



Outdoor Stage PAR 12 × 8 QCL LED PAR

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1 General notes

This manual contains important instructions for the safe operation of the unit. Read and follow the safety instructions and all other instructions. Keep the manual for future reference. Make sure that it is available to all those using the device. If you sell the unit please make sure that the buyer also receives this manual.

Our products are subject to a process of continuous development. Thus, they are subject to change.



1.1 Further information

On our website (<u>www.thomann.de</u>) 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.

DisplaysTexts 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
A	Warning – high-voltage.
	Warning – hot surface.



Warning signs	Type of danger
	Warning – dangerous optical radiation.
	Warning – suspended load.
<u>^</u>	Warning – danger zone.

2 Safety

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 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.

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



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.



WARNING!

Risk of burns

The surface of the device can become very hot during operation.

Do not touch the device with bare hands during operation, and after switching off wait for at least 15 minutes.



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!

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

Due to its sturdy and weather-proof housing made of die-cast aluminium, the device is especially suitable for outdoor use. With the very bright four-colour LEDs, it is particularly suitable for professional lighting tasks.

Special features of the device:

- 12 × four-colour LEDs (8 W)
- Control via DMX (four different modes) and via buttons and display on the unit
- 11 preprogrammed automatic shows
- Master / Slave operation
- Rugged die-cast aluminium housing
- IP65 (suitable for outdoor use)
- Splashproof safety plug (IP44)
- Pressure compensation element (prevents condensation inside the device)
- Sturdy double bracket for secure attachment to trusses or firm footing on the ground
- Connectors for power supply and DMX control via splashproof screw-mountable plugs and couplings
- Mains power adapter with safety plug included



Information about protection class IP65

Equipment with protection class IP65 are dust-tight and completely protected against contact (first code number). They are also protected against splash water from any angle (second code digit). That is why this equipment can also be used outdoors. Event technology equipment is generally only designed for temporary use however (event lighting) and not for permanent use outdoors.

The specified protection class does not make a statement about the weather resistance of the equipment (resistance to changing ambient conditions as well as against the effects of sunlight and UV rays).

The seals and screw connections of the equipment must be checked regularly to ensure a fault-free operation. In cases of doubt, consult a specialist workshop in due time.



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

Always ensure sufficient ventilation.

The ambient temperature must not exceed the limits stated in the chapter Technical Specifications of the User Manual.



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.



NOTICE!

Possible damage due to moisture

Moisture entering into open connectors (plugs and couplers) of DMX or power cords can cause short circuits.

Close unused connectors with end caps intended for this purpose (www.thomann.de).



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. Benutzen Sie zur Befestigung die dafür vorgesehenen Öffnungen des zweiteiligen Bügels.

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.

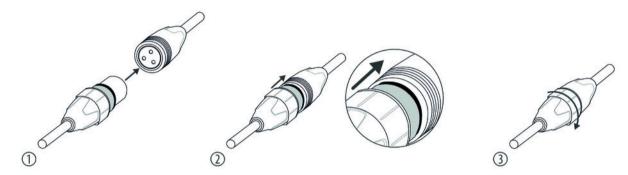
The safety cable must be attached to the bracket.



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



Connecting the DMX IP65 connectors



Proceed as follows to connect the DMX-IP65 connectors:

- **1.** Insert the plug completely and straight into the coupling.
- **2.** Make sure that the flexible sealing ring has complete contact.
- 3. Turn the union nut straight onto the thread of the coupling. Hand-tighten the union nut.



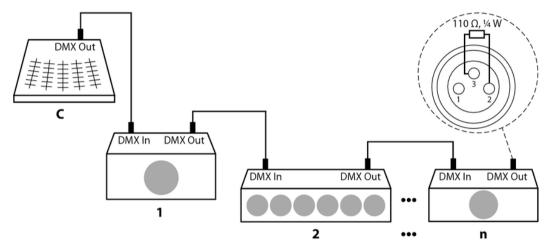
5 Starting up

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 , $\frac{1}{4}$ W).





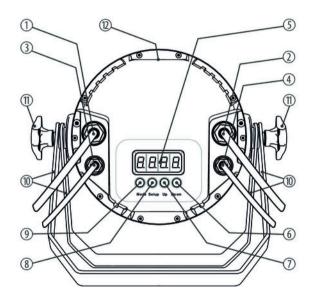
Connections in 'Master / Slave' mode

When you configure a group of devices in 'Master / Slave' mode, the first unit will control the others. This feature is especially useful to start a show without much programming. Connect the DMX output of the master unit to the DMX input of the first slave unit. Then connect the DMX output of the first slave unit to the DMX input of the second slave unit and so on.



6 Connections and operating elements

Rear panel





Connections and operating elements

1	Power cord for the voltage supply of the unit (with special plug, screw-mountable)
2	Power cord for the voltage supply of a connected device (special coupling, screw-mountable)
3	DMX input cable (IP65DMX plug, screw-mountable)
4	DMX output cable (IP65DMX coupling, screw-mountable)
5	Display
6	[Down]
	Decreases the displayed value by one.
7	[Up]
	Increases the displayed value by one.
8	[Setup]
	Chooses between the options of the selected mode
9	[Mode]
	Activates the main menu and toggles between menu items.
10	Hanging bracket/floor stand



- 11 Bracket adjustment knobs
- 12 Pressure equalisation element



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 [Mode] to activate the main menu and select an operating mode. Use [Up] and [Down] to change the respectively displayed value. When the display shows the desired value, press [MODE].

If you don't press any button for about 20 seconds, 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 [Mode] until the display shows 'd.xxx'. Now you can set the number of the first DMX channel to be used by the device (DMX address). Use [Up] and [Down] to select a value between 1 and 512 (display shows 'd.001'... 'd.512').

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
1-channel	512
4-channel	509
5-channel	508
7-channel	506

Confirm with [Setup]. Now use [UP] and [DOWN] to select one of the following DMX operating modes:

- '1-ch' (one channel)
- '4-ch' (four channels)
- '5-ch' (five channels)



■ '7-ch' (seven channels)

This setting is only relevant when the device is controlled via DMX. When the display shows the desired value, press [Setup] to confirm the selection and return to the parent menu.



Operating mode 'Show/Master'

Press [Mode] repeatedly until the display shows 'Pr.xx'. Now you can select one of the 11 preprogrammed automatic shows. Use [Up] and [Down] to select a value between 'Pr.01' and 'Pr.11'.

Program	Description
Pr.01	Constant colour hue
Pr.02	Slow transition type 1, red, green, blue and white
Pr.03	Slow transition type 2, red, green, blue and white
Pr.04	Fast transition, all colours
Pr.05	Fast transition, red, green, blue and white
Pr.06	Random programme 1
Pr.07	Random programme 2
Pr.08	Slow transition bright / dark, red
Pr.09	Slow transition bright / dark, green



Program	Description
Pr.10	Slow transition bright / dark, blue
Pr.11	Slow transition bright / dark, white

The auto show can only be activated on the device that is configured as master.

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.



Settings programme Pr.01

For the programme 'Pr.01', you can choose from 14 colours. Select programme 'Pr.01' first, then confirm with 'Setup'. Now you can use the [Up] and [Down] buttons to select one of the following options:

Value	Description
′1r′	Red
′2rg′	Red and green
′3g′	Green
'4gb'	Green and blue
'5b'	Blue
'6rb'	Red and blue
′7.rgb′	Red, green and blue
'8u'	White
'9FL'	Red, green, blue and white, each colour separately adjustable
'10.ru'	Red and white



Value	Description
'11.gu'	Green and white
'12.bu'	Blue and white
'13.gu'	Red, green and white
'14.Uu'	Red, blue and white

If the colour value '9.-FL' is selected, you can press [Setup] to open the submenu for setting the colour. Use the [Up] and [Down] buttons to set the intensity of red, green, blue and white individually in a range from 0 to 255.

Confirm again with [Setup]. Now you can select the speed of the Strobe effect between 'off' or 'slow' and 'fast' (display shows 'FS00' ... 'FS99').

Settings programme Pr.02 ... Pr.11

For the programmes 'Pr.02' to 'Pr.11', you can additionally set the speed of the transition from one hue to the next and the blinking speed of the flash effect. Use the [Up] and [Down] buttons to select a value between 'slow' and 'fast' (display shows 'SP.01'... 'SP.FL') for the transition speed.

Confirm again with [Setup]. Now you can select the speed of the Strobe effect between 'off' or 'slow' and 'fast' (display shows 'FS00' ... 'FS99').



Operating mode 'Auto'

In automatic mode, all programmed shows are played sequentially in an endless loop.

Press [Mode] repeatedly until the display shows 'Auto'. The automatic mode starts immedi-

ately.

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

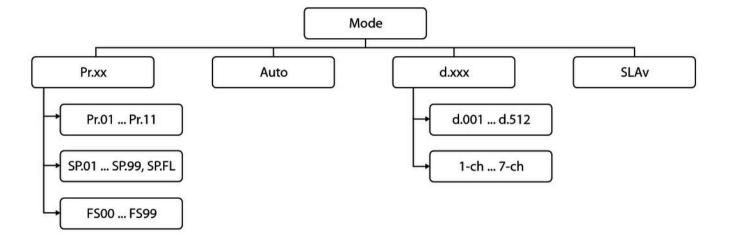
Operating mode 'Slave'

Press [Mode] until the display shows 'SLAv'. The device is instantly in 'slave' mode.

This setting is only relevant if the device is operating as Slave controlled by a Master, but not

via DMX.

7.3 Menu overview





7.4 Functions in 1-channel DMX mode

Channel	Value	Function
1	Static colour	
	0	Dark
	122	Red
	2345	Green
	4668	Blue
	6991	Cyan
	92114	Yellow
	115137	Orange
	138160	Pink
	161183	Violet
	184206	Dark blue



Operating

Channel	Value	Function
	207229	Light green
	230252	White
	253255	Warm white

7.5 Functions in 4-channel DMX mode

Channel	Value	Function
1	0255	Intensity red (0 % to 100 %)
2	0255	Intensity green (0 % to 100 %)
3	0255	Intensity blue (0 % to 100 %)
4	0255	Intensity cold white (0 % to 100 %)



7.6 Functions in 5-channel DMX mode

Channel	Value	Function
1	0255	Dimmer (0 % to 100 %)
2	0255	Intensity red (0 % to 100 %)
3	0255	Intensity green (0 % to 100 %)
4	0255	Intensity blue (0 % to 100 %)
5	0255	Intensity cold white (0 % to 100 %)

7.7 Functions in 7-channel DMX mode

Channel	Value	Function
1	0255	Dimmer (0 % to 100 %)
2	0255	Intensity Red (0 % to 100 %), if channel 7 = 0



Channel	Value	Function	
	Constant hue, if ch	annel 7 = 122	
	06	Colour 1	
	712	Colour 2	
	1318	Colour 3	
	:	:	
	251255	Colour 43	
	Process speed, if channel 7 = 23255		
	0255	Slowfast	
3	0255	Intensity Green (0 % to 100 %), if channel $7 = 0$, otherwise without function	
4	0255	Intensity Blue (0 % to 100 %), if channel $7 = 0$, otherwise without function	
5	0255	Intensity Cold White (0 % to 100 %), if channel $7 = 0$, otherwise without function	
6	09	Without function	
	10255	Strobe effect, Speed slowfast	



Channel	Value	Function	
7	0	Constant mix of RGB, depending on channel 2, 3, 4 and 5	
	122	Constant colour, de	epending on channel 2
	2345	Pr.02	Slow transition, 14 colours in succession
	4668	Pr.03	Slow transition, red, green, blue, cold white in succession
	6991	Pr.04	Fast transition, 14 colours in succession
	92114	Pr.05	Fast transition, red, green, blue, cold white in succession
	115137	Pr.06	Random programme 1
	138160	Pr.07	Random programme 2
	161183	Pr.08	Slow transition bright / dark, red
	184206	Pr.09	Slow transition bright / dark, green
	207229	Pr.10	Slow transition bright / dark, blue
	230255	Pr.11	Slow transition bright / dark, cold white



8 Technical specifications

LEDs	12 × four-colour LEDs, 8 W
Beam angle	25°
Number of DMX channels	1, 4, 5 or 7
Operating supply voltage	AC 110230 V ∼ 50/60 Hz
Power consumption	81 W
Protection class	IP65
Temperature range	−20 °C +45 °C
Dimensions (W \times H \times D)	215 mm × 285 mm × 330 mm
Weight	5.4 kg



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 con-	1. Check the DMX ports and cables for proper connection.
troller.	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.











