


STAIRVILLE

PAR64 MKII RGBW
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 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 – 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

Always use proper ready-made insulated mains cabling (power cord) with a protective contact plug. 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:

- 168 10 mm LEDs (42 × white, 42 × red, 42 × green, 42 × blue)
- Control via DMX (3 different modes) and via buttons and display on the unit
- 41 preprogrammed automatic shows
- Sound control
- Master / slave mode
- 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.



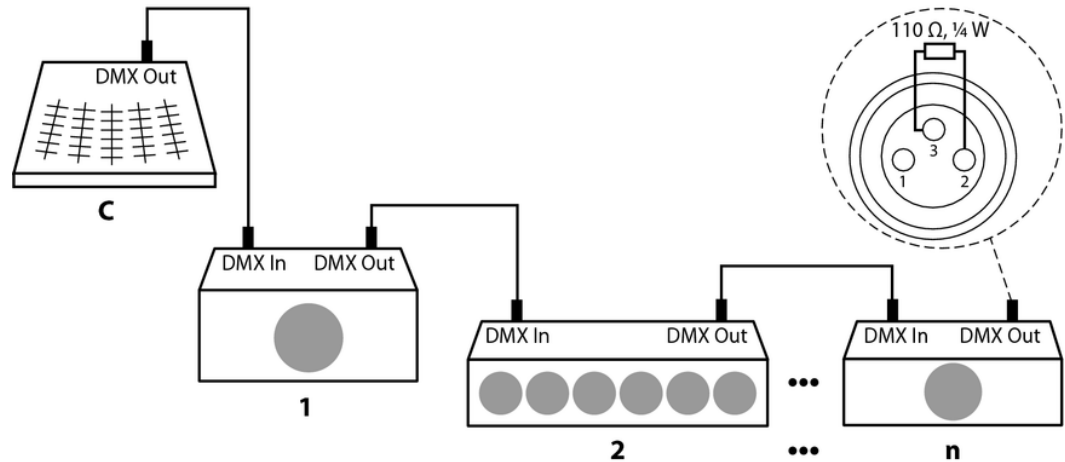
Please note that this device must not be connected to a dimmer.

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

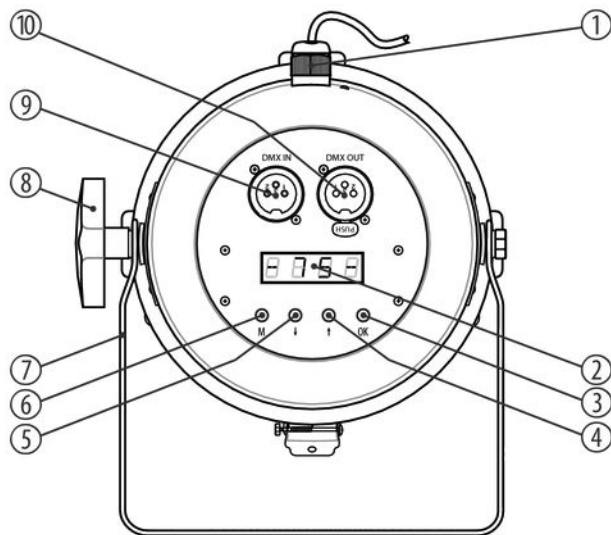


Connections in master/slave mode

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



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

7 Operating

7.1 Starting up the device

Connect the unit to the power grid to start the operation. After a few seconds the display shows a running reset. The unit is then ready for use.

7.2 Main menu

Press *[M]* to call the main menu and select an operating mode. Use the arrow keys to change the respectively shown value. When the display shows the desired value, press *[OK]*.

If you don't press any button for about a minute, the unit will return to the previous mode. The set values are retained even when the device is disconnected from the power supply.

DMX mode

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

- '4CH' (four channels)
- '6CH' (six channels)
- '8CH' (eight channels)

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

DMX address

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

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

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

Mode	Highest possible DMX address
4-channel	509
6-channel	507
8-channel	505

Operating mode 'Show/Master'

Press *[M]*. Press one of the arrow keys repeatedly until the display shows 'LINE'. Press *[OK]*. Press one of the arrow keys repeatedly until the display shows 'MA'. Press *[OK]*. Now you can select one of the 41 pre-programmed shows. Use the arrow keys to select a value between 1 and 42 (the display shows 'P-01' ... 'P-42').

The auto show can only be activated on the device that serves as 'Master'.

This setting is only relevant if the device is not controlled via DMX. The device can operate in standalone mode or control connected devices of the same type, that have to be configured as 'Slaves'. When the display shows the desired value, press *[OK]* to confirm the selection and then *[M]* to return to the superordinate menu. To return to the superordinate menu without changes, press *[M]*.

Operating mode 'Slave'

Press *[M]*. Press one of the arrow keys repeatedly until the display shows 'LINE'. Press *[OK]*. Press one of the arrow keys repeatedly until the display shows 'SL'. Press *[OK]*. Now you can set the number of the device by which it is addressed as slave by the master. Use the arrow keys to select a value between 1 and 512 (the display shows 'A001' ... 'A512').

This setting is only relevant if the device is operated as slave by a master, but not controlled via DMX. When the display shows the desired value, press *[OK]* to confirm the selection and then *[M]* to return to the superordinate menu. To return to the superordinate menu without changes, press *[M]*.

Programme speed

Press *[M]*. Press one of the arrow keys repeatedly until the display shows 'SET'. Press *[OK]*. Press one of the arrow keys repeatedly until the display shows 'SPEE'. Press *[OK]*. Now you can set the programme speed for the pre-programmed automatic shows. Use the arrow keys to select a value between 1 and 255 (the display shows 'T001' ... 'T255').

This setting is only relevant if the device is not controlled via DMX. When the display shows the desired value, press *[OK]* to confirm the selection and then *[M]* to return to the superordinate menu. To return to the superordinate menu without changes, press *[M]*.

Microphone sensitivity

Press *[M]*. Press one of the arrow keys repeatedly until the display shows 'SET'. Press *[OK]*. Press one of the arrow keys repeatedly until the display shows 'MIC'. Press *[OK]*. Now you can adjust the sensitivity of the built-in microphone for the sound-control. Use the arrow keys to select 'OFF' (microphone off) or a value between 1 and 30 (the display shows 'M-01' ... 'M-30').

This setting is only relevant if the device is not controlled via DMX. When the display shows the desired value, press *[OK]* to confirm the selection and then *[M]* to return to the superordinate menu. To return to the superordinate menu without changes, press *[M]*.

Manual test

Press *[M]*. Press one of the arrow keys repeatedly until the display shows 'TEST'. Press *[OK]*. Press one of the arrow keys repeatedly until the display shows 'RED', 'GREE', 'BLUE', 'WHIT' or 'STRO'. Press *[OK]*. Now you can adjust the brightness of the red, green, blue or white LEDs in a range from 0 to 255, or select the flash rate in a range from 0 to 24.

This operating mode can also be used to create constant or flashing light mixed from the four LED colours without DMX controller.

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

Fade speed

Press *[M]*. Press one of the arrow keys repeatedly until the display shows 'FADE'. Press *[OK]*. Now you can set the fade speed of the pre-programmed automatic shows. Use the arrow keys to select a value between 1 and 7 (the display shows 'F-01' ... 'F-07').

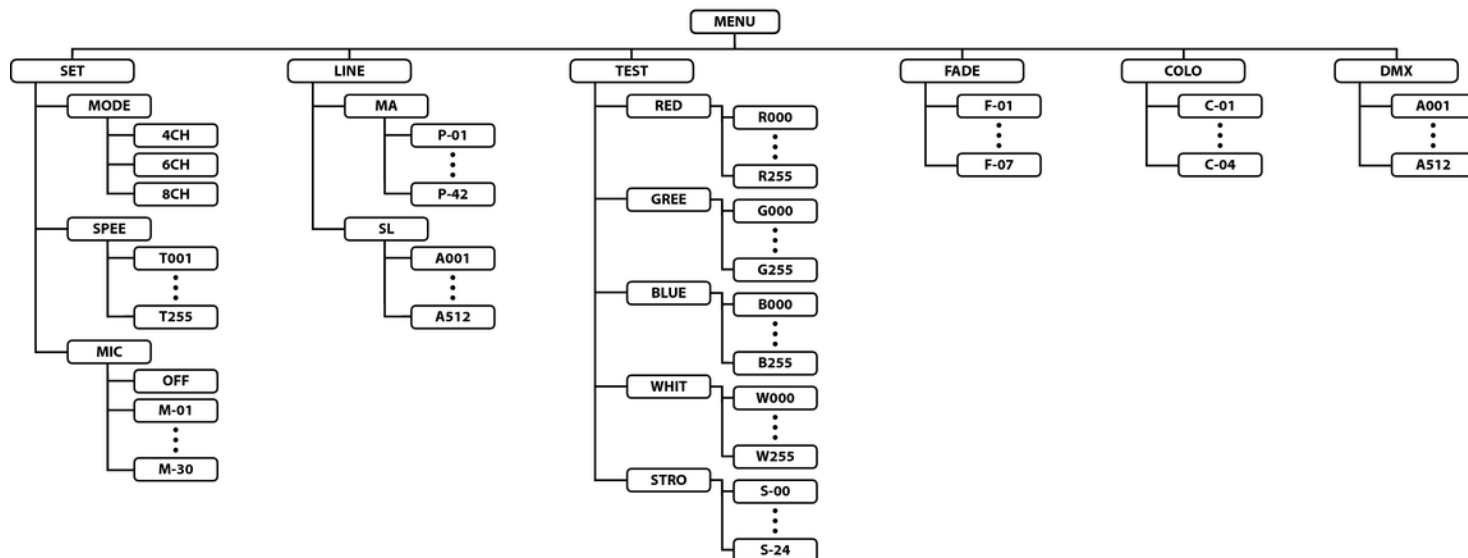
This setting is only relevant if the device is not controlled via DMX. When the display shows the desired value, press *[OK]* to confirm the selection and return to the main menu. To return to the main menu without changes, press *[M]*.

Colour selection

Press *[M]*. Press one of the arrow keys repeatedly until the display shows 'COLO'. Press *[OK]*. Now you can set a base colour for the pre-programmed automatic shows. Use the arrow keys to select a value between 1 and 4 (the display shows 'C-01' ... 'C-04').

This setting is only relevant if the device is not controlled via DMX. When the display shows the desired value, press *[OK]* to confirm the selection and return to the main menu. To return to the main menu without changes, press *[M]*.

7.3 Menu overview



7.4 Functions in 4-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 %)
4	0...255	Intensity white (0 % to 100 %)

7.5 Functions in 6-channel DMX mode

Channel	Value	Function
1	Operating mode selection	
	0...63	Constant colour, colouring is determined by channels 2 to 5
	64...127	Automatic colour change with 7 colours, channels 2 to 5 have no function

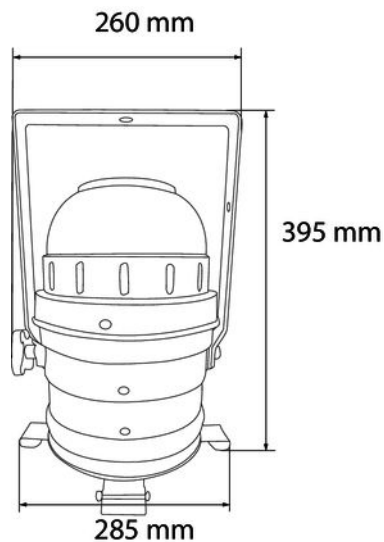
Channel	Value	Function
	128...191	Automatic colour change with 12 colours, channels 2 to 5 have no function
	192...255	Automatic colour change with 4 colours, channels 2 to 5 have no function
2	0...255	Intensity red (0 % to 100 %), if channel 1 = 0...63
3	0...255	Intensity green (0 % to 100 %), if channel 1 = 0...63
4	0...255	Intensity blue (0 % to 100 %), if channel 1 = 0...63
5	0...255	Intensity white (0 % to 100 %), if channel 1 = 0...63
6	Effects speed	
	0...10	No automatic colour change
	11...100	Automatic colour change as set by channel 1, decreasing speed from fast to slow
	101...150	No automatic colour change
	151...255	Automatic colour change as set by channel 1, randomly changing speed

7.6 Functions in 8-channel DMX mode

Channel	Value	Function
1	0...255	Intensity red (0 % to 100 %), if channel 5 = 0...15 and channel 7 = 0...31
2	0...255	Intensity green (0 % to 100 %), if channel 5 = 0...15 and channel 7 = 0...31
3	0...255	Intensity blue (0 % to 100 %), if channel 5 = 0...15 and channel 7 = 0...31
4	0...255	Intensity white (0 % to 100 %), if channel 5 = 0...15 and channel 7 = 0...31
5	Fixed colour pattern	
	0...15	No fixed colour and movement pattern
	16...255	One of 31 pre-programmed automatic shows (macros), channels 6 and 7 without function
6	Strobe effect	
	0...15	Full brightness, no strobe effect
	16...255	Strobe effect, increasing speed if channel 5 = 0...15
7	Operating mode selection	

Channel	Value	Function
	0...31	Constant colour, colouring is determined by channels 1 to 4
	32...63	Fade-out effect, speed controlled by channel 6, channels 1 to 5 without function
	64...95	Fade-in effect, speed controlled by channel 6, channels 1 to 5 without function
	96...127	Fade-in-out effect, speed controlled by channel 6, channels 1 to 5 without function
	128...159	Auto-mix effect, speed controlled by channel 6, channels 1 to 5 without function
	160...191	Chase (4 colours), speed controlled by channel 6, channels 1 to 5 without function
	192...223	Chase (12 colours), speed controlled by channel 6, channels 1 to 5 without function
	224...255	Sound control
8	0...255	Dimmer (0 % to 100 %)

8 Technical specifications



Light source	168 10 mm LEDs (42 × white, 42 × red, 42 × green, 42 × blue)	
Optical properties	Beam angle	45°
Control	DMX, buttons and display on the unit	
Number of DMX channels	4, 6 or 8	
Input connections	DMX control	XLR chassis socket, 3-pin
Output connections	DMX control	XLR chassis socket, 3-pin
Power consumption	13 W	
Supply voltage	230 V ~ 50 Hz	
Degree of protection	IP20	
Mounting options	Hanging, standing	
Dimensions (W × H × D)	260 mm × 395 mm × 285 mm	
Weight	2.1 kg	

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

Further information

Construction	PAR64
Colour mixture	RGBW
LED type	Unicoloured LEDs
Base housing	No
Fanless	Yes
Remote control	Not possible
Wireless DMX	No
Housing colour	Black (item no. 274650) Silver (item no. 274652)

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 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.

10 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.

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 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.



