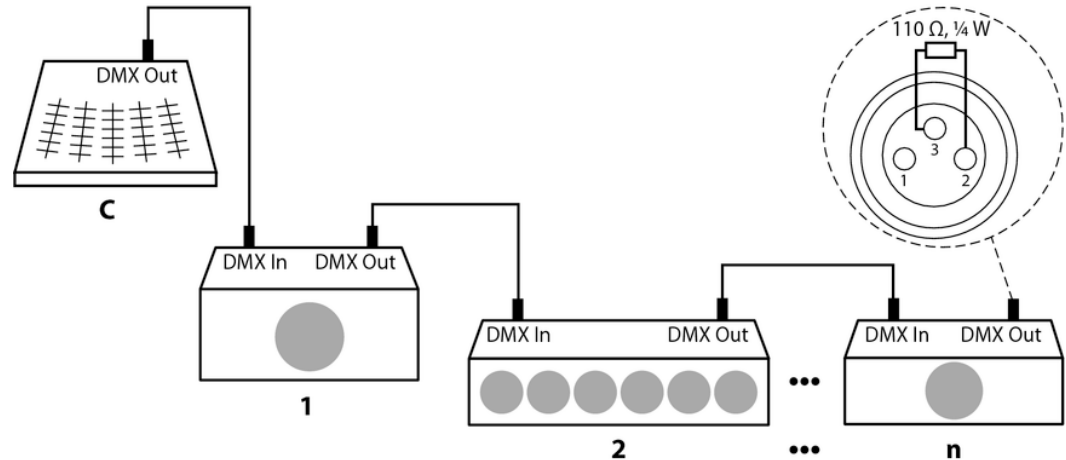
Please note that this device must not be connected to a dimmer.

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



DMX indicator

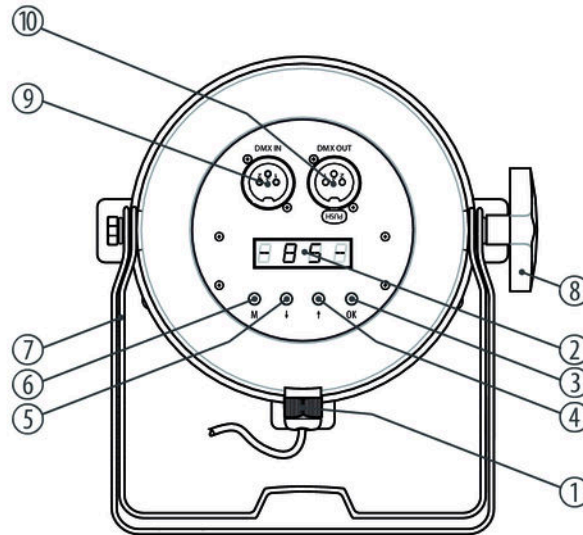
With active display, a dot is lit in the first digit when the unit is in DMX mode. If the dot is not lit, no valid DMX data is received.

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



Led Par 64 18x3W 3in1 RGB

1	Power cord
2	Display
3	<i>[OK]</i> button Confirms a selected value.
4, 5	Buttons ↑, ↓ Increases / decreases the displayed value by one.
6	<i>[M]</i> button Calls up the main menu or a submenu.
7	Bracket for floor placement or hanging
8	Locking screw for the bracket.
9	<i>[DMX IN]</i> DMX input
10	<i>[DMX OUT]</i> DMX output

7 Operating

7.1 Starting the device

Connect the device to the power supply to start operation. After a few seconds, the display indicates that a reset is in progress. The device is then ready for use.

7.2 Main menu

Press *[M]* to activate the main menu and select an operating mode. Use the arrow buttons to change the respectively displayed value. When the display shows the desired value, press the *[OK]* button.

If you don't press any button for about 1 minute, the unit returns to the previously selected mode. The set values are retained even when the device is disconnected from the mains power supply.

DMX mode

Press *[M]*. Press one of the arrow buttons repeatedly until the display shows 'SET'. Press *[OK]*. Press one of the arrow buttons repeatedly until the display shows 'dMX'. Press *[OK]*. Now use the arrow buttons to select one of the following DMX modes:

- '3CH' (three channels)
- '5CH' (five channels)

This setting is only relevant when the device is controlled via DMX. When the display shows the desired value, press the *[OK]* button to confirm the selection and then *[M]* to return to the parent menu. To return to the parent menu without making changes, press the *[M]* button.

DMX address

Press *[M]*. Press one of the arrow buttons repeatedly until the display shows 'Addr'. Press *[OK]*. Now you can set the number of the first DMX channel to be used by the device (DMX address). Use the arrow buttons to select a value between 1 and 512 (display shows 'A001' ... 'A512').

When the display shows the desired value, press the *[OK]* button to confirm the selection and then *[M]* to return to the parent menu. To return to the parent menu without making changes, press the *[M]* button.

Make sure that this number matches the configuration of your DMX controller. The following table shows the highest possible DMX address for the various DMX modes.

Mode	Highest possible DMX address
3-channel	510
5-channel	508

Display blackout

Press *[M]*. Press one of the arrow buttons repeatedly until the display shows 'SET'. Press *[OK]*. Press one of the arrow buttons repeatedly until the display shows 'dISP'. Press *[OK]*.

To enable the blackout function press one of the arrow buttons repeatedly until the display shows 'OFF'. Press *[OK]*. From now on the display goes out if you do not press a button within a period of two minutes. Once you press any button, the display becomes active again.

To permanently turn on the display, press one of the arrow buttons repeatedly until the display shows 'ON'. Press *[OK]*.

To return to the parent menu, press the *[M]* button.

Operating mode 'Slave'

To configure the device as slave, press one of the arrow buttons repeatedly until the display shows 'SLAVE'. Press *[OK]* to confirm the selection. The device is now configured as slave and follows the settings of the master device to which it is connected. Make sure that on all devices configured as Slave the DMX address is set to 1.

To return to the parent menu without making changes, press the *[M]* button.

This setting is only relevant if the device is not controlled via DMX.

Operating mode 'Show 1'

Press *[M]*. Press one of the arrow buttons repeatedly until the display shows 'CHAN'. Press *[OK]*. Now you can select one of the preprogrammed automatic shows. Use the arrow buttons to select a value for the progress speed between 0 and 255. (Display shows 'C000' ... 'C255').

The auto show can only be activated on the master device.

This setting is only relevant if the device is not controlled via DMX. The device can operate in stand-alone mode or control connected devices of the same type, that must be configured as slaves. When the display shows the desired value, press the *[OK]* button to confirm the selection and then *[M]* to return to the parent menu. To return to the parent menu without making changes, press the *[M]* button.

Operating mode 'Show 2'

Press *[M]*. Press one of the arrow buttons repeatedly until the display shows 'MIX'. Press *[OK]*. Now you can select one of the preprogrammed automatic shows. Use the arrow buttons to select a value for the progress speed between 0 and 255. (Display shows 'F000' ... 'F255').

The auto show can only be activated on the master device.

This setting is only relevant if the device is not controlled via DMX. The device can operate in stand-alone mode or control connected devices of the same type, that must be configured as slaves. When the display shows the desired value, press the *[OK]* button to confirm the selection and then *[M]* to return to the parent menu. To return to the parent menu without making changes, press the *[M]* button.

Sound control

Press *[M]*. Press one of the arrow buttons repeatedly until the display shows 'SOUd'. Press *[OK]*. The device now shows an automatic colour change in the rhythm of the music.

This setting is only relevant if the device is not controlled via DMX. Press *[M]* to return to the parent menu.

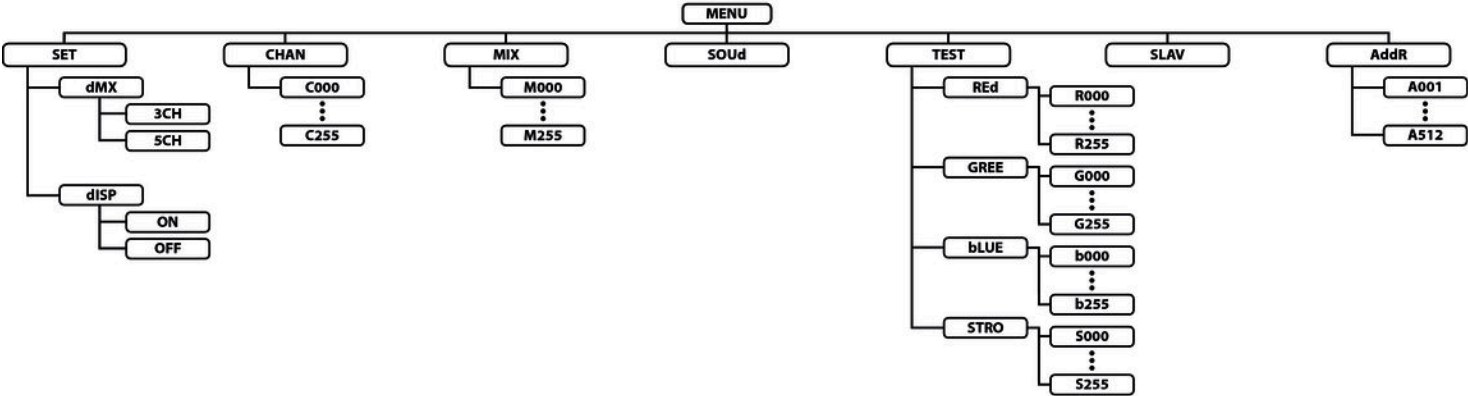
Manual test

Press *[M]*. Press one of the arrow buttons repeatedly until the display shows 'TEST'. Press *[OK]*. Press one of the arrow buttons repeatedly until the display shows 'REd', 'GREE', 'bLUE' or 'STRO'. Press *[OK]*. Now you can separately set the brightness of the LEDs for each colours red, green and blue in a range from 0 to 255, or select the strobe rate from a range of 0 to 255.

This mode is also suitable to mix constant or flashing light from the three LED colours without DMX control.

When the display shows the desired value, press the *[OK]* button to confirm the selection and then *[M]* to return to the parent menu. To return to the parent menu without making changes, press the *[M]* button.

7.3 Menu overview



7.4 Functions in 3-channel DMX mode

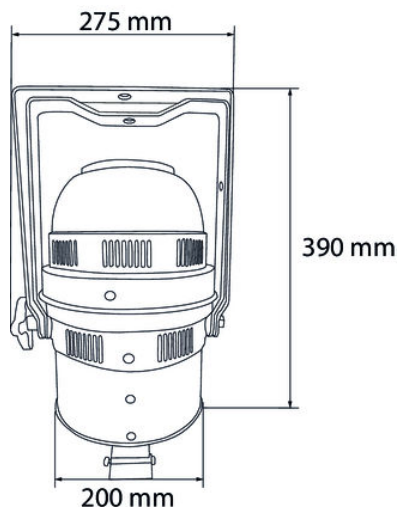
Channel	Value	Function
1	0...255	Intensity red (0 % to 100 %)
2	0...255	Intensity green (0 % to 100 %)
3	0...255	Intensity blue (0 % to 100 %)

7.5 Functions in 5-channel DMX mode

Channel	Value	Function
1	0...255	Intensity Red (0 % to 100 %), if channel 4 = 0...127, otherwise without function
2	0...255	Intensity Green (0 % to 100 %), if channel 4 = 0...127, otherwise without function
3	0...255	Intensity Blue (0 % to 100 %), if channel 4 = 0...127, otherwise without function
4		Operating mode selection

Channel	Value	Function
	0...127	Constant colour, the hue is set by channels 1 to 3
	128...223	Automatic colour change with 8 colours, channels 1-3 without function
	224...255	Sound-controlled colour change
5	Effects speed	
	0...255	Automatic colour change as set by channel 4, increasing speed from slow to fast

8 Technical specifications



Item number		325299	325301
Light source		18 × RGB ED, 3 W each	
Optical properties	Beam angle	40°	
Control		DMX	
		Buttons and display	
Number of DMX channels		3, 5	
Input connections	DMX control	XLR chassis socket, 3-pin	
Output connections	DMX control	XLR chassis socket, 3-pin	
Power consumption		58 W	
Supply voltage		110 – 230 V ~ 50/60 Hz	
Degree of protection		IP20	
Mounting options		Hanging, standing	

Item number		325299	325301
Dimensions (W × H × D)		275 mm × 200 mm × 390 mm	
Weight		2.92 kg	
Housing colour		Black	Silver
Ambient conditions	Temperature range	0 °C...40 °C	
	Relative humidity	50 %, non-condensing	

Further information

Design	PAR 64
Colour mixture	RGB
LED type	x-in-1
Base housing	Yes
Fanless	Yes
Remote control	Not possible
Wireless DMX	No

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 main fuse.
Apparently no function despite proper power supply	Check if the unit is in DMX mode or in 'slave' mode. If so, check the unit in another mode.
No response to the DMX controller	1. With active display, a dot is lit in the first digit when the unit is in DMX mode. If the dot is not lit, no valid DMX data is received. Then check that the DMX controller is switched on. Check the DMX connectors 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.

Fan grids

The fan grids of the device must be cleaned of any contamination, such as dust, etc. on a regular basis. Before cleaning, switch off the device and disconnect mains-operated devices from the mains. Only use pH-neutral, solvent-free and non-abrasive cleaning agents. Clean the unit with a slightly damp lint-free cloth.

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.



